

Planck 2018 Results: Cosmological Parameter Tables

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Abstract

These tables summarize the results of *Planck* 2018 parameter estimation exploration results. They are based on *Planck* HFI data and *Planck* lensing, as well as additional non-CMB data as detailed in the main parameter papers.

1 Introduction

The tables are arranged in groups, firstly by cosmological model, and then by data combination. The name tags match those of the full chains also provided on the PLA. The names all start with **base** to denote the baseline model, followed by the parameter tags of any additional parameters that are also varied (as defined in the parameter paper). Data combination tags are as follows (see the parameters paper for full description and references):

Data tag	Data used
plikHM	Baseline high- ℓ <i>Planck</i> power spectra (plik cross-half-mission, $30 \leq \ell \leq 2508$).
CamSpecHM	CamSpec high- ℓ <i>Planck</i> power spectra.
CleanedCamSpecHM	Foreground-cleaned CamSpec high- ℓ <i>Planck</i> power spectra.
lowl	Low- ℓ <i>Planck</i> temperature (Commander , $2 \leq \ell \leq 29$).
lowE	Low- ℓ HFI <i>EE</i> polarization only (SimAll , $2 \leq \ell \leq 29$).
lensing	<i>Planck</i> lensing power spectrum reconstruction. When used without other CMB likelihoods, it is marginalized over the theory CMB spectra given.
BAO	Baryon oscillation data from BOSS DR12, MGS, and 6DF.
Pantheon18	Supernova data from the Pantheon sample, with updated main distance file with heliocentric redshifts.
JLA	Supernova data from the SDSS-II/SNLS3 Joint Light-curve Analysis.
Riess18	Hubble parameter measurement from SHOES (Riess et al. 2018a, $H_0 = 73.45 \pm 1.66$).
BK15	Bicep-Keck (+Planck/WMAP) 2015 analysis (arXiv:1810.05216).
zre6p5	A hard prior, $z_{\text{re}} > 6.5$.
reion	A hard prior, $z_{\text{re}} > 6.5$, combined with a Gaussian prior, $z_{\text{re}} = 7 \pm 1$.
lenspriors	Standard base parameters with $n_s = 0.96 \pm 0.02$, $\Omega_b h^2 = 0.0222 \pm 0.0005$, $100 > H_0 > 40$, $\tau = 0.055$.
DESpriors	DES cosmological parameter priors (flat on $0.1 < \Omega_m < 0.9$, $0.03 < \Omega_b < 0.07$, $55 < H_0 < 91$, $0.5 < 10^9 A_s < 5$, $Y_P = 0.245341$ and, if varied, $0.05\text{eV} < \sum m_\nu < 1\text{eV}$).
CookeDH	A Gaussian prior $\Omega_b h^2 = 0.0222 \pm 0.0005$ (conservative, motivated by Cooke et al. 2017).
Cooke17	A Gaussian prior on D/H (Cooke et al. 2017), mean and error adjusted to approximately agree with CookeDH for $N_{\text{eff}} = 3.046$.
Aver15	A Gaussian constraint on $Y_P^{\text{BBN}} = 0.2449 \pm 0.0040$ (Aver et al. 2015).
theta	A Gaussian prior $100\theta_{\text{MC}} = 1.0409 \pm 0.0006$ (acoustic scale from <i>Planck</i> CMB without LCDM assumption).
WMAP	The full WMAP (temperature and polarization) 9-year data.
DES	DES 1yr, cosmic shear+galaxy auto+cross.
DESlens	DES 1yr, cosmic shear only.
DESw	DES 1yr, galaxy auto+cross only.

The high- ℓ *Planck* likelihoods have TT, TE, EE variants from each spectrum alone, plus the TTTEEE joint constraint. Note that unless **nnu** is specified in the file name, the neutrino mass sum is fixed to $\sum_\nu m_\nu = 0.06\text{eV}$ (including for DES chains). Non-linear corrections are modelled with HMCode in all cases (including when using DESpriors).

Data likelihoods are either included when running the chains, or by importance sampling. Data combinations that are added by importance sampling appear at the end of the list, following the **post_** tag. Note that the best fits are merely examples of parameter combinations that fit the data well; due to parameter degeneracies there may be other combinations of parameters that fit the data nearly equally well.

Beneath each table is the $\chi_{\text{eff}}^2 = -2\log(\text{likelihood})$ for each best-fit model, and also the contributions coming from each separate part of the likelihood. Mean minus log likelihoods are also given, as $\bar{\chi}_{\text{eff}}^2$. The tables also give the χ_{eff}^2 of the various component parts of the likelihood, where quoted values are the best-fit and mean, standard

deviation (in the case of 1σ tables), or effective degrees of freedom (ν , defined by $\sigma^2/2$). Normalization of likelihoods is arbitrary, i.e., a constant can be added to log likelihoods without affecting any results. Only some likelihoods normalize so that the number is immediately interpretable as similar to a χ^2 for some number of data points.

The $R - 1$ value is also given, which measures the convergence of the sampling chains, with small values being better converged. The sampling uncertainty on quoted mean values are typically of order $R - 1$ in units of the standard deviation.

Parameter constraints were calculated from Monte Carlo chains from **CosmoMC** using **GetDist** (getdist.readthedocs.org).

Parameters and derived parameters, along with the name tags used in the chain files, are briefly described in the tables below.

Additional nuisance parameters for each likelihood are described in more detail in the respective papers.

Parameter	Tag	baseline	Definition
$\Omega_b h^2$	omegab2	...	Baryon density today
$\Omega_c h^2$	omegac2	...	Cold dark matter density today
$100\theta_{\text{MC}}$	theta	...	$100\times$ approximation to r_s/D_M (CosmoMC)
τ	tau	...	Thomson scattering optical depth due to reionization
Ω_K	omegak	0	$\Omega_{\text{tot}} = 1 - \Omega_K$
Σm_ν	mnu	0.06	Sum of active neutrino masses in eV
$m_{\nu, \text{sterile}}^{\text{eff}}$	meffsterile	0	Effective mass in sterile neutrinos in eV
w_0	w	-1	Dark energy equation of state, $w(a) = w_0 + (1 - a)w_a$
w_a	wa	0	As above (perturbations modelled using PPF)
N_{eff}	nnu	3.046	Total effective number of massive and massless neutrinos (see text)
Y_P	yhe	BBN	Fraction of baryonic mass in helium (only if varied independently of BBN)
α_{-1}	alpha1	0	Fully correlated isocurvature amplitude parameter
A_L	Alens	1	Amplitude of the lensing power relative to the physical value
$A_L^{\phi\phi}$	Aphiphi	1	Amplitude of the lensing reconstruction power relative to the physical value
A_L^{fid}	Alensf	...	Amplitude of the lensing power relative to a fixed fiducial spectrum
n_s	ns	...	Scalar spectrum power-law index ($k_0 = 0.05\text{Mpc}^{-1}$)
n_t	nt	Inflation	Tensor spectrum power-law index ($k_0 = 0.05\text{Mpc}^{-1}$)
$d \ln n_s / d \ln k$	nrun	0	Running of the spectral index
$\log[10^{10} A_s]$	logA	...	Log power of the primordial curvature perturbations ($k_0 = 0.05\text{Mpc}^{-1}$)
$r_{0.05}$	r	0	Tensor power spectrum amplitude ($k_0 = 0.05\text{Mpc}^{-1}$)
H_0	H0	...	Current expansion rate in $\text{km s}^{-1}\text{Mpc}^{-1}$
Ω_m	omegam	...	Matter density (incl. massive neutrinos) today divided by the critical density
Ω_Λ	omegal	...	Dark energy density divided by the critical density today
$\Omega_m h^2$	omegamh2	...	Total matter density today (incl. massive neutrinos)
$\Omega_m h^3$	omegamh3	...	$h \times$ total matter density today
σ_8	sigma8	...	RMS matter fluctuations today in linear theory
S_8	S8	...	$\sigma_8(\Omega_m/0.3)^{0.5}$
$\sigma_8 \Omega_m^{0.5}$	s8omegamp5	...	$\sigma_8 \Omega_m^{0.5}$ constrained by low-redshift lensing
$\sigma_8 \Omega_m^{0.25}$	s8omegamp25	...	$\sigma_8 \Omega_m^{0.25}$ constrained by CMB lensing
$\sigma_8 / h^{0.5}$	s8h5	...	$\sigma_8 / h^{0.5}$
$\sigma_8 / h^{0.5}$	rdragh	...	$r_{\text{drag}} h$ in Mpc
$\langle d^2 \rangle^{1/2}$	rmsdeflect	...	RMS CMB lensing deflection angle in arcmin (approx. using $2 \leq L \leq 2000$)
z_{re}	zrei	...	Redshift at which Universe is half reionized
$10^9 A_s$	A	...	Power of the primordial curvature perturbations ($k_0 = 0.05\text{Mpc}^{-1}$)
$10^9 A_s e^{-2\tau}$	clamp	...	Parameter determining the small-scale CMB power
Y_P	yheused	bbn	Fraction of baryonic mass in helium
Y_P^{BBN}	YpBBN	bbn	Nucleon fraction in helium
10^5D/H	DHBBN	bbn	10^5 deuterium-helium ratio from Parthenope BBN prediction (pre-Marcucci rates)
Age/Gyr	age	...	Time since the start of the hot big bang

Parameter	Tag	baseline	Definitions
z_*	zstar	...	Redshift for which the optical depth equals unity
$r_* = r_s(z_*)$	rstar	...	Comoving size of the sound horizon at $z = z_*$
$100\theta_*$	thetastar	...	100× Angular size of the sound horizon at last scattering
$D_M/\text{Gpc}(z_*)$	DAstar	...	Comoving angular diameter distance to last scattering
z_{drag}	zdrag	...	Redshift at which baryon-drag optical depth equals unity
$r_{\text{drag}} = r_s(z_{\text{drag}})$	rdrag	...	Comoving size of the sound horizon at $z = z_{\text{drag}}$
k_D	kd	...	Characteristic damping comoving wavenumber (Mpc^{-1})
$100\theta_D$	thetad	...	100× angular extent of photon diffusion at last scattering
z_{eq}	zeq	...	Redshift of matter-radiation equality (massless neutrinos)
k_{eq}	keq	...	$[a(z_{\text{eq}})H(z_{\text{eq}})]^{-1}$
$100\theta_{\text{eq}}$	thetaeq	...	100× angular size of the comoving Horizon at matter-radiation equality
$100\theta_{s,\text{eq}}$	thetarseq	...	100× angular size of the comoving sound Horizon at matter-radiation equality
D_{40}	D40	...	$\ell(\ell+1)C_\ell^{TT}/2\pi$ at $\ell = 40$ in μK^2
D_{220}	D200	...	$\ell(\ell+1)C_\ell^{TT}/2\pi$ at $\ell = 220$ in μK^2
D_{810}	D810	...	$\ell(\ell+1)C_\ell^{TT}/2\pi$ at $\ell = 810$ in μK^2
D_{1420}	D1420	...	$\ell(\ell+1)C_\ell^{TT}/2\pi$ at $\ell = 1420$ in μK^2
D_{2000}	D2000	...	$\ell(\ell+1)C_\ell^{TT}/2\pi$ at $\ell = 2000$ in μK^2
$n_{s,0.002}$	ns02	...	Scalar spectral index at $k = 0.002\text{Mpc}^{-1}$
$r_{0.002}$	r02	0	Tensor/scalar ratio at $k = 0.002\text{Mpc}^{-1}$
$r_{0.01}$	rBB	0	Tensor/scalar ratio at $k = 0.01\text{Mpc}^{-1}$ (roughly BB peak)
r_{10}	r10	0	Tensor-scalar temperature C_ℓ amplitude at $\ell = 10$
A_t	AT	0	$10^9 A_t$ ($k_0 = 0.05\text{Mpc}^{-1}$)
$10^9 A_t e^{-2\tau}$	ctlamp	0	Parameter determining $\ell \simeq 100$ tensor C_ℓ amplitude
$H(z)$	Hubble{100z}	...	Hubble parameter at redshift z ($\text{km s}^{-1}\text{Mpc}^{-1}$)
$D_M(z)$	DM{100z}	...	Comoving angular diameter distance to redshift z in Mpc
$f\sigma_8(z)$	fsigma8z{100z}	...	Growth parameter $f\sigma_8$ at redshift z
$\sigma_8(z)$	sigma8z{100z}	...	σ_8 at redshift z
f_{2000}^{143}	f2000_143	...	Total temperature foreground power at $\ell = 2000$ in 143GHz C_ℓ
$f_{2000}^{143 \times 217}$	f2000_x	...	Total temperature foreground power at $\ell = 2000$ in $217\text{GHz} \times 143\text{GHz}$ C_ℓ
f_{2000}^{217}	f2000_217	...	Total temperature foreground power at $\ell = 2000$ in 217GHz C_ℓ
χ_x^2	chi2_x	...	$-2\log(\text{likelihood})$ for likelihood x ; (most are normalized like a χ^2).

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7.122	base_nnu_BAO_Cooke17Adel_Aver15_Pantheon18_theta	681
8	nnu+meffsterile	682
8.1	base_nnu_meffsterile_plikHM_TT_lowl_lowE	682
8.2	base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_lensing	683
8.3	base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_zre6p5	684
8.4	base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_lensing_zre6p5	685
8.5	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE	686
8.6	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_post_lensing	687
8.7	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_post_zre6p5	688
8.8	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	689
8.9	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE	690
8.10	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_lensing	691
8.11	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5	692
8.12	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	693
8.13	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO	694
8.14	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Pantheon18	695
8.15	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Aver15	696
8.16	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15	697
8.17	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_zre6p5	698
8.18	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5	699
8.19	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Aver15_zre6p5	700
8.20	base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5	701
8.21	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO	702
8.22	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18	703
8.23	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15	704
8.24	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15	705
8.25	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5	706
8.26	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5	707
8.27	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5	708
8.28	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5	709
8.29	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO	710
8.30	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18	711
8.31	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15	712
8.32	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15	713
8.33	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5	714
8.34	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5	715
8.35	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5	716
8.36	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5	717
8.37	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO	718
8.38	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18	719
8.39	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15	720
8.40	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	721
8.41	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_zre6p5	722
8.42	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	723
8.43	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15_zre6p5	724

8.44	base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5	725
8.45	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO	726
8.46	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18	727
8.47	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15	728
8.48	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	729
8.49	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5	730
8.50	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	731
8.51	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15_zre6p5	732
8.52	base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5	733
8.53	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO	734
8.54	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18	735
8.55	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15	736
8.56	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	737
8.57	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5	738
8.58	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	739
8.59	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15_zre6p5	740
8.60	base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5	741
9	nnu+mnu	742
9.1	base_nnu_mnu_plikHM_TT_lowl_lowE	742
9.2	base_nnu_mnu_plikHM_TT_lowl_lowE_post_lensing	743
9.3	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE	744
9.4	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_post_lensing	745
9.5	base_nnu_mnu_CamSpecHM_TT_lowl_lowE	746
9.6	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_post_lensing	747
9.7	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE	748
9.8	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_post_lensing	749
9.9	base_nnu_mnu_plikHM_TT_lowl_lowE_BAO	750
9.10	base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18	751
9.11	base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Aver15	752
9.12	base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15	753
9.13	base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5	754
9.14	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO	755
9.15	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18	756
9.16	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15	757
9.17	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15	758
9.18	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5	759
9.19	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO	760
9.20	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18	761
9.21	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Aver15	762
9.22	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15	763
9.23	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5	764
9.24	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO	765
9.25	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18	766
9.26	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15	767
9.27	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15	768
9.28	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5	769
9.29	base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO	770
9.30	base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18	771
9.31	base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15	772
9.32	base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	773
9.33	base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	774
9.34	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO	775
9.35	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18	776
9.36	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15	777
9.37	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	778
9.38	base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	779
9.39	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO	780
9.40	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18	781
9.41	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Aver15	782
9.42	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	783
9.43	base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	784
9.44	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO	785
9.45	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18	786
9.46	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15	787
9.47	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15	788
9.48	base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5	789
9.49	base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15	790

9.50	base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_post_Pantheon18	791
9.51	base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta	792
9.52	base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta_post_Pantheon18	793
9.53	base_nnu_mnu_BAO_Cooke17_Aver15	794
9.54	base_nnu_mnu_BAO_Cooke17_Aver15_Pantheon18	794
9.55	base_nnu_mnu_BAO_Cooke17_Aver15_theta	795
9.56	base_nnu_mnu_BAO_Cooke17_Aver15_Pantheon18_theta	795
9.57	base_nnu_mnu_BAO_Cooke17Marc_Aver15	796
9.58	base_nnu_mnu_BAO_Cooke17Marc_Aver15_Pantheon18	796
9.59	base_nnu_mnu_BAO_Cooke17Marc_Aver15_theta	797
9.60	base_nnu_mnu_BAO_Cooke17Marc_Aver15_Pantheon18_theta	797
9.61	base_nnu_mnu_BAO_Cooke17Adel_Aver15	798
9.62	base_nnu_mnu_BAO_Cooke17Adel_Aver15_Pantheon18	798
9.63	base_nnu_mnu_BAO_Cooke17Adel_Aver15_theta	799
9.64	base_nnu_mnu_BAO_Cooke17Adel_Aver15_Pantheon18_theta	799
10	nnu+nrn	800
10.1	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE	800
10.2	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO	801
10.3	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing	802
10.4	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing	803
10.5	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_zre6p5	804
10.6	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	805
10.7	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	806
10.8	base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	807
11	nnu+yhe	808
11.1	base_nnu_yhe_plikHM_TT_lowl_lowE	808
11.2	base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO	809
11.3	base_nnu_yhe_plikHM_TT_lowl_lowE_post_lensing	810
11.4	base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing	811
11.5	base_nnu_yhe_plikHM_TT_lowl_lowE_post_zre6p5	812
11.6	base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_zre6p5	813
11.7	base_nnu_yhe_plikHM_TT_lowl_lowE_post_lensing_zre6p5	814
11.8	base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5	815
11.9	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE	816
11.10	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO	817
11.11	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing	818
11.12	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing	819
11.13	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_zre6p5	820
11.14	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	821
11.15	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	822
11.16	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	823
11.17	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE	824
11.18	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO	825
11.19	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing	826
11.20	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing	827
11.21	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5	828
11.22	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	829
11.23	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	830
11.24	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	831
11.25	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15	832
11.26	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO	833
11.27	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing	834
11.28	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing	835
11.29	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_zre6p5	836
11.30	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_zre6p5	837
11.31	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing_zre6p5	838
11.32	base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	839
11.33	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15	840
11.34	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO	841
11.35	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing	842
11.36	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing	843
11.37	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5	844
11.38	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5	845
11.39	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5	846
11.40	base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	847
11.41	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15	848
11.42	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO	849

11.43	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing	850
11.44	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing	851
11.45	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5	852
11.46	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5	853
11.47	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5	854
11.48	base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	855
12	nrn	856
12.1	base_nrn_plikHM_TT_lowl_lowE	856
12.2	base_nrn_plikHM_TT_lowl_lowE_post_BAO	857
12.3	base_nrn_plikHM_TT_lowl_lowE_post_lensing	858
12.4	base_nrn_plikHM_TT_lowl_lowE_post_BAO_lensing	859
12.5	base_nrn_plikHM_TT_lowl_lowE_post_Riess18	860
12.6	base_nrn_plikHM_TT_lowl_lowE_post_zre6p5	861
12.7	base_nrn_plikHM_TT_lowl_lowE_post_BAO_zre6p5	862
12.8	base_nrn_plikHM_TT_lowl_lowE_post_lensing_zre6p5	863
12.9	base_nrn_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5	864
12.10	base_nrn_plikHM_TT_lowl_lowE_post_Riess18_zre6p5	865
12.11	base_nrn_plikHM_TTTEEE_lowl_lowE	866
12.12	base_nrn_plikHM_TTTEEE_lowl_lowE_post_BAO	867
12.13	base_nrn_plikHM_TTTEEE_lowl_lowE_post_lensing	868
12.14	base_nrn_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing	869
12.15	base_nrn_plikHM_TTTEEE_lowl_lowE_post_Riess18	870
12.16	base_nrn_plikHM_TTTEEE_lowl_lowE_post_zre6p5	871
12.17	base_nrn_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	872
12.18	base_nrn_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	873
12.19	base_nrn_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	874
12.20	base_nrn_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5	875
12.21	base_nrn_CamSpecHM_TT_lowl_lowE	876
12.22	base_nrn_CamSpecHM_TT_lowl_lowE_post_BAO	877
12.23	base_nrn_CamSpecHM_TT_lowl_lowE_post_lensing	878
12.24	base_nrn_CamSpecHM_TT_lowl_lowE_post_BAO_lensing	879
12.25	base_nrn_CamSpecHM_TT_lowl_lowE_post_zre6p5	880
12.26	base_nrn_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5	881
12.27	base_nrn_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5	882
12.28	base_nrn_CamSpecHM_TT_lowl_lowE_post_BAO_lensing_zre6p5	883
12.29	base_nrn_CamSpecHM_TTTEEE_lowl_lowE	884
12.30	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_BAO	885
12.31	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_lensing	886
12.32	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing	887
12.33	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18	888
12.34	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5	889
12.35	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	890
12.36	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	891
12.37	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	892
12.38	base_nrn_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5	893
12.39	base_nrn_plikHM_TE_lowE	894
12.40	base_nrn_plikHM_TE_lowE_post_BAO	895
12.41	base_nrn_plikHM_TE_lowE_post_zre6p5	896
12.42	base_nrn_plikHM_TE_lowE_post_BAO_zre6p5	897
12.43	base_nrn_plikHM_EE_lowE	898
12.44	base_nrn_plikHM_EE_lowE_post_BAO	899
12.45	base_nrn_plikHM_EE_lowE_post_zre6p5	900
12.46	base_nrn_plikHM_EE_lowE_post_BAO_zre6p5	901
12.47	base_nrn_CleanedCamSpecHM_TT_lowl_lowE	902
13	nrn+nnu+w+mnu	903
13.1	base_nrn_nnu_w_mnu_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_lensing	903
13.2	base_nrn_nnu_w_mnu_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_lensing_post_zre6p5	904
14	nrn+nrnrun	905
14.1	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE	905
14.2	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_BAO	906
14.3	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_lensing	907
14.4	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing	908
14.5	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_zre6p5	909
14.6	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	910
14.7	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	911
14.8	base_nrn_nrnrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	912

15	nrun+r	913
15.1	base_nrun_r_plikHM_TT_lowl_lowE	913
15.2	base_nrun_r_plikHM_TT_lowl_lowE_post_BAO	914
15.3	base_nrun_r_plikHM_TT_lowl_lowE_post_Riess18	915
15.4	base_nrun_r_plikHM_TT_lowl_lowE_post_zre6p5	916
15.5	base_nrun_r_plikHM_TT_lowl_lowE_post_BAO_zre6p5	917
15.6	base_nrun_r_plikHM_TT_lowl_lowE_post_Riess18_zre6p5	918
15.7	base_nrun_r_plikHM_TTTEEE_lowl_lowE	919
15.8	base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_BAO	920
15.9	base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_Riess18	921
15.10	base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_zre6p5	922
15.11	base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	923
15.12	base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5	924
15.13	base_nrun_r_CamSpecHM_TT_lowl_lowE	925
15.14	base_nrun_r_CamSpecHM_TT_lowl_lowE_post_BAO	926
15.15	base_nrun_r_CamSpecHM_TT_lowl_lowE_post_zre6p5	927
15.16	base_nrun_r_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5	928
15.17	base_nrun_r_plikHM_TT_lowl_lowE_lensing	929
15.18	base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_BAO	930
15.19	base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_zre6p5	931
15.20	base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5	932
15.21	base_nrun_r_plikHM_TTTEEE_lowl_lowE_lensing	933
15.22	base_nrun_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO	934
15.23	base_nrun_r_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5	935
15.24	base_nrun_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5	936
15.25	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing	937
15.26	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO	938
15.27	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5	939
15.28	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5	940
15.29	base_nrun_r_plikHM_TT_lowl_lowE_BK15	941
15.30	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO	942
15.31	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_lensing	943
15.32	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing	944
15.33	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_zre6p5	945
15.34	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_zre6p5	946
15.35	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_lensing_zre6p5	947
15.36	base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5	948
15.37	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15	949
15.38	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO	950
15.39	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_post_zre6p5	951
15.40	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5	952
15.41	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15	953
15.42	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO	954
15.43	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing	955
15.44	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing	956
15.45	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_zre6p5	957
15.46	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_zre6p5	958
15.47	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing_zre6p5	959
15.48	base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5	960
15.49	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15	961
15.50	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO	962
15.51	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing	963
15.52	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing	964
15.53	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_zre6p5	965
15.54	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5	966
15.55	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing_zre6p5	967
15.56	base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing_zre6p5	968
15.57	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing	969
15.58	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO	970
15.59	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_zre6p5	971
15.60	base_nrun_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO_zre6p5	972

16	omegak	973
16.1	base_omegak_plikHM.TT_lowl_lowE	973
16.2	base_omegak_plikHM.TT_lowl_lowE_post_zre6p5	974
16.3	base_omegak_plikHM.TTTEEE_lowl_lowE	975
16.4	base_omegak_plikHM.TTTEEE_lowl_lowE_post_zre6p5	976
16.5	base_omegak_CamSpecHM.TT_lowl_lowE	977
16.6	base_omegak_CamSpecHM.TT_lowl_lowE_post_zre6p5	978
16.7	base_omegak_CamSpecHM.TTTEEE_lowl_lowE	979
16.8	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_post_zre6p5	980
16.9	base_omegak_plikHM.TT_lowl_lowE_BAO	981
16.10	base_omegak_plikHM.TT_lowl_lowE_BAO_post_lensing	982
16.11	base_omegak_plikHM.TT_lowl_lowE_BAO_post_lensing_Pantheon18	983
16.12	base_omegak_plikHM.TT_lowl_lowE_BAO_post_zre6p5	984
16.13	base_omegak_plikHM.TT_lowl_lowE_BAO_post_lensing_zre6p5	985
16.14	base_omegak_plikHM.TT_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5	986
16.15	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO	987
16.16	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_post_lensing	988
16.17	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18	989
16.18	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_post_zre6p5	990
16.19	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5	991
16.20	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5	992
16.21	base_omegak_CamSpecHM.TT_lowl_lowE_BAO	993
16.22	base_omegak_CamSpecHM.TT_lowl_lowE_BAO_post_lensing	994
16.23	base_omegak_CamSpecHM.TT_lowl_lowE_BAO_post_lensing_Pantheon18	995
16.24	base_omegak_CamSpecHM.TT_lowl_lowE_BAO_post_zre6p5	996
16.25	base_omegak_CamSpecHM.TT_lowl_lowE_BAO_post_lensing_zre6p5	997
16.26	base_omegak_CamSpecHM.TT_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5	998
16.27	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO	999
16.28	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO_post_lensing	1000
16.29	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18	1001
16.30	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO_post_zre6p5	1002
16.31	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5	1003
16.32	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5	1004
16.33	base_omegak_plikHM.TT_lowl_lowE_BAO_Riess18_JLA	1005
16.34	base_omegak_plikHM.TT_lowl_lowE_BAO_Riess18_JLA_post_lensing	1006
16.35	base_omegak_plikHM.TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1007
16.36	base_omegak_plikHM.TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1008
16.37	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_Riess18_JLA	1009
16.38	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing	1010
16.39	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1011
16.40	base_omegak_plikHM.TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1012
16.41	base_omegak_plikHM.TT_lowl_lowE_lensing	1013
16.42	base_omegak_plikHM.TT_lowl_lowE_lensing_post_zre6p5	1014
16.43	base_omegak_plikHM.TTTEEE_lowl_lowE_lensing	1015
16.44	base_omegak_plikHM.TTTEEE_lowl_lowE_lensing_post_zre6p5	1016
16.45	base_omegak_CamSpecHM.TT_lowl_lowE_lensing	1017
16.46	base_omegak_CamSpecHM.TT_lowl_lowE_lensing_post_zre6p5	1018
16.47	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_lensing	1019
16.48	base_omegak_CamSpecHM.TTTEEE_lowl_lowE_lensing_post_zre6p5	1020
16.49	base_omegak_CleanedCamSpecHM.TT_lowl_lowE	1021
17	r	1022
17.1	base_r_plikHM.TT_lowl_lowE	1022
17.2	base_r_plikHM.TT_lowl_lowE_post_BAO	1023
17.3	base_r_plikHM.TT_lowl_lowE_post_Riess18	1024
17.4	base_r_plikHM.TT_lowl_lowE_post_zre6p5	1025
17.5	base_r_plikHM.TT_lowl_lowE_post_BAO_zre6p5	1026
17.6	base_r_plikHM.TT_lowl_lowE_post_Riess18_zre6p5	1027
17.7	base_r_plikHM.TTTEEE_lowl_lowE	1028
17.8	base_r_plikHM.TTTEEE_lowl_lowE_post_BAO	1029
17.9	base_r_plikHM.TTTEEE_lowl_lowE_post_Riess18	1030
17.10	base_r_plikHM.TTTEEE_lowl_lowE_post_zre6p5	1031
17.11	base_r_plikHM.TTTEEE_lowl_lowE_post_BAO_zre6p5	1032
17.12	base_r_plikHM.TTTEEE_lowl_lowE_post_Riess18_zre6p5	1033
17.13	base_r_CamSpecHM.TT_lowl_lowE	1034
17.14	base_r_CamSpecHM.TT_lowl_lowE_post_BAO	1035
17.15	base_r_CamSpecHM.TT_lowl_lowE_post_zre6p5	1036
17.16	base_r_CamSpecHM.TT_lowl_lowE_post_BAO_zre6p5	1037

17.17	base_r_CamSpecHM_TTTEEE_lowl_lowE	1038
17.18	base_r_CamSpecHM_TTTEEE_lowl_lowE_post_BAO	1039
17.19	base_r_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5	1040
17.20	base_r_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	1041
17.21	base_r_plikHM_TE_lowE	1042
17.22	base_r_plikHM_TE_lowE_post_BAO	1043
17.23	base_r_plikHM_TE_lowE_post_zre6p5	1044
17.24	base_r_plikHM_TE_lowE_post_BAO_zre6p5	1045
17.25	base_r_plikHM_EE_lowE	1046
17.26	base_r_plikHM_EE_lowE_post_BAO	1047
17.27	base_r_plikHM_EE_lowE_post_zre6p5	1048
17.28	base_r_plikHM_EE_lowE_post_BAO_zre6p5	1049
17.29	base_r_plikHM_TT_lowl_lowE_lensing	1050
17.30	base_r_plikHM_TT_lowl_lowE_lensing_post_BAO	1051
17.31	base_r_plikHM_TT_lowl_lowE_lensing_post_zre6p5	1052
17.32	base_r_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5	1053
17.33	base_r_plikHM_TTTEEE_lowl_lowE_lensing	1054
17.34	base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO	1055
17.35	base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5	1056
17.36	base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5	1057
17.37	base_r_CamSpecHM_TTTEEE_lowl_lowE_lensing	1058
17.38	base_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO	1059
17.39	base_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5	1060
17.40	base_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5	1061
17.41	base_r_CleanedCamSpecHM_TT_lowl_lowE	1062
17.42	base_r_plikHM_TT_lowl_lowE_BK15	1063
17.43	base_r_plikHM_TT_lowl_lowE_BK15_post_BAO	1064
17.44	base_r_plikHM_TT_lowl_lowE_BK15_post_lensing	1065
17.45	base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing	1066
17.46	base_r_plikHM_TT_lowl_lowE_BK15_post_zre6p5	1067
17.47	base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_zre6p5	1068
17.48	base_r_plikHM_TT_lowl_lowE_BK15_post_lensing_zre6p5	1069
17.49	base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5	1070
17.50	base_r_plikHM_TTTEEE_lowl_lowE_BK15	1071
17.51	base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO	1072
17.52	base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_zre6p5	1073
17.53	base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5	1074
17.54	base_r_CamSpecHM_TT_lowl_lowE_BK15	1075
17.55	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO	1076
17.56	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing	1077
17.57	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing	1078
17.58	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_zre6p5	1079
17.59	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_zre6p5	1080
17.60	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing_zre6p5	1081
17.61	base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5	1082
17.62	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15	1083
17.63	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO	1084
17.64	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing	1085
17.65	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing	1086
17.66	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_zre6p5	1087
17.67	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5	1088
17.68	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing_zre6p5	1089
17.69	base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing_zre6p5	1090
17.70	base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing	1091
17.71	base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO	1092
17.72	base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_zre6p5	1093
17.73	base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO_zre6p5	1094
18	w	1095
18.1	base_w_plikHM_TT_lowl_lowE	1095
18.2	base_w_plikHM_TT_lowl_lowE_post_lensing	1096
18.3	base_w_plikHM_TT_lowl_lowE_post_Riess18	1097
18.4	base_w_plikHM_TT_lowl_lowE_post_zre6p5	1098
18.5	base_w_plikHM_TT_lowl_lowE_post_lensing_zre6p5	1099
18.6	base_w_plikHM_TT_lowl_lowE_post_Riess18_zre6p5	1100
18.7	base_w_plikHM_TTTEEE_lowl_lowE	1101
18.8	base_w_plikHM_TTTEEE_lowl_lowE_post_lensing	1102
18.9	base_w_plikHM_TTTEEE_lowl_lowE_post_Riess18	1103

18.10	base_w_plikHM_TTTEEE_lowl_lowE_post_zre6p5	1104
18.11	base_w_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	1105
18.12	base_w_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5	1106
18.13	base_w_CamSpecHM_TT_lowl_lowE	1107
18.14	base_w_CamSpecHM_TT_lowl_lowE_post_lensing	1108
18.15	base_w_CamSpecHM_TT_lowl_lowE_post_zre6p5	1109
18.16	base_w_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5	1110
18.17	base_w_CamSpecHM_TTTEEE_lowl_lowE	1111
18.18	base_w_CamSpecHM_TTTEEE_lowl_lowE_post_lensing	1112
18.19	base_w_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18	1113
18.20	base_w_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5	1114
18.21	base_w_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5	1115
18.22	base_w_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5	1116
18.23	base_w_plikHM_TT_lowl_lowE_BAO	1117
18.24	base_w_plikHM_TT_lowl_lowE_BAO_post_lensing	1118
18.25	base_w_plikHM_TT_lowl_lowE_BAO_post_zre6p5	1119
18.26	base_w_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5	1120
18.27	base_w_plikHM_TTTEEE_lowl_lowE_BAO	1121
18.28	base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing	1122
18.29	base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5	1123
18.30	base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5	1124
18.31	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO	1125
18.32	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing	1126
18.33	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5	1127
18.34	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5	1128
18.35	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA	1129
18.36	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing	1130
18.37	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1131
18.38	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1132
18.39	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA	1133
18.40	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing	1134
18.41	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1135
18.42	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1136
18.43	base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18	1137
18.44	base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing	1138
18.45	base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5	1139
18.46	base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1140
18.47	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18	1141
18.48	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing	1142
18.49	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5	1143
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18.51	base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18	1145
18.52	base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing	1146
18.53	base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5	1147
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18.55	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18	1149
18.56	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing	1150
18.57	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5	1151
18.58	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1152
18.59	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18	1153
18.60	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1154
18.61	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1155
18.62	base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1156
18.63	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18	1157
18.64	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1158
18.65	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1159
18.66	base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1160
18.67	base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18	1161
18.68	base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1162
18.69	base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1163
18.70	base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1164
18.71	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18	1165
18.72	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1166
18.73	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1167
18.74	base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1168
18.75	base_w_CleanedCamSpecHM_TT_lowl_lowE	1169

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19.2	base_w_wa_plikHM_TT_lowl_lowE_BAO_post_lensing	1171
19.3	base_w_wa_plikHM_TT_lowl_lowE_BAO_post_zre6p5	1172
19.4	base_w_wa_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5	1173
19.5	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO	1174
19.6	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing	1175
19.7	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5	1176
19.8	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5	1177
19.9	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA	1178
19.10	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing	1179
19.11	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1180
19.12	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1181
19.13	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA	1182
19.14	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing	1183
19.15	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5	1184
19.16	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5	1185
19.17	base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18	1186
19.18	base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing	1187
19.19	base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5	1188
19.20	base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1189
19.21	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18	1190
19.22	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing	1191
19.23	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5	1192
19.24	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1193
19.25	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18	1194
19.26	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing	1195
19.27	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5	1196
19.28	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1197
19.29	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18	1198
19.30	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing	1199
19.31	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5	1200
19.32	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5	1201
19.33	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18	1202
19.34	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1203
19.35	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1204
19.36	base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1205
19.37	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18	1206
19.38	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1207
19.39	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1208
19.40	base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1209
19.41	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18	1210
19.42	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1211
19.43	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1212
19.44	base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1213
19.45	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18	1214
19.46	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing	1215
19.47	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5	1216
19.48	base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5	1217
20	yhe	1218
20.1	base_yhe_plikHM_TT_lowl_lowE	1218
20.2	base_yhe_plikHM_TT_lowl_lowE_post_BAO	1219
20.3	base_yhe_plikHM_TT_lowl_lowE_post_lensing	1220
20.4	base_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing	1221
20.5	base_yhe_plikHM_TT_lowl_lowE_post_Riess18	1222
20.6	base_yhe_plikHM_TT_lowl_lowE_post_zre6p5	1223
20.7	base_yhe_plikHM_TT_lowl_lowE_post_BAO_zre6p5	1224
20.8	base_yhe_plikHM_TT_lowl_lowE_post_lensing_zre6p5	1225
20.9	base_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5	1226
20.10	base_yhe_plikHM_TT_lowl_lowE_post_Riess18_zre6p5	1227
20.11	base_yhe_plikHM_TTTEEE_lowl_lowE	1228
20.12	base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO	1229
20.13	base_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing	1230
20.14	base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing	1231
20.15	base_yhe_plikHM_TTTEEE_lowl_lowE_post_Riess18	1232
20.16	base_yhe_plikHM_TTTEEE_lowl_lowE_post_zre6p5	1233
20.17	base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5	1234

20.18	base_yhe.plikHM.TTTEEE_lowl_lowE_post_lensing_zre6p5	1235
20.19	base_yhe.plikHM.TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	1236
20.20	base_yhe.plikHM.TTTEEE_lowl_lowE_post_Riess18_zre6p5	1237
20.21	base_yhe.CamSpecHM.TT_lowl_lowE	1238
20.22	base_yhe.CamSpecHM.TT_lowl_lowE_post_BAO	1239
20.23	base_yhe.CamSpecHM.TT_lowl_lowE_post_lensing	1240
20.24	base_yhe.CamSpecHM.TT_lowl_lowE_post_BAO_lensing	1241
20.25	base_yhe.CamSpecHM.TT_lowl_lowE_post_zre6p5	1242
20.26	base_yhe.CamSpecHM.TT_lowl_lowE_post_BAO_zre6p5	1243
20.27	base_yhe.CamSpecHM.TT_lowl_lowE_post_lensing_zre6p5	1244
20.28	base_yhe.CamSpecHM.TT_lowl_lowE_post_BAO_lensing_zre6p5	1245
20.29	base_yhe.CamSpecHM.TTTEEE_lowl_lowE	1246
20.30	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_BAO	1247
20.31	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_lensing	1248
20.32	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_BAO_lensing	1249
20.33	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_Riess18	1250
20.34	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_zre6p5	1251
20.35	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_BAO_zre6p5	1252
20.36	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_lensing_zre6p5	1253
20.37	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5	1254
20.38	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_post_Riess18_zre6p5	1255
20.39	base_yhe.plikHM.TE_lowE	1256
20.40	base_yhe.plikHM.TE_lowE_post_BAO	1257
20.41	base_yhe.plikHM.TE_lowE_post_zre6p5	1258
20.42	base_yhe.plikHM.TE_lowE_post_BAO_zre6p5	1259
20.43	base_yhe.plikHM.EE_lowE	1260
20.44	base_yhe.plikHM.EE_lowE_post_BAO	1261
20.45	base_yhe.plikHM.EE_lowE_post_zre6p5	1262
20.46	base_yhe.plikHM.EE_lowE_post_BAO_zre6p5	1263
20.47	base_yhe.plikHM.TT_lowl_lowE_Aver15	1264
20.48	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_BAO	1265
20.49	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_lensing	1266
20.50	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_BAO_lensing	1267
20.51	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_zre6p5	1268
20.52	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_BAO_zre6p5	1269
20.53	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_lensing_zre6p5	1270
20.54	base_yhe.plikHM.TT_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	1271
20.55	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15	1272
20.56	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_BAO	1273
20.57	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_lensing	1274
20.58	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_BAO_lensing	1275
20.59	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_zre6p5	1276
20.60	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5	1277
20.61	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5	1278
20.62	base_yhe.plikHM.TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	1279
20.63	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15	1280
20.64	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_BAO	1281
20.65	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_lensing	1282
20.66	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_BAO_lensing	1283
20.67	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_zre6p5	1284
20.68	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5	1285
20.69	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5	1286
20.70	base_yhe.CamSpecHM.TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5	1287
20.71	base_yhe.CleanedCamSpecHM.TT_lowl_lowE	1288

2 Baseline model

2.1 base_plikHM-TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02212^{+0.00059}_{-0.00055}$	$\sigma_8 \Omega_m^{0.25}$	0.6116	$0.611^{+0.030}_{-0.031}$	$H(0.15)$	72.23	$72.3^{+2.1}_{-2.0}$
$\Omega_c h^2$	0.1207	$0.1206^{+0.0054}_{-0.0054}$	$\sigma_8/h^{0.5}$	0.9938	$0.993^{+0.041}_{-0.042}$	$D_M(0.15)$	647.8	648^{+21}_{-21}
$100\theta_{MC}$	1.04075	$1.0408^{+0.0012}_{-0.0013}$	$r_{drag} h$	98.40	$98.5^{+4.3}_{-4.1}$	$H(0.38)$	82.50	$82.5^{+1.5}_{-1.4}$
τ	0.0523	$0.052^{+0.022}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.454	$2.454^{+0.096}_{-0.098}$	$D_M(0.38)$	1542.6	1542^{+42}_{-41}
$\ln(10^{10} A_s)$	3.0413	$3.040^{+0.044}_{-0.044}$	z_{re}	7.54	$7.5^{+2.2}_{-2.3}$	$H(0.51)$	89.31	$89.3^{+1.2}_{-1.1}$
n_s	0.9635	$0.963^{+0.015}_{-0.014}$	$10^9 A_s$	2.093	$2.092^{+0.094}_{-0.091}$	$D_M(0.51)$	1996.8	1997^{+48}_{-49}
y_{cal}	1.0005	$1.0004^{+0.0065}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8853	$1.884^{+0.035}_{-0.036}$	$H(0.61)$	95.00	$95.01^{+0.98}_{-0.87}$
A_{217}^{CIB}	48.5	48^{+20}_{-20}	D_{40}	1231.7	1234^{+39}_{-40}	$D_M(0.61)$	2322	2322^{+52}_{-52}
$\xi^{tSZ \times CIB}$	0.32	—	D_{220}	5710	5713^{+110}_{-110}	$H(2.33)$	236.75	$236.7^{+3.3}_{-3.3}$
A_{143}^{tSZ}	7.0	—	D_{810}	2538.2	2536^{+36}_{-35}	$D_M(2.33)$	5777.8	5778^{+41}_{-44}
A_{100}^{PS}	255	263^{+70}_{-70}	D_{1420}	815.5	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.4642	$0.464^{+0.031}_{-0.032}$
A_{143}^{PS}	49.8	49^{+20}_{-20}	D_{2000}	229.94	$229.5^{+4.8}_{-4.6}$	$\sigma_8(0.15)$	0.7500	$0.749^{+0.019}_{-0.020}$
$A_{143 \times 217}^{PS}$	47.3	44^{+20}_{-20}	$n_{s,0.002}$	0.9635	$0.963^{+0.015}_{-0.014}$	$f\sigma_8(0.38)$	0.4804	$0.480^{+0.024}_{-0.025}$
A_{217}^{PS}	119.9	115^{+30}_{-30}	Y_P	0.245295	$0.24529^{+0.00023}_{-0.00026}$	$\sigma_8(0.38)$	0.6638	$0.663^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246621	$0.24661^{+0.00023}_{-0.00026}$	$f\sigma_8(0.51)$	0.4779	$0.477^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.7}$	$10^5 D/H$	2.632	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6208	$0.620^{+0.014}_{-0.015}$
A_{143}^{dustTT}	10.80	$10.7^{+4.7}_{-4.7}$	Age/Gyr	13.830	$13.830^{+0.094}_{-0.097}$	$f\sigma_8(0.61)$	0.4722	$0.472^{+0.018}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.6}_{-8.4}$	z_*	1090.29	$1090.3^{+1.0}_{-1.1}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.013}_{-0.014}$
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	r_*	144.44	$144.5^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	0.2973	$0.2971^{+0.0069}_{-0.0066}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	$100\theta_*$	1.04096	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3061	$0.3059^{+0.0074}_{-0.0069}$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.876	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	30.5	31^{+8}_{-8}
H_0	66.86	$66.9^{+2.5}_{-2.4}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	33.3	34^{+5}_{-5}
Ω_Λ	0.6791	$0.679^{+0.033}_{-0.035}$	r_{drag}	147.18	$147.2^{+1.3}_{-1.3}$	f_{2000}^{217}	107.8	$108.2^{+5.0}_{-5.0}$
Ω_m	0.3209	$0.321^{+0.035}_{-0.033}$	k_D	0.14058	$0.1405^{+0.0014}_{-0.0014}$	χ_{simall}^2	395.88	$397.0 (\nu: 1.5)$
$\Omega_m h^2$	0.1435	$0.1434^{+0.0052}_{-0.0052}$	$100\theta_D$	0.16105	$0.16107^{+0.00068}_{-0.00070}$	χ_{lowl}^2	23.60	$23.9 (\nu: 0.8)$
$\Omega_m h^3$	0.09591	$0.0959^{+0.0012}_{-0.0011}$	z_{eq}	3413	3411^{+120}_{-120}	χ_{plik}^2	758.7	$771.4 (\nu: 14.9)$
σ_8	0.8126	$0.812^{+0.022}_{-0.024}$	k_{eq}	0.010416	$0.01041^{+0.00038}_{-0.00038}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.8)$
S_8	0.840	$0.840^{+0.063}_{-0.063}$	$100\theta_{eq}$	0.8106	$0.811^{+0.024}_{-0.022}$	χ_{CMB}^2	1178.2	$1192.3 (\nu: 15.1)$
$\sigma_8 \Omega_m^{0.5}$	0.4604	$0.460^{+0.035}_{-0.034}$	$100\theta_{s,eq}$	0.4482	$0.448^{+0.012}_{-0.011}$			

Best-fit $\chi_{eff}^2 = 1179.58$; $\bar{\chi}_{eff}^2 = 1199.58$; $R - 1 = 0.00927$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3.2_29: 23.60 plik_rd12_HM_v22_TT: 758.75

2.2 base_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02223	$0.02222^{+0.00053}_{-0.00050}$	$\sigma_8/h^{0.5}$	0.9814	$0.982^{+0.030}_{-0.030}$	$H(0.38)$	82.97	$82.96^{+0.94}_{-0.88}$
$\Omega_c h^2$	0.11898	$0.1190^{+0.0031}_{-0.0031}$	$r_{\text{drag}} h$	99.76	$99.8^{+2.4}_{-2.4}$	$D_M(0.38)$	1529.5	1530^{+24}_{-25}
$100\theta_{\text{MC}}$	1.04102	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.425	$2.429^{+0.070}_{-0.072}$	$H(0.51)$	89.67	$89.66^{+0.78}_{-0.72}$
τ	0.0532	$0.054^{+0.022}_{-0.020}$	z_{re}	7.59	$7.6^{+2.1}_{-2.2}$	$D_M(0.51)$	1981.5	1982^{+28}_{-29}
$\ln(10^{10} A_s)$	3.0390	$3.040^{+0.045}_{-0.045}$	$10^9 A_s$	2.089	$2.091^{+0.096}_{-0.092}$	$H(0.61)$	95.27	$95.26^{+0.67}_{-0.61}$
n_s	0.9673	$0.966^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8777	$1.877^{+0.030}_{-0.031}$	$D_M(0.61)$	2305.9	2306^{+30}_{-31}
y_{cal}	1.0004	$1.0005^{+0.0067}_{-0.0065}$	D_{40}	1223.2	1226^{+33}_{-34}	$H(2.33)$	235.75	$235.7^{+2.0}_{-2.0}$
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{220}	5717	5721^{+99}_{-110}	$D_M(2.33)$	5766.2	5767^{+31}_{-33}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.26	—	D_{810}	2536.8	2536^{+36}_{-37}	$f\sigma_8(0.15)$	0.4542	$0.454^{+0.020}_{-0.020}$
A_{143}^{tSZ}	7.1	—	D_{1420}	816.3	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7459	$0.746^{+0.018}_{-0.018}$
A_{100}^{PS}	255	264^{+70}_{-80}	D_{2000}	230.24	$229.9^{+4.5}_{-4.6}$	$f\sigma_8(0.38)$	0.4727	$0.473^{+0.017}_{-0.017}$
A_{143}^{PS}	48.1	48^{+20}_{-20}	$n_{s,0.002}$	0.9673	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.38)$	0.6613	$0.661^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	44.9	43^{+20}_{-20}	Y_{P}	0.245336	$0.24533^{+0.00020}_{-0.00023}$	$f\sigma_8(0.51)$	0.4715	$0.472^{+0.015}_{-0.015}$
A_{217}^{PS}	118.4	114^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246663	$0.24666^{+0.00021}_{-0.00024}$	$\sigma_8(0.51)$	0.6190	$0.619^{+0.015}_{-0.014}$
A^{kSZ}	0.0	—	$10^5 \text{D}/\text{H}$	2.613	$2.615^{+0.096}_{-0.097}$	$f\sigma_8(0.61)$	0.4666	$0.467^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.85	$9.0^{+4.5}_{-4.6}$	Age/Gyr	13.805	$13.807^{+0.071}_{-0.074}$	$\sigma_8(0.61)$	0.5890	$0.589^{+0.013}_{-0.013}$
A_{143}^{dustTT}	10.85	$10.8^{+4.7}_{-4.6}$	z_*	1090.01	$1090.03^{+0.77}_{-0.77}$	$f\sigma_8(2.33)$	0.2970	$0.2971^{+0.0069}_{-0.0067}$
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.6}_{-8.5}$	r_*	144.81	$144.82^{+0.83}_{-0.80}$	$\sigma_8(2.33)$	0.3063	$0.3063^{+0.0073}_{-0.0069}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$100\theta_*$	1.04121	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	30.3	31^{+8}_{-7}
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.907	$13.909^{+0.083}_{-0.078}$	$f_{2000}^{143 \times 217}$	33.1	33^{+6}_{-5}
c_{217}	0.99826	$0.9983^{+0.0017}_{-0.0015}$	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.1}$	f_{2000}^{217}	107.6	$107.9^{+5.1}_{-5.2}$
H_0	67.62	$67.6^{+1.5}_{-1.4}$	r_{drag}	147.52	$147.54^{+0.91}_{-0.86}$	χ_{simall}^2	395.89	$397.1 (\nu: 1.9)$
Ω_Λ	0.6898	$0.690^{+0.019}_{-0.019}$	k_{D}	0.14030	$0.1403^{+0.0011}_{-0.0012}$	χ_{lowl}^2	22.83	$23.09 (\nu: 0.4)$
Ω_{m}	0.3102	$0.310^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	0.16101	$0.16102^{+0.00068}_{-0.00067}$	χ_{plik}^2	760.1	$772.2 (\nu: 15.1)$
$\Omega_{\text{m}} h^2$	0.14185	$0.1418^{+0.0031}_{-0.0031}$	z_{eq}	3374	3374^{+74}_{-74}	$\chi_{6\text{DF}}^2$	0.022	$0.059 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09593	$0.0959^{+0.0011}_{-0.0011}$	k_{eq}	0.010299	$0.01030^{+0.00022}_{-0.00022}$	χ_{MGS}^2	1.28	$1.35 (\nu: 0.1)$
σ_8	0.8071	$0.807^{+0.020}_{-0.020}$	$100\theta_{\text{eq}}$	0.8180	$0.818^{+0.014}_{-0.013}$	χ_{DR12BAO}^2	4.18	$4.8 (\nu: 1.3)$
S_8	0.8207	$0.821^{+0.038}_{-0.038}$	$100\theta_{s,\text{eq}}$	0.4519	$0.4520^{+0.0071}_{-0.0069}$	χ_{prior}^2	1.4	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4495	$0.450^{+0.021}_{-0.021}$	$H(0.15)$	72.89	$72.9^{+1.3}_{-1.2}$	χ_{BAO}^2	5.49	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6023	$0.602^{+0.020}_{-0.020}$	$D_M(0.15)$	641.2	641^{+12}_{-12}	χ_{CMB}^2	1178.8	$1192.4 (\nu: 15.4)$

Best-fit $\chi_{\text{eff}}^2 = 1185.74$; $\bar{\chi}_{\text{eff}}^2 = 1206.02$; $R - 1 = 0.01940$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.18 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.89 commander_dx12_v3.2.29: 22.83 plik_rd12_HM_v22.TT: 760.10

2.3 base_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02238	$0.02237^{+0.00053}_{-0.00054}$	$\sigma_8 \Omega_m^{0.25}$	0.5933	$0.593^{+0.028}_{-0.030}$	$H(0.15)$	73.62	$73.6^{+1.8}_{-1.8}$
$\Omega_c h^2$	0.11720	$0.1171^{+0.0048}_{-0.0046}$	$\sigma_8/h^{0.5}$	0.9695	$0.969^{+0.038}_{-0.043}$	$D_M(0.15)$	634.0	634^{+18}_{-17}
$100\theta_{MC}$	1.04127	$1.0413^{+0.0011}_{-0.0012}$	$r_{drag}h$	101.22	$101.3^{+3.7}_{-3.8}$	$H(0.38)$	83.50	$83.5^{+1.3}_{-1.3}$
τ	0.0554	$0.056^{+0.021}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.398	$2.400^{+0.091}_{-0.10}$	$D_M(0.38)$	1515.0	1515^{+37}_{-35}
$\ln(10^{10} A_s)$	3.0399	$3.041^{+0.046}_{-0.041}$	z_{re}	7.74	$7.8^{+2.0}_{-2.2}$	$H(0.51)$	90.09	$90.1^{+1.1}_{-1.1}$
n_s	0.9719	$0.971^{+0.012}_{-0.014}$	$10^9 A_s$	2.090	$2.093^{+0.098}_{-0.083}$	$D_M(0.51)$	1964.6	1964^{+43}_{-41}
y_{cal}	1.0007	$1.0006^{+0.0071}_{-0.0067}$	$10^9 A_s e^{-2\tau}$	1.8711	$1.870^{+0.033}_{-0.036}$	$H(0.61)$	95.61	$95.62^{+0.83}_{-0.86}$
A_{217}^{CIB}	48.4	48^{+20}_{-20}	D_{40}	1214.7	1217^{+38}_{-40}	$D_M(0.61)$	2287.7	2287^{+46}_{-44}
$\xi^{tSZ \times CIB}$	0.35	—	D_{220}	5729	5732^{+110}_{-110}	$H(2.33)$	234.75	$234.7^{+3.0}_{-2.6}$
A_{143}^{tSZ}	7.1	—	D_{810}	2537.4	2535^{+37}_{-39}	$D_M(2.33)$	5751.9	5752^{+40}_{-37}
A_{100}^{PS}	253	262^{+70}_{-80}	D_{1420}	818.1	817^{+13}_{-13}	$f\sigma_8(0.15)$	0.4442	$0.444^{+0.028}_{-0.029}$
A_{143}^{PS}	48.0	47^{+20}_{-20}	D_{2000}	231.01	$230.6^{+4.5}_{-4.5}$	$\sigma_8(0.15)$	0.7426	$0.742^{+0.020}_{-0.023}$
$A_{143 \times 217}^{PS}$	46.4	43^{+30}_{-20}	$n_{s,0.002}$	0.9719	$0.971^{+0.012}_{-0.014}$	$f\sigma_8(0.38)$	0.4652	$0.465^{+0.023}_{-0.025}$
A_{217}^{PS}	118.6	114^{+30}_{-30}	Y_P	0.245399	$0.24539^{+0.00021}_{-0.00024}$	$\sigma_8(0.38)$	0.6596	$0.659^{+0.016}_{-0.018}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246725	$0.24672^{+0.00021}_{-0.00024}$	$f\sigma_8(0.51)$	0.4652	$0.465^{+0.020}_{-0.022}$
A_{100}^{dustTT}	8.96	$9.1^{+4.5}_{-4.7}$	$10^5 D/H$	2.584	$2.59^{+0.10}_{-0.096}$	$\sigma_8(0.51)$	0.6178	$0.618^{+0.015}_{-0.016}$
A_{143}^{dustTT}	10.84	$10.7^{+5.2}_{-4.5}$	Age/Gyr	13.774	$13.774^{+0.088}_{-0.081}$	$f\sigma_8(0.61)$	0.4613	$0.461^{+0.018}_{-0.021}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.1^{+8.6}_{-7.8}$	z_*	1089.66	$1089.67^{+0.97}_{-0.89}$	$\sigma_8(0.61)$	0.5882	$0.588^{+0.014}_{-0.014}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	r_*	145.15	$145.2^{+1.1}_{-1.1}$	$f\sigma_8(2.33)$	0.2971	$0.2971^{+0.0069}_{-0.0064}$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04146	$1.0415^{+0.0011}_{-0.0012}$	$\sigma_8(2.33)$	0.3069	$0.3069^{+0.0072}_{-0.0068}$
c_{217}	0.99826	$0.9983^{+0.0017}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.938	$13.94^{+0.10}_{-0.10}$	f_{2000}^{143}	29.5	30^{+8}_{-8}
H_0	68.47	$68.5^{+2.1}_{-2.1}$	z_{drag}	1059.74	$1059.7^{+1.2}_{-1.1}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-5}
Ω_Λ	0.7009	$0.701^{+0.026}_{-0.029}$	r_{drag}	147.83	$147.9^{+1.2}_{-1.2}$	f_{2000}^{217}	107.1	$107.4^{+5.1}_{-5.2}$
Ω_m	0.2991	$0.299^{+0.029}_{-0.026}$	k_D	0.14010	$0.1401^{+0.0013}_{-0.0015}$	χ_{simall}^2	396.1	$397.3 (\nu: 2.1)$
$\Omega_m h^2$	0.14022	$0.1401^{+0.0046}_{-0.0042}$	$100\theta_D$	0.16089	$0.16091^{+0.00066}_{-0.00066}$	χ_{lowl}^2	22.09	$22.35 (\nu: 0.5)$
$\Omega_m h^3$	0.09602	$0.0960^{+0.0011}_{-0.0014}$	z_{eq}	3335	3333^{+110}_{-100}	χ_{plik}^2	763.0	$775.9 (\nu: 23.6)$
σ_8	0.8023	$0.802^{+0.023}_{-0.027}$	k_{eq}	0.010180	$0.01017^{+0.00034}_{-0.00031}$	$\chi_{H073p45}^2$	9.0	$9.1 (\nu: 4.7)$
S_8	0.801	$0.800^{+0.056}_{-0.055}$	$100\theta_{eq}$	0.8257	$0.826^{+0.020}_{-0.021}$	χ_{prior}^2	1.4	$7.4 (\nu: 7.1)$
$\sigma_8 \Omega_m^{0.5}$	0.4387	$0.438^{+0.030}_{-0.030}$	$100\theta_{s,eq}$	0.4559	$0.456^{+0.010}_{-0.011}$	χ_{CMB}^2	1181.2	$1195.6 (\nu: 21.1)$

Best-fit $\chi_{eff}^2 = 1191.57$; $\bar{\chi}_{eff}^2 = 1212.08$; $R - 1 = 0.09494$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.07 commander_dx12_v3.2_29: 22.09 plik_rd12_HM_v22_TT: 763.02 Hubble - H073p45: 8.98

2.4 base_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02212^{+0.00058}_{-0.00055}$	$\sigma_8 \Omega_m^{0.25}$	$0.612^{+0.030}_{-0.030}$	$H(0.15)$	$72.3^{+2.1}_{-2.0}$
$\Omega_c h^2$	$0.1206^{+0.0054}_{-0.0054}$	$\sigma_8/h^{0.5}$	$0.994^{+0.040}_{-0.041}$	$D_M(0.15)$	647^{+21}_{-20}
$100\theta_{MC}$	$1.0408^{+0.0012}_{-0.0013}$	$r_{drag}h$	$98.5^{+4.3}_{-4.0}$	$H(0.38)$	$82.5^{+1.5}_{-1.4}$
τ	$0.054^{+0.019}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.095}_{-0.097}$	$D_M(0.38)$	1542^{+41}_{-41}
$\ln(10^{10} A_s)$	$3.044^{+0.041}_{-0.030}$	z_{re}	< 9.46	$H(0.51)$	$89.3^{+1.2}_{-1.1}$
n_s	$0.963^{+0.015}_{-0.014}$	$10^9 A_s$	$2.098^{+0.088}_{-0.063}$	$D_M(0.51)$	1996^{+48}_{-48}
y_{cal}	$1.0004^{+0.0065}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	$1.884^{+0.035}_{-0.036}$	$H(0.61)$	$95.02^{+0.98}_{-0.87}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1234^{+40}_{-40}	$D_M(0.61)$	2321^{+51}_{-52}
$\xi^{tSZ \times CIB}$	—	D_{220}	5713^{+100}_{-110}	$H(2.33)$	$236.7^{+3.3}_{-3.3}$
A_{143}^{tSZ}	—	D_{810}	2536^{+36}_{-35}	$D_M(2.33)$	5777^{+42}_{-43}
A_{100}^{PS}	263^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.15)$	$0.464^{+0.031}_{-0.032}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.6^{+4.8}_{-4.6}$	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.018}$
$A_{143 \times 217}^{PS}$	44^{+20}_{-20}	$n_{s,0.002}$	$0.963^{+0.015}_{-0.014}$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	Y_P	$0.24529^{+0.00023}_{-0.00026}$	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.013}$
A^{kSZ}	—	Y_P^{BBN}	$0.24661^{+0.00023}_{-0.00026}$	$f\sigma_8(0.51)$	$0.478^{+0.020}_{-0.022}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	$10^5 D/H$	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.7}$	Age/Gyr	$13.829^{+0.094}_{-0.096}$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	$18.3^{+8.6}_{-8.5}$	z_*	$1090.3^{+1.0}_{-1.1}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.010}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	$0.2975^{+0.0065}_{-0.0047}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.3064^{+0.0070}_{-0.0047}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	31^{+8}_{-8}
H_0	$66.9^{+2.4}_{-2.3}$	z_{drag}	$1059.4^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
Ω_Λ	$0.680^{+0.033}_{-0.035}$	r_{drag}	$147.2^{+1.3}_{-1.2}$	f_{2000}^{217}	$108.1^{+4.9}_{-5.0}$
Ω_m	$0.320^{+0.035}_{-0.033}$	k_D	$0.1405^{+0.0014}_{-0.0014}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
$\Omega_m h^2$	$0.1433^{+0.0052}_{-0.0051}$	$100\theta_D$	$0.16107^{+0.00069}_{-0.00069}$	χ_{lowl}^2	$23.9 (\nu: 0.8)$
$\Omega_m h^3$	$0.0959^{+0.0012}_{-0.0012}$	z_{eq}	3410^{+120}_{-120}	χ_{plik}^2	$771.3 (\nu: 14.7)$
σ_8	$0.813^{+0.021}_{-0.022}$	k_{eq}	$0.01041^{+0.00038}_{-0.00037}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
S_8	$0.840^{+0.063}_{-0.062}$	$100\theta_{eq}$	$0.811^{+0.024}_{-0.022}$	χ_{CMB}^2	$1192.0 (\nu: 14.8)$
$\sigma_8 \Omega_m^{0.5}$	$0.460^{+0.034}_{-0.034}$	$100\theta_{s,eq}$	$0.448^{+0.012}_{-0.011}$		

$\bar{\chi}_{eff}^2 = 1199.32; R - 1 = 0.00921$

2.5 base_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00053}_{-0.00050}$	$\sigma_8/h^{0.5}$	$0.983^{+0.029}_{-0.028}$	$H(0.38)$	$82.97^{+0.93}_{-0.88}$
$\Omega_c h^2$	$0.1189^{+0.0031}_{-0.0031}$	$r_{\text{drag}} h$	$99.8^{+2.4}_{-2.4}$	$D_{\text{M}}(0.38)$	1530^{+24}_{-25}
$100\theta_{\text{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.069}_{-0.067}$	$H(0.51)$	$89.66^{+0.78}_{-0.72}$
τ	$0.055^{+0.020}_{-0.014}$	z_{re}	< 9.58	$D_{\text{M}}(0.51)$	1982^{+28}_{-29}
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.043}_{-0.031}$	$10^9 A_{\text{s}}$	$2.097^{+0.092}_{-0.065}$	$H(0.61)$	$95.27^{+0.66}_{-0.62}$
n_{s}	$0.967^{+0.011}_{-0.011}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.031}$	$D_{\text{M}}(0.61)$	2306^{+30}_{-32}
y_{cal}	$1.0005^{+0.0067}_{-0.0064}$	D_{40}	1226^{+33}_{-34}	$H(2.33)$	$235.7^{+2.0}_{-2.0}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5721^{+99}_{-110}	$D_{\text{M}}(2.33)$	5767^{+31}_{-32}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2536^{+36}_{-36}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.020}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.015}$
A_{100}^{PS}	263^{+70}_{-80}	D_{2000}	$230.0^{+4.5}_{-4.6}$	$f\sigma_8(0.38)$	$0.473^{+0.016}_{-0.016}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\text{s},0.002}$	$0.967^{+0.011}_{-0.011}$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24533^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011}$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.615^{+0.097}_{-0.096}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.6}$	Age/Gyr	$13.806^{+0.072}_{-0.073}$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.010}$
A_{143}^{dustTT}	$10.8^{+4.8}_{-4.6}$	z_*	$1090.02^{+0.77}_{-0.77}$	$f\sigma_8(2.33)$	$0.2974^{+0.0067}_{-0.0048}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.4}_{-8.4}$	r_*	$144.82^{+0.83}_{-0.80}$	$\sigma_8(2.33)$	$0.3067^{+0.0070}_{-0.0050}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-7}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.909^{+0.084}_{-0.079}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
c_{217}	$0.9983^{+0.0017}_{-0.0015}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	f_{2000}^{217}	$107.9^{+5.1}_{-5.2}$
H_0	$67.6^{+1.5}_{-1.4}$	r_{drag}	$147.54^{+0.91}_{-0.87}$	χ_{simall}^2	$397.1 (\nu: 1.9)$
Ω_{Λ}	$0.690^{+0.018}_{-0.019}$	k_{D}	$0.1403^{+0.0011}_{-0.0012}$	χ_{lowl}^2	$23.11 (\nu: 0.4)$
Ω_{m}	$0.310^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	$0.16101^{+0.00068}_{-0.00067}$	χ_{plik}^2	$772.0 (\nu: 14.8)$
$\Omega_{\text{m}} h^2$	$0.1418^{+0.0031}_{-0.0031}$	z_{eq}	3373^{+74}_{-73}	$\chi_{6\text{DF}}^2$	$0.058 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0011}$	k_{eq}	$0.01030^{+0.00022}_{-0.00022}$	χ_{MGS}^2	$1.36 (\nu: 0.1)$
σ_8	$0.808^{+0.020}_{-0.017}$	$100\theta_{\text{eq}}$	$0.818^{+0.014}_{-0.013}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.3)$
S_8	$0.822^{+0.038}_{-0.038}$	$100\theta_{\text{s,eq}}$	$0.4520^{+0.0071}_{-0.0069}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.021}_{-0.021}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.020}_{-0.020}$	$D_{\text{M}}(0.15)$	641^{+12}_{-12}	χ_{CMB}^2	$1192.2 (\nu: 15.0)$
$\bar{\chi}_{\text{eff}}^2 = 1205.76; R - 1 = 0.02069$					

2.6 base_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00053}_{-0.00054}$	$\sigma_8 \Omega_m^{0.25}$	$0.594^{+0.027}_{-0.031}$	$H(0.15)$	$73.6^{+1.8}_{-1.8}$
$\Omega_c h^2$	$0.1171^{+0.0048}_{-0.0046}$	$\sigma_8/h^{0.5}$	$0.970^{+0.037}_{-0.044}$	$D_M(0.15)$	634^{+18}_{-17}
$100\theta_{MC}$	$1.0413^{+0.0011}_{-0.0012}$	$r_{drag}h$	$101.3^{+3.7}_{-3.7}$	$H(0.38)$	$83.5^{+1.3}_{-1.3}$
τ	$0.057^{+0.020}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.403^{+0.089}_{-0.10}$	$D_M(0.38)$	1515^{+36}_{-35}
$\ln(10^{10} A_s)$	$3.043^{+0.044}_{-0.040}$	z_{re}	< 9.61	$H(0.51)$	$90.1^{+1.1}_{-1.0}$
n_s	$0.971^{+0.012}_{-0.013}$	$10^9 A_s$	$2.097^{+0.094}_{-0.082}$	$D_M(0.51)$	1964^{+42}_{-41}
y_{cal}	$1.0006^{+0.0068}_{-0.0067}$	$10^9 A_s e^{-2\tau}$	$1.870^{+0.033}_{-0.036}$	$H(0.61)$	$95.62^{+0.83}_{-0.85}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1217^{+38}_{-41}	$D_M(0.61)$	2287^{+45}_{-44}
$\xi^{tSZ \times CIB}$	—	D_{220}	5732^{+110}_{-110}	$H(2.33)$	$234.7^{+2.9}_{-2.6}$
A_{143}^{tSZ}	—	D_{810}	2535^{+37}_{-39}	$D_M(2.33)$	5752^{+39}_{-37}
A_{100}^{PS}	262^{+70}_{-80}	D_{1420}	817^{+13}_{-13}	$f\sigma_8(0.15)$	$0.444^{+0.028}_{-0.029}$
A_{143}^{PS}	47^{+20}_{-20}	D_{2000}	$230.6^{+4.6}_{-4.5}$	$\sigma_8(0.15)$	$0.743^{+0.019}_{-0.024}$
$A_{143 \times 217}^{PS}$	42^{+30}_{-20}	$n_{s,0.002}$	$0.971^{+0.012}_{-0.013}$	$f\sigma_8(0.38)$	$0.465^{+0.022}_{-0.025}$
A_{217}^{PS}	114^{+30}_{-30}	Y_P	$0.24539^{+0.00021}_{-0.00024}$	$\sigma_8(0.38)$	$0.660^{+0.016}_{-0.019}$
A^{kSZ}	—	Y_P^{BBN}	$0.24672^{+0.00021}_{-0.00024}$	$f\sigma_8(0.51)$	$0.465^{+0.019}_{-0.023}$
A_{100}^{dustTT}	$9.1^{+4.6}_{-4.6}$	$10^5 D/H$	$2.59^{+0.10}_{-0.096}$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.016}$
A_{143}^{dustTT}	$10.6^{+5.2}_{-4.4}$	Age/Gyr	$13.774^{+0.088}_{-0.081}$	$f\sigma_8(0.61)$	$0.462^{+0.017}_{-0.021}$
$A_{143 \times 217}^{dustTT}$	$18.1^{+8.6}_{-7.8}$	z_*	$1089.66^{+0.96}_{-0.88}$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.015}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$145.2^{+1.1}_{-1.1}$	$f\sigma_8(2.33)$	$0.2974^{+0.0066}_{-0.0067}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0012}$	$\sigma_8(2.33)$	$0.3072^{+0.0069}_{-0.0059}$
c_{217}	$0.9983^{+0.0017}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.10}_{-0.10}$	f_{2000}^{143}	30^{+8}_{-8}
H_0	$68.5^{+2.1}_{-2.1}$	z_{drag}	$1059.7^{+1.2}_{-1.1}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
Ω_Λ	$0.701^{+0.026}_{-0.029}$	r_{drag}	$147.9^{+1.2}_{-1.1}$	f_{2000}^{217}	$107.4^{+5.0}_{-5.1}$
Ω_m	$0.299^{+0.029}_{-0.026}$	k_D	$0.1401^{+0.0013}_{-0.0015}$	χ_{simall}^2	$397.3 (\nu: 2.2)$
$\Omega_m h^2$	$0.1401^{+0.0046}_{-0.0042}$	$100\theta_D$	$0.16090^{+0.00066}_{-0.00072}$	χ_{lowl}^2	$22.37 (\nu: 0.5)$
$\Omega_m h^3$	$0.0960^{+0.0011}_{-0.0014}$	z_{eq}	3334^{+110}_{-100}	χ_{plik}^2	$775.6 (\nu: 22.3)$
σ_8	$0.803^{+0.022}_{-0.028}$	k_{eq}	$0.01017^{+0.00033}_{-0.00031}$	$\chi_{H073p45}^2$	$9.1 (\nu: 4.5)$
S_8	$0.801^{+0.055}_{-0.056}$	$100\theta_{eq}$	$0.826^{+0.020}_{-0.021}$	χ_{prior}^2	$7.4 (\nu: 7.0)$
$\sigma_8 \Omega_m^{0.5}$	$0.439^{+0.030}_{-0.030}$	$100\theta_{s,eq}$	$0.456^{+0.010}_{-0.011}$	χ_{CMB}^2	$1195.3 (\nu: 20.0)$

$$\bar{\chi}_{eff}^2 = 1211.81; R - 1 = 0.08503$$

2.7 base_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022377	$0.02236^{+0.00038}_{-0.00038}$	$\Omega_m h^3$	0.09636	$0.09633^{+0.00075}_{-0.00072}$	$100\theta_{\text{eq}}$	0.8128	$0.812^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.12010	$0.1202^{+0.0036}_{-0.0035}$	σ_8	0.8120	$0.812^{+0.020}_{-0.019}$	$100\theta_{\text{s,eq}}$	0.4491	$0.4490^{+0.0077}_{-0.0075}$
$100\theta_{\text{MC}}$	1.04092	$1.04090^{+0.00078}_{-0.00080}$	S_8	0.8331	$0.834^{+0.042}_{-0.041}$	$H(0.15)$	72.65	$72.6^{+1.3}_{-1.3}$
τ	0.0543	$0.054^{+0.023}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4563	$0.457^{+0.023}_{-0.023}$	$D_{\text{M}}(0.15)$	643.7	644^{+14}_{-13}
$\ln(10^{10} A_s)$	3.0447	$3.045^{+0.045}_{-0.041}$	$\sigma_8 \Omega_m^{0.25}$	0.6087	$0.609^{+0.021}_{-0.021}$	$H(0.38)$	82.85	$82.82^{+0.98}_{-0.95}$
n_s	0.9659	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9896	$0.990^{+0.030}_{-0.030}$	$D_{\text{M}}(0.38)$	1534.0	1535^{+27}_{-27}
y_{cal}	1.0006	$1.0005^{+0.0063}_{-0.0064}$	$r_{\text{drag}} h$	99.00	$98.9^{+2.8}_{-2.7}$	$H(0.51)$	89.61	$89.59^{+0.78}_{-0.76}$
A_{217}^{CIB}	47.2	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.445	$2.448^{+0.072}_{-0.072}$	$D_{\text{M}}(0.51)$	1986.5	1988^{+31}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.42	—	z_{re}	7.68	$7.7^{+2.2}_{-2.1}$	$H(0.61)$	95.27	$95.25^{+0.63}_{-0.60}$
A_{143}^{tSZ}	7.23	$5.5^{+4.3}_{-4.9}$	$10^9 A_s$	2.100	$2.101^{+0.097}_{-0.085}$	$D_{\text{M}}(0.61)$	2311.1	2312^{+34}_{-34}
A_{100}^{PS}	251	258^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8843	$1.884^{+0.031}_{-0.030}$	$H(2.33)$	236.64	$236.7^{+2.1}_{-2.1}$
A_{143}^{PS}	47.4	46^{+20}_{-20}	D_{40}	1229.3	1232^{+34}_{-32}	$D_{\text{M}}(2.33)$	5763.6	5765^{+28}_{-28}
$A_{143 \times 217}^{\text{PS}}$	47.3	42^{+20}_{-20}	D_{220}	5730	5731^{+98}_{-99}	$f\sigma_8(0.15)$	0.4605	$0.461^{+0.021}_{-0.021}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	D_{810}	2541.1	2539^{+34}_{-35}	$\sigma_8(0.15)$	0.7499	$0.750^{+0.018}_{-0.016}$
A^{kSZ}	0.0	—	D_{1420}	818.3	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4779	$0.478^{+0.017}_{-0.017}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.6}$	D_{2000}	231.26	$230.9^{+4.1}_{-4.0}$	$\sigma_8(0.38)$	0.6642	$0.664^{+0.015}_{-0.014}$
A_{143}^{dustTT}	11.10	$10.9^{+4.7}_{-4.5}$	$n_{\text{s},0.002}$	0.9659	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4760	$0.476^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.5}_{-8.7}$	Y_{P}	0.245398	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.51)$	0.6214	$0.621^{+0.014}_{-0.013}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246725	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	0.4707	$0.471^{+0.014}_{-0.014}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.584	$2.588^{+0.073}_{-0.068}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.014}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.077}_{-0.077}$	Age/Gyr	13.797	$13.800^{+0.062}_{-0.062}$	$f\sigma_8(2.33)$	0.2979	$0.2978^{+0.0070}_{-0.0062}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.21}_{-0.22}$	z_*	1089.92	$1089.95^{+0.72}_{-0.69}$	$\sigma_8(2.33)$	0.3069	$0.3068^{+0.0075}_{-0.0066}$
A_{143}^{dustTE}	0.224	$0.23^{+0.13}_{-0.13}$	r_*	144.40	$144.39^{+0.77}_{-0.77}$	f_{2000}^{143}	28.9	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	1.04110	$1.04109^{+0.00076}_{-0.00079}$	$f_{2000}^{143 \times 217}$	32.04	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.09^{+0.69}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.870	$13.869^{+0.072}_{-0.070}$	f_{2000}^{217}	106.69	$107.0^{+4.6}_{-4.5}$
c_{100}	0.99969	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.97	$1059.93^{+0.77}_{-0.79}$	χ_{small}^2	396.05	$397.1 (\nu: 2.0)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.06	$147.05^{+0.76}_{-0.74}$	χ_{lowl}^2	23.26	$23.55 (\nu: 0.5)$
H_0	67.32	$67.3^{+1.6}_{-1.6}$	k_{D}	0.14091	$0.14090^{+0.00080}_{-0.00079}$	χ_{plik}^2	2344.6	$2359.5 (\nu: 16.6)$
Ω_{Λ}	0.6842	$0.683^{+0.021}_{-0.023}$	$100\theta_{\text{D}}$	0.160744	$0.16077^{+0.00046}_{-0.00044}$	χ_{prior}^2	1.8	$11.6 (\nu: 10.3)$
Ω_{m}	0.3158	$0.317^{+0.023}_{-0.021}$	z_{eq}	3405	3407^{+80}_{-78}	χ_{CMB}^2	2764.0	$2780.2 (\nu: 16.6)$
$\Omega_{\text{m}} h^2$	0.14313	$0.1432^{+0.0033}_{-0.0033}$	k_{eq}	0.010392	$0.01040^{+0.00024}_{-0.00024}$			

Best-fit $\chi_{\text{eff}}^2 = 2765.77$; $\bar{\chi}_{\text{eff}}^2 = 2791.77$; $R - 1 = 0.01231$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2_29: 23.26 plik_rd12_HM_v22b_TTTEEE: 2344.65

2.8 base_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022432	$0.02242^{+0.00033}_{-0.00035}$	σ_8	0.8098	$0.810^{+0.019}_{-0.018}$	$H(0.15)$	72.97	$72.9^{+1.0}_{-0.97}$
$\Omega_c h^2$	0.11926	$0.1193^{+0.0026}_{-0.0026}$	S_8	0.8240	$0.825^{+0.032}_{-0.033}$	$D_M(0.15)$	640.5	$640.8^{+9.8}_{-9.9}$
$100\theta_{MC}$	1.04100	$1.04101^{+0.00074}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4513	$0.452^{+0.018}_{-0.018}$	$H(0.38)$	83.07	$83.05^{+0.74}_{-0.71}$
τ	0.0553	$0.056^{+0.022}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6046	$0.605^{+0.019}_{-0.019}$	$D_M(0.38)$	1527.8	1528^{+20}_{-20}
$\ln(10^{10} A_s)$	3.0452	$3.046^{+0.045}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9843	$0.985^{+0.027}_{-0.027}$	$H(0.51)$	89.78	$89.77^{+0.61}_{-0.57}$
n_s	0.9680	$0.9670^{+0.0095}_{-0.010}$	$r_{drag} h$	99.66	$99.6^{+2.1}_{-2.0}$	$D_M(0.51)$	1979.2	1980^{+23}_{-23}
y_{cal}	1.0007	$1.0006^{+0.0061}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.436^{+0.064}_{-0.067}$	$H(0.61)$	95.401	$95.39^{+0.50}_{-0.47}$
A_{217}^{CIB}	46.7	47^{+20}_{-20}	z_{re}	7.76	$7.8^{+2.1}_{-2.1}$	$D_M(0.61)$	2303.2	2304^{+25}_{-25}
$\xi^{tSZ \times CIB}$	0.54	—	$10^9 A_s$	2.101	$2.103^{+0.096}_{-0.084}$	$H(2.33)$	236.14	$236.2^{+1.6}_{-1.5}$
A_{143}^{tSZ}	7.12	> 1.03	$10^9 A_s e^{-2\tau}$	1.8813	$1.880^{+0.028}_{-0.027}$	$D_M(2.33)$	5758.2	5759^{+23}_{-23}
A_{100}^{PS}	249	258^{+70}_{-70}	D_{40}	1225.2	1227^{+29}_{-29}	$f\sigma_8(0.15)$	0.4560	$0.456^{+0.017}_{-0.017}$
A_{143}^{PS}	48.6	45^{+20}_{-20}	D_{220}	5735	5735^{+94}_{-94}	$\sigma_8(0.15)$	0.7484	$0.748^{+0.018}_{-0.016}$
$A_{143 \times 217}^{PS}$	49.8	42^{+20}_{-20}	D_{810}	2541.5	2539^{+33}_{-34}	$f\sigma_8(0.38)$	0.4745	$0.475^{+0.015}_{-0.015}$
A_{217}^{PS}	120.4	115^{+20}_{-30}	D_{1420}	819.1	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6635	$0.664^{+0.016}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	231.58	$231.1^{+4.1}_{-3.9}$	$f\sigma_8(0.51)$	0.4732	$0.473^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.89	$8.9^{+5.0}_{-4.6}$	$n_{s,0.002}$	0.9680	$0.9670^{+0.0095}_{-0.010}$	$\sigma_8(0.51)$	0.6210	$0.621^{+0.015}_{-0.013}$
A_{143}^{dustTT}	11.01	$10.9^{+4.7}_{-4.4}$	Y_P	0.245420	$0.24541^{+0.00012}_{-0.00014}$	$f\sigma_8(0.61)$	0.4683	$0.468^{+0.013}_{-0.012}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.8}_{-9.0}$	Y_P^{BBN}	0.246746	$0.24674^{+0.00012}_{-0.00014}$	$\sigma_8(0.61)$	0.5909	$0.591^{+0.014}_{-0.012}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$10^5 D/H$	2.574	$2.577^{+0.066}_{-0.060}$	$f\sigma_8(2.33)$	0.2980	$0.2979^{+0.0072}_{-0.0061}$
A_{100}^{dustTE}	0.114	$0.113^{+0.093}_{-0.091}$	Age/Gyr	13.786	$13.787^{+0.052}_{-0.050}$	$\sigma_8(2.33)$	0.3072	$0.3072^{+0.0077}_{-0.0063}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.074}_{-0.080}$	z_*	1089.78	$1089.80^{+0.57}_{-0.54}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.21}_{-0.21}$	r_*	144.58	$144.57^{+0.59}_{-0.61}$	$f_{2000}^{143 \times 217}$	31.78	32^{+5}_{-5}
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04118	$1.04119^{+0.00072}_{-0.00079}$	f_{2000}^{217}	106.39	$106.8^{+4.4}_{-4.4}$
$A_{143 \times 217}^{dustTE}$	0.666	$0.67^{+0.21}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.885^{+0.055}_{-0.059}$	χ_{small}^2	396.2	$397.3 (\nu: 2.4)$
A_{217}^{dustTE}	2.08	$2.09^{+0.68}_{-0.66}$	z_{drag}	1060.01	$1060.00^{+0.70}_{-0.75}$	χ_{lowl}^2	22.87	$23.13 (\nu: 0.3)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0017}$	r_{drag}	147.22	$147.22^{+0.61}_{-0.63}$	χ_{plik}^2	2345.5	$2359.6 (\nu: 17.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14078	$0.14077^{+0.00074}_{-0.00072}$	χ_{6DF}^2	0.029	$0.057 (\nu: 0.0)$
H_0	67.69	$67.7^{+1.2}_{-1.1}$	$100\theta_D$	0.160709	$0.16073^{+0.00045}_{-0.00042}$	χ_{MGS}^2	1.22	$1.25 (\nu: 0.1)$
Ω_Λ	0.6894	$0.689^{+0.016}_{-0.016}$	z_{eq}	3386	3387^{+59}_{-58}	$\chi_{DR12BAO}^2$	4.41	$4.9 (\nu: 1.0)$
Ω_m	0.3106	$0.311^{+0.016}_{-0.016}$	k_{eq}	0.010334	$0.01034^{+0.00018}_{-0.00018}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.4)$
$\Omega_m h^2$	0.14233	$0.1424^{+0.0025}_{-0.0024}$	$100\theta_{eq}$	0.8165	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	5.66	$6.2 (\nu: 0.7)$
$\Omega_m h^3$	0.09635	$0.09634^{+0.00075}_{-0.00067}$	$100\theta_{s,eq}$	0.4510	$0.4509^{+0.0057}_{-0.0056}$	χ_{CMB}^2	2764.6	$2780.1 (\nu: 16.4)$

Best-fit $\chi_{\text{eff}}^2 = 2771.92$; $\bar{\chi}_{\text{eff}}^2 = 2797.91$; $R - 1 = 0.01929$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.41 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3_2_29: 22.87 plik_rd12_HM_v22b_TTTEEE: 2345.51

2.9 base_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022507	$0.02249^{+0.00033}_{-0.00037}$	$\Omega_m h^3$	0.09642	$0.09638^{+0.00072}_{-0.00070}$	$100\theta_{\text{eq}}$	0.8195	$0.819^{+0.013}_{-0.014}$
$\Omega_c h^2$	0.11853	$0.1186^{+0.0033}_{-0.0030}$	σ_8	0.8085	$0.808^{+0.020}_{-0.022}$	$100\theta_{\text{s,eq}}$	0.4525	$0.4524^{+0.0067}_{-0.0072}$
$100\theta_{\text{MC}}$	1.04111	$1.04109^{+0.00087}_{-0.00082}$	S_8	0.8165	$0.817^{+0.039}_{-0.034}$	$H(0.15)$	73.28	$73.2^{+1.2}_{-1.2}$
τ	0.0570	$0.057^{+0.025}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4472	$0.448^{+0.021}_{-0.018}$	$D_{\text{M}}(0.15)$	637.5	638^{+12}_{-11}
$\ln(10^{10} A_s)$	3.0469	$3.047^{+0.049}_{-0.048}$	$\sigma_8 \Omega_m^{0.25}$	0.6013	$0.602^{+0.021}_{-0.019}$	$H(0.38)$	83.30	$83.26^{+0.85}_{-0.88}$
n_s	0.9701	$0.969^{+0.012}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9801	$0.980^{+0.029}_{-0.028}$	$D_{\text{M}}(0.38)$	1521.7	1523^{+24}_{-23}
y_{cal}	1.0006	$1.0006^{+0.0062}_{-0.0072}$	$r_{\text{drag}} h$	100.25	$100.2^{+2.4}_{-2.5}$	$H(0.51)$	89.97	$89.94^{+0.64}_{-0.71}$
A_{217}^{CIB}	45.8	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.423	$2.427^{+0.070}_{-0.071}$	$D_{\text{M}}(0.51)$	1972.0	1973^{+28}_{-27}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.68	—	z_{re}	7.90	$7.9^{+2.3}_{-2.1}$	$H(0.61)$	95.55	$95.52^{+0.51}_{-0.57}$
A_{143}^{tSZ}	7.08	$5.6^{+4.2}_{-5.0}$	$10^9 A_s$	2.105	$2.11^{+0.10}_{-0.098}$	$D_{\text{M}}(0.61)$	2295.5	2297^{+30}_{-29}
A_{100}^{PS}	247	257^{+70}_{-80}	$10^9 A_s e^{-2\tau}$	1.8782	$1.877^{+0.028}_{-0.031}$	$H(2.33)$	235.75	$235.8^{+2.0}_{-1.8}$
A_{143}^{PS}	49.4	45^{+20}_{-20}	D_{40}	1221.2	1224^{+32}_{-38}	$D_{\text{M}}(2.33)$	5751.8	5753^{+26}_{-24}
$A_{143 \times 217}^{\text{PS}}$	52.7	42^{+20}_{-20}	D_{220}	5739	5740^{+91}_{-95}	$f\sigma_8(0.15)$	0.4522	$0.453^{+0.020}_{-0.017}$
A_{217}^{PS}	121.3	115^{+20}_{-30}	D_{810}	2541.3	2539^{+34}_{-40}	$\sigma_8(0.15)$	0.7476	$0.747^{+0.018}_{-0.020}$
A^{kSZ}	0.0	—	D_{1420}	819.9	818^{+12}_{-13}	$f\sigma_8(0.38)$	0.4718	$0.472^{+0.017}_{-0.015}$
A_{100}^{dustTT}	8.83	$8.8^{+4.6}_{-4.7}$	D_{2000}	231.96	$231.4^{+3.9}_{-4.1}$	$\sigma_8(0.38)$	0.6633	$0.663^{+0.016}_{-0.017}$
A_{143}^{dustTT}	11.00	$10.9^{+4.9}_{-4.3}$	$n_{\text{s},0.002}$	0.9701	$0.969^{+0.012}_{-0.011}$	$f\sigma_8(0.51)$	0.4710	$0.471^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.5^{+8.8}_{-9.2}$	Y_{P}	0.245447	$0.24544^{+0.00013}_{-0.00015}$	$\sigma_8(0.51)$	0.6210	$0.621^{+0.015}_{-0.016}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246774	$0.24676^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	0.4665	$0.467^{+0.013}_{-0.013}$
A_{100}^{dustTE}	0.113	$0.113^{+0.092}_{-0.096}$	$10^5 \text{D}/\text{H}$	2.561	$2.565^{+0.069}_{-0.060}$	$\sigma_8(0.61)$	0.5911	$0.591^{+0.015}_{-0.015}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.073}_{-0.081}$	Age/Gyr	13.772	$13.775^{+0.058}_{-0.052}$	$f\sigma_8(2.33)$	0.2982	$0.2981^{+0.0075}_{-0.0074}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.21}$	z_*	1089.62	$1089.66^{+0.65}_{-0.60}$	$\sigma_8(2.33)$	0.3077	$0.3076^{+0.0078}_{-0.0076}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.15}$	r_*	144.71	$144.70^{+0.66}_{-0.74}$	f_{2000}^{143}	27.9	29^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	0.663	$0.66^{+0.20}_{-0.20}$	$100\theta_*$	1.04129	$1.04127^{+0.00086}_{-0.00081}$	$f_{2000}^{143 \times 217}$	31.41	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.07^{+0.66}_{-0.65}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.897	$13.897^{+0.065}_{-0.070}$	f_{2000}^{217}	105.97	$106.6^{+4.4}_{-4.7}$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0017}$	z_{drag}	1060.16	$1060.10^{+0.67}_{-0.74}$	χ_{small}^2	396.5	$397.6 (\nu: 3.2)$
c_{217}	0.99817	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	147.33	$147.33^{+0.68}_{-0.74}$	χ_{lowl}^2	22.54	$22.86 (\nu: 0.4)$
H_0	68.05	$68.0^{+1.4}_{-1.4}$	k_{D}	0.14072	$0.14070^{+0.00081}_{-0.00069}$	χ_{plik}^2	2346.8	$2361.0 (\nu: 21.4)$
Ω_{Λ}	0.6940	$0.693^{+0.017}_{-0.020}$	$100\theta_{\text{D}}$	0.160647	$0.16067^{+0.00044}_{-0.00038}$	χ_{H073p45}^2	10.6	$10.9 (\nu: 2.5)$
Ω_{m}	0.3060	$0.307^{+0.020}_{-0.017}$	z_{eq}	3370	3372^{+75}_{-69}	χ_{prior}^2	1.6	$11.7 (\nu: 11.5)$
$\Omega_{\text{m}} h^2$	0.14169	$0.1418^{+0.0031}_{-0.0029}$	k_{eq}	0.010287	$0.01029^{+0.00023}_{-0.00021}$	χ_{CMB}^2	2765.8	$2781.5 (\nu: 20.4)$

Best-fit $\chi_{\text{eff}}^2 = 2777.94$; $\bar{\chi}_{\text{eff}}^2 = 2804.16$; $R - 1 = 0.03140$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.47 commander_dx12_v3.2_29: 22.54 plik_rd12_HM_v22b_TTTEEE: 2346.76 Hubble - H073p45: 10.59

2.10 base_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02236^{+0.00038}_{-0.00038}$	$\Omega_m h^3$	$0.09633^{+0.00076}_{-0.00071}$	$100\theta_{\text{eq}}$	$0.813^{+0.015}_{-0.015}$
$\Omega_c h^2$	$0.1202^{+0.0036}_{-0.0035}$	σ_8	$0.813^{+0.019}_{-0.017}$	$100\theta_{\text{s,eq}}$	$0.4490^{+0.0077}_{-0.0075}$
$100\theta_{\text{MC}}$	$1.04091^{+0.00078}_{-0.00080}$	S_8	$0.834^{+0.042}_{-0.041}$	$H(0.15)$	$72.6^{+1.3}_{-1.3}$
τ	$0.055^{+0.020}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.457^{+0.023}_{-0.023}$	$D_{\text{M}}(0.15)$	644^{+14}_{-13}
$\ln(10^{10} A_s)$	$3.047^{+0.044}_{-0.029}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.021}_{-0.021}$	$H(0.38)$	$82.83^{+0.98}_{-0.95}$
n_s	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.991^{+0.030}_{-0.029}$	$D_{\text{M}}(0.38)$	1535^{+27}_{-27}
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	$r_{\text{drag}} h$	$99.0^{+2.8}_{-2.7}$	$H(0.51)$	$89.60^{+0.77}_{-0.76}$
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.071}_{-0.069}$	$D_{\text{M}}(0.51)$	1987^{+31}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.66	$H(0.61)$	$95.26^{+0.63}_{-0.60}$
A_{143}^{tSZ}	$5.5^{+4.3}_{-4.8}$	$10^9 A_s$	$2.105^{+0.094}_{-0.061}$	$D_{\text{M}}(0.61)$	2312^{+33}_{-34}
A_{100}^{PS}	258^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.884^{+0.030}_{-0.030}$	$H(2.33)$	$236.7^{+2.1}_{-2.1}$
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1232^{+34}_{-32}	$D_{\text{M}}(2.33)$	5764^{+28}_{-28}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5731^{+98}_{-99}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2539^{+34}_{-35}	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.014}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.38)$	$0.479^{+0.017}_{-0.017}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	D_{2000}	$230.9^{+4.1}_{-4.0}$	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.011}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	$n_{\text{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.477^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.7}$	Y_{P}	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.013}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.096}$	10^5D/H	$2.587^{+0.072}_{-0.068}$	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.0095}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.077}$	Age/Gyr	$13.799^{+0.062}_{-0.061}$	$f\sigma_8(2.33)$	$0.2981^{+0.0068}_{-0.0046}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	z_*	$1089.94^{+0.71}_{-0.69}$	$\sigma_8(2.33)$	$0.3071^{+0.0073}_{-0.0048}$
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.14}$	r_*	$144.40^{+0.76}_{-0.76}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	$1.04109^{+0.00076}_{-0.00078}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.09^{+0.70}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.870^{+0.072}_{-0.070}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.5}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.93^{+0.77}_{-0.76}$	χ_{simall}^2	$397.1 (\nu: 2.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.06^{+0.76}_{-0.75}$	χ_{lowl}^2	$23.56 (\nu: 0.5)$
H_0	$67.3^{+1.6}_{-1.5}$	k_{D}	$0.14090^{+0.00080}_{-0.00079}$	χ_{plik}^2	$2359.3 (\nu: 16.1)$
Ω_{Λ}	$0.684^{+0.021}_{-0.023}$	$100\theta_{\text{D}}$	$0.16076^{+0.00046}_{-0.00044}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{m}	$0.316^{+0.023}_{-0.021}$	z_{eq}	3406^{+79}_{-78}	χ_{CMB}^2	$2779.9 (\nu: 16.1)$
$\Omega_{\text{m}} h^2$	$0.1432^{+0.0033}_{-0.0033}$	k_{eq}	$0.01040^{+0.00024}_{-0.00024}$		

$$\bar{\chi}_{\text{eff}}^2 = 2791.53; R - 1 = 0.01241$$

2.11 base_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00033}_{-0.00035}$	σ_8	$0.810^{+0.019}_{-0.016}$	$H(0.15)$	$73.0^{+1.0}_{-0.97}$
$\Omega_c h^2$	$0.1193^{+0.0026}_{-0.0026}$	S_8	$0.825^{+0.032}_{-0.033}$	$D_M(0.15)$	$640.7^{+9.8}_{-9.8}$
$100\theta_{MC}$	$1.04101^{+0.00074}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.018}_{-0.018}$	$H(0.38)$	$83.06^{+0.73}_{-0.71}$
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.018}_{-0.018}$	$D_M(0.38)$	1528^{+19}_{-20}
$\ln(10^{10} A_s)$	$3.047^{+0.042}_{-0.032}$	$\sigma_8/h^{0.5}$	$0.985^{+0.027}_{-0.025}$	$H(0.51)$	$89.78^{+0.60}_{-0.57}$
n_s	$0.9670^{+0.0096}_{-0.010}$	$r_{\text{drag}} h$	$99.6^{+2.1}_{-2.0}$	$D_M(0.51)$	1980^{+23}_{-23}
y_{cal}	$1.0006^{+0.0061}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.063}_{-0.058}$	$H(0.61)$	$95.39^{+0.50}_{-0.47}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.68	$D_M(0.61)$	2304^{+25}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s$	$2.106^{+0.089}_{-0.068}$	$H(2.33)$	$236.2^{+1.6}_{-1.5}$
A_{143}^{tSZ}	> 1.07	$10^9 A_s e^{-2\tau}$	$1.880^{+0.028}_{-0.027}$	$D_M(2.33)$	5759^{+22}_{-22}
A_{100}^{PS}	258^{+70}_{-70}	D_{40}	1227^{+29}_{-29}	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5735^{+92}_{-94}	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+33}_{-35}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.011}$
A^{kSZ}	—	D_{2000}	$231.1^{+4.1}_{-3.9}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.013}$
A_{100}^{dustTT}	$8.9^{+5.0}_{-4.6}$	$n_{s,0.002}$	$0.9670^{+0.0096}_{-0.010}$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.4}$	Y_P	$0.24541^{+0.00012}_{-0.00014}$	$f\sigma_8(0.61)$	$0.469^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.8}_{-8.9}$	Y_P^{BBN}	$0.24674^{+0.00012}_{-0.00014}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.0094}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.577^{+0.066}_{-0.060}$	$f\sigma_8(2.33)$	$0.2982^{+0.0070}_{-0.0047}$
A_{100}^{dustTE}	$0.114^{+0.094}_{-0.091}$	Age/Gyr	$13.787^{+0.051}_{-0.050}$	$\sigma_8(2.33)$	$0.3074^{+0.0075}_{-0.0049}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.074}_{-0.080}$	z_*	$1089.80^{+0.57}_{-0.56}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	r_*	$144.57^{+0.58}_{-0.61}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04119^{+0.00072}_{-0.00077}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.4}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	$13.886^{+0.056}_{-0.059}$	χ_{simall}^2	$397.3 (\nu: 2.5)$
A_{217}^{dustTE}	$2.09^{+0.67}_{-0.66}$	z_{drag}	$1060.00^{+0.73}_{-0.76}$	χ_{lowl}^2	$23.14 (\nu: 0.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0017}$	r_{drag}	$147.22^{+0.61}_{-0.63}$	χ_{plik}^2	$2359.5 (\nu: 16.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.14077^{+0.00074}_{-0.00070}$	$\chi_{6\text{DF}}^2$	$0.056 (\nu: 0.0)$
H_0	$67.7^{+1.2}_{-1.1}$	$100\theta_D$	$0.16072^{+0.00044}_{-0.00041}$	χ_{MGS}^2	$1.26 (\nu: 0.1)$
Ω_Λ	$0.689^{+0.015}_{-0.016}$	z_{eq}	3387^{+59}_{-58}	χ_{DR12BAO}^2	$4.9 (\nu: 1.0)$
Ω_m	$0.311^{+0.016}_{-0.015}$	k_{eq}	$0.01034^{+0.00018}_{-0.00018}$	χ_{prior}^2	$11.6 (\nu: 10.4)$
$\Omega_m h^2$	$0.1424^{+0.0025}_{-0.0024}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	$6.2 (\nu: 0.7)$
$\Omega_m h^3$	$0.09634^{+0.00075}_{-0.00067}$	$100\theta_{s,\text{eq}}$	$0.4509^{+0.0057}_{-0.0056}$	χ_{CMB}^2	$2779.9 (\nu: 15.7)$

$$\bar{\chi}_{\text{eff}}^2 = 2797.72; R - 1 = 0.02064$$

2.12 base_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02249^{+0.00034}_{-0.00037}$	$\Omega_m h^3$	$0.09638^{+0.00072}_{-0.00069}$	$100\theta_{\text{eq}}$	$0.819^{+0.013}_{-0.014}$
$\Omega_c h^2$	$0.1186^{+0.0033}_{-0.0030}$	σ_8	$0.809^{+0.020}_{-0.016}$	$100\theta_{\text{s,eq}}$	$0.4524^{+0.0067}_{-0.0072}$
$100\theta_{\text{MC}}$	$1.04110^{+0.00086}_{-0.00081}$	S_8	$0.818^{+0.039}_{-0.034}$	$H(0.15)$	$73.2^{+1.2}_{-1.2}$
τ	$0.058^{+0.022}_{-0.016}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.021}_{-0.018}$	$D_{\text{M}}(0.15)$	638^{+12}_{-11}
$\ln(10^{10} A_{\text{s}})$	$3.048^{+0.047}_{-0.032}$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.020}_{-0.019}$	$H(0.38)$	$83.27^{+0.84}_{-0.87}$
n_{s}	$0.969^{+0.012}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.981^{+0.029}_{-0.025}$	$D_{\text{M}}(0.38)$	1523^{+24}_{-23}
y_{cal}	$1.0006^{+0.0062}_{-0.0065}$	$r_{\text{drag}} h$	$100.2^{+2.2}_{-2.5}$	$H(0.51)$	$89.94^{+0.63}_{-0.71}$
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.069}_{-0.059}$	$D_{\text{M}}(0.51)$	1973^{+28}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.95	$H(0.61)$	$95.52^{+0.51}_{-0.57}$
A_{143}^{tSZ}	$5.6^{+4.3}_{-5.0}$	$10^9 A_{\text{s}}$	$2.108^{+0.095}_{-0.072}$	$D_{\text{M}}(0.61)$	2297^{+30}_{-28}
A_{100}^{PS}	257^{+70}_{-80}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.027}$	$H(2.33)$	$235.8^{+2.0}_{-1.8}$
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1224^{+31}_{-31}	$D_{\text{M}}(2.33)$	5753^{+26}_{-23}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5741^{+90}_{-96}	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.017}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2539^{+34}_{-35}	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.014}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.38)$	$0.472^{+0.016}_{-0.016}$
A_{100}^{dustTT}	$8.8^{+4.7}_{-4.7}$	D_{2000}	$231.4^{+3.8}_{-4.0}$	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.012}$
A_{143}^{dustTT}	$10.9^{+4.9}_{-4.3}$	$n_{\text{s},0.002}$	$0.969^{+0.012}_{-0.011}$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.8}_{-9.1}$	Y_{P}	$0.24544^{+0.00013}_{-0.00015}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.012}$
A_{100}^{dustTE}	$0.113^{+0.091}_{-0.096}$	10^5D/H	$2.565^{+0.069}_{-0.060}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.0099}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.073}_{-0.080}$	Age/Gyr	$13.774^{+0.057}_{-0.052}$	$f\sigma_8(2.33)$	$0.2983^{+0.0069}_{-0.0053}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	z_*	$1089.65^{+0.66}_{-0.55}$	$\sigma_8(2.33)$	$0.3078^{+0.0076}_{-0.0052}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	r_*	$144.70^{+0.71}_{-0.74}$	f_{2000}^{143}	29^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	$100\theta_*$	$1.04127^{+0.00086}_{-0.00080}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.07^{+0.65}_{-0.65}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.897^{+0.065}_{-0.070}$	f_{2000}^{217}	$106.5^{+4.4}_{-4.8}$
c_{100}	$0.9997^{+0.0017}_{-0.0016}$	z_{drag}	$1060.11^{+0.67}_{-0.75}$	χ_{simall}^2	$397.6 (\nu: 3.3)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	$147.33^{+0.69}_{-0.74}$	χ_{lowl}^2	$22.87 (\nu: 0.4)$
H_0	$68.0^{+1.3}_{-1.4}$	k_{D}	$0.14070^{+0.00080}_{-0.00069}$	χ_{plik}^2	$2360.9 (\nu: 20.7)$
Ω_{Λ}	$0.693^{+0.017}_{-0.020}$	$100\theta_{\text{D}}$	$0.16067^{+0.00044}_{-0.00038}$	χ_{H073p45}^2	$10.9 (\nu: 2.5)$
Ω_{m}	$0.307^{+0.020}_{-0.017}$	z_{eq}	3372^{+74}_{-69}	χ_{prior}^2	$11.6 (\nu: 10.4)$
$\Omega_{\text{m}} h^2$	$0.1417^{+0.0031}_{-0.0029}$	k_{eq}	$0.01029^{+0.00023}_{-0.00021}$	χ_{CMB}^2	$2781.4 (\nu: 19.8)$

$$\bar{\chi}_{\text{eff}}^2 = 2803.89; R - 1 = 0.03660$$

2.13 base_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02214^{+0.00057}_{-0.00057}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4585	$0.458^{+0.035}_{-0.033}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4486	$0.449^{+0.012}_{-0.012}$ (+0.1 σ)
$\Omega_c h^2$	0.1205	$0.1205^{+0.0055}_{-0.0053}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6098	$0.610^{+0.031}_{-0.030}$ (−0.1 σ)	$H(0.15)$	72.32	$72.3^{+2.1}_{-2.0}$ (+0.1 σ)
$100\theta_{MC}$	1.04085	$1.0408^{+0.0013}_{-0.0012}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9911	$0.991^{+0.041}_{-0.041}$ (−0.1 σ)	$D_M(0.15)$	646.9	647^{+21}_{-20} (−0.1 σ)
τ	0.0519	$0.052^{+0.021}_{-0.022}$ (−0.0 σ)	$r_{drag}h$	98.58	$98.6^{+4.2}_{-4.1}$ (+0.1 σ)	$H(0.38)$	82.57	$82.6^{+1.5}_{-1.4}$ (+0.1 σ)
$\ln(10^{10}A_s)$	3.0384	$3.039^{+0.043}_{-0.046}$ (−0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.447	$2.448^{+0.099}_{-0.096}$ (−0.2 σ)	$D_M(0.38)$	1540.8	1541^{+41}_{-40} (−0.1 σ)
n_s	0.9639	$0.964^{+0.015}_{-0.015}$ (+0.2 σ)	z_{re}	7.50	$7.5^{+2.0}_{-2.4}$ (−0.0 σ)	$H(0.51)$	89.36	$89.4^{+1.2}_{-1.1}$ (+0.1 σ)
y_{cal}	1.0004	$1.0005^{+0.0067}_{-0.0068}$ (+0.0 σ)	$10^9 A_s$	2.087	$2.089^{+0.091}_{-0.095}$ (−0.1 σ)	$D_M(0.51)$	1994.7	1994^{+48}_{-47} (−0.1 σ)
A_{100}^{PS}	239	242^{+60}_{-60} (−0.7 σ)	$10^9 A_s e^{-2\tau}$	1.8813	$1.882^{+0.036}_{-0.036}$ (−0.2 σ)	$H(0.61)$	95.04	$95.05^{+0.95}_{-0.88}$ (+0.1 σ)
A_{143}^{PS}	41.3	41^{+20}_{-20} (−1.0 σ)	D_{40}	1228.7	1230^{+40}_{-39} (−0.3 σ)	$D_M(0.61)$	2320	2320^{+52}_{-51} (−0.1 σ)
A_{217}^{PS}	100.6	101^{+30}_{-40} (−1.4 σ)	D_{220}	5702	5704^{+110}_{-110} (−0.2 σ)	$H(2.33)$	236.64	$236.6^{+3.4}_{-3.2}$ (−0.1 σ)
A_{217}^{CIB}	45.0	41^{+20}_{-20} (−1.0 σ)	D_{810}	2534.0	2534^{+36}_{-37} (−0.1 σ)	$D_M(2.33)$	5775.9	5775^{+42}_{-43} (−0.1 σ)
A_{143}^{tSZ}	5.89	< 8.65 (−0.7 σ)	D_{1420}	814.3	814^{+13}_{-14} (−0.0 σ)	$f\sigma_8(0.15)$	0.4624	$0.462^{+0.032}_{-0.031}$ (−0.1 σ)
$r_{143 \times 217}^{PS}$	0.582	$0.65^{+0.31}_{-0.33}$	D_{2000}	229.56	$229.6^{+4.6}_{-4.8}$ (+0.0 σ)	$\sigma_8(0.15)$	0.7486	$0.749^{+0.019}_{-0.020}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.79	—	$n_{s,0.002}$	0.9639	$0.964^{+0.015}_{-0.015}$ (+0.2 σ)	$f\sigma_8(0.38)$	0.4789	$0.479^{+0.025}_{-0.025}$ (−0.1 σ)
$\xi^{tSZ \times CIB}$	0.12	—	Y_P	0.245298	$0.24529^{+0.00023}_{-0.00027}$ (+0.1 σ)	$\sigma_8(0.38)$	0.6627	$0.663^{+0.015}_{-0.017}$ (−0.1 σ)
A^{kSZ}	1.2	—	Y_P^{BBN}	0.246624	$0.24662^{+0.00023}_{-0.00027}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4766	$0.476^{+0.021}_{-0.021}$ (−0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	$10^5 D/H$	2.631	$2.63^{+0.11}_{-0.11}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6199	$0.620^{+0.014}_{-0.015}$ (−0.1 σ)
A_{143}^{dust}	0.991	$0.98^{+0.45}_{-0.47}$	Age/Gyr	13.826	$13.825^{+0.094}_{-0.097}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.4710	$0.471^{+0.018}_{-0.019}$ (−0.1 σ)
A_{217}^{dust}	0.966	$0.97^{+0.27}_{-0.27}$	z_*	1090.27	$1090.3^{+1.1}_{-1.0}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5896	$0.590^{+0.013}_{-0.014}$ (−0.1 σ)
$A_{143 \times 217}^{dust}$	0.995	$1.03^{+0.42}_{-0.42}$	r_*	144.49	$144.5^{+1.2}_{-1.3}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.2970	$0.2970^{+0.0065}_{-0.0070}$ (−0.0 σ)
c_{100}	0.99755	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_*$	1.04105	$1.0411^{+0.0012}_{-0.0012}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3058	$0.3058^{+0.0069}_{-0.0073}$ (−0.0 σ)
c_{217}	1.00139	$1.0012^{+0.0040}_{-0.0040}$ (+4.7 σ)	$D_M(z_*)/\text{Gpc}$	13.879	$13.88^{+0.11}_{-0.12}$ (+0.0 σ)	f_{2000}^{143}	31.1	31^{+8}_{-8} (−0.1 σ)
H_0	66.96	$67.0^{+2.4}_{-2.4}$ (+0.1 σ)	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$ (+0.1 σ)	f_{2000}^{217}	107.6	$107.6^{+5.1}_{-5.3}$ (−0.3 σ)
Ω_Λ	0.6805	$0.680^{+0.032}_{-0.036}$ (+0.1 σ)	r_{drag}	147.22	$147.2^{+1.2}_{-1.2}$ (+0.0 σ)	$f_{2000}^{143 \times 217}$	33.0	33^{+6}_{-5} (−0.3 σ)
Ω_m	0.3195	$0.320^{+0.036}_{-0.032}$ (−0.1 σ)	k_D	0.14054	$0.1405^{+0.0013}_{-0.0013}$ (−0.0 σ)	χ_{small}^2	395.83	$396.9 (\nu: 1.3)$ (−0.0 σ)
$\Omega_m h^2$	0.1433	$0.1432^{+0.0053}_{-0.0050}$ (−0.1 σ)	$100\theta_D$	0.16106	$0.16106^{+0.00072}_{-0.00067}$ (−0.0 σ)	χ_{lowl}^2	23.40	$23.5 (\nu: 0.8)$ (−0.3 σ)
$\Omega_m h^3$	0.09594	$0.0959^{+0.0012}_{-0.0012}$ (+0.1 σ)	z_{eq}	3408	3408^{+130}_{-120} (−0.1 σ)	$\chi_{CamSpec}^2$	7050.3	$7063.4 (\nu: 14.8)$
σ_8	0.8110	$0.811^{+0.023}_{-0.024}$ (−0.1 σ)	k_{eq}	0.010403	$0.01040^{+0.00038}_{-0.00036}$ (−0.1 σ)	χ_{prior}^2	2.2	$7.7 (\nu: 6.3)$ (+0.1 σ)
S_8	0.837	$0.837^{+0.064}_{-0.060}$ (−0.1 σ)	$100\theta_{eq}$	0.8115	$0.812^{+0.023}_{-0.023}$ (+0.1 σ)	χ_{CMB}^2	7469.6	$7483.8 (\nu: 15.1)$ (+1145.7 σ)

Best-fit $\chi_{eff}^2 = 7471.74$; $\Delta\chi_{eff}^2 = 6292.16$; $\bar{\chi}_{eff}^2 = 7491.54$; $\Delta\bar{\chi}_{eff}^2 = 6291.96$; $R - 1 = 0.00710$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.83 (Δ -0.04) commander_dx12.v3.2.29: 23.40 (Δ -0.21) CamSpec like_10.7HM: 7050.34

2.14 base_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02223^{+0.00050}_{-0.00050} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.030}_{-0.031} \quad (-0.1\sigma)$	$D_M(0.38)$	$1529^{+24}_{-23} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1189^{+0.0032}_{-0.0030} \quad (-0.0\sigma)$	$r_{\text{drag}} h$	$99.8^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.51)$	$89.69^{+0.78}_{-0.72} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0012}_{-0.0011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.071}_{-0.071} \quad (-0.2\sigma)$	$D_M(0.51)$	$1981^{+28}_{-28} \quad (-0.1\sigma)$
τ	$0.054^{+0.021}_{-0.021} \quad (-0.0\sigma)$	z_{re}	$7.6^{+2.0}_{-2.3} \quad (-0.0\sigma)$	$H(0.61)$	$95.29^{+0.68}_{-0.61} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.039^{+0.044}_{-0.047} \quad (-0.1\sigma)$	$10^9 A_s$	$2.088^{+0.094}_{-0.097} \quad (-0.1\sigma)$	$D_M(0.61)$	$2305^{+31}_{-30} \quad (-0.1\sigma)$
n_s	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.875^{+0.031}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+2.0}_{-2.0} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0067} \quad (+0.0\sigma)$	D_{40}	$1222^{+33}_{-32} \quad (-0.3\sigma)$	$D_M(2.33)$	$5765^{+31}_{-33} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5711^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.020} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.019} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.9^{+4.4}_{-4.7} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.6\sigma)$	$n_{s,0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.32}_{-0.34}$	Y_{P}	$0.24533^{+0.00019}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00019}_{-0.00024} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.613^{+0.096}_{-0.091} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.015} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.071}_{-0.076} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2970^{+0.0068}_{-0.0073} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	z_*	$1090.01^{+0.75}_{-0.75} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3062^{+0.0072}_{-0.0076} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.46}$	r_*	$144.82^{+0.83}_{-0.81} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.28}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-5.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	$13.909^{+0.080}_{-0.080} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.1}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	$147.54^{+0.91}_{-0.89} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.81 \quad (\nu: 0.4) \quad (-0.3\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	χ_{CamSpec}^2	$7063.9 \quad (\nu: 14.3)$
Ω_Λ	$0.690^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16102^{+0.00069}_{-0.00064} \quad (-0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3373^{+74}_{-73} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.39 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1418^{+0.0031}_{-0.0030} \quad (-0.0\sigma)$	k_{eq}	$0.01029^{+0.00022}_{-0.00022} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$4.7 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.013}_{-0.013} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.2) \quad (+0.1\sigma)$
σ_8	$0.807^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4521^{+0.0071}_{-0.0070} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.820^{+0.039}_{-0.038} \quad (-0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7483.8 \quad (\nu: 14.5) \quad (+1135.3\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$D_M(0.15)$	$641^{+12}_{-12} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.602^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$H(0.38)$	$83.00^{+0.91}_{-0.88} \quad (+0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7497.55$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6291.53$; $R - 1 = 0.01113$

2.15 base_CamSpecHM_TT_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02239^{+0.00058}_{-0.00056} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.592^{+0.027}_{-0.026} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	$634^{+18}_{-20} \quad (-0.0\sigma)$
$\Omega_{\text{c}}h^2$	$0.1171^{+0.0048}_{-0.0053} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.968^{+0.039}_{-0.034} \quad (-0.1\sigma)$	$H(0.38)$	$83.6^{+1.5}_{-1.3} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0413^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$r_{\text{drag}}h$	$101.3^{+4.4}_{-3.7} \quad (+0.0\sigma)$	$D_{\text{M}}(0.38)$	$1514^{+36}_{-40} \quad (-0.0\sigma)$
τ	$0.056^{+0.021}_{-0.022} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.396^{+0.089}_{-0.10} \quad (-0.1\sigma)$	$H(0.51)$	$90.1^{+1.2}_{-1.0} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.039^{+0.042}_{-0.045} \quad (-0.1\sigma)$	z_{re}	$7.8^{+1.9}_{-2.3} \quad (-0.1\sigma)$	$D_{\text{M}}(0.51)$	$1963^{+42}_{-47} \quad (-0.0\sigma)$
n_{s}	$0.972^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.089^{+0.090}_{-0.092} \quad (-0.1\sigma)$	$H(0.61)$	$95.64^{+0.94}_{-0.84} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0069}_{-0.0070} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.868^{+0.033}_{-0.033} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2286^{+45}_{-51} \quad (-0.0\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1214^{+39}_{-48} \quad (-0.2\sigma)$	$H(2.33)$	$234.7^{+2.9}_{-3.1} \quad (+0.0\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5724^{+150}_{-110} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$5750^{+39}_{-39} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+34}_{-38} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.028}_{-0.028} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-14} \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.019}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.45 \quad (-0.7\sigma)$	D_{2000}	$230.6^{+4.5}_{-4.9} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.022}_{-0.022} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\text{s},0.002}$	$0.972^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.016}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24540^{+0.00023}_{-0.00025} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.018} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24673^{+0.00023}_{-0.00025} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.58^{+0.11}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.018}_{-0.016} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.48}_{-0.48}$	Age/Gyr	$13.771^{+0.086}_{-0.087} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.47}_{-0.41}$	z_*	$1089.65^{+0.95}_{-0.93} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0068}_{-0.0068} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.26}$	r_*	$145.2^{+1.2}_{-1.1} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0070}_{-0.0073} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.40}_{-0.39}$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0024}_{-0.0027} \quad (-3.3\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.94^{+0.10}_{-0.10} \quad (-0.0\sigma)$	f_{2000}^{217}	$106.9^{+5.0}_{-5.0} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0038}_{-0.0038} \quad (+5.0\sigma)$	z_{drag}	$1059.8^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-5} \quad (-0.3\sigma)$
H_0	$68.5^{+2.4}_{-2.1} \quad (+0.0\sigma)$	r_{drag}	$147.8^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (-0.1\sigma)$
Ω_{Λ}	$0.701^{+0.030}_{-0.029} \quad (+0.0\sigma)$	k_{D}	$0.1401^{+0.0013}_{-0.0011} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.13 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_{m}	$0.299^{+0.029}_{-0.030} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.16089^{+0.00070}_{-0.00070} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$7067.0 \quad (\nu: 18.2)$
$\Omega_{\text{m}}h^2$	$0.1401^{+0.0045}_{-0.0050} \quad (+0.0\sigma)$	z_{eq}	$3334^{+110}_{-120} \quad (+0.0\sigma)$	χ_{H073p45}^2	$9.0 \quad (\nu: 4.4) \quad (-0.0\sigma)$
$\Omega_{\text{m}}h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	k_{eq}	$0.01017^{+0.00033}_{-0.00036} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.802^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.826^{+0.024}_{-0.020} \quad (+0.0\sigma)$	χ_{CMB}^2	$7486.3 \quad (\nu: 17.5) \quad (+967.8\sigma)$
S_8	$0.800^{+0.055}_{-0.055} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.456^{+0.012}_{-0.011} \quad (+0.0\sigma)$		
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.438^{+0.030}_{-0.030} \quad (-0.0\sigma)$	$H(0.15)$	$73.7^{+2.1}_{-1.8} \quad (+0.0\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7502.88$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6290.80$; $R - 1 = 0.07941$

2.16 base_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02214^{+0.00057}_{-0.00057} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.459^{+0.035}_{-0.033} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	$0.449^{+0.012}_{-0.012} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1204^{+0.0055}_{-0.0053} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.610^{+0.031}_{-0.029} \quad (-0.1\sigma)$	$H(0.15)$	$72.4^{+2.0}_{-2.0} \quad (+0.1\sigma)$
$100\theta_{MC}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.992^{+0.041}_{-0.040} \quad (-0.1\sigma)$	$D_M(0.15)$	$646^{+21}_{-20} \quad (-0.1\sigma)$
τ	$0.054^{+0.018}_{-0.013} \quad (-0.0\sigma)$	$r_{drag} h$	$98.7^{+4.2}_{-4.2} \quad (+0.1\sigma)$	$H(0.38)$	$82.6^{+1.5}_{-1.4} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.042^{+0.041}_{-0.030} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.098}_{-0.093} \quad (-0.2\sigma)$	$D_M(0.38)$	$1540^{+42}_{-40} \quad (-0.1\sigma)$
n_s	$0.964^{+0.015}_{-0.015} \quad (+0.2\sigma)$	z_{re}	$< 9.38 \quad (-0.0\sigma)$	$H(0.51)$	$89.4^{+1.2}_{-1.1} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0068} \quad (+0.0\sigma)$	$10^9 A_s$	$2.095^{+0.086}_{-0.062} \quad (-0.1\sigma)$	$D_M(0.51)$	$1994^{+48}_{-47} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.036}_{-0.035} \quad (-0.2\sigma)$	$H(0.61)$	$95.07^{+0.95}_{-0.87} \quad (+0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1229^{+40}_{-38} \quad (-0.3\sigma)$	$D_M(0.61)$	$2319^{+52}_{-51} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{220}	$5704^{+110}_{-110} \quad (-0.2\sigma)$	$H(2.33)$	$236.6^{+3.4}_{-3.1} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-36} \quad (-0.1\sigma)$	$D_M(2.33)$	$5775^{+41}_{-43} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.65 \quad (-0.7\sigma)$	D_{1420}	$814^{+13}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.032}_{-0.030} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	$0.65^{+0.32}_{-0.33}$	D_{2000}	$229.6^{+4.6}_{-4.8} \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	$n_{s,0.002}$	$0.964^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.025}_{-0.024} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P	$0.24530^{+0.00022}_{-0.00027} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.24662^{+0.00022}_{-0.00027} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.021} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$10^5 D/H$	$2.63^{+0.11}_{-0.10} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.47}$	Age/Gyr	$13.824^{+0.093}_{-0.096} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	z_*	$1090.2^{+1.1}_{-1.0} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.010} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.43}_{-0.42}$	r_*	$144.5^{+1.2}_{-1.3} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0062}_{-0.0048} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0065}_{-0.0050} \quad (-0.0\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$D_M(z_*)/Gpc$	$13.88^{+0.11}_{-0.12} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
H_0	$67.0^{+2.4}_{-2.4} \quad (+0.1\sigma)$	z_{drag}	$1059.4^{+1.2}_{-1.2} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.1}_{-5.3} \quad (-0.3\sigma)$
Ω_Λ	$0.681^{+0.032}_{-0.036} \quad (+0.1\sigma)$	r_{drag}	$147.2^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
Ω_m	$0.319^{+0.036}_{-0.032} \quad (-0.1\sigma)$	k_D	$0.1405^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.0\sigma)$
$\Omega_m h^2$	$0.1432^{+0.0053}_{-0.0050} \quad (-0.1\sigma)$	$100\theta_D$	$0.16106^{+0.00071}_{-0.00067} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 0.8) \quad (-0.3\sigma)$
$\Omega_m h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	z_{eq}	$3406^{+130}_{-120} \quad (-0.1\sigma)$	$\chi_{CamSpec}^2$	$7063.2 \quad (\nu: 14.7)$
σ_8	$0.812^{+0.022}_{-0.021} \quad (-0.1\sigma)$	k_{eq}	$0.01040^{+0.00039}_{-0.00036} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.3) \quad (+0.1\sigma)$
S_8	$0.837^{+0.064}_{-0.060} \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.812^{+0.023}_{-0.023} \quad (+0.1\sigma)$	χ_{CMB}^2	$7483.6 \quad (\nu: 14.6) \quad (+1158.2\sigma)$

$\bar{\chi}_{eff}^2 = 7491.26$; $\Delta \bar{\chi}_{eff}^2 = 6291.94$; $R - 1 = 0.00680$

2.17 base_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02223^{+0.00049}_{-0.00050} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.029}_{-0.027} \quad (-0.1\sigma)$	$D_M(0.38)$	$1529^{+24}_{-24} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1189^{+0.0032}_{-0.0030} \quad (-0.0\sigma)$	$r_{\text{drag}} h$	$99.8^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.51)$	$89.70^{+0.78}_{-0.71} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0012}_{-0.0011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.069}_{-0.064} \quad (-0.2\sigma)$	$D_M(0.51)$	$1981^{+28}_{-28} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.014} \quad (-0.0\sigma)$	z_{re}	$< 9.49 \quad (-0.0\sigma)$	$H(0.61)$	$95.30^{+0.68}_{-0.61} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.041^{+0.042}_{-0.031} \quad (-0.1\sigma)$	$10^9 A_s$	$2.093^{+0.089}_{-0.064} \quad (-0.1\sigma)$	$D_M(0.61)$	$2305^{+30}_{-30} \quad (-0.1\sigma)$
n_s	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.875^{+0.031}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+2.0}_{-2.0} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	$1222^{+33}_{-32} \quad (-0.3\sigma)$	$D_M(2.33)$	$5765^{+31}_{-33} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5711^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.0^{+4.4}_{-4.5} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.6\sigma)$	$n_{s,0.002}$	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.32}_{-0.34}$	Y_{P}	$0.24534^{+0.00019}_{-0.00024} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.010} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00019}_{-0.00024} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.013} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.613^{+0.097}_{-0.090} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0097} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.071}_{-0.076} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0065}_{-0.0048} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_*	$1090.00^{+0.75}_{-0.74} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0070}_{-0.0050} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.47}$	r_*	$144.83^{+0.83}_{-0.80} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.28}$	$100\theta_*$	$1.0413^{+0.0012}_{-0.0010} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.3^{+5.0}_{-5.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	$13.909^{+0.080}_{-0.080} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.3\sigma)$	z_{drag}	$1059.5^{+1.1}_{-1.2} \quad (+0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0038} \quad (+4.6\sigma)$	r_{drag}	$147.54^{+0.91}_{-0.89} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.83 \quad (\nu: 0.4) \quad (-0.3\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	χ_{CamSpec}^2	$7063.8 \quad (\nu: 14.1)$
Ω_Λ	$0.690^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16101^{+0.00068}_{-0.00064} \quad (-0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3372^{+73}_{-73} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.40 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1418^{+0.0031}_{-0.0030} \quad (-0.0\sigma)$	k_{eq}	$0.01029^{+0.00022}_{-0.00022} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.013}_{-0.013} \quad (+0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.2) \quad (+0.1\sigma)$
σ_8	$0.808^{+0.020}_{-0.016} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4522^{+0.0071}_{-0.0069} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.821^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7483.5 \quad (\nu: 14.1) \quad (+1150.3\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_M(0.15)$	$641^{+12}_{-12} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.00^{+0.91}_{-0.88} \quad (+0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7497.31$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6291.56$; $R - 1 = 0.01176$

2.18 base_CamSpecHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02240^{+0.00057}_{-0.00056} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.593^{+0.027}_{-0.026} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$633^{+18}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1171^{+0.0048}_{-0.0052} \quad (-0.0\sigma)$	$\sigma_8 / h^{0.5}$	$0.969^{+0.038}_{-0.035} \quad (-0.1\sigma)$	$H(0.38)$	$83.6^{+1.5}_{-1.3} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$101.4^{+4.4}_{-3.7} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1514^{+36}_{-39} \quad (-0.1\sigma)$
τ	$0.057^{+0.020}_{-0.016} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.398^{+0.088}_{-0.10} \quad (-0.1\sigma)$	$H(0.51)$	$90.1^{+1.2}_{-1.0} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.034} \quad (-0.1\sigma)$	z_{re}	$< 9.57 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1963^{+42}_{-46} \quad (-0.1\sigma)$
n_{s}	$0.972^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.086}_{-0.070} \quad (-0.1\sigma)$	$H(0.61)$	$95.65^{+0.93}_{-0.84} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0076} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.868^{+0.034}_{-0.033} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2286^{+45}_{-50} \quad (-0.1\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1214^{+39}_{-48} \quad (-0.2\sigma)$	$H(2.33)$	$234.7^{+2.9}_{-3.1} \quad (-0.0\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5725^{+150}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5750^{+39}_{-38} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+33}_{-37} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.444^{+0.028}_{-0.028} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.019}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.45 \quad (-0.7\sigma)$	D_{2000}	$230.7^{+4.5}_{-4.6} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.022}_{-0.022} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.016}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24540^{+0.00023}_{-0.00025} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.019} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00023}_{-0.00025} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.014}_{-0.012} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.11}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.018}_{-0.017} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.49}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.086}_{-0.086} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.013}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.50}_{-0.41}$	z_*	$1089.63^{+0.95}_{-0.92} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0066}_{-0.0049} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.26}$	r_*	$145.2^{+1.2}_{-1.1} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0067}_{-0.0049} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.39}$	$100\theta_*$	$1.0415^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0024}_{-0.0028} \quad (-3.3\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.10}_{-0.10} \quad (-0.0\sigma)$	f_{2000}^{217}	$106.9^{+5.0}_{-5.0} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0038}_{-0.0039} \quad (+5.0\sigma)$	z_{drag}	$1059.8^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-5} \quad (-0.3\sigma)$
H_0	$68.6^{+2.4}_{-2.1} \quad (+0.1\sigma)$	r_{drag}	$147.8^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (-0.1\sigma)$
Ω_{Λ}	$0.702^{+0.030}_{-0.029} \quad (+0.1\sigma)$	k_{D}	$0.1401^{+0.0013}_{-0.0011} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.13 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_{m}	$0.298^{+0.029}_{-0.030} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16089^{+0.00070}_{-0.00069} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7066.9 \quad (\nu: 17.7)$
$\Omega_{\mathrm{m}} h^2$	$0.1401^{+0.0045}_{-0.0049} \quad (-0.0\sigma)$	z_{eq}	$3333^{+110}_{-120} \quad (-0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$8.9 \quad (\nu: 4.4) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	k_{eq}	$0.01017^{+0.00033}_{-0.00036} \quad (-0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.8) \quad (+0.0\sigma)$
σ_8	$0.802^{+0.022}_{-0.020} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.024}_{-0.020} \quad (+0.0\sigma)$	χ_{CMB}^2	$7486.2 \quad (\nu: 16.9) \quad (+994.0\sigma)$
S_8	$0.800^{+0.055}_{-0.055} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.012}_{-0.011} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.438^{+0.030}_{-0.030} \quad (-0.1\sigma)$	$H(0.15)$	$73.7^{+2.1}_{-1.8} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7502.64$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6290.83$; $R - 1 = 0.09766$

2.19 base_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022297	$0.02229^{+0.00040}_{-0.00040}$ (-0.5σ)	S_8	0.8261	$0.827^{+0.042}_{-0.042}$ (-0.5σ)	$100\theta_{s,eq}$	0.4505	$0.4503^{+0.0080}_{-0.0076}$ $(+0.5\sigma)$
$\Omega_c h^2$	0.11956	$0.1196^{+0.0035}_{-0.0036}$ (-0.4σ)	$\sigma_8 \Omega_m^{0.5}$	0.4525	$0.453^{+0.023}_{-0.023}$ (-0.5σ)	$H(0.15)$	72.73	$72.7^{+1.4}_{-1.4}$ $(+0.2\sigma)$
$100\theta_{MC}$	1.04087	$1.04088^{+0.00081}_{-0.00080}$ (-0.1σ)	$\sigma_8 \Omega_m^{0.25}$	0.6047	$0.605^{+0.021}_{-0.022}$ (-0.5σ)	$D_M(0.15)$	642.8	643^{+14}_{-13} (-0.2σ)
τ	0.0531	$0.053^{+0.021}_{-0.022}$ (-0.2σ)	$\sigma_8/h^{0.5}$	0.9843	$0.985^{+0.030}_{-0.031}$ (-0.5σ)	$H(0.38)$	82.87	$82.9^{+1.0}_{-0.99}$ $(+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0390	$3.039^{+0.044}_{-0.044}$ (-0.4σ)	$r_{drag} h$	99.32	$99.3^{+2.8}_{-2.7}$ $(+0.3\sigma)$	$D_M(0.38)$	1532.6	1533^{+28}_{-27} (-0.2σ)
n_s	0.9662	$0.966^{+0.011}_{-0.012}$ $(+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.433	$2.434^{+0.071}_{-0.072}$ (-0.5σ)	$H(0.51)$	89.61	$89.60^{+0.79}_{-0.78}$ $(+0.0\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0063}$ (-0.0σ)	z_{re}	7.56	$7.5^{+2.1}_{-2.4}$ (-0.2σ)	$D_M(0.51)$	1985.0	1985^{+33}_{-31} (-0.2σ)
A_{100}^{PS}	235	240^{+70}_{-60} (-0.7σ)	$10^9 A_s$	2.088	$2.088^{+0.094}_{-0.089}$ (-0.4σ)	$H(0.61)$	95.24	$95.24^{+0.64}_{-0.62}$ (-0.0σ)
A_{143}^{PS}	41.1	40^{+20}_{-20} (-0.8σ)	$10^9 A_s e^{-2\tau}$	1.8780	$1.879^{+0.030}_{-0.029}$ (-0.4σ)	$D_M(0.61)$	2309.6	2310^{+35}_{-34} (-0.2σ)
A_{217}^{PS}	101.9	102^{+30}_{-40} (-1.3σ)	D_{40}	1225.0	1226^{+32}_{-32} (-0.4σ)	$H(2.33)$	236.19	$236.2^{+2.1}_{-2.2}$ (-0.5σ)
A_{217}^{CIB}	44.3	40^{+20}_{-20} (-1.0σ)	D_{220}	5716	5718^{+100}_{-100} (-0.3σ)	$D_M(2.33)$	5766.4	5767^{+29}_{-29} $(+0.2\sigma)$
A_{143}^{tSZ}	6.43	< 8.84 (-0.8σ)	D_{810}	2534.7	2535^{+35}_{-34} (-0.3σ)	$f\sigma_8(0.15)$	0.4569	$0.457^{+0.021}_{-0.022}$ (-0.5σ)
$r_{143 \times 217}^{PS}$	0.629	$0.66^{+0.31}_{-0.34}$	D_{1420}	815.8	816^{+13}_{-12} (-0.3σ)	$\sigma_8(0.15)$	0.7467	$0.747^{+0.018}_{-0.017}$ (-0.5σ)
$r_{143 \times 217}^{CIB}$	0.76	—	D_{2000}	230.27	$230.2^{+4.2}_{-4.2}$ (-0.4σ)	$f\sigma_8(0.38)$	0.4748	$0.475^{+0.017}_{-0.018}$ (-0.5σ)
$\xi^{tSZ \times CIB}$	0.20	—	$n_{s,0.002}$	0.9662	$0.966^{+0.011}_{-0.012}$ $(+0.2\sigma)$	$\sigma_8(0.38)$	0.6616	$0.662^{+0.015}_{-0.015}$ (-0.5σ)
A^{kSZ}	0.3	—	Y_P	0.245366	$0.24536^{+0.00015}_{-0.00018}$ (-0.5σ)	$f\sigma_8(0.51)$	0.4731	$0.473^{+0.015}_{-0.016}$ (-0.5σ)
A_{100}^{dust}	1.00	$1.01^{+0.51}_{-0.50}$	Y_P^{BBN}	0.246692	$0.24669^{+0.00015}_{-0.00018}$ (-0.5σ)	$\sigma_8(0.51)$	0.6191	$0.619^{+0.014}_{-0.014}$ (-0.4σ)
A_{143}^{dust}	0.980	$0.96^{+0.46}_{-0.45}$	$10^5 D/H$	2.599	$2.601^{+0.076}_{-0.072}$ $(+0.5\sigma)$	$f\sigma_8(0.61)$	0.4680	$0.468^{+0.014}_{-0.014}$ (-0.5σ)
A_{217}^{dust}	0.966	$0.97^{+0.26}_{-0.27}$	Age/Gyr	13.805	$13.805^{+0.064}_{-0.063}$ $(+0.2\sigma)$	$\sigma_8(0.61)$	0.5890	$0.589^{+0.013}_{-0.013}$ (-0.4σ)
$A_{143 \times 217}^{dust}$	1.012	$1.03^{+0.42}_{-0.42}$	z_*	1089.98	$1089.99^{+0.75}_{-0.72}$ $(+0.1\sigma)$	$f\sigma_8(2.33)$	0.2969	$0.2969^{+0.0068}_{-0.0066}$ (-0.4σ)
c_{100}	0.99760	$0.9975^{+0.0026}_{-0.0027}$ (-3.5σ)	r_*	144.60	$144.58^{+0.81}_{-0.78}$ $(+0.6\sigma)$	$\sigma_8(2.33)$	0.3060	$0.3060^{+0.0071}_{-0.0070}$ (-0.3σ)
c_{217}	1.00127	$1.0011^{+0.0040}_{-0.0041}$ $(+4.7\sigma)$	$100\theta_*$	1.04106	$1.04107^{+0.00080}_{-0.00079}$ (-0.0σ)	f_{2000}^{143}	30.0	30^{+7}_{-7} $(+0.1\sigma)$
c_{TE}	0.9965	$0.997^{+0.013}_{-0.012}$	$D_M(z_*)/\text{Gpc}$	13.890	$13.888^{+0.076}_{-0.072}$ $(+0.7\sigma)$	f_{2000}^{217}	106.72	$106.9^{+4.9}_{-5.0}$ (-0.0σ)
c_{EE}	0.9920	$0.992^{+0.012}_{-0.012}$	z_{drag}	1059.74	$1059.73^{+0.81}_{-0.83}$ (-0.7σ)	$f_{2000}^{143 \times 217}$	32.2	32^{+5}_{-5} $(+0.0\sigma)$
H_0	67.43	$67.4^{+1.6}_{-1.6}$ $(+0.2\sigma)$	r_{drag}	147.29	$147.27^{+0.82}_{-0.77}$ $(+0.7\sigma)$	χ_{small}^2	395.90	$396.9 (\nu: 1.4)$ (-0.1σ)
Ω_Λ	0.6866	$0.686^{+0.021}_{-0.023}$ $(+0.3\sigma)$	k_D	0.14060	$0.14061^{+0.00086}_{-0.00091}$ (-0.9σ)	χ_{lowl}^2	23.00	$23.16 (\nu: 0.4)$ (-0.4σ)
Ω_m	0.3134	$0.314^{+0.023}_{-0.021}$ (-0.3σ)	$100\theta_D$	0.160865	$0.16087^{+0.00049}_{-0.00049}$ $(+0.6\sigma)$	$\chi_{CamSpec}^2$	11499.6	$11514.5 (\nu: 15.8)$
$\Omega_m h^2$	0.14250	$0.1426^{+0.0033}_{-0.0034}$ (-0.5σ)	z_{eq}	3390	3392^{+80}_{-82} (-0.5σ)	χ_{prior}^2	2.2	$7.8 (\nu: 6.0)$ (-0.8σ)
$\Omega_m h^3$	0.09609	$0.09610^{+0.00079}_{-0.00082}$ (-0.8σ)	k_{eq}	0.010347	$0.01035^{+0.00024}_{-0.00025}$ (-0.5σ)	χ_{CMB}^2	11918.5	$11934.6 (\nu: 16.4)$ $(+1587.7\sigma)$
σ_8	0.8082	$0.808^{+0.020}_{-0.020}$ (-0.5σ)	$100\theta_{eq}$	0.8152	$0.815^{+0.016}_{-0.015}$ $(+0.4\sigma)$			

Best-fit $\chi_{eff}^2 = 11920.76$; $\Delta\chi_{eff}^2 = 9154.99$; $\bar{\chi}_{eff}^2 = 11942.46$; $\Delta\bar{\chi}_{eff}^2 = 9150.69$; $R - 1 = 0.01233$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.90 (Δ -0.15) commander_dx12.v3.2.29: 23.00 (Δ -0.26) CamSpec like_10.7HM_1400_unified: 11499.65

2.20 base_CamSpecHM_TTTEEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00036}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+10}_{-9.8} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.05^{+0.74}_{-0.74} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04097^{+0.00075}_{-0.00076} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.1\sigma)$
τ	$0.054^{+0.020}_{-0.021} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$H(0.51)$	$89.75^{+0.61}_{-0.59} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.042}_{-0.044} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.065}_{-0.066} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+24}_{-23} \quad (-0.0\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.1\sigma)$	z_{re}	$7.6^{+2.0}_{-2.3} \quad (-0.3\sigma)$	$H(0.61)$	$95.35^{+0.51}_{-0.49} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0061} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.089^{+0.090}_{-0.089} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+26}_{-25} \quad (-0.0\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$H(2.33)$	$235.8^{+1.6}_{-1.6} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1223^{+30}_{-30} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+24}_{-24} \quad (+0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5722^{+98}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+34}_{-32} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.017}_{-0.016} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.9\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.4^{+4.1}_{-3.9} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.014}_{-0.014} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.014} \quad (-0.4\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.070}_{-0.064} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.013} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.795^{+0.054}_{-0.053} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0065}_{-0.0066} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	z_*	$1089.87^{+0.60}_{-0.59} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3062^{+0.0068}_{-0.0067} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	r_*	$144.73^{+0.63}_{-0.63} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	$1.04116^{+0.00074}_{-0.00076} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-4.9} \quad (-0.0\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.062}_{-0.060} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.79^{+0.79}_{-0.81} \quad (-0.7\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.40^{+0.67}_{-0.65} \quad (+0.8\sigma)$	χ_{lowl}^2	$22.87 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	k_{D}	$0.14051^{+0.00080}_{-0.00085} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.6 \quad (\nu: 16.1)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00047}_{-0.00047} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.045 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.015} \quad (-0.2\sigma)$	z_{eq}	$3377^{+60}_{-60} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.36 \quad (\nu: 0.1) \quad (+0.3\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0025}_{-0.0025} \quad (-0.5\sigma)$	k_{eq}	$0.01031^{+0.00018}_{-0.00018} \quad (-0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09611^{+0.00079}_{-0.00084} \quad (-0.8\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.807^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0059}_{-0.0058} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.2\sigma)$
S_8	$0.819^{+0.034}_{-0.033} \quad (-0.4\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{CMB}^2	$11934.5 \quad (\nu: 16.4) \quad (+1597.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.28; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.37; R - 1 = 0.01864$$

2.21 base_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00036}_{-0.00040} \quad (-0.5\sigma)$	S_8	$0.810^{+0.040}_{-0.035} \quad (-0.5\sigma)$	$100\theta_{s,eq}$	$0.4538^{+0.0068}_{-0.0074} \quad (+0.5\sigma)$
$\Omega_c h^2$	$0.1181^{+0.0034}_{-0.0031} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.022}_{-0.019} \quad (-0.5\sigma)$	$H(0.15)$	$73.3^{+1.2}_{-1.3} \quad (+0.2\sigma)$
$100\theta_{MC}$	$1.04108^{+0.00076}_{-0.00078} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.597^{+0.021}_{-0.019} \quad (-0.5\sigma)$	$D_M(0.15)$	$637^{+13}_{-12} \quad (-0.2\sigma)$
τ	$0.055^{+0.020}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.974^{+0.030}_{-0.028} \quad (-0.5\sigma)$	$H(0.38)$	$83.32^{+0.90}_{-0.93} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	$3.041^{+0.041}_{-0.045} \quad (-0.4\sigma)$	$r_{drag} h$	$100.5^{+2.5}_{-2.6} \quad (+0.4\sigma)$	$D_M(0.38)$	$1520^{+26}_{-24} \quad (-0.2\sigma)$
n_s	$0.970^{+0.013}_{-0.011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.412^{+0.071}_{-0.067} \quad (-0.5\sigma)$	$H(0.51)$	$89.96^{+0.71}_{-0.74} \quad (+0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0063} \quad (+0.0\sigma)$	z_{re}	$7.7^{+1.9}_{-2.2} \quad (-0.2\sigma)$	$D_M(0.51)$	$1971^{+30}_{-28} \quad (-0.2\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.6\sigma)$	$10^9 A_s$	$2.092^{+0.087}_{-0.092} \quad (-0.4\sigma)$	$H(0.61)$	$95.52^{+0.57}_{-0.60} \quad (-0.0\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873^{+0.029}_{-0.032} \quad (-0.4\sigma)$	$D_M(0.61)$	$2294^{+32}_{-30} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1219^{+31}_{-29} \quad (-0.4\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-1.9} \quad (-0.6\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5729^{+94}_{-99} \quad (-0.3\sigma)$	$D_M(2.33)$	$5755^{+28}_{-25} \quad (+0.2\sigma)$
A_{143}^{tSZ}	—	D_{810}	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.021}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.31}_{-0.34}$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.017}_{-0.016} \quad (-0.5\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.8^{+3.8}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.017}_{-0.015} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.970^{+0.013}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_P	$0.24541^{+0.00014}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.02^{+0.53}_{-0.52}$	Y_P^{BBN}	$0.24674^{+0.00014}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.44}$	$10^5 D/H$	$2.577^{+0.075}_{-0.065} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.014}_{-0.014} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	Age/Gyr	$13.779^{+0.062}_{-0.054} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.013} \quad (-0.4\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.41}_{-0.43}$	z_*	$1089.69^{+0.70}_{-0.58} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0064}_{-0.0066} \quad (-0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	r_*	$144.90^{+0.73}_{-0.77} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0066}_{-0.0070} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.8\sigma)$	$100\theta_*$	$1.04126^{+0.00075}_{-0.00077} \quad (-0.0\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	$D_M(z_*)/Gpc$	$13.916^{+0.069}_{-0.072} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.5^{+5.1}_{-5.2} \quad (-0.0\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.012}$	z_{drag}	$1059.91^{+0.75}_{-0.82} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
H_0	$68.1^{+1.4}_{-1.5} \quad (+0.3\sigma)$	r_{drag}	$147.55^{+0.73}_{-0.77} \quad (+0.8\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.2\sigma)$
Ω_Λ	$0.696^{+0.018}_{-0.021} \quad (+0.4\sigma)$	k_D	$0.14042^{+0.00086}_{-0.00083} \quad (-0.9\sigma)$	χ_{lowl}^2	$22.52 \quad (\nu: 0.3) \quad (-0.4\sigma)$
Ω_m	$0.304^{+0.021}_{-0.018} \quad (-0.4\sigma)$	$100\theta_D$	$0.16078^{+0.00049}_{-0.00043} \quad (+0.6\sigma)$	$\chi_{CamSpec}^2$	$11516.4 \quad (\nu: 20.7)$
$\Omega_m h^2$	$0.1411^{+0.0032}_{-0.0029} \quad (-0.5\sigma)$	z_{eq}	$3357^{+76}_{-70} \quad (-0.5\sigma)$	$\chi_{H073p45}^2$	$10.3 \quad (\nu: 2.5) \quad (-0.3\sigma)$
$\Omega_m h^3$	$0.09615^{+0.00079}_{-0.00087} \quad (-0.8\sigma)$	k_{eq}	$0.01025^{+0.00023}_{-0.00021} \quad (-0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	$0.804^{+0.019}_{-0.019} \quad (-0.5\sigma)$	$100\theta_{eq}$	$0.822^{+0.013}_{-0.014} \quad (+0.5\sigma)$	χ_{CMB}^2	$11936.1 \quad (\nu: 20.0) \quad (+1432.1\sigma)$

$\bar{\chi}_{eff}^2 = 11954.26$; $\Delta\bar{\chi}_{eff}^2 = 9150.10$; $R - 1 = 0.03390$

2.22 base_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00040}_{-0.00040} \quad (-0.4\sigma)$	S_8	$0.828^{+0.042}_{-0.041} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4504^{+0.0080}_{-0.0076} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0036}_{-0.0036} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.023}_{-0.022} \quad (-0.4\sigma)$	$H(0.15)$	$72.7^{+1.4}_{-1.4} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00080}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+14}_{-13} \quad (-0.2\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.029}_{-0.029} \quad (-0.4\sigma)$	$H(0.38)$	$82.88^{+0.99}_{-1.0} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.041}_{-0.029} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.3^{+2.8}_{-2.7} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1533^{+28}_{-27} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.069}_{-0.068} \quad (-0.5\sigma)$	$H(0.51)$	$89.62^{+0.79}_{-0.79} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	z_{re}	$< 9.42 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1985^{+33}_{-31} \quad (-0.2\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.088}_{-0.060} \quad (-0.3\sigma)$	$H(0.61)$	$95.25^{+0.64}_{-0.63} \quad (-0.0\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.029}_{-0.029} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2310^{+35}_{-34} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{40}	$1226^{+32}_{-32} \quad (-0.4\sigma)$	$H(2.33)$	$236.2^{+2.1}_{-2.2} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5718^{+100}_{-100} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5766^{+29}_{-29} \quad (+0.2\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.8\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.021}_{-0.021} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.014} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.3^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.014}_{-0.011} \quad (-0.4\sigma)$
A^{kSZ}	—	Y_{P}	$0.24536^{+0.00015}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.010} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.600^{+0.077}_{-0.072} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.804^{+0.065}_{-0.063} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0094} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	z_*	$1089.98^{+0.76}_{-0.72} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0064}_{-0.0046} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.59^{+0.81}_{-0.77} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0067}_{-0.0047} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_*$	$1.04108^{+0.00079}_{-0.00077} \quad (-0.0\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.076}_{-0.071} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.9^{+4.9}_{-5.0} \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	z_{drag}	$1059.74^{+0.84}_{-0.84} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
H_0	$67.4^{+1.6}_{-1.6} \quad (+0.2\sigma)$	r_{drag}	$147.28^{+0.81}_{-0.77} \quad (+0.8\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (-0.1\sigma)$
Ω_{Λ}	$0.686^{+0.021}_{-0.022} \quad (+0.3\sigma)$	k_{D}	$0.14061^{+0.00087}_{-0.00092} \quad (-0.9\sigma)$	χ_{lowl}^2	$23.17 \quad (\nu: 0.4) \quad (-0.4\sigma)$
Ω_{m}	$0.314^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00049}_{-0.00049} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.3 \quad (\nu: 15.7)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0033}_{-0.0034} \quad (-0.5\sigma)$	z_{eq}	$3391^{+79}_{-82} \quad (-0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00079}_{-0.00083} \quad (-0.8\sigma)$	k_{eq}	$0.01035^{+0.00024}_{-0.00025} \quad (-0.5\sigma)$	χ_{CMB}^2	$11934.4 \quad (\nu: 16.0) \quad (+1615.2\sigma)$
σ_8	$0.809^{+0.019}_{-0.017} \quad (-0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.015} \quad (+0.4\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11942.19$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.65$; $R - 1 = 0.01099$

2.23 base_CamSpecHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02234^{+0.00036}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.018}_{-0.017} \quad (-0.4\sigma)$	$D_{\text{M}}(0.15)$	$640^{+10}_{-9.7} \quad (-0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1189^{+0.0027}_{-0.0026} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.602^{+0.018}_{-0.017} \quad (-0.4\sigma)$	$H(0.38)$	$83.06^{+0.74}_{-0.74} \quad (-0.0\sigma)$
$100\theta_{\text{MC}}$	$1.04097^{+0.00074}_{-0.00076} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.026}_{-0.024} \quad (-0.4\sigma)$	$D_{\text{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.014} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$99.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$H(0.51)$	$89.75^{+0.60}_{-0.59} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.040}_{-0.030} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.064}_{-0.058} \quad (-0.4\sigma)$	$D_{\text{M}}(0.51)$	$1979^{+24}_{-23} \quad (-0.1\sigma)$
n_{s}	$0.9675^{+0.0099}_{-0.010} \quad (+0.1\sigma)$	z_{re}	$< 9.44 \quad (-0.2\sigma)$	$H(0.61)$	$95.36^{+0.50}_{-0.49} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\text{s}}$	$2.095^{+0.086}_{-0.063} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2303^{+25}_{-25} \quad (-0.0\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$H(2.33)$	$235.8^{+1.6}_{-1.6} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1223^{+30}_{-30} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5762^{+24}_{-24} \quad (+0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5722^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.017}_{-0.016} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+35}_{-32} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.016}_{-0.014} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.9\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.014}_{-0.014} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.4^{+4.1}_{-4.0} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.011} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.9675^{+0.0099}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.013}_{-0.012} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.010} \quad (-0.4\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.012}_{-0.011} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	$10^5 \text{D}/\text{H}$	$2.591^{+0.070}_{-0.064} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0098} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	Age/Gyr	$13.794^{+0.054}_{-0.053} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0062}_{-0.0048} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.86^{+0.60}_{-0.58} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0065}_{-0.0049} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	r_*	$144.73^{+0.64}_{-0.63} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	$1.04116^{+0.00074}_{-0.00074} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.7^{+5.1}_{-5.1} \quad (-0.0\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.901^{+0.061}_{-0.060} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.79^{+0.79}_{-0.85} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.41^{+0.68}_{-0.66} \quad (+0.8\sigma)$	χ_{lowl}^2	$22.88 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	k_{D}	$0.14051^{+0.00080}_{-0.00085} \quad (-0.9\sigma)$	χ_{CamSpec}^2	$11514.4 \quad (\nu: 15.8)$
Ω_{Λ}	$0.691^{+0.015}_{-0.016} \quad (+0.2\sigma)$	$100\theta_{\text{D}}$	$0.16084^{+0.00048}_{-0.00047} \quad (+0.7\sigma)$	$\chi_{6\text{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_{m}	$0.309^{+0.016}_{-0.015} \quad (-0.2\sigma)$	z_{eq}	$3376^{+61}_{-60} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.3\sigma)$
$\Omega_{\text{m}} h^2$	$0.1419^{+0.0025}_{-0.0025} \quad (-0.5\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00018} \quad (-0.5\sigma)$	χ_{DR12BAO}^2	$4.5 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_{\text{m}} h^3$	$0.09611^{+0.00079}_{-0.00085} \quad (-0.8\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.808^{+0.018}_{-0.016} \quad (-0.4\sigma)$	$100\theta_{\text{s,eq}}$	$0.4519^{+0.0059}_{-0.0058} \quad (+0.4\sigma)$	χ_{BAO}^2	$5.96 \quad (\nu: 0.5) \quad (-0.2\sigma)$
S_8	$0.820^{+0.033}_{-0.032} \quad (-0.4\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{CMB}^2	$11934.2 \quad (\nu: 16.1) \quad (+1631.2\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11947.99; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.27; R - 1 = 0.01741$$

2.24 base_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00036}_{-0.00040} \quad (-0.5\sigma)$	S_8	$0.810^{+0.040}_{-0.035} \quad (-0.5\sigma)$	$100\theta_{s,eq}$	$0.4539^{+0.0070}_{-0.0074} \quad (+0.5\sigma)$
$\Omega_c h^2$	$0.1180^{+0.0034}_{-0.0031} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.022}_{-0.019} \quad (-0.5\sigma)$	$H(0.15)$	$73.4^{+1.2}_{-1.3} \quad (+0.3\sigma)$
$100\theta_{MC}$	$1.04108^{+0.00074}_{-0.00078} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.598^{+0.020}_{-0.018} \quad (-0.5\sigma)$	$D_M(0.15)$	$637^{+13}_{-12} \quad (-0.3\sigma)$
τ	$0.056^{+0.018}_{-0.015} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.975^{+0.029}_{-0.026} \quad (-0.5\sigma)$	$H(0.38)$	$83.33^{+0.89}_{-0.92} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	$3.043^{+0.039}_{-0.031} \quad (-0.4\sigma)$	$r_{drag} h$	$100.6^{+2.5}_{-2.6} \quad (+0.4\sigma)$	$D_M(0.38)$	$1520^{+25}_{-24} \quad (-0.2\sigma)$
n_s	$0.970^{+0.013}_{-0.011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.414^{+0.069}_{-0.059} \quad (-0.5\sigma)$	$H(0.51)$	$89.97^{+0.70}_{-0.74} \quad (+0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	$< 9.47 \quad (-0.2\sigma)$	$D_M(0.51)$	$1971^{+30}_{-28} \quad (-0.2\sigma)$
A_{100}^{PS}	$239^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_s$	$2.096^{+0.083}_{-0.065} \quad (-0.4\sigma)$	$H(0.61)$	$95.53^{+0.56}_{-0.60} \quad (+0.0\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873^{+0.029}_{-0.031} \quad (-0.4\sigma)$	$D_M(0.61)$	$2294^{+32}_{-30} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1219^{+31}_{-29} \quad (-0.4\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-1.9} \quad (-0.6\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5729^{+95}_{-99} \quad (-0.3\sigma)$	$D_M(2.33)$	$5754^{+28}_{-25} \quad (+0.1\sigma)$
A_{143}^{tSZ}	—	D_{810}	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.30}_{-0.35}$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.016}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.8^{+3.8}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.017}_{-0.015} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.970^{+0.013}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.014}_{-0.012} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_P	$0.24541^{+0.00013}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.015}_{-0.013} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.02^{+0.53}_{-0.52}$	Y_P^{BBN}	$0.24674^{+0.00014}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.011} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.44}$	$10^5 D/H$	$2.576^{+0.076}_{-0.064} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.014}_{-0.012} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	Age/Gyr	$13.778^{+0.061}_{-0.054} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.010} \quad (-0.4\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.41}_{-0.44}$	z_*	$1089.68^{+0.69}_{-0.57} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0062}_{-0.0050} \quad (-0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	r_*	$144.91^{+0.72}_{-0.77} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0063}_{-0.0050} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0040} \quad (+4.8\sigma)$	$100\theta_*$	$1.04126^{+0.00073}_{-0.00077} \quad (-0.0\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	$D_M(z_*)/Gpc$	$13.916^{+0.068}_{-0.072} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.5^{+5.0}_{-5.1} \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	z_{drag}	$1059.92^{+0.74}_{-0.82} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
H_0	$68.2^{+1.4}_{-1.5} \quad (+0.3\sigma)$	r_{drag}	$147.56^{+0.73}_{-0.78} \quad (+0.8\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.2\sigma)$
Ω_Λ	$0.696^{+0.018}_{-0.021} \quad (+0.4\sigma)$	k_D	$0.14041^{+0.00087}_{-0.00085} \quad (-0.9\sigma)$	χ_{lowl}^2	$22.52 \quad (\nu: 0.3) \quad (-0.4\sigma)$
Ω_m	$0.304^{+0.021}_{-0.018} \quad (-0.4\sigma)$	$100\theta_D$	$0.16077^{+0.00050}_{-0.00043} \quad (+0.6\sigma)$	$\chi_{CamSpec}^2$	$11516.3 \quad (\nu: 20.8)$
$\Omega_m h^2$	$0.1411^{+0.0032}_{-0.0030} \quad (-0.5\sigma)$	z_{eq}	$3356^{+76}_{-71} \quad (-0.6\sigma)$	$\chi_{H073p45}^2$	$10.3 \quad (\nu: 2.5) \quad (-0.3\sigma)$
$\Omega_m h^3$	$0.09615^{+0.00079}_{-0.00088} \quad (-0.8\sigma)$	k_{eq}	$0.01024^{+0.00023}_{-0.00022} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	$0.805^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$100\theta_{eq}$	$0.822^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{CMB}^2	$11935.9 \quad (\nu: 20.0) \quad (+1455.3\sigma)$

$\bar{\chi}_{eff}^2 = 11954.01; \Delta\bar{\chi}_{eff}^2 = 9150.12; R - 1 = 0.03572$

2.25 base_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02246	$0.02249^{+0.00068}_{-0.00064}$	$\langle d^2 \rangle^{1/2}$	2.388	$2.38^{+0.11}_{-0.12}$	$H(0.15)$	73.51	$73.6^{+2.0}_{-1.9}$
$\Omega_c h^2$	0.1179	$0.1177^{+0.0052}_{-0.0051}$	z_{re}	7.09	$7.1^{+2.1}_{-2.8}$	$D_{\text{M}}(0.15)$	635.2	634^{+19}_{-19}
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0012}_{-0.0013}$	$10^9 A_{\text{s}}$	2.044	$2.04^{+0.10}_{-0.11}$	$H(0.38)$	83.46	$83.5^{+1.5}_{-1.4}$
τ	0.0491	$0.050^{+0.021}_{-0.025}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8528	$1.851^{+0.049}_{-0.047}$	$D_{\text{M}}(0.38)$	1517.1	1515^{+38}_{-39}
$\ln(10^{10} A_{\text{s}})$	3.017	$3.018^{+0.050}_{-0.057}$	D_{40}	1215	1212^{+67}_{-66}	$H(0.51)$	90.08	$90.1^{+1.2}_{-1.1}$
n_{s}	0.9660	$0.967^{+0.030}_{-0.029}$	D_{220}	5695	5693^{+150}_{-140}	$D_{\text{M}}(0.51)$	1966.8	1965^{+44}_{-46}
A_{100}^{dustTE}	0.113	$0.114^{+0.10}_{-0.095}$	D_{810}	2507	2507^{+67}_{-64}	$H(0.61)$	95.63	$95.7^{+1.0}_{-0.90}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.136^{+0.078}_{-0.077}$	D_{1420}	806.8	807^{+31}_{-30}	$D_{\text{M}}(0.61)$	2289.8	2287^{+48}_{-50}
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	D_{2000}	227.5	228^{+11}_{-11}	$H(2.33)$	235.29	$235.2^{+3.2}_{-3.1}$
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	0.9660	$0.967^{+0.030}_{-0.029}$	$D_{\text{M}}(2.33)$	5749.0	5747^{+42}_{-46}
$A_{143 \times 217}^{\text{dustTE}}$	0.657	$0.66^{+0.20}_{-0.21}$	Y_{P}	0.245430	$0.24544^{+0.00029}_{-0.00028}$	$f\sigma_8(0.15)$	0.4413	$0.440^{+0.031}_{-0.031}$
A_{217}^{dustTE}	2.04	$2.04^{+0.68}_{-0.69}$	$Y_{\text{P}}^{\text{BBN}}$	0.246756	$0.24676^{+0.00030}_{-0.00028}$	$\sigma_8(0.15)$	0.7343	$0.734^{+0.024}_{-0.026}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \text{D}/\text{H}$	2.569	$2.57^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	0.4614	$0.460^{+0.026}_{-0.026}$
c_{217}	0.99799	$0.9980^{+0.0017}_{-0.0016}$	Age/Gyr	13.766	$13.761^{+0.095}_{-0.10}$	$\sigma_8(0.38)$	0.6519	$0.652^{+0.020}_{-0.021}$
y_{cal}	1.0000	$0.99999^{+0.0064}_{-0.0064}$	z_*	1089.62	$1089.6^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	0.4611	$0.460^{+0.023}_{-0.023}$
H_0	68.33	$68.4^{+2.4}_{-2.2}$	r_*	144.91	$145.0^{+1.2}_{-1.2}$	$\sigma_8(0.51)$	0.6105	$0.610^{+0.019}_{-0.020}$
Ω_{Λ}	0.6980	$0.699^{+0.029}_{-0.031}$	$100\theta_*$	1.04154	$1.0416^{+0.0012}_{-0.0013}$	$f\sigma_8(0.61)$	0.4570	$0.456^{+0.021}_{-0.021}$
Ω_{m}	0.3020	$0.301^{+0.031}_{-0.029}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.913	$13.92^{+0.12}_{-0.11}$	$\sigma_8(0.61)$	0.5812	$0.581^{+0.018}_{-0.018}$
$\Omega_{\text{m}} h^2$	0.14098	$0.1408^{+0.0050}_{-0.0048}$	z_{drag}	1060.01	$1060.0^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.2934	$0.2934^{+0.0088}_{-0.0091}$
$\Omega_{\text{m}} h^3$	0.09633	$0.0963^{+0.0013}_{-0.0013}$	r_{drag}	147.55	$147.6^{+1.3}_{-1.2}$	$\sigma_8(2.33)$	0.3029	$0.3030^{+0.0089}_{-0.0095}$
σ_8	0.7936	$0.793^{+0.028}_{-0.029}$	k_{D}	0.14044	$0.1404^{+0.0015}_{-0.0015}$	χ_{simall}^2	395.69	$396.8 (\nu: 1.2)$
S_8	0.796	$0.794^{+0.060}_{-0.060}$	$100\theta_{\text{D}}$	0.16077	$0.16075^{+0.00084}_{-0.00080}$	χ_{plikTE}^2	852.9	$859.8 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4361	$0.435^{+0.033}_{-0.033}$	z_{eq}	3354	3349^{+120}_{-110}	χ_{prior}^2	0.4	$7.4 (\nu: 6.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5883	$0.587^{+0.032}_{-0.031}$	k_{eq}	0.010235	$0.01022^{+0.00036}_{-0.00035}$	χ_{CMB}^2	1248.5	$1256.6 (\nu: 7.8)$
$\sigma_8/h^{0.5}$	0.9601	$0.959^{+0.045}_{-0.045}$	$100\theta_{\text{eq}}$	0.8227	$0.824^{+0.023}_{-0.022}$			
$r_{\text{drag}} h$	100.82	$101.0^{+4.1}_{-4.0}$	$100\theta_{\text{s,eq}}$	0.4542	$0.455^{+0.012}_{-0.011}$			

Best-fit $\chi_{\text{eff}}^2 = 1248.98$; $\bar{\chi}_{\text{eff}}^2 = 1264.01$; $R - 1 = 0.00711$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.69 plik_rd12_HM_v22_TE: 852.85

2.26 base_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02250^{+0.00068}_{-0.00065}$	$\langle d^2 \rangle^{1/2}$	$2.39^{+0.11}_{-0.10}$	$H(0.15)$	$73.6^{+2.0}_{-1.9}$
$\Omega_{\text{c}}h^2$	$0.1176^{+0.0052}_{-0.0050}$	z_{re}	< 9.06	$D_{\text{M}}(0.15)$	634^{+19}_{-19}
$100\theta_{\text{MC}}$	$1.0414^{+0.0012}_{-0.0013}$	$10^9 A_{\text{s}}$	$2.058^{+0.094}_{-0.071}$	$H(0.38)$	$83.6^{+1.5}_{-1.4}$
τ	$0.053^{+0.017}_{-0.011}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.852^{+0.048}_{-0.048}$	$D_{\text{M}}(0.38)$	1515^{+38}_{-39}
$\ln(10^{10} A_{\text{s}})$	$3.024^{+0.045}_{-0.035}$	D_{40}	1212^{+66}_{-65}	$H(0.51)$	$90.2^{+1.2}_{-1.1}$
n_{s}	$0.968^{+0.029}_{-0.029}$	D_{220}	5693^{+150}_{-140}	$D_{\text{M}}(0.51)$	1964^{+45}_{-46}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.096}$	D_{810}	2508^{+67}_{-63}	$H(0.61)$	$95.7^{+1.0}_{-0.90}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.078}_{-0.077}$	D_{1420}	808^{+31}_{-30}	$D_{\text{M}}(0.61)$	2287^{+48}_{-50}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	D_{2000}	228^{+11}_{-11}	$H(2.33)$	$235.1^{+3.3}_{-3.1}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	$0.968^{+0.029}_{-0.029}$	$D_{\text{M}}(2.33)$	5746^{+42}_{-46}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	Y_{P}	$0.24544^{+0.00030}_{-0.00028}$	$f\sigma_8(0.15)$	$0.441^{+0.031}_{-0.030}$
A_{217}^{dustTE}	$2.03^{+0.68}_{-0.69}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00030}_{-0.00028}$	$\sigma_8(0.15)$	$0.736^{+0.022}_{-0.021}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \text{D}/\text{H}$	$2.56^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	$0.462^{+0.025}_{-0.025}$
c_{217}	$0.9980^{+0.0016}_{-0.0016}$	Age/Gyr	$13.760^{+0.094}_{-0.10}$	$\sigma_8(0.38)$	$0.654^{+0.019}_{-0.016}$
y_{cal}	$1.0000^{+0.0064}_{-0.0064}$	z_*	$1089.6^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.462^{+0.022}_{-0.022}$
H_0	$68.5^{+2.3}_{-2.2}$	r_*	$145.0^{+1.2}_{-1.3}$	$\sigma_8(0.51)$	$0.612^{+0.017}_{-0.015}$
Ω_{Λ}	$0.700^{+0.029}_{-0.031}$	$100\theta_*$	$1.0416^{+0.0012}_{-0.0013}$	$f\sigma_8(0.61)$	$0.458^{+0.020}_{-0.020}$
Ω_{m}	$0.300^{+0.031}_{-0.029}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.92^{+0.12}_{-0.12}$	$\sigma_8(0.61)$	$0.583^{+0.016}_{-0.014}$
$\Omega_{\text{m}}h^2$	$0.1407^{+0.0051}_{-0.0047}$	z_{drag}	$1060.1^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	$0.2945^{+0.0081}_{-0.0066}$
$\Omega_{\text{m}}h^3$	$0.0964^{+0.0013}_{-0.0014}$	r_{drag}	$147.6^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	$0.3041^{+0.0083}_{-0.0067}$
σ_8	$0.796^{+0.026}_{-0.025}$	k_{D}	$0.1404^{+0.0015}_{-0.0015}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
S_8	$0.796^{+0.060}_{-0.058}$	$100\theta_{\text{D}}$	$0.16074^{+0.00085}_{-0.00079}$	χ_{plikTE}^2	$859.8 (\nu: 6.7)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.436^{+0.033}_{-0.032}$	z_{eq}	3347^{+120}_{-110}	χ_{prior}^2	$7.4 (\nu: 6.8)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.589^{+0.031}_{-0.030}$	k_{eq}	$0.01022^{+0.00037}_{-0.00035}$	χ_{CMB}^2	$1256.2 (\nu: 7.4)$
$\sigma_8/h^{0.5}$	$0.962^{+0.043}_{-0.042}$	$100\theta_{\text{eq}}$	$0.824^{+0.023}_{-0.022}$		
$r_{\text{drag}}h$	$101.1^{+4.1}_{-4.0}$	$100\theta_{\text{s,eq}}$	$0.455^{+0.012}_{-0.012}$		

$\bar{\chi}_{\text{eff}}^2 = 1263.64$; $R - 1 = 0.00713$

2.27 base_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02372	$0.0240^{+0.0032}_{-0.0029}$	D_{220}	5924	5959^{+490}_{-480}	$H(0.38)$	84.36	$84.7^{+5.4}_{-4.5}$
$\Omega_c h^2$	0.1164	$0.116^{+0.012}_{-0.011}$	D_{810}	2585	2590^{+97}_{-100}	$D_M(0.38)$	1497	1489^{+120}_{-120}
$100\theta_{MC}$	1.04002	$1.0400^{+0.0022}_{-0.0023}$	D_{1420}	841.3	844^{+47}_{-49}	$H(0.51)$	90.91	$91.3^{+4.7}_{-3.8}$
τ	0.0526	$0.053^{+0.023}_{-0.027}$	D_{2000}	240.2	241^{+18}_{-19}	$D_M(0.51)$	1942	1933^{+140}_{-140}
$\ln(10^{10} A_s)$	3.050	$3.052^{+0.057}_{-0.059}$	$n_{s,0.002}$	0.9781	$0.980^{+0.040}_{-0.035}$	$H(0.61)$	96.40	$96.7^{+4.1}_{-3.2}$
n_s	0.9781	$0.980^{+0.040}_{-0.035}$	Y_P	0.24595	$0.2460^{+0.0012}_{-0.0012}$	$D_M(0.61)$	2262	2252^{+150}_{-160}
y_{cal}	1.0001	$0.9999^{+0.0066}_{-0.0062}$	Y_P^{BBN}	0.24728	$0.2474^{+0.0012}_{-0.0012}$	$H(2.33)$	235.5	$235.3^{+5.9}_{-4.8}$
H_0	69.5	$69.9^{+7.3}_{-6.7}$	$10^5 D/H$	2.352	$2.32^{+0.53}_{-0.44}$	$D_M(2.33)$	5709	5695^{+160}_{-180}
Ω_Λ	0.708	$0.711^{+0.067}_{-0.085}$	Age/Gyr	13.672	$13.64^{+0.36}_{-0.40}$	$f\sigma_8(0.15)$	0.437	$0.433^{+0.076}_{-0.069}$
Ω_m	0.292	$0.289^{+0.085}_{-0.067}$	z_*	1088.01	$1087.8^{+4.5}_{-4.0}$	$\sigma_8(0.15)$	0.7399	$0.737^{+0.035}_{-0.038}$
$\Omega_m h^2$	0.1408	$0.140^{+0.010}_{-0.0088}$	r_*	144.33	$144.3^{+1.7}_{-1.7}$	$f\sigma_8(0.38)$	0.460	$0.456^{+0.058}_{-0.058}$
$\Omega_m h^3$	0.09778	$0.0981^{+0.0048}_{-0.0042}$	$100\theta_*$	1.04007	$1.0400^{+0.0022}_{-0.0022}$	$\sigma_8(0.38)$	0.6581	$0.656^{+0.025}_{-0.027}$
σ_8	0.7986	$0.796^{+0.045}_{-0.047}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.87^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	0.4608	$0.457^{+0.049}_{-0.050}$
S_8	0.788	$0.78^{+0.15}_{-0.13}$	z_{drag}	1062.8	$1063.2^{+6.1}_{-6.0}$	$\sigma_8(0.51)$	0.6168	$0.615^{+0.022}_{-0.023}$
$\sigma_8 \Omega_m^{0.5}$	0.431	$0.427^{+0.084}_{-0.072}$	r_{drag}	146.55	$146.5^{+1.8}_{-1.8}$	$f\sigma_8(0.61)$	0.4575	$0.454^{+0.042}_{-0.044}$
$\sigma_8 \Omega_m^{0.25}$	0.587	$0.583^{+0.071}_{-0.066}$	k_D	0.14239	$0.1426^{+0.0031}_{-0.0033}$	$\sigma_8(0.61)$	0.5874	$0.586^{+0.020}_{-0.020}$
$\sigma_8/h^{0.5}$	0.958	$0.952^{+0.099}_{-0.096}$	$100\theta_D$	0.15899	$0.1588^{+0.0035}_{-0.0028}$	$f\sigma_8(2.33)$	0.2970	$0.2965^{+0.0088}_{-0.0092}$
$r_{drag} h$	101.8	102^{+10}_{-10}	z_{eq}	3349	3340^{+240}_{-210}	$\sigma_8(2.33)$	0.3071	$0.3069^{+0.0096}_{-0.0095}$
$\langle d^2 \rangle^{1/2}$	2.384	$2.37^{+0.19}_{-0.19}$	k_{eq}	0.01022	$0.01019^{+0.00073}_{-0.00064}$	χ_{simall}^2	395.59	$396.7 (\nu: 1.2)$
z_{re}	7.17	$7.1^{+2.1}_{-2.8}$	$100\theta_{eq}$	0.8261	$0.829^{+0.050}_{-0.049}$	χ_{plikEE}^2	739.0	$743.9 (\nu: 4.9)$
$10^9 A_s$	2.112	$2.12^{+0.12}_{-0.12}$	$100\theta_{s,eq}$	0.4550	$0.456^{+0.023}_{-0.024}$	χ_{prior}^2	0.00	$0.98 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.901	$1.904^{+0.061}_{-0.062}$	$H(0.15)$	74.6	$75.0^{+6.6}_{-5.9}$	χ_{CMB}^2	1134.6	$1140.6 (\nu: 5.9)$
D_{40}	1229	1230^{+79}_{-77}	$D_M(0.15)$	626	622^{+59}_{-55}			

Best-fit $\chi_{\text{eff}}^2 = 1134.55$; $\bar{\chi}_{\text{eff}}^2 = 1141.61$; $R - 1 = 0.00482$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.59 plik_rd12_HM_v22_EE: 738.96

2.28 base_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0240^{+0.0033}_{-0.0029}$	D_{220}	5954^{+500}_{-490}	$H(0.38)$	$84.7^{+5.4}_{-4.6}$
$\Omega_{\mathrm{c}} h^2$	$0.116^{+0.013}_{-0.011}$	D_{810}	2589^{+99}_{-100}	$D_{\mathrm{M}}(0.38)$	1489^{+120}_{-120}
$100\theta_{\mathrm{MC}}$	$1.0400^{+0.0022}_{-0.0023}$	D_{1420}	844^{+48}_{-49}	$H(0.51)$	$91.3^{+4.7}_{-3.8}$
τ	$0.056^{+0.019}_{-0.014}$	D_{2000}	241^{+18}_{-19}	$D_{\mathrm{M}}(0.51)$	1933^{+140}_{-140}
$\ln(10^{10} A_{\mathrm{s}})$	$3.058^{+0.052}_{-0.047}$	$n_{\mathrm{s},0.002}$	$0.981^{+0.040}_{-0.035}$	$H(0.61)$	$96.7^{+4.2}_{-3.3}$
n_{s}	$0.981^{+0.040}_{-0.035}$	Y_{P}	$0.2460^{+0.0012}_{-0.0012}$	$D_{\mathrm{M}}(0.61)$	2252^{+160}_{-160}
y_{cal}	$0.99996^{+0.0066}_{-0.0064}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2474^{+0.0012}_{-0.0012}$	$H(2.33)$	$235.3^{+6.0}_{-4.8}$
H_0	$69.9^{+7.4}_{-6.8}$	$10^5 D/\mathrm{H}$	$2.33^{+0.53}_{-0.46}$	$D_{\mathrm{M}}(2.33)$	5696^{+160}_{-190}
Ω_{Λ}	$0.711^{+0.068}_{-0.087}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.65^{+0.37}_{-0.41}$	$f\sigma_8(0.15)$	$0.435^{+0.077}_{-0.070}$
Ω_{m}	$0.289^{+0.087}_{-0.068}$	z_*	$1087.8^{+4.5}_{-4.1}$	$\sigma_8(0.15)$	$0.740^{+0.034}_{-0.037}$
$\Omega_{\mathrm{m}} h^2$	$0.140^{+0.010}_{-0.0089}$	r_*	$144.3^{+1.7}_{-1.7}$	$f\sigma_8(0.38)$	$0.458^{+0.059}_{-0.058}$
$\Omega_{\mathrm{m}} h^3$	$0.0981^{+0.0049}_{-0.0042}$	$100\theta_*$	$1.0400^{+0.0022}_{-0.0022}$	$\sigma_8(0.38)$	$0.658^{+0.024}_{-0.026}$
σ_8	$0.798^{+0.044}_{-0.047}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.459^{+0.049}_{-0.050}$
S_8	$0.78^{+0.15}_{-0.13}$	z_{drag}	$1063.2^{+6.3}_{-6.0}$	$\sigma_8(0.51)$	$0.617^{+0.020}_{-0.021}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.429^{+0.085}_{-0.073}$	r_{drag}	$146.5^{+1.9}_{-1.8}$	$f\sigma_8(0.61)$	$0.456^{+0.042}_{-0.045}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.585^{+0.071}_{-0.067}$	k_{D}	$0.1426^{+0.0032}_{-0.0034}$	$\sigma_8(0.61)$	$0.588^{+0.018}_{-0.019}$
$\sigma_8/h^{0.5}$	$0.955^{+0.099}_{-0.096}$	$100\theta_{\mathrm{D}}$	$0.1588^{+0.0035}_{-0.0029}$	$f\sigma_8(2.33)$	$0.2974^{+0.0082}_{-0.0075}$
$r_{\mathrm{drag}} h$	102^{+11}_{-10}	z_{eq}	3339^{+240}_{-210}	$\sigma_8(2.33)$	$0.3079^{+0.0088}_{-0.0077}$
$\langle d^2 \rangle^{1/2}$	$2.38^{+0.20}_{-0.19}$	k_{eq}	$0.01019^{+0.00075}_{-0.00065}$	χ_{simall}^2	$396.4 (\nu: 0.9)$
z_{re}	< 9.06	$100\theta_{\mathrm{eq}}$	$0.829^{+0.050}_{-0.050}$	χ_{plikEE}^2	$743.9 (\nu: 5.0)$
$10^9 A_{\mathrm{s}}$	$2.13^{+0.11}_{-0.098}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.024}_{-0.024}$	χ_{prior}^2	$1.0 (\nu: 1.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.903^{+0.062}_{-0.062}$	$H(0.15)$	$75.0^{+6.6}_{-6.0}$	χ_{CMB}^2	$1140.3 (\nu: 5.8)$
D_{40}	1229^{+78}_{-76}	$D_{\mathrm{M}}(0.15)$	622^{+59}_{-56}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1141.31; R - 1 = 0.00558$$

2.29 base_CamSpecHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02247	$0.02248^{+0.00065}_{-0.00066} \quad (-0.0\sigma)$	D_{220}	5719	$5716^{+160}_{-160} \quad (+0.4\sigma)$	$H(0.38)$	83.66	$83.7^{+1.6}_{-1.5} \quad (+0.3\sigma)$
$\Omega_c h^2$	0.1170	$0.1169^{+0.0054}_{-0.0052} \quad (-0.4\sigma)$	D_{810}	2548	$2546^{+67}_{-66} \quad (+1.6\sigma)$	$D_M(0.38)$	1511.4	$1511^{+41}_{-40} \quad (-0.3\sigma)$
$100\theta_{MC}$	1.04140	$1.0414^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	D_{1420}	824.6	$824^{+31}_{-31} \quad (+1.5\sigma)$	$H(0.51)$	90.23	$90.3^{+1.3}_{-1.2} \quad (+0.2\sigma)$
τ	0.0518	$0.050^{+0.023}_{-0.027} \quad (+0.1\sigma)$	D_{2000}	233.4	$233^{+11}_{-11} \quad (+1.3\sigma)$	$D_M(0.51)$	1960.2	$1959^{+48}_{-47} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	3.034	$3.031^{+0.052}_{-0.062} \quad (+0.7\sigma)$	$n_{s,0.002}$	0.9781	$0.978^{+0.030}_{-0.028} \quad (+1.0\sigma)$	$H(0.61)$	95.73	$95.8^{+1.0}_{-0.97} \quad (+0.2\sigma)$
n_s	0.9781	$0.978^{+0.030}_{-0.028} \quad (+1.0\sigma)$	Y_P	0.245433	$0.24544^{+0.00028}_{-0.00029} \quad (-0.0\sigma)$	$D_M(0.61)$	2283	$2282^{+51}_{-51} \quad (-0.3\sigma)$
y_{cal}	1.0001	$0.99999^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	Y_P^{BBN}	0.246760	$0.24676^{+0.00028}_{-0.00029} \quad (-0.0\sigma)$	$H(2.33)$	234.70	$234.7^{+3.3}_{-3.2} \quad (-0.4\sigma)$
H_0	68.68	$68.7^{+2.4}_{-2.4} \quad (+0.3\sigma)$	$10^5 D/H$	2.567	$2.57^{+0.12}_{-0.12} \quad (+0.0\sigma)$	$D_M(2.33)$	5745.7	$5745^{+45}_{-44} \quad (-0.1\sigma)$
Ω_Λ	0.7030	$0.703^{+0.029}_{-0.033} \quad (+0.3\sigma)$	Age/Gyr	13.760	$13.76^{+0.10}_{-0.097} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4421	$0.441^{+0.033}_{-0.032} \quad (+0.1\sigma)$
Ω_m	0.2970	$0.297^{+0.033}_{-0.029} \quad (-0.3\sigma)$	z_*	1089.53	$1089.5^{+1.1}_{-1.1} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7415	$0.740^{+0.025}_{-0.027} \quad (+0.6\sigma)$
$\Omega_m h^2$	0.1401	$0.1400^{+0.0052}_{-0.0050} \quad (-0.4\sigma)$	r_*	145.15	$145.2^{+1.3}_{-1.3} \quad (+0.4\sigma)$	$f\sigma_8(0.38)$	0.4634	$0.462^{+0.027}_{-0.028} \quad (+0.2\sigma)$
$\Omega_m h^3$	0.09620	$0.0962^{+0.0014}_{-0.0014} \quad (-0.3\sigma)$	$100\theta_*$	1.04158	$1.0416^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	0.6589	$0.658^{+0.021}_{-0.023} \quad (+0.7\sigma)$
σ_8	0.8009	$0.799^{+0.029}_{-0.031} \quad (+0.6\sigma)$	$D_M(z_*)/\text{Gpc}$	13.935	$13.94^{+0.12}_{-0.12} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	0.4638	$0.463^{+0.024}_{-0.025} \quad (+0.3\sigma)$
S_8	0.797	$0.795^{+0.064}_{-0.062} \quad (+0.0\sigma)$	z_{drag}	1059.93	$1060.0^{+1.4}_{-1.4} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6173	$0.616^{+0.020}_{-0.021} \quad (+0.8\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4364	$0.435^{+0.035}_{-0.034} \quad (+0.0\sigma)$	r_{drag}	147.79	$147.8^{+1.3}_{-1.3} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	0.4600	$0.459^{+0.022}_{-0.023} \quad (+0.3\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5912	$0.590^{+0.033}_{-0.033} \quad (+0.2\sigma)$	k_D	0.14021	$0.1402^{+0.0016}_{-0.0015} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5878	$0.587^{+0.018}_{-0.020} \quad (+0.8\sigma)$
$\sigma_8/h^{0.5}$	0.9664	$0.964^{+0.047}_{-0.047} \quad (+0.3\sigma)$	$100\theta_D$	0.16079	$0.16078^{+0.00086}_{-0.00079} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2970	$0.2964^{+0.0092}_{-0.0098} \quad (+0.9\sigma)$
$r_{drag} h$	101.50	$101.6^{+4.2}_{-4.2} \quad (+0.3\sigma)$	z_{eq}	3332	$3331^{+120}_{-120} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	0.3068	$0.3063^{+0.0097}_{-0.010} \quad (+0.9\sigma)$
$\langle d^2 \rangle^{1/2}$	2.376	$2.37^{+0.11}_{-0.11} \quad (-0.3\sigma)$	k_{eq}	0.010169	$0.01017^{+0.00038}_{-0.00037} \quad (-0.4\sigma)$	χ_{small}^2	395.67	$396.9 \quad (\nu: 1.3) \quad (+0.0\sigma)$
z_{re}	7.36	$7.2^{+2.2}_{-3.1} \quad (+0.1\sigma)$	$100\theta_{eq}$	0.8267	$0.827^{+0.024}_{-0.023} \quad (+0.4\sigma)$	$\chi_{CamSpec}^2$	2575.9	$2581.0 \quad (\nu: 5.1)$
$10^9 A_s$	2.079	$2.07^{+0.11}_{-0.12} \quad (+0.7\sigma)$	$100\theta_{s,eq}$	0.4563	$0.457^{+0.012}_{-0.012} \quad (+0.4\sigma)$	χ_{prior}^2	10.03	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_s e^{-2\tau}$	1.874	$1.873^{+0.050}_{-0.050} \quad (+1.2\sigma)$	$H(0.15)$	73.80	$73.8^{+2.1}_{-2.0} \quad (+0.3\sigma)$	χ_{CMB}^2	2971.6	$2977.9 \quad (\nu: 6.5) \quad (+434.6\sigma)$
D_{40}	1201	$1200^{+67}_{-68} \quad (-0.5\sigma)$	$D_M(0.15)$	632.3	$632^{+20}_{-20} \quad (-0.3\sigma)$			

Best-fit $\chi_{eff}^2 = 2981.64$; $\Delta\chi_{eff}^2 = 1732.66$; $\bar{\chi}_{eff}^2 = 2988.91$; $\Delta\bar{\chi}_{eff}^2 = 1724.91$; $R - 1 = 0.00640$

χ_{eff}^2 : CMB - small_100x143_offlike5_EE_Aplanck_B: 395.67 (Δ -0.02) CamSpec like_10.7HM_1400_unified: 2575.95

2.30 base_CamSpecHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00066}_{-0.00064} \quad (-0.0\sigma)$	D_{220}	$5716^{+150}_{-160} \quad (+0.4\sigma)$	$H(0.38)$	$83.7^{+1.6}_{-1.5} \quad (+0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1168^{+0.0053}_{-0.0052} \quad (-0.4\sigma)$	D_{810}	$2547^{+66}_{-65} \quad (+1.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1510^{+41}_{-40} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	D_{1420}	$825^{+31}_{-31} \quad (+1.5\sigma)$	$H(0.51)$	$90.3^{+1.3}_{-1.2} \quad (+0.2\sigma)$
τ	$0.054^{+0.018}_{-0.011} \quad (+0.1\sigma)$	D_{2000}	$234^{+11}_{-11} \quad (+1.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1959^{+48}_{-47} \quad (-0.3\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.037^{+0.048}_{-0.037} \quad (+0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.979^{+0.029}_{-0.028} \quad (+1.0\sigma)$	$H(0.61)$	$95.8^{+1.0}_{-0.98} \quad (+0.2\sigma)$
n_{s}	$0.979^{+0.029}_{-0.028} \quad (+1.0\sigma)$	Y_{P}	$0.24544^{+0.00028}_{-0.00028} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2281^{+51}_{-51} \quad (-0.3\sigma)$
y_{cal}	$0.99997^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00028}_{-0.00028} \quad (-0.0\sigma)$	$H(2.33)$	$234.6^{+3.3}_{-3.2} \quad (-0.4\sigma)$
H_0	$68.8^{+2.4}_{-2.4} \quad (+0.3\sigma)$	$10^5 D/H$	$2.56^{+0.12}_{-0.12} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5744^{+45}_{-45} \quad (-0.1\sigma)$
Ω_{Λ}	$0.704^{+0.029}_{-0.033} \quad (+0.3\sigma)$	Age/Gyr	$13.76^{+0.10}_{-0.097} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.442^{+0.033}_{-0.032} \quad (+0.1\sigma)$
Ω_{m}	$0.296^{+0.033}_{-0.029} \quad (-0.3\sigma)$	z_*	$1089.5^{+1.1}_{-1.1} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.024}_{-0.023} \quad (+0.7\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1400^{+0.0052}_{-0.0050} \quad (-0.4\sigma)$	r_*	$145.2^{+1.3}_{-1.3} \quad (+0.4\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.027} \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0962^{+0.0014}_{-0.0014} \quad (-0.3\sigma)$	$100\theta_*$	$1.0416^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.020}_{-0.018} \quad (+0.8\sigma)$
σ_8	$0.802^{+0.027}_{-0.027} \quad (+0.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.12}_{-0.12} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.023}_{-0.024} \quad (+0.3\sigma)$
S_8	$0.797^{+0.064}_{-0.061} \quad (+0.0\sigma)$	z_{drag}	$1060.0^{+1.4}_{-1.4} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.018}_{-0.016} \quad (+0.9\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.436^{+0.035}_{-0.033} \quad (+0.0\sigma)$	r_{drag}	$147.8^{+1.3}_{-1.3} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.021}_{-0.021} \quad (+0.3\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.033}_{-0.032} \quad (+0.2\sigma)$	k_{D}	$0.1402^{+0.0015}_{-0.0015} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.017}_{-0.015} \quad (+0.9\sigma)$
$\sigma_8/h^{0.5}$	$0.967^{+0.045}_{-0.044} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.16077^{+0.00086}_{-0.00079} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0085}_{-0.0073} \quad (+1.0\sigma)$
$r_{\mathrm{drag}}h$	$101.6^{+4.2}_{-4.2} \quad (+0.3\sigma)$	z_{eq}	$3329^{+120}_{-120} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0088}_{-0.0073} \quad (+1.1\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.38^{+0.10}_{-0.11} \quad (-0.3\sigma)$	k_{eq}	$0.01016^{+0.00038}_{-0.00037} \quad (-0.4\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.7) \quad (+0.0\sigma)$
z_{re}	$< 9.22 \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.024}_{-0.023} \quad (+0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$2581.0 \quad (\nu: 5.1)$
$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.077} \quad (+0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.012}_{-0.012} \quad (+0.4\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.873^{+0.050}_{-0.049} \quad (+1.2\sigma)$	$H(0.15)$	$73.9^{+2.1}_{-2.1} \quad (+0.3\sigma)$	χ_{CMB}^2	$2977.5 \quad (\nu: 5.8) \quad (+446.9\sigma)$
D_{40}	$1199^{+66}_{-68} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$632^{+20}_{-19} \quad (-0.3\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2988.52$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 1724.88$; $R - 1 = 0.00517$

2.31 base_CamSpecHM_EE_lowE

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02320	$0.0233^{+0.0033}_{-0.0028}$	(-0.6σ)	D_{220}	5947	5950^{+520}_{-490}	(-0.0σ)	$H(0.38)$	83.13	$83.3^{+5.2}_{-4.3}$	(-0.7σ)
$\Omega_c h^2$	0.1197	$0.119^{+0.012}_{-0.012}$	$(+0.7\sigma)$	D_{810}	2598	2597^{+100}_{-100}	$(+0.2\sigma)$	$D_M(0.38)$	1528	1525^{+120}_{-120}	$(+0.8\sigma)$
$100\theta_{MC}$	1.03933	$1.0393^{+0.0023}_{-0.0022}$	(-0.8σ)	D_{1420}	839.2	840^{+48}_{-48}	(-0.2σ)	$H(0.51)$	89.90	$90.1^{+4.5}_{-3.5}$	(-0.7σ)
τ	0.0500	$0.050^{+0.023}_{-0.025}$	(-0.3σ)	D_{2000}	238.6	239^{+18}_{-18}	(-0.3σ)	$D_M(0.51)$	1979	1975^{+140}_{-150}	$(+0.8\sigma)$
$\ln(10^{10} A_s)$	3.058	$3.058^{+0.057}_{-0.059}$	$(+0.3\sigma)$	$n_{s,0.002}$	0.9650	$0.967^{+0.036}_{-0.033}$	(-0.9σ)	$H(0.61)$	95.55	$95.7^{+3.9}_{-3.0}$	(-0.7σ)
n_s	0.9650	$0.967^{+0.036}_{-0.033}$	(-0.9σ)	Y_P	0.24574	$0.2458^{+0.0012}_{-0.0012}$	(-0.6σ)	$D_M(0.61)$	2302	2298^{+150}_{-160}	$(+0.8\sigma)$
y_{cal}	0.99999	$1.0000^{+0.0064}_{-0.0064}$	$(+0.0\sigma)$	Y_P^{BBN}	0.24707	$0.2471^{+0.0012}_{-0.0012}$	(-0.6σ)	$H(2.33)$	237.0	$236.8^{+5.9}_{-5.3}$	$(+0.7\sigma)$
H_0	67.6	$67.9^{+7.3}_{-6.4}$	(-0.8σ)	$10^5 D/H$	2.44	$2.44^{+0.55}_{-0.48}$	$(+0.6\sigma)$	$D_M(2.33)$	5748	5743^{+150}_{-180}	$(+0.7\sigma)$
Ω_Λ	0.686	$0.687^{+0.076}_{-0.092}$	(-0.8σ)	Age/Gyr	13.760	$13.75^{+0.35}_{-0.41}$	$(+0.7\sigma)$	$f\sigma_8(0.15)$	0.459	$0.456^{+0.077}_{-0.076}$	$(+0.8\sigma)$
Ω_m	0.314	$0.313^{+0.092}_{-0.076}$	$(+0.8\sigma)$	z_*	1088.88	$1088.8^{+4.7}_{-4.3}$	$(+0.6\sigma)$	$\sigma_8(0.15)$	0.7490	$0.747^{+0.035}_{-0.040}$	$(+0.7\sigma)$
$\Omega_m h^2$	0.1435	$0.143^{+0.010}_{-0.0095}$	$(+0.7\sigma)$	r_*	143.89	$143.9^{+1.7}_{-1.7}$	(-0.5σ)	$f\sigma_8(0.38)$	0.476	$0.474^{+0.057}_{-0.061}$	$(+0.8\sigma)$
$\Omega_m h^3$	0.09705	$0.0971^{+0.0047}_{-0.0040}$	(-0.6σ)	$100\theta_*$	1.03943	$1.0394^{+0.0022}_{-0.0021}$	(-0.7σ)	$\sigma_8(0.38)$	0.6637	$0.662^{+0.025}_{-0.029}$	$(+0.6\sigma)$
σ_8	0.8108	$0.809^{+0.044}_{-0.050}$	$(+0.7\sigma)$	$D_M(z_*)/\text{Gpc}$	13.843	$13.85^{+0.16}_{-0.16}$	(-0.4σ)	$f\sigma_8(0.51)$	0.475	$0.473^{+0.047}_{-0.053}$	$(+0.8\sigma)$
S_8	0.829	$0.83^{+0.16}_{-0.15}$	$(+0.8\sigma)$	z_{drag}	1061.8	$1061.9^{+6.3}_{-5.9}$	(-0.6σ)	$\sigma_8(0.51)$	0.6210	$0.620^{+0.021}_{-0.024}$	$(+0.5\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.454	$0.452^{+0.086}_{-0.080}$	$(+0.8\sigma)$	r_{drag}	146.27	$146.3^{+1.8}_{-1.7}$	(-0.2σ)	$f\sigma_8(0.61)$	0.4696	$0.468^{+0.040}_{-0.046}$	$(+0.8\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.607	$0.604^{+0.072}_{-0.072}$	$(+0.8\sigma)$	k_D	0.14235	$0.1423^{+0.0032}_{-0.0032}$	(-0.2σ)	$\sigma_8(0.61)$	0.5908	$0.590^{+0.020}_{-0.022}$	$(+0.5\sigma)$
$\sigma_8/h^{0.5}$	0.986	$0.982^{+0.098}_{-0.10}$	$(+0.8\sigma)$	$100\theta_D$	0.15943	$0.1594^{+0.0037}_{-0.0031}$	$(+0.5\sigma)$	$f\sigma_8(2.33)$	0.2978	$0.2974^{+0.0094}_{-0.0095}$	$(+0.3\sigma)$
$r_{drag} h$	98.9	$99.3^{+11}_{-9.6}$	(-0.8σ)	z_{eq}	3414	3405^{+240}_{-230}	$(+0.7\sigma)$	$\sigma_8(2.33)$	0.3069	$0.3067^{+0.0098}_{-0.0097}$	(-0.1σ)
$\langle d^2 \rangle^{1/2}$	2.457	$2.45^{+0.19}_{-0.20}$	$(+1.0\sigma)$	k_{eq}	0.01042	$0.01039^{+0.00073}_{-0.00070}$	$(+0.7\sigma)$	χ_{small}^2	395.62	$396.8 (\nu: 1.2)$	$(+0.1\sigma)$
z_{re}	7.06	$7.1^{+2.1}_{-2.7}$	(-0.1σ)	$100\theta_{eq}$	0.8123	$0.814^{+0.052}_{-0.047}$	(-0.8σ)	$\chi_{CamSpec}^2$	1886.5	$1891.5 (\nu: 4.9)$	
$10^9 A_s$	2.129	$2.13^{+0.12}_{-0.12}$	$(+0.3\sigma)$	$100\theta_{s,eq}$	0.4482	$0.449^{+0.025}_{-0.023}$	(-0.8σ)	χ_{prior}^2	10.03	$11.0 (\nu: 1.0)$	$(+7.3\sigma)$
$10^9 A_s e^{-2\tau}$	1.926	$1.925^{+0.062}_{-0.061}$	$(+0.9\sigma)$	$H(0.15)$	73.0	$73.2^{+6.5}_{-5.6}$	(-0.7σ)	χ_{CMB}^2	2282.1	$2288.3 (\nu: 6.1)$	$(+332.7\sigma)$
D_{40}	1265	1260^{+80}_{-77}	$(+1.0\sigma)$	$D_M(0.15)$	641	639^{+59}_{-58}	$(+0.8\sigma)$				

Best-fit $\chi_{\text{eff}}^2 = 2292.16$; $\Delta\chi_{\text{eff}}^2 = 1157.61$; $\bar{\chi}_{\text{eff}}^2 = 2299.35$; $\Delta\bar{\chi}_{\text{eff}}^2 = 1157.74$; $R - 1 = 0.00959$

χ_{eff}^2 : CMB - small_100x143_offlike5_EE_Aplanck_B: 395.62 (Δ 0.02) CamSpec like_10.7HM_1400_unified: 1886.52

2.32 base_CamSpecHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0233^{+0.0033}_{-0.0028} \quad (-0.6\sigma)$	D_{220}	$5943^{+510}_{-490} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+5.3}_{-4.2} \quad (-0.7\sigma)$
$\Omega_{\text{c}}h^2$	$0.119^{+0.012}_{-0.012} \quad (+0.7\sigma)$	D_{810}	$2596^{+100}_{-100} \quad (+0.2\sigma)$	$D_{\text{M}}(0.38)$	$1525^{+120}_{-120} \quad (+0.8\sigma)$
$100\theta_{\text{MC}}$	$1.0393^{+0.0023}_{-0.0022} \quad (-0.8\sigma)$	D_{1420}	$839^{+47}_{-47} \quad (-0.2\sigma)$	$H(0.51)$	$90.0^{+4.6}_{-3.5} \quad (-0.7\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (-0.3\sigma)$	D_{2000}	$239^{+18}_{-18} \quad (-0.3\sigma)$	$D_{\text{M}}(0.51)$	$1976^{+140}_{-150} \quad (+0.8\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.065^{+0.052}_{-0.046} \quad (+0.4\sigma)$	$n_{\text{s},0.002}$	$0.968^{+0.037}_{-0.033} \quad (-0.9\sigma)$	$H(0.61)$	$95.7^{+4.0}_{-2.9} \quad (-0.7\sigma)$
n_{s}	$0.968^{+0.037}_{-0.033} \quad (-0.9\sigma)$	Y_{P}	$0.2457^{+0.0013}_{-0.0012} \quad (-0.6\sigma)$	$D_{\text{M}}(0.61)$	$2299^{+150}_{-160} \quad (+0.8\sigma)$
y_{cal}	$1.0000^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	$Y_{\text{P}}^{\text{BBN}}$	$0.2471^{+0.0013}_{-0.0012} \quad (-0.6\sigma)$	$H(2.33)$	$236.8^{+5.9}_{-5.4} \quad (+0.7\sigma)$
H_0	$67.9^{+7.4}_{-6.4} \quad (-0.8\sigma)$	$10^5 D/\text{H}$	$2.44^{+0.55}_{-0.49} \quad (+0.6\sigma)$	$D_{\text{M}}(2.33)$	$5744^{+150}_{-180} \quad (+0.7\sigma)$
Ω_{Λ}	$0.687^{+0.076}_{-0.091} \quad (-0.8\sigma)$	Age/Gyr	$13.75^{+0.35}_{-0.41} \quad (+0.7\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.077}_{-0.076} \quad (+0.8\sigma)$
Ω_{m}	$0.313^{+0.091}_{-0.076} \quad (+0.8\sigma)$	z_*	$1088.9^{+4.7}_{-4.3} \quad (+0.7\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.033}_{-0.037} \quad (+0.7\sigma)$
$\Omega_{\text{m}}h^2$	$0.143^{+0.010}_{-0.0096} \quad (+0.7\sigma)$	r_*	$144.0^{+1.7}_{-1.7} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.057}_{-0.061} \quad (+0.8\sigma)$
$\Omega_{\text{m}}h^3$	$0.0970^{+0.0047}_{-0.0040} \quad (-0.6\sigma)$	$100\theta_*$	$1.0394^{+0.0022}_{-0.0021} \quad (-0.8\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.023}_{-0.025} \quad (+0.7\sigma)$
σ_8	$0.812^{+0.043}_{-0.047} \quad (+0.8\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.85^{+0.16}_{-0.16} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.047}_{-0.053} \quad (+0.8\sigma)$
S_8	$0.83^{+0.16}_{-0.15} \quad (+0.8\sigma)$	z_{drag}	$1061.8^{+6.4}_{-5.8} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.020}_{-0.020} \quad (+0.6\sigma)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.454^{+0.086}_{-0.081} \quad (+0.8\sigma)$	r_{drag}	$146.3^{+1.8}_{-1.7} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.040}_{-0.047} \quad (+0.8\sigma)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.607^{+0.072}_{-0.072} \quad (+0.8\sigma)$	k_{D}	$0.1423^{+0.0032}_{-0.0032} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.018}_{-0.018} \quad (+0.6\sigma)$
$\sigma_8/h^{0.5}$	$0.986^{+0.099}_{-0.10} \quad (+0.8\sigma)$	$100\theta_{\text{D}}$	$0.1595^{+0.0037}_{-0.0031} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2984^{+0.0086}_{-0.0074} \quad (+0.3\sigma)$
$r_{\text{drag}}h$	$99.3^{+11}_{-9.6} \quad (-0.8\sigma)$	z_{eq}	$3405^{+240}_{-230} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3078^{+0.0092}_{-0.0080} \quad (-0.0\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.46^{+0.19}_{-0.20} \quad (+1.0\sigma)$	k_{eq}	$0.01039^{+0.00073}_{-0.00070} \quad (+0.7\sigma)$	χ_{simall}^2	$396.5 \quad (\nu: 1.0) \quad (+0.1\sigma)$
z_{re}	$< 9.07 \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.814^{+0.052}_{-0.047} \quad (-0.8\sigma)$	χ_{CamSpec}^2	$1891.4 \quad (\nu: 4.8)$
$10^9 A_{\text{s}}$	$2.14^{+0.11}_{-0.096} \quad (+0.4\sigma)$	$100\theta_{\text{s,eq}}$	$0.449^{+0.025}_{-0.023} \quad (-0.8\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+7.2\sigma)$
$10^9 A_{\text{s}}e^{-2\tau}$	$1.924^{+0.062}_{-0.061} \quad (+0.9\sigma)$	$H(0.15)$	$73.2^{+6.6}_{-5.6} \quad (-0.8\sigma)$	χ_{CMB}^2	$2287.9 \quad (\nu: 5.7) \quad (+338.0\sigma)$
D_{40}	$1260^{+79}_{-77} \quad (+1.0\sigma)$	$D_{\text{M}}(0.15)$	$640^{+59}_{-59} \quad (+0.8\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 2298.97; \Delta\bar{\chi}_{\text{eff}}^2 = 1157.66; R - 1 = 0.00869$$

2.33 base_plikHM_TE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02242	$0.02245^{+0.00059}_{-0.00060}$	z_{re}	7.08	$7.0^{+2.1}_{-3.3}$	$H(0.38)$	83.35	$83.40^{+0.92}_{-0.91}$
$\Omega_c h^2$	0.11820	$0.1181^{+0.0031}_{-0.0031}$	$10^9 A_s$	2.042	$2.04^{+0.11}_{-0.12}$	$D_M(0.38)$	1519.9	1519^{+24}_{-23}
$100\theta_{\text{MC}}$	1.04130	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s e^{-2\tau}$	1.8520	$1.854^{+0.044}_{-0.043}$	$H(0.51)$	89.99	$90.04^{+0.78}_{-0.77}$
τ	0.0488	$0.049^{+0.022}_{-0.028}$	D_{40}	1218	1217^{+62}_{-59}	$D_M(0.51)$	1970.1	1969^{+28}_{-28}
$\ln(10^{10} A_s)$	3.017	$3.017^{+0.050}_{-0.061}$	D_{220}	5692	5695^{+150}_{-140}	$H(0.61)$	95.56	$95.60^{+0.68}_{-0.68}$
n_s	0.9641	$0.965^{+0.026}_{-0.026}$	D_{810}	2504	2507^{+62}_{-63}	$D_M(0.61)$	2293.5	2292^{+31}_{-30}
y_{cal}	0.9998	$1.0000^{+0.0065}_{-0.0064}$	D_{1420}	804.8	806^{+29}_{-30}	$H(2.33)$	235.46	$235.5^{+2.1}_{-2.0}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.095}$	D_{2000}	226.8	227^{+11}_{-11}	$D_M(2.33)$	5752.2	5750^{+35}_{-33}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.136^{+0.077}_{-0.076}$	$n_{s,0.002}$	0.9641	$0.965^{+0.026}_{-0.026}$	$f\sigma_8(0.15)$	0.4428	$0.443^{+0.022}_{-0.021}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.22}$	Y_P	0.245416	$0.24542^{+0.00024}_{-0.00026}$	$\sigma_8(0.15)$	0.7343	$0.735^{+0.024}_{-0.024}$
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	Y_P^{BBN}	0.246742	$0.24675^{+0.00025}_{-0.00026}$	$f\sigma_8(0.38)$	0.4624	$0.462^{+0.020}_{-0.019}$
$A_{143 \times 217}^{\text{dustTE}}$	0.658	$0.66^{+0.21}_{-0.21}$	$10^5 D/H$	2.576	$2.57^{+0.11}_{-0.11}$	$\sigma_8(0.38)$	0.6517	$0.652^{+0.021}_{-0.021}$
A_{217}^{dustTE}	2.04	$2.04^{+0.70}_{-0.68}$	Age/Gyr	13.773	$13.769^{+0.082}_{-0.077}$	$f\sigma_8(0.51)$	0.4619	$0.462^{+0.018}_{-0.018}$
c_{100}	1.00016	$1.0002^{+0.0019}_{-0.0018}$	z_*	1089.70	$1089.66^{+0.84}_{-0.81}$	$\sigma_8(0.51)$	0.6102	$0.611^{+0.019}_{-0.020}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0016}$	r_*	144.86	$144.85^{+0.85}_{-0.87}$	$f\sigma_8(0.61)$	0.4576	$0.458^{+0.017}_{-0.017}$
H_0	68.16	$68.2^{+1.4}_{-1.4}$	$100\theta_*$	1.04148	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(0.61)$	0.5809	$0.581^{+0.018}_{-0.019}$
Ω_Λ	0.6959	$0.696^{+0.018}_{-0.019}$	$D_M(z_*)/\text{Gpc}$	13.909	$13.908^{+0.083}_{-0.085}$	$f\sigma_8(2.33)$	0.2932	$0.2934^{+0.0090}_{-0.0098}$
Ω_m	0.3041	$0.304^{+0.019}_{-0.018}$	z_{drag}	1059.93	$1060.0^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	0.3026	$0.3028^{+0.0092}_{-0.010}$
$\Omega_m h^2$	0.14126	$0.1412^{+0.0031}_{-0.0030}$	r_{drag}	147.51	$147.50^{+0.96}_{-0.97}$	χ_{small}^2	395.66	$396.9 (\nu: 1.4)$
$\Omega_m h^3$	0.09629	$0.0963^{+0.0014}_{-0.0014}$	k_D	0.14046	$0.1405^{+0.0013}_{-0.0013}$	χ_{plikTE}^2	852.9	$859.3 (\nu: 6.1)$
σ_8	0.7939	$0.794^{+0.026}_{-0.027}$	$100\theta_D$	0.16080	$0.16077^{+0.00081}_{-0.00077}$	$\chi_{6\text{DF}}^2$	0.000	$0.037 (\nu: 0.0)$
S_8	0.7992	$0.799^{+0.043}_{-0.039}$	z_{eq}	3360	3360^{+75}_{-73}	χ_{MGS}^2	1.75	$1.85 (\nu: 0.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4377	$0.438^{+0.023}_{-0.022}$	k_{eq}	0.010256	$0.01025^{+0.00023}_{-0.00022}$	χ_{DR12BAO}^2	3.44	$3.98 (\nu: 0.4)$
$\sigma_8 \Omega_m^{0.25}$	0.5895	$0.590^{+0.025}_{-0.023}$	$100\theta_{\text{eq}}$	0.8213	$0.822^{+0.014}_{-0.013}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.9)$
$\sigma_8/h^{0.5}$	0.9616	$0.962^{+0.036}_{-0.035}$	$100\theta_{s,\text{eq}}$	0.4535	$0.4537^{+0.0072}_{-0.0070}$	χ_{BAO}^2	5.19	$5.87 (\nu: 0.4)$
$r_{\text{drag}} h$	100.55	$100.6^{+2.4}_{-2.4}$	$H(0.15)$	73.37	$73.4^{+1.2}_{-1.2}$	χ_{CMB}^2	1248.6	$1256.1 (\nu: 7.4)$
$\langle d^2 \rangle^{1/2}$	2.395	$2.393^{+0.084}_{-0.085}$	$D_M(0.15)$	636.6	636^{+12}_{-12}			

Best-fit $\chi_{\text{eff}}^2 = 1254.23$; $\bar{\chi}_{\text{eff}}^2 = 1269.42$; $R - 1 = 0.00891$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.44 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.66 plik_rd12_HM_v22_TE: 852.93

2.34 base_plikHM_TE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00061}_{-0.00061}$	z_{re}	$7.7^{+2.0}_{-2.0}$	$H(0.38)$	$83.28^{+0.94}_{-0.91}$
$\Omega_c h^2$	$0.1189^{+0.0028}_{-0.0029}$	$10^9 A_s$	$2.087^{+0.087}_{-0.078}$	$D_M(0.38)$	1523^{+24}_{-24}
$100\theta_{\text{MC}}$	$1.0413^{+0.0012}_{-0.0013}$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.035}_{-0.035}$	$H(0.51)$	$89.97^{+0.79}_{-0.77}$
τ	$0.055^{+0.020}_{-0.019}$	D_{40}	1222^{+59}_{-61}	$D_M(0.51)$	1973^{+28}_{-28}
$\ln(10^{10} A_s)$	$3.038^{+0.041}_{-0.038}$	D_{220}	5721^{+140}_{-130}	$H(0.61)$	$95.56^{+0.71}_{-0.66}$
n_s	$0.968^{+0.025}_{-0.024}$	D_{810}	2529^{+55}_{-53}	$D_M(0.61)$	2297^{+31}_{-31}
y_{cal}	$1.0005^{+0.0062}_{-0.0069}$	D_{1420}	815^{+24}_{-26}	$H(2.33)$	$236.0^{+1.8}_{-1.8}$
A_{100}^{dustTE}	$0.113^{+0.096}_{-0.094}$	D_{2000}	$230.4^{+9.2}_{-9.3}$	$D_M(2.33)$	5750^{+34}_{-35}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.071}_{-0.072}$	$n_{\text{s},0.002}$	$0.968^{+0.025}_{-0.024}$	$f\sigma_8(0.15)$	$0.452^{+0.017}_{-0.016}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.20}$	Y_{P}	$0.24545^{+0.00026}_{-0.00026}$	$\sigma_8(0.15)$	$0.745^{+0.018}_{-0.016}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00026}_{-0.00026}$	$f\sigma_8(0.38)$	$0.471^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.22}_{-0.21}$	10^5D/H	$2.56^{+0.12}_{-0.11}$	$\sigma_8(0.38)$	$0.661^{+0.014}_{-0.014}$
A_{217}^{dustTE}	$2.06^{+0.72}_{-0.69}$	Age/Gyr	$13.768^{+0.078}_{-0.080}$	$f\sigma_8(0.51)$	$0.470^{+0.013}_{-0.012}$
c_{100}	$1.0002^{+0.0018}_{-0.0020}$	z_*	$1089.65^{+0.92}_{-0.85}$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.013}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	r_*	$144.61^{+0.75}_{-0.75}$	$f\sigma_8(0.61)$	$0.465^{+0.013}_{-0.011}$
H_0	$68.0^{+1.4}_{-1.3}$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.012}$
Ω_Λ	$0.693^{+0.018}_{-0.017}$	$D_M(z_*)/\text{Gpc}$	$13.885^{+0.073}_{-0.075}$	$f\sigma_8(2.33)$	$0.2970^{+0.0071}_{-0.0065}$
Ω_{m}	$0.307^{+0.017}_{-0.018}$	z_{drag}	$1060.2^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	$0.3063^{+0.0071}_{-0.0070}$
$\Omega_{\text{m}} h^2$	$0.1421^{+0.0027}_{-0.0028}$	r_{drag}	$147.23^{+0.85}_{-0.91}$	χ^2_{lensing}	$10.5 (\nu: 1.7)$
$\Omega_{\text{m}} h^3$	$0.0966^{+0.0012}_{-0.0013}$	k_{D}	$0.1408^{+0.0012}_{-0.0012}$	χ^2_{simall}	$397.0 (\nu: 1.4)$
σ_8	$0.806^{+0.020}_{-0.017}$	$100\theta_{\text{D}}$	$0.16066^{+0.00077}_{-0.00077}$	χ^2_{plikTE}	$860.0 (\nu: 6.3)$
S_8	$0.816^{+0.033}_{-0.032}$	z_{eq}	3379^{+66}_{-67}	$\chi^2_{6\text{DF}}$	$0.038 (\nu: 0.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.447^{+0.018}_{-0.018}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	χ^2_{MGS}	$1.52 (\nu: 0.1)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	$0.818^{+0.013}_{-0.012}$	χ^2_{DR12BAO}	$4.3 (\nu: 0.7)$
$\sigma_8/h^{0.5}$	$0.977^{+0.026}_{-0.024}$	$100\theta_{\text{s,eq}}$	$0.4518^{+0.0064}_{-0.0060}$	χ^2_{prior}	$7.4 (\nu: 6.5)$
$r_{\text{drag}} h$	$100.1^{+2.3}_{-2.1}$	$H(0.15)$	$73.2^{+1.2}_{-1.2}$	χ^2_{CMB}	$1267.4 (\nu: 7.2)$
$\langle d^2 \rangle^{1/2}$	$2.421^{+0.068}_{-0.074}$	$D_M(0.15)$	638^{+12}_{-12}	χ^2_{BAO}	$5.87 (\nu: 0.4)$

$$\bar{\chi}^2_{\text{eff}} = 1280.69; R - 1 = 0.02724$$

2.35 base_plikHM_TE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02246^{+0.00059}_{-0.00061}$	z_{re}	< 9.07	$H(0.38)$	$83.41^{+0.92}_{-0.93}$
$\Omega_c h^2$	$0.1181^{+0.0032}_{-0.0031}$	$10^9 A_s$	$2.059^{+0.094}_{-0.069}$	$D_M(0.38)$	1519^{+24}_{-24}
$100\theta_{\text{MC}}$	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s e^{-2\tau}$	$1.854^{+0.044}_{-0.044}$	$H(0.51)$	$90.05^{+0.78}_{-0.78}$
τ	$0.052^{+0.017}_{-0.010}$	D_{40}	1216^{+61}_{-59}	$D_M(0.51)$	1968^{+28}_{-28}
$\ln(10^{10} A_s)$	$3.025^{+0.045}_{-0.034}$	D_{220}	5694^{+150}_{-140}	$H(0.61)$	$95.61^{+0.67}_{-0.68}$
n_s	$0.966^{+0.025}_{-0.025}$	D_{810}	2508^{+61}_{-64}	$D_M(0.61)$	2292^{+31}_{-30}
y_{cal}	$1.0000^{+0.0065}_{-0.0065}$	D_{1420}	807^{+29}_{-30}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	D_{2000}	228^{+11}_{-11}	$D_M(2.33)$	5750^{+35}_{-33}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.077}_{-0.075}$	$n_{\text{s},0.002}$	$0.966^{+0.025}_{-0.025}$	$f\sigma_8(0.15)$	$0.444^{+0.022}_{-0.020}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	Y_{P}	$0.24543^{+0.00025}_{-0.00026}$	$\sigma_8(0.15)$	$0.738^{+0.022}_{-0.018}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24675^{+0.00025}_{-0.00026}$	$f\sigma_8(0.38)$	$0.464^{+0.019}_{-0.017}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	10^5D/H	$2.57^{+0.12}_{-0.11}$	$\sigma_8(0.38)$	$0.655^{+0.019}_{-0.015}$
A_{217}^{dustTE}	$2.04^{+0.70}_{-0.68}$	Age/Gyr	$13.768^{+0.081}_{-0.078}$	$f\sigma_8(0.51)$	$0.464^{+0.017}_{-0.015}$
c_{100}	$1.0002^{+0.0019}_{-0.0018}$	z_*	$1089.64^{+0.85}_{-0.81}$	$\sigma_8(0.51)$	$0.613^{+0.017}_{-0.014}$
c_{217}	$0.9980^{+0.0017}_{-0.0016}$	r_*	$144.85^{+0.88}_{-0.86}$	$f\sigma_8(0.61)$	$0.459^{+0.016}_{-0.014}$
H_0	$68.2^{+1.4}_{-1.4}$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(0.61)$	$0.584^{+0.016}_{-0.013}$
Ω_Λ	$0.697^{+0.018}_{-0.019}$	$D_M(z_*)/\text{Gpc}$	$13.908^{+0.085}_{-0.085}$	$f\sigma_8(2.33)$	$0.2945^{+0.0082}_{-0.0067}$
Ω_{m}	$0.303^{+0.019}_{-0.018}$	z_{drag}	$1060.0^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	$0.3040^{+0.0084}_{-0.0068}$
$\Omega_{\text{m}} h^2$	$0.1412^{+0.0031}_{-0.0031}$	r_{drag}	$147.49^{+0.98}_{-0.97}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
$\Omega_{\text{m}} h^3$	$0.0964^{+0.0014}_{-0.0013}$	k_{D}	$0.1405^{+0.0013}_{-0.0014}$	χ_{plikTE}^2	$859.3 (\nu: 6.0)$
σ_8	$0.797^{+0.024}_{-0.020}$	$100\theta_{\text{D}}$	$0.16076^{+0.00082}_{-0.00076}$	$\chi_{6\text{DF}}^2$	$0.038 (\nu: 0.0)$
S_8	$0.802^{+0.042}_{-0.038}$	z_{eq}	3359^{+75}_{-73}	χ_{MGS}^2	$1.87 (\nu: 0.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.439^{+0.023}_{-0.021}$	k_{eq}	$0.01025^{+0.00023}_{-0.00022}$	χ_{DR12BAO}^2	$3.98 (\nu: 0.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.592^{+0.024}_{-0.021}$	$100\theta_{\text{eq}}$	$0.822^{+0.014}_{-0.014}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
$\sigma_8/h^{0.5}$	$0.965^{+0.035}_{-0.030}$	$100\theta_{\text{s,eq}}$	$0.4537^{+0.0072}_{-0.0071}$	χ_{BAO}^2	$5.89 (\nu: 0.5)$
$r_{\text{drag}} h$	$100.7^{+2.5}_{-2.4}$	$H(0.15)$	$73.4^{+1.2}_{-1.2}$	χ_{CMB}^2	$1255.7 (\nu: 6.7)$
$\langle d^2 \rangle^{1/2}$	$2.399^{+0.080}_{-0.073}$	$D_M(0.15)$	636^{+12}_{-12}		

$$\bar{\chi}_{\text{eff}}^2 = 1269.00; R - 1 = 0.00969$$

2.36 base_plikHM_TE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00061}_{-0.00061}$	z_{re}	< 9.47	$H(0.38)$	$83.29^{+0.93}_{-0.92}$
$\Omega_{\mathrm{c}}h^2$	$0.1189^{+0.0028}_{-0.0029}$	$10^9 A_{\mathrm{s}}$	$2.091^{+0.084}_{-0.062}$	$D_{\mathrm{M}}(0.38)$	1522^{+24}_{-24}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0012}_{-0.0013}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.871^{+0.036}_{-0.035}$	$H(0.51)$	$89.97^{+0.79}_{-0.77}$
τ	$0.056^{+0.018}_{-0.014}$	D_{40}	1222^{+59}_{-61}	$D_{\mathrm{M}}(0.51)$	1973^{+28}_{-28}
$\ln(10^{10}A_{\mathrm{s}})$	$3.040^{+0.039}_{-0.030}$	D_{220}	5720^{+140}_{-130}	$H(0.61)$	$95.56^{+0.71}_{-0.66}$
n_{s}	$0.968^{+0.025}_{-0.024}$	D_{810}	2528^{+52}_{-53}	$D_{\mathrm{M}}(0.61)$	2296^{+31}_{-31}
y_{cal}	$1.0005^{+0.0062}_{-0.0071}$	D_{1420}	815^{+24}_{-26}	$H(2.33)$	$236.0^{+1.8}_{-1.8}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.099}_{-0.094}$	D_{2000}	$230.4^{+9.1}_{-9.2}$	$D_{\mathrm{M}}(2.33)$	5750^{+34}_{-35}
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.135^{+0.071}_{-0.072}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.025}_{-0.024}$	$f\sigma_8(0.15)$	$0.452^{+0.017}_{-0.016}$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.18}$	Y_{P}	$0.24545^{+0.00026}_{-0.00026}$	$\sigma_8(0.15)$	$0.745^{+0.018}_{-0.014}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.15}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00026}_{-0.00026}$	$f\sigma_8(0.38)$	$0.471^{+0.014}_{-0.013}$
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.66^{+0.22}_{-0.21}$	$10^5\mathrm{D}/\mathrm{H}$	$2.56^{+0.12}_{-0.11}$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.013}$
$A_{217}^{\mathrm{dustTE}}$	$2.05^{+0.72}_{-0.69}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.768^{+0.079}_{-0.080}$	$f\sigma_8(0.51)$	$0.470^{+0.013}_{-0.012}$
c_{100}	$1.0002^{+0.0019}_{-0.0020}$	z_{*}	$1089.65^{+0.92}_{-0.85}$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.012}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	r_{*}	$144.62^{+0.75}_{-0.76}$	$f\sigma_8(0.61)$	$0.466^{+0.012}_{-0.011}$
H_0	$68.0^{+1.4}_{-1.3}$	$100\theta_{*}$	$1.0415^{+0.0012}_{-0.0013}$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.012}$
Ω_{Λ}	$0.693^{+0.017}_{-0.017}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.886^{+0.073}_{-0.076}$	$f\sigma_8(2.33)$	$0.2972^{+0.0068}_{-0.0059}$
Ω_{m}	$0.307^{+0.017}_{-0.017}$	z_{drag}	$1060.2^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	$0.3066^{+0.0069}_{-0.0063}$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0028}_{-0.0028}$	r_{drag}	$147.23^{+0.84}_{-0.91}$	$\chi_{\mathrm{lensing}}^2$	$10.4 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^3$	$0.0966^{+0.0012}_{-0.0013}$	k_{D}	$0.1408^{+0.0012}_{-0.0012}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
σ_8	$0.806^{+0.019}_{-0.016}$	$100\theta_{\mathrm{D}}$	$0.16066^{+0.00077}_{-0.00077}$	χ_{plikTE}^2	$859.9 (\nu: 6.2)$
S_8	$0.816^{+0.033}_{-0.032}$	z_{eq}	3379^{+66}_{-67}	$\chi_{6\mathrm{DF}}^2$	$0.037 (\nu: 0.0)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.018}_{-0.017}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	χ_{MGS}^2	$1.54 (\nu: 0.1)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.017}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.3 (\nu: 0.7)$
$\sigma_8/h^{0.5}$	$0.978^{+0.025}_{-0.023}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0065}_{-0.0060}$	χ_{prior}^2	$7.4 (\nu: 6.5)$
$r_{\mathrm{drag}}h$	$100.1^{+2.3}_{-2.1}$	$H(0.15)$	$73.2^{+1.2}_{-1.2}$	χ_{CMB}^2	$1267.2 (\nu: 7.0)$
$\langle d^2 \rangle^{1/2}$	$2.422^{+0.069}_{-0.073}$	$D_{\mathrm{M}}(0.15)$	638^{+12}_{-12}	χ_{BAO}^2	$5.86 (\nu: 0.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1280.53; R - 1 = 0.02893$$

2.37 base_plikHM_EE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02355	$0.0235^{+0.0017}_{-0.0017}$	D_{810}	2581	2580^{+87}_{-86}	$H(0.51)$	90.59	$90.5^{+1.5}_{-1.5}$
$\Omega_c h^2$	0.11753	$0.1176^{+0.0037}_{-0.0036}$	D_{1420}	838.8	838^{+37}_{-38}	$D_M(0.51)$	1953.7	1956^{+46}_{-47}
$100\theta_{MC}$	1.03988	$1.0399^{+0.0022}_{-0.0020}$	D_{2000}	239.2	239^{+14}_{-14}	$H(0.61)$	96.13	$96.1^{+1.4}_{-1.4}$
τ	0.0521	$0.052^{+0.022}_{-0.025}$	$n_{s,0.002}$	0.9755	$0.975^{+0.025}_{-0.025}$	$D_M(0.61)$	2275	2278^{+51}_{-52}
$\ln(10^{10} A_s)$	3.050	$3.049^{+0.056}_{-0.056}$	Y_P	0.24589	$0.24584^{+0.00067}_{-0.00070}$	$H(2.33)$	236.02	$236.0^{+2.5}_{-2.5}$
n_s	0.9755	$0.975^{+0.025}_{-0.025}$	Y_P^{BBN}	0.24721	$0.24716^{+0.00067}_{-0.00070}$	$D_M(2.33)$	5721	5724^{+75}_{-78}
y_{cal}	0.9997	$1.0000^{+0.0067}_{-0.0065}$	$10^5 D/H$	2.380	$2.40^{+0.30}_{-0.26}$	$f\sigma_8(0.15)$	0.4441	$0.445^{+0.025}_{-0.025}$
H_0	68.86	$68.8^{+2.2}_{-2.1}$	Age/Gyr	13.699	$13.71^{+0.17}_{-0.18}$	$\sigma_8(0.15)$	0.7426	$0.743^{+0.024}_{-0.024}$
Ω_Λ	0.7011	$0.700^{+0.022}_{-0.023}$	z_*	1088.30	$1088.4^{+2.1}_{-1.9}$	$f\sigma_8(0.38)$	0.4651	$0.466^{+0.022}_{-0.022}$
Ω_m	0.2989	$0.300^{+0.023}_{-0.022}$	r_*	144.17	$144.2^{+1.3}_{-1.4}$	$\sigma_8(0.38)$	0.6597	$0.660^{+0.021}_{-0.021}$
$\Omega_m h^2$	0.14173	$0.1417^{+0.0035}_{-0.0035}$	$100\theta_*$	1.03995	$1.0399^{+0.0022}_{-0.0021}$	$f\sigma_8(0.51)$	0.4652	$0.466^{+0.020}_{-0.020}$
$\Omega_m h^3$	0.09759	$0.0975^{+0.0033}_{-0.0030}$	$D_M(z_*)/\text{Gpc}$	13.863	$13.87^{+0.13}_{-0.14}$	$\sigma_8(0.51)$	0.6179	$0.618^{+0.019}_{-0.019}$
σ_8	0.8023	$0.802^{+0.027}_{-0.027}$	z_{drag}	1062.45	$1062.2^{+3.6}_{-3.7}$	$f\sigma_8(0.61)$	0.4613	$0.462^{+0.018}_{-0.018}$
S_8	0.8008	$0.802^{+0.049}_{-0.048}$	r_{drag}	146.44	$146.5^{+1.8}_{-1.8}$	$\sigma_8(0.61)$	0.5883	$0.588^{+0.018}_{-0.018}$
$\sigma_8 \Omega_m^{0.5}$	0.4386	$0.439^{+0.027}_{-0.026}$	k_D	0.14240	$0.1423^{+0.0029}_{-0.0031}$	$f\sigma_8(2.33)$	0.2971	$0.2970^{+0.0091}_{-0.0089}$
$\sigma_8 \Omega_m^{0.25}$	0.5932	$0.594^{+0.027}_{-0.027}$	$100\theta_D$	0.15914	$0.1593^{+0.0023}_{-0.0020}$	$\sigma_8(2.33)$	0.3069	$0.3068^{+0.0096}_{-0.0091}$
$\sigma_8/h^{0.5}$	0.9668	$0.968^{+0.039}_{-0.040}$	z_{eq}	3371	3372^{+84}_{-83}	χ_{small}^2	395.61	$396.8 (\nu: 1.2)$
$r_{drag} h$	100.84	$100.7^{+2.9}_{-2.9}$	k_{eq}	0.010290	$0.01029^{+0.00026}_{-0.00025}$	χ_{plikEE}^2	739.0	$743.2 (\nu: 4.2)$
$\langle d^2 \rangle^{1/2}$	2.401	$2.403^{+0.093}_{-0.087}$	$100\theta_{eq}$	0.8213	$0.821^{+0.015}_{-0.015}$	χ_{6DF}^2	0.004	$0.056 (\nu: 0.0)$
z_{re}	7.17	$7.1^{+2.1}_{-2.7}$	$100\theta_{s,eq}$	0.4527	$0.4526^{+0.0077}_{-0.0077}$	χ_{MGS}^2	1.89	$1.91 (\nu: 0.2)$
$10^9 A_s$	2.111	$2.11^{+0.12}_{-0.11}$	$H(0.15)$	74.03	$73.9^{+2.0}_{-1.9}$	$\chi_{DR12BAO}^2$	3.60	$4.4 (\nu: 0.7)$
$10^9 A_s e^{-2\tau}$	1.902	$1.902^{+0.064}_{-0.063}$	$D_M(0.15)$	630.5	631^{+18}_{-18}	χ_{prior}^2	0.01	$1.0 (\nu: 1.1)$
D_{40}	1232	1232^{+80}_{-75}	$H(0.38)$	83.97	$83.9^{+1.7}_{-1.6}$	χ_{BAO}^2	5.49	$6.4 (\nu: 0.9)$
D_{220}	5898	5891^{+350}_{-340}	$D_M(0.38)$	1506.6	1509^{+38}_{-39}	χ_{CMB}^2	1134.7	$1139.9 (\nu: 5.4)$

Best-fit $\chi_{eff}^2 = 1140.16$; $\bar{\chi}_{eff}^2 = 1147.36$; $R - 1 = 0.00786$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.89 DR12BAO: 3.60 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.61 plik_rd12_HM_v22_EE: 739.04

2.38 base_plikHM_EE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0234^{+0.0014}_{-0.0014}$	D_{1420}	835^{+31}_{-30}	$H(0.61)$	$96.0^{+1.3}_{-1.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1174^{+0.0034}_{-0.0034}$	D_{2000}	238^{+12}_{-11}	$D_{\mathrm{M}}(0.61)$	2277^{+48}_{-50}
$100\theta_{\mathrm{MC}}$	$1.0399^{+0.0022}_{-0.0020}$	$n_{\mathrm{s},0.002}$	$0.974^{+0.025}_{-0.024}$	$H(2.33)$	$235.8^{+2.0}_{-1.9}$
τ	$0.051^{+0.021}_{-0.024}$	Y_{P}	$0.24582^{+0.00055}_{-0.00057}$	$D_{\mathrm{M}}(2.33)$	5726^{+65}_{-69}
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.039}_{-0.044}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24715^{+0.00055}_{-0.00057}$	$f\sigma_{\mathrm{s}}(0.15)$	$0.443^{+0.022}_{-0.022}$
n_{s}	$0.974^{+0.025}_{-0.024}$	$10^5\mathrm{D}/\mathrm{H}$	$2.40^{+0.25}_{-0.22}$	$\sigma_{\mathrm{s}}(0.15)$	$0.741^{+0.018}_{-0.018}$
y_{cal}	$0.99996^{+0.0063}_{-0.0064}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.71^{+0.15}_{-0.16}$	$f\sigma_{\mathrm{s}}(0.38)$	$0.464^{+0.018}_{-0.019}$
H_0	$68.8^{+2.2}_{-2.0}$	z_{*}	$1088.4^{+1.8}_{-1.7}$	$\sigma_{\mathrm{s}}(0.38)$	$0.658^{+0.015}_{-0.016}$
Ω_{Λ}	$0.701^{+0.022}_{-0.022}$	r_{*}	$144.30^{+0.94}_{-1.0}$	$f\sigma_{\mathrm{s}}(0.51)$	$0.464^{+0.016}_{-0.017}$
Ω_{m}	$0.299^{+0.022}_{-0.022}$	$100\theta_{*}$	$1.0399^{+0.0022}_{-0.0020}$	$\sigma_{\mathrm{s}}(0.51)$	$0.616^{+0.014}_{-0.015}$
$\Omega_{\mathrm{m}}h^2$	$0.1415^{+0.0029}_{-0.0029}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.876^{+0.099}_{-0.10}$	$f\sigma_{\mathrm{s}}(0.61)$	$0.460^{+0.015}_{-0.015}$
$\Omega_{\mathrm{m}}h^3$	$0.0973^{+0.0027}_{-0.0024}$	z_{drag}	$1062.1^{+3.0}_{-3.1}$	$\sigma_{\mathrm{s}}(0.61)$	$0.587^{+0.013}_{-0.014}$
σ_{s}	$0.800^{+0.020}_{-0.022}$	r_{drag}	$146.6^{+1.3}_{-1.3}$	$f\sigma_{\mathrm{s}}(2.33)$	$0.2963^{+0.0066}_{-0.0070}$
S_{s}	$0.799^{+0.042}_{-0.043}$	k_{D}	$0.1421^{+0.0023}_{-0.0023}$	$\sigma_{\mathrm{s}}(2.33)$	$0.3060^{+0.0070}_{-0.0075}$
$\sigma_{\mathrm{s}}\Omega_{\mathrm{m}}^{0.5}$	$0.437^{+0.023}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.1593^{+0.0019}_{-0.0017}$	$\chi^2_{\mathrm{lensing}}$	$9.1 (\nu: 0.6)$
$\sigma_{\mathrm{s}}\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.022}_{-0.023}$	z_{eq}	3365^{+70}_{-68}	χ^2_{simall}	$396.6 (\nu: 0.9)$
$\sigma_{\mathrm{s}}/h^{0.5}$	$0.965^{+0.032}_{-0.034}$	k_{eq}	$0.01027^{+0.00021}_{-0.00021}$	χ^2_{plikEE}	$742.6 (\nu: 3.4)$
$r_{\mathrm{drag}}h$	$100.9^{+2.9}_{-2.6}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.013}_{-0.013}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.398^{+0.078}_{-0.076}$	$100\theta_{\mathrm{s,eq}}$	$0.4532^{+0.0066}_{-0.0065}$	χ^2_{MGS}	$1.99 (\nu: 0.2)$
z_{re}	$7.1^{+2.0}_{-2.6}$	$H(0.15)$	$74.0^{+2.0}_{-1.8}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.6)$
10^9A_{s}	$2.101^{+0.083}_{-0.091}$	$D_{\mathrm{M}}(0.15)$	631^{+17}_{-18}	χ^2_{prior}	$0.9 (\nu: 1.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.898^{+0.043}_{-0.044}$	$H(0.38)$	$83.9^{+1.6}_{-1.5}$	χ^2_{CMB}	$1148.4 (\nu: 5.5)$
D_{40}	1231^{+69}_{-69}	$D_{\mathrm{M}}(0.38)$	1508^{+36}_{-38}	χ^2_{BAO}	$6.4 (\nu: 0.8)$
D_{220}	5883^{+280}_{-280}	$H(0.51)$	$90.5^{+1.4}_{-1.4}$		
D_{810}	2574^{+67}_{-65}	$D_{\mathrm{M}}(0.51)$	1956^{+43}_{-45}		

$\bar{\chi}^2_{\mathrm{eff}} = 1155.69$; $R - 1 = 0.01010$

2.39 base_plikHM_EE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0234^{+0.0017}_{-0.0017}$	D_{810}	2579^{+86}_{-85}	$H(0.51)$	$90.5^{+1.6}_{-1.5}$
$\Omega_{\mathrm{c}}h^2$	$0.1176^{+0.0037}_{-0.0036}$	D_{1420}	838^{+37}_{-38}	$D_{\mathrm{M}}(0.51)$	1957^{+46}_{-48}
$100\theta_{\mathrm{MC}}$	$1.0399^{+0.0022}_{-0.0020}$	D_{2000}	239^{+14}_{-14}	$H(0.61)$	$96.0^{+1.5}_{-1.4}$
τ	$0.055^{+0.018}_{-0.012}$	$n_{\mathrm{s},0.002}$	$0.975^{+0.025}_{-0.025}$	$D_{\mathrm{M}}(0.61)$	2278^{+51}_{-53}
$\ln(10^{10}A_{\mathrm{s}})$	$3.055^{+0.052}_{-0.047}$	Y_{P}	$0.24583^{+0.00068}_{-0.00072}$	$H(2.33)$	$236.0^{+2.5}_{-2.5}$
n_{s}	$0.975^{+0.025}_{-0.025}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24715^{+0.00068}_{-0.00072}$	$D_{\mathrm{M}}(2.33)$	5726^{+75}_{-79}
y_{cal}	$1.0000^{+0.0068}_{-0.0066}$	$10^5\mathrm{D}/\mathrm{H}$	$2.40^{+0.30}_{-0.27}$	$f\sigma_8(0.15)$	$0.446^{+0.025}_{-0.023}$
H_0	$68.7^{+2.2}_{-2.1}$	Age/Gyr	$13.71^{+0.18}_{-0.18}$	$\sigma_8(0.15)$	$0.745^{+0.023}_{-0.020}$
Ω_{Λ}	$0.700^{+0.022}_{-0.023}$	z_*	$1088.5^{+2.2}_{-2.0}$	$f\sigma_8(0.38)$	$0.467^{+0.020}_{-0.019}$
Ω_{m}	$0.300^{+0.023}_{-0.022}$	r_*	$144.2^{+1.4}_{-1.4}$	$\sigma_8(0.38)$	$0.662^{+0.020}_{-0.017}$
$\Omega_{\mathrm{m}}h^2$	$0.1417^{+0.0035}_{-0.0035}$	$100\theta_*$	$1.0399^{+0.0023}_{-0.0021}$	$f\sigma_8(0.51)$	$0.467^{+0.019}_{-0.017}$
$\Omega_{\mathrm{m}}h^3$	$0.0974^{+0.0033}_{-0.0030}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.13}_{-0.14}$	$\sigma_8(0.51)$	$0.620^{+0.018}_{-0.016}$
σ_8	$0.805^{+0.025}_{-0.022}$	z_{drag}	$1062.2^{+3.7}_{-3.8}$	$f\sigma_8(0.61)$	$0.463^{+0.017}_{-0.016}$
S_8	$0.805^{+0.047}_{-0.045}$	r_{drag}	$146.5^{+1.9}_{-1.8}$	$\sigma_8(0.61)$	$0.590^{+0.017}_{-0.015}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.026}_{-0.025}$	k_{D}	$0.1422^{+0.0030}_{-0.0031}$	$f\sigma_8(2.33)$	$0.2979^{+0.0086}_{-0.0074}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.596^{+0.025}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.1593^{+0.0023}_{-0.0020}$	$\sigma_8(2.33)$	$0.3077^{+0.0090}_{-0.0077}$
$\sigma_8/h^{0.5}$	$0.971^{+0.037}_{-0.034}$	z_{eq}	3371^{+84}_{-83}	χ_{small}^2	$396.5 (\nu: 1.0)$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9}$	k_{eq}	$0.01029^{+0.00026}_{-0.00025}$	χ_{plikEE}^2	$743.2 (\nu: 4.3)$
$\langle d^2 \rangle^{1/2}$	$2.409^{+0.089}_{-0.083}$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.015}_{-0.015}$	$\chi_{6\mathrm{DF}}^2$	$0.056 (\nu: 0.0)$
z_{re}	< 9.10	$100\theta_{\mathrm{s,eq}}$	$0.4526^{+0.0078}_{-0.0076}$	χ_{MGS}^2	$1.90 (\nu: 0.2)$
10^9A_{s}	$2.12^{+0.11}_{-0.098}$	$H(0.15)$	$73.9^{+2.0}_{-1.9}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.901^{+0.063}_{-0.063}$	$D_{\mathrm{M}}(0.15)$	632^{+18}_{-18}	χ_{prior}^2	$1.0 (\nu: 1.1)$
D_{40}	1231^{+82}_{-75}	$H(0.38)$	$83.9^{+1.7}_{-1.6}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
D_{220}	5885^{+340}_{-340}	$D_{\mathrm{M}}(0.38)$	1509^{+38}_{-39}	χ_{CMB}^2	$1139.7 (\nu: 5.2)$
$\bar{\chi}_{\mathrm{eff}}^2 = 1147.07; R - 1 = 0.01186$					

2.40 base_plikHM_EE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0234^{+0.0014}_{-0.0014}$	D_{1420}	834^{+29}_{-31}	$H(0.61)$	$96.0^{+1.3}_{-1.2}$
$\Omega_{\text{c}}h^2$	$0.1173^{+0.0035}_{-0.0033}$	D_{2000}	238^{+11}_{-11}	$D_{\text{M}}(0.61)$	2278^{+48}_{-49}
$100\theta_{\text{MC}}$	$1.0399^{+0.0022}_{-0.0020}$	$n_{\text{s},0.002}$	$0.975^{+0.025}_{-0.025}$	$H(2.33)$	$235.7^{+2.0}_{-1.9}$
τ	$0.054^{+0.017}_{-0.010}$	Y_{P}	$0.24580^{+0.00053}_{-0.00056}$	$D_{\text{M}}(2.33)$	5728^{+65}_{-68}
$\ln(10^{10}A_{\text{s}})$	$3.050^{+0.036}_{-0.032}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24713^{+0.00053}_{-0.00056}$	$f\sigma_8(0.15)$	$0.444^{+0.021}_{-0.020}$
n_{s}	$0.975^{+0.025}_{-0.025}$	$10^5\text{D}/\text{H}$	$2.41^{+0.24}_{-0.22}$	$\sigma_8(0.15)$	$0.742^{+0.016}_{-0.015}$
y_{cal}	$0.9999^{+0.0066}_{-0.0066}$	Age/Gyr	$13.72^{+0.15}_{-0.16}$	$f\sigma_8(0.38)$	$0.465^{+0.017}_{-0.016}$
H_0	$68.8^{+2.1}_{-2.0}$	z_*	$1088.5^{+1.8}_{-1.7}$	$\sigma_8(0.38)$	$0.660^{+0.014}_{-0.012}$
Ω_{Λ}	$0.701^{+0.021}_{-0.022}$	r_*	$144.36^{+0.90}_{-0.97}$	$f\sigma_8(0.51)$	$0.465^{+0.015}_{-0.014}$
Ω_{m}	$0.299^{+0.022}_{-0.021}$	$100\theta_*$	$1.0400^{+0.0024}_{-0.0020}$	$\sigma_8(0.51)$	$0.618^{+0.013}_{-0.011}$
$\Omega_{\text{m}}h^2$	$0.1414^{+0.0029}_{-0.0029}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.881^{+0.096}_{-0.10}$	$f\sigma_8(0.61)$	$0.461^{+0.014}_{-0.013}$
$\Omega_{\text{m}}h^3$	$0.0972^{+0.0028}_{-0.0025}$	z_{drag}	$1062.0^{+3.0}_{-3.0}$	$\sigma_8(0.61)$	$0.588^{+0.012}_{-0.011}$
σ_8	$0.802^{+0.018}_{-0.017}$	r_{drag}	$146.7^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	$0.2971^{+0.0062}_{-0.0055}$
S_8	$0.801^{+0.042}_{-0.039}$	k_{D}	$0.1420^{+0.0022}_{-0.0023}$	$\sigma_8(2.33)$	$0.3069^{+0.0064}_{-0.0060}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.439^{+0.023}_{-0.021}$	$100\theta_{\text{D}}$	$0.1594^{+0.0018}_{-0.0016}$	χ^2_{lensing}	$9.1 (\nu: 0.6)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.593^{+0.021}_{-0.020}$	z_{eq}	3362^{+69}_{-68}	χ^2_{simall}	$396.3 (\nu: 0.6)$
$\sigma_8/h^{0.5}$	$0.967^{+0.031}_{-0.028}$	k_{eq}	$0.01026^{+0.00021}_{-0.00021}$	χ^2_{plikEE}	$742.6 (\nu: 3.6)$
$r_{\text{drag}}h$	$100.9^{+2.8}_{-2.7}$	$100\theta_{\text{eq}}$	$0.822^{+0.013}_{-0.014}$	$\chi^2_{6\text{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.403^{+0.075}_{-0.073}$	$100\theta_{\text{s,eq}}$	$0.4534^{+0.0064}_{-0.0065}$	χ^2_{MGS}	$2.01 (\nu: 0.2)$
z_{re}	< 9.00	$H(0.15)$	$73.9^{+1.9}_{-1.8}$	χ^2_{DR12BAO}	$4.3 (\nu: 0.5)$
10^9A_{s}	$2.112^{+0.077}_{-0.066}$	$D_{\text{M}}(0.15)$	631^{+17}_{-17}	χ^2_{prior}	$0.9 (\nu: 1.0)$
$10^9A_{\text{s}}e^{-2\tau}$	$1.895^{+0.043}_{-0.043}$	$H(0.38)$	$83.9^{+1.6}_{-1.5}$	χ^2_{CMB}	$1148.1 (\nu: 5.3)$
D_{40}	1229^{+72}_{-68}	$D_{\text{M}}(0.38)$	1509^{+36}_{-37}	χ^2_{BAO}	$6.4 (\nu: 0.8)$
D_{220}	5870^{+290}_{-280}	$H(0.51)$	$90.5^{+1.4}_{-1.4}$		
D_{810}	2571^{+64}_{-64}	$D_{\text{M}}(0.51)$	1956^{+44}_{-44}		

$\bar{\chi}^2_{\text{eff}} = 1155.39; R - 1 = 0.01205$

2.41 base_CamSpecHM_TE_lowE_BAO

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02242	$0.02242^{+0.00059}_{-0.00058}$	(-0.1σ)	D_{810}	2547	2547^{+66}_{-64}	$(+1.6\sigma)$	$H(0.51)$	90.03	$90.04^{+0.77}_{-0.76}$	$(+0.0\sigma)$
$\Omega_c h^2$	0.11784	$0.1179^{+0.0032}_{-0.0031}$	(-0.2σ)	D_{1420}	824.1	824^{+30}_{-30}	$(+1.5\sigma)$	$D_M(0.51)$	1968.0	1968^{+28}_{-27}	(-0.1σ)
$100\theta_{MC}$	1.04128	$1.0413^{+0.0012}_{-0.0012}$	(-0.0σ)	D_{2000}	233.2	233^{+11}_{-11}	$(+1.3\sigma)$	$H(0.61)$	95.58	$95.59^{+0.67}_{-0.67}$	(-0.0σ)
τ	0.0511	$0.050^{+0.020}_{-0.027}$	$(+0.1\sigma)$	$n_{s,0.002}$	0.9766	$0.976^{+0.026}_{-0.026}$	$(+1.0\sigma)$	$D_M(0.61)$	2291.2	2291^{+31}_{-29}	(-0.1σ)
$\ln(10^{10} A_s)$	3.035	$3.032^{+0.048}_{-0.061}$	$(+0.7\sigma)$	Y_P	0.245416	$0.24541^{+0.00024}_{-0.00025}$	(-0.1σ)	$H(2.33)$	235.22	$235.2^{+2.1}_{-2.0}$	(-0.3σ)
n_s	0.9766	$0.976^{+0.026}_{-0.026}$	$(+1.0\sigma)$	Y_P^{BBN}	0.246743	$0.24674^{+0.00024}_{-0.00025}$	(-0.1σ)	$D_M(2.33)$	5751.7	5751^{+34}_{-34}	$(+0.1\sigma)$
y_{cal}	0.9998	$0.99996^{+0.0064}_{-0.0064}$	(-0.0σ)	$10^5 D/H$	2.576	$2.58^{+0.11}_{-0.11}$	$(+0.1\sigma)$	$f\sigma_8(0.15)$	0.4471	$0.446^{+0.021}_{-0.021}$	$(+0.4\sigma)$
H_0	68.28	$68.3^{+1.3}_{-1.4}$	$(+0.1\sigma)$	Age/Gyr	13.772	$13.771^{+0.079}_{-0.076}$	$(+0.1\sigma)$	$\sigma_8(0.15)$	0.7435	$0.742^{+0.023}_{-0.025}$	$(+0.8\sigma)$
Ω_Λ	0.6977	$0.698^{+0.016}_{-0.018}$	$(+0.2\sigma)$	z_*	1089.66	$1089.67^{+0.82}_{-0.82}$	$(+0.0\sigma)$	$f\sigma_8(0.38)$	0.4673	$0.467^{+0.019}_{-0.019}$	$(+0.6\sigma)$
Ω_m	0.3023	$0.302^{+0.018}_{-0.016}$	(-0.2σ)	r_*	144.95	$144.95^{+0.89}_{-0.88}$	$(+0.3\sigma)$	$\sigma_8(0.38)$	0.6601	$0.659^{+0.020}_{-0.022}$	$(+0.9\sigma)$
$\Omega_m h^2$	0.14091	$0.1409^{+0.0031}_{-0.0030}$	(-0.3σ)	$100\theta_*$	1.04145	$1.0415^{+0.0012}_{-0.0012}$	(-0.0σ)	$f\sigma_8(0.51)$	0.4670	$0.466^{+0.017}_{-0.018}$	$(+0.6\sigma)$
$\Omega_m h^3$	0.09621	$0.0962^{+0.0013}_{-0.0014}$	(-0.2σ)	$D_M(z_*)/\text{Gpc}$	13.918	$13.918^{+0.088}_{-0.087}$	$(+0.3\sigma)$	$\sigma_8(0.51)$	0.6181	$0.617^{+0.018}_{-0.021}$	$(+0.9\sigma)$
σ_8	0.8036	$0.802^{+0.025}_{-0.028}$	$(+0.8\sigma)$	z_{drag}	1059.89	$1059.9^{+1.3}_{-1.4}$	(-0.2σ)	$f\sigma_8(0.61)$	0.4628	$0.462^{+0.016}_{-0.017}$	$(+0.7\sigma)$
S_8	0.8066	$0.805^{+0.041}_{-0.039}$	$(+0.4\sigma)$	r_{drag}	147.61	$147.6^{+1.0}_{-0.99}$	$(+0.3\sigma)$	$\sigma_8(0.61)$	0.5884	$0.587^{+0.017}_{-0.020}$	$(+0.9\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4418	$0.441^{+0.022}_{-0.022}$	$(+0.4\sigma)$	k_D	0.14036	$0.1404^{+0.0013}_{-0.0014}$	(-0.3σ)	$f\sigma_8(2.33)$	0.2971	$0.2966^{+0.0085}_{-0.010}$	$(+0.9\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5958	$0.595^{+0.023}_{-0.024}$	$(+0.6\sigma)$	$100\theta_D$	0.16081	$0.16082^{+0.00079}_{-0.00078}$	$(+0.2\sigma)$	$\sigma_8(2.33)$	0.3067	$0.3062^{+0.0090}_{-0.010}$	$(+0.9\sigma)$
$\sigma_8/h^{0.5}$	0.9725	$0.971^{+0.034}_{-0.036}$	$(+0.7\sigma)$	z_{eq}	3352	3352^{+75}_{-73}	(-0.3σ)	χ^2_{small}	395.71	$396.8 (\nu: 1.2) (-0.0\sigma)$	
$r_{drag} h$	100.78	$100.8^{+2.3}_{-2.4}$	$(+0.2\sigma)$	k_{eq}	0.010230	$0.01023^{+0.00023}_{-0.00022}$	(-0.3σ)	$\chi^2_{CamSpec}$	2576.1	$2580.4 (\nu: 4.2)$	
$\langle d^2 \rangle^{1/2}$	2.388	$2.387^{+0.084}_{-0.087}$	(-0.2σ)	$100\theta_{eq}$	0.8228	$0.823^{+0.013}_{-0.014}$	$(+0.2\sigma)$	χ^2_{6DF}	0.004	$0.040 (\nu: 0.0) (+0.0\sigma)$	
z_{re}	7.31	$7.1^{+2.0}_{-3.0}$	$(+0.1\sigma)$	$100\theta_{s,eq}$	0.4543	$0.4543^{+0.0070}_{-0.0070}$	$(+0.2\sigma)$	χ^2_{MGS}	1.89	$1.96 (\nu: 0.2) (+0.2\sigma)$	
$10^9 A_s$	2.079	$2.07^{+0.10}_{-0.12}$	$(+0.7\sigma)$	$H(0.15)$	73.46	$73.5^{+1.2}_{-1.2}$	$(+0.1\sigma)$	$\chi^2_{DR12BAO}$	3.37	$3.93 (\nu: 0.3) (-0.1\sigma)$	
$10^9 A_s e^{-2\tau}$	1.8770	$1.877^{+0.046}_{-0.043}$	$(+1.4\sigma)$	$D_M(0.15)$	635.6	636^{+12}_{-11}	(-0.1σ)	χ^2_{prior}	10.03	$11.0 (\nu: 1.0) (+1.0\sigma)$	
D_{40}	1203	1206^{+65}_{-62}	(-0.5σ)	$H(0.38)$	83.41	$83.42^{+0.90}_{-0.91}$	$(+0.1\sigma)$	χ^2_{BAO}	5.27	$5.93 (\nu: 0.5) (+0.1\sigma)$	
D_{220}	5710	5715^{+160}_{-160}	$(+0.4\sigma)$	$D_M(0.38)$	1518.1	1518^{+24}_{-23}	(-0.1σ)	χ^2_{CMB}	2971.9	$2977.2 (\nu: 5.3) (+447.9\sigma)$	

Best-fit $\chi^2_{eff} = 2987.15$; $\Delta\chi^2_{eff} = 1732.92$; $\bar{\chi}^2_{eff} = 2994.10$; $\Delta\bar{\chi}^2_{eff} = 1724.69$; $R - 1 = 0.00951$
 χ^2_{eff} : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.89 (Δ 0.14) DR12BAO: 3.37 (Δ -0.07) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.71 (Δ 0.04) CamSpec like_10.7HM_1400_unified: 2576.15

2.42 base_CamSpecHM_TE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00056}_{-0.00056} \quad (-0.3\sigma)$	D_{1420}	$827^{+27}_{-26} \quad (+1.2\sigma)$	$H(0.61)$	$95.58^{+0.62}_{-0.66} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1181^{+0.0029}_{-0.0028} \quad (-0.7\sigma)$	D_{2000}	$234.1^{+9.8}_{-9.4} \quad (+1.0\sigma)$	$D_M(0.61)$	$2292^{+31}_{-29} \quad (-0.4\sigma)$
$100\theta_{MC}$	$1.0413^{+0.0011}_{-0.0012} \quad (-0.0\sigma)$	$n_{s,0.002}$	$0.976^{+0.025}_{-0.025} \quad (+0.9\sigma)$	$H(2.33)$	$235.4^{+1.9}_{-1.8} \quad (-0.8\sigma)$
τ	$0.052^{+0.019}_{-0.021} \quad (-0.3\sigma)$	Y_P	$0.24542^{+0.00023}_{-0.00024} \quad (-0.3\sigma)$	$D_M(2.33)$	$5751^{+32}_{-31} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.041^{+0.037}_{-0.040} \quad (+0.2\sigma)$	Y_P^{BBN}	$0.24675^{+0.00023}_{-0.00024} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$
n_s	$0.976^{+0.025}_{-0.025} \quad (+0.9\sigma)$	$10^5 D/H$	$2.57^{+0.11}_{-0.10} \quad (+0.3\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.016}_{-0.016} \quad (+0.2\sigma)$
y_{cal}	$1.0002^{+0.0064}_{-0.0065} \quad (-0.1\sigma)$	Age/Gyr	$13.771^{+0.076}_{-0.073} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.013}_{-0.014} \quad (-0.2\sigma)$
H_0	$68.2^{+1.3}_{-1.3} \quad (+0.4\sigma)$	z_*	$1089.66^{+0.84}_{-0.81} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.014} \quad (+0.3\sigma)$
Ω_Λ	$0.696^{+0.016}_{-0.018} \quad (+0.6\sigma)$	r_*	$144.87^{+0.74}_{-0.77} \quad (+0.9\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.012}_{-0.013} \quad (-0.1\sigma)$
Ω_m	$0.304^{+0.018}_{-0.016} \quad (-0.6\sigma)$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0012} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.013} \quad (+0.3\sigma)$
$\Omega_m h^2$	$0.1412^{+0.0029}_{-0.0027} \quad (-0.8\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.910^{+0.075}_{-0.079} \quad (+0.9\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.011}_{-0.012} \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.0963^{+0.0012}_{-0.0013} \quad (-0.5\sigma)$	z_{drag}	$1060.0^{+1.3}_{-1.3} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.013} \quad (+0.3\sigma)$
σ_8	$0.807^{+0.018}_{-0.018} \quad (+0.1\sigma)$	r_{drag}	$147.51^{+0.85}_{-0.89} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0068}_{-0.0067} \quad (+0.4\sigma)$
S_8	$0.811^{+0.031}_{-0.030} \quad (-0.3\sigma)$	k_D	$0.1405^{+0.0012}_{-0.0011} \quad (-0.7\sigma)$	$\sigma_8(2.33)$	$0.3076^{+0.0071}_{-0.0073} \quad (+0.5\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$100\theta_D$	$0.16077^{+0.00077}_{-0.00074} \quad (+0.4\sigma)$	$\chi^2_{lensing}$	$9.6 \quad (\nu: 0.6) \quad (-0.5\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.599^{+0.016}_{-0.017} \quad (-0.2\sigma)$	z_{eq}	$3359^{+70}_{-64} \quad (-0.8\sigma)$	χ^2_{small}	$396.6 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$\sigma_8/h^{0.5}$	$0.977^{+0.024}_{-0.025} \quad (-0.1\sigma)$	k_{eq}	$0.01025^{+0.00021}_{-0.00020} \quad (-0.8\sigma)$	$\chi^2_{CamSpec}$	$2580.2 \quad (\nu: 3.8)$
$r_{drag} h$	$100.6^{+2.1}_{-2.3} \quad (+0.6\sigma)$	$100\theta_{eq}$	$0.822^{+0.012}_{-0.013} \quad (+0.8\sigma)$	χ^2_{6DF}	$0.032 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.399^{+0.076}_{-0.075} \quad (-0.7\sigma)$	$100\theta_{s,eq}$	$0.4537^{+0.0060}_{-0.0066} \quad (+0.8\sigma)$	χ^2_{MGS}	$1.85 \quad (\nu: 0.1) \quad (+0.6\sigma)$
z_{re}	$7.4^{+1.8}_{-2.3} \quad (-0.3\sigma)$	$H(0.15)$	$73.4^{+1.1}_{-1.2} \quad (+0.4\sigma)$	$\chi^2_{DR12BAO}$	$3.91 \quad (\nu: 0.3) \quad (-0.3\sigma)$
$10^9 A_s$	$2.092^{+0.079}_{-0.082} \quad (+0.2\sigma)$	$D_M(0.15)$	$636^{+12}_{-11} \quad (-0.4\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_s e^{-2\tau}$	$1.884^{+0.035}_{-0.035} \quad (+1.0\sigma)$	$H(0.38)$	$83.39^{+0.88}_{-0.92} \quad (+0.3\sigma)$	χ^2_{CMB}	$2986.4 \quad (\nu: 5.3) \quad (+452.0\sigma)$
D_{40}	$1210^{+62}_{-62} \quad (-0.5\sigma)$	$D_M(0.38)$	$1519^{+24}_{-22} \quad (-0.4\sigma)$	χ^2_{BAO}	$5.79 \quad (\nu: 0.3) \quad (-0.1\sigma)$
D_{220}	$5731^{+150}_{-150} \quad (+0.2\sigma)$	$H(0.51)$	$90.02^{+0.74}_{-0.76} \quad (+0.2\sigma)$		
D_{810}	$2556^{+56}_{-52} \quad (+1.4\sigma)$	$D_M(0.51)$	$1969^{+28}_{-26} \quad (-0.4\sigma)$		

$\bar{\chi}^2_{eff} = 3003.21$; $\Delta \bar{\chi}^2_{eff} = 1722.52$; $R - 1 = 0.01219$

2.43 base_CamSpecHM_TE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00058}_{-0.00059} \quad (-0.1\sigma)$	D_{810}	$2549^{+65}_{-63} \quad (+1.6\sigma)$	$H(0.51)$	$90.06^{+0.77}_{-0.74} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1178^{+0.0032}_{-0.0031} \quad (-0.2\sigma)$	D_{1420}	$824^{+30}_{-30} \quad (+1.5\sigma)$	$D_M(0.51)$	$1967^{+27}_{-27} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0413^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	D_{2000}	$233^{+11}_{-11} \quad (+1.3\sigma)$	$H(0.61)$	$95.60^{+0.67}_{-0.65} \quad (-0.0\sigma)$
τ	$0.053^{+0.016}_{-0.011} \quad (+0.1\sigma)$	$n_{s,0.002}$	$0.976^{+0.026}_{-0.026} \quad (+1.0\sigma)$	$D_M(0.61)$	$2291^{+30}_{-29} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.038^{+0.043}_{-0.035} \quad (+0.9\sigma)$	Y_P	$0.24542^{+0.00024}_{-0.00026} \quad (-0.1\sigma)$	$H(2.33)$	$235.2^{+2.1}_{-2.0} \quad (-0.3\sigma)$
n_s	$0.976^{+0.026}_{-0.026} \quad (+1.0\sigma)$	Y_P^{BBN}	$0.24674^{+0.00024}_{-0.00026} \quad (-0.1\sigma)$	$D_M(2.33)$	$5751^{+33}_{-34} \quad (+0.1\sigma)$
y_{cal}	$0.99998^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	$10^5 D/H$	$2.58^{+0.11}_{-0.10} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.019} \quad (+0.4\sigma)$
H_0	$68.3^{+1.3}_{-1.4} \quad (+0.1\sigma)$	Age/Gyr	$13.770^{+0.078}_{-0.077} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.020}_{-0.018} \quad (+1.0\sigma)$
Ω_Λ	$0.698^{+0.016}_{-0.018} \quad (+0.2\sigma)$	z_*	$1089.66^{+0.83}_{-0.81} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.468^{+0.018}_{-0.017} \quad (+0.6\sigma)$
Ω_m	$0.302^{+0.018}_{-0.016} \quad (-0.2\sigma)$	r_*	$144.95^{+0.91}_{-0.86} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.018}_{-0.015} \quad (+1.0\sigma)$
$\Omega_m h^2$	$0.1409^{+0.0031}_{-0.0031} \quad (-0.3\sigma)$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.016}_{-0.015} \quad (+0.7\sigma)$
$\Omega_m h^3$	$0.0962^{+0.0013}_{-0.0014} \quad (-0.2\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.918^{+0.091}_{-0.086} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.017}_{-0.014} \quad (+1.0\sigma)$
σ_8	$0.805^{+0.023}_{-0.020} \quad (+0.9\sigma)$	z_{drag}	$1059.9^{+1.3}_{-1.4} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.015}_{-0.014} \quad (+0.7\sigma)$
S_8	$0.808^{+0.039}_{-0.037} \quad (+0.4\sigma)$	r_{drag}	$147.6^{+1.0}_{-0.98} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.016}_{-0.013} \quad (+1.0\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.021}_{-0.020} \quad (+0.4\sigma)$	k_D	$0.1404^{+0.0013}_{-0.0014} \quad (-0.3\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0078}_{-0.0067} \quad (+1.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.597^{+0.022}_{-0.020} \quad (+0.6\sigma)$	$100\theta_D$	$0.16081^{+0.00081}_{-0.00078} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0080}_{-0.0068} \quad (+1.1\sigma)$
$\sigma_8/h^{0.5}$	$0.974^{+0.032}_{-0.029} \quad (+0.7\sigma)$	z_{eq}	$3352^{+75}_{-73} \quad (-0.3\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.5) \quad (-0.0\sigma)$
$r_{drag} h$	$100.8^{+2.3}_{-2.3} \quad (+0.2\sigma)$	k_{eq}	$0.01023^{+0.00023}_{-0.00022} \quad (-0.3\sigma)$	$\chi_{CamSpec}^2$	$2580.4 \quad (\nu: 4.2)$
$\langle d^2 \rangle^{1/2}$	$2.393^{+0.082}_{-0.076} \quad (-0.2\sigma)$	$100\theta_{eq}$	$0.823^{+0.013}_{-0.014} \quad (+0.2\sigma)$	χ_{6DF}^2	$0.040 \quad (\nu: 0.0) \quad (+0.0\sigma)$
z_{re}	$< 9.01 \quad (+0.1\sigma)$	$100\theta_{s,eq}$	$0.4544^{+0.0070}_{-0.0071} \quad (+0.2\sigma)$	χ_{MGS}^2	$1.98 \quad (\nu: 0.2) \quad (+0.2\sigma)$
$10^9 A_s$	$2.087^{+0.091}_{-0.072} \quad (+0.9\sigma)$	$H(0.15)$	$73.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$\chi_{DR12BAO}^2$	$3.92 \quad (\nu: 0.3) \quad (-0.1\sigma)$
$10^9 A_s e^{-2\tau}$	$1.878^{+0.046}_{-0.044} \quad (+1.4\sigma)$	$D_M(0.15)$	$635^{+12}_{-11} \quad (-0.1\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
D_{40}	$1206^{+66}_{-63} \quad (-0.4\sigma)$	$H(0.38)$	$83.43^{+0.89}_{-0.88} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.94 \quad (\nu: 0.5) \quad (+0.1\sigma)$
D_{220}	$5716^{+160}_{-160} \quad (+0.4\sigma)$	$D_M(0.38)$	$1518^{+23}_{-23} \quad (-0.1\sigma)$	χ_{CMB}^2	$2976.8 \quad (\nu: 4.8) \quad (+469.3\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 2993.70; \Delta \bar{\chi}_{\text{eff}}^2 = 1724.70; R - 1 = 0.01568$$

2.44 base_CamSpecHM_TE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00056}_{-0.00056} \quad (-0.3\sigma)$	D_{1420}	$827^{+26}_{-26} \quad (+1.2\sigma)$	$H(0.61)$	$95.59^{+0.63}_{-0.65} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1180^{+0.0030}_{-0.0028} \quad (-0.8\sigma)$	D_{2000}	$234.1^{+9.6}_{-9.4} \quad (+1.0\sigma)$	$D_M(0.61)$	$2292^{+30}_{-29} \quad (-0.4\sigma)$
$100\theta_{MC}$	$1.0413^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$n_{s,0.002}$	$0.976^{+0.025}_{-0.025} \quad (+0.9\sigma)$	$H(2.33)$	$235.4^{+1.9}_{-1.8} \quad (-0.9\sigma)$
τ	$0.054^{+0.016}_{-0.012} \quad (-0.3\sigma)$	Y_P	$0.24542^{+0.00023}_{-0.00024} \quad (-0.3\sigma)$	$D_M(2.33)$	$5751^{+32}_{-31} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.043^{+0.035}_{-0.028} \quad (+0.3\sigma)$	Y_P^{BBN}	$0.24675^{+0.00023}_{-0.00024} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.450^{+0.015}_{-0.016} \quad (-0.3\sigma)$
n_s	$0.976^{+0.025}_{-0.025} \quad (+0.9\sigma)$	$10^5 D/H$	$2.57^{+0.11}_{-0.10} \quad (+0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (+0.3\sigma)$
y_{cal}	$1.0002^{+0.0063}_{-0.0065} \quad (-0.1\sigma)$	Age/Gyr	$13.770^{+0.075}_{-0.073} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.013}_{-0.013} \quad (-0.2\sigma)$
H_0	$68.2^{+1.3}_{-1.3} \quad (+0.5\sigma)$	z_*	$1089.65^{+0.83}_{-0.81} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.014}_{-0.012} \quad (+0.4\sigma)$
Ω_Λ	$0.697^{+0.016}_{-0.017} \quad (+0.6\sigma)$	r_*	$144.88^{+0.73}_{-0.75} \quad (+0.9\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.012}_{-0.012} \quad (-0.1\sigma)$
Ω_m	$0.303^{+0.017}_{-0.016} \quad (-0.6\sigma)$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0012} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.012} \quad (+0.4\sigma)$
$\Omega_m h^2$	$0.1411^{+0.0029}_{-0.0026} \quad (-0.8\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.911^{+0.074}_{-0.076} \quad (+0.9\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\Omega_m h^3$	$0.0963^{+0.0012}_{-0.0013} \quad (-0.5\sigma)$	z_{drag}	$1060.0^{+1.2}_{-1.3} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.011} \quad (+0.4\sigma)$
σ_8	$0.808^{+0.017}_{-0.016} \quad (+0.2\sigma)$	r_{drag}	$147.53^{+0.84}_{-0.85} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.2984^{+0.0064}_{-0.0056} \quad (+0.5\sigma)$
S_8	$0.812^{+0.031}_{-0.030} \quad (-0.3\sigma)$	k_D	$0.1405^{+0.0011}_{-0.0011} \quad (-0.8\sigma)$	$\sigma_8(2.33)$	$0.3080^{+0.0067}_{-0.0061} \quad (+0.6\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.445^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$100\theta_D$	$0.16077^{+0.00077}_{-0.00075} \quad (+0.4\sigma)$	$\chi^2_{lensing}$	$9.5 \quad (\nu: 0.5) \quad (-0.5\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.599^{+0.016}_{-0.016} \quad (-0.2\sigma)$	z_{eq}	$3357^{+69}_{-63} \quad (-0.8\sigma)$	χ^2_{small}	$396.5 \quad (\nu: 0.6) \quad (-0.3\sigma)$
$\sigma_8/h^{0.5}$	$0.978^{+0.023}_{-0.023} \quad (-0.0\sigma)$	k_{eq}	$0.01025^{+0.00021}_{-0.00019} \quad (-0.8\sigma)$	$\chi^2_{CamSpec}$	$2580.1 \quad (\nu: 3.6)$
$r_{drag} h$	$100.7^{+2.1}_{-2.2} \quad (+0.7\sigma)$	$100\theta_{eq}$	$0.822^{+0.012}_{-0.013} \quad (+0.8\sigma)$	χ^2_{6DF}	$0.032 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.401^{+0.074}_{-0.071} \quad (-0.7\sigma)$	$100\theta_{s,eq}$	$0.4539^{+0.0059}_{-0.0066} \quad (+0.8\sigma)$	χ^2_{MGS}	$1.88 \quad (\nu: 0.1) \quad (+0.7\sigma)$
z_{re}	$< 9.07 \quad (-0.3\sigma)$	$H(0.15)$	$73.4^{+1.1}_{-1.1} \quad (+0.4\sigma)$	$\chi^2_{DR12BAO}$	$3.88 \quad (\nu: 0.3) \quad (-0.4\sigma)$
$10^9 A_s$	$2.098^{+0.074}_{-0.059} \quad (+0.3\sigma)$	$D_M(0.15)$	$636^{+11}_{-11} \quad (-0.5\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_s e^{-2\tau}$	$1.884^{+0.035}_{-0.035} \quad (+1.0\sigma)$	$H(0.38)$	$83.40^{+0.87}_{-0.88} \quad (+0.3\sigma)$	χ^2_{CMB}	$2986.1 \quad (\nu: 4.7) \quad (+460.8\sigma)$
D_{40}	$1209^{+63}_{-63} \quad (-0.5\sigma)$	$D_M(0.38)$	$1519^{+22}_{-22} \quad (-0.4\sigma)$	χ^2_{BAO}	$5.79 \quad (\nu: 0.3) \quad (-0.1\sigma)$
D_{220}	$5730^{+150}_{-150} \quad (+0.2\sigma)$	$H(0.51)$	$90.03^{+0.73}_{-0.74} \quad (+0.2\sigma)$		
D_{810}	$2555^{+54}_{-52} \quad (+1.4\sigma)$	$D_M(0.51)$	$1969^{+27}_{-26} \quad (-0.4\sigma)$		

$\bar{\chi}^2_{eff} = 3002.87$; $\Delta\bar{\chi}^2_{eff} = 1722.35$; $R - 1 = 0.01685$

2.45 base_CamSpecHM_EE_lowE_BAO

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02359	$0.0235^{+0.0017}_{-0.0016}$	$(+0.1\sigma)$	D_{810}	2607	2605^{+83}_{-85}	$(+0.7\sigma)$	$H(0.51)$	90.47	$90.5^{+1.5}_{-1.4}$	(-0.1σ)
$\Omega_c h^2$	0.11770	$0.1178^{+0.0038}_{-0.0036}$	$(+0.1\sigma)$	D_{1420}	845.0	844^{+37}_{-36}	$(+0.4\sigma)$	$D_M(0.51)$	1957.7	1958^{+45}_{-45}	$(+0.1\sigma)$
$100\theta_{MC}$	1.03937	$1.0395^{+0.0021}_{-0.0020}$	(-0.5σ)	D_{2000}	240.8	240^{+14}_{-13}	$(+0.3\sigma)$	$H(0.61)$	96.03	$96.0^{+1.5}_{-1.3}$	(-0.1σ)
τ	0.0511	$0.051^{+0.021}_{-0.024}$	(-0.1σ)	$n_{s,0.002}$	0.9701	$0.970^{+0.024}_{-0.024}$	(-0.5σ)	$D_M(0.61)$	2279	2280^{+49}_{-51}	$(+0.1\sigma)$
$\ln(10^{10} A_s)$	3.060	$3.059^{+0.053}_{-0.058}$	$(+0.5\sigma)$	Y_P	0.24590	$0.24587^{+0.00067}_{-0.00065}$	$(+0.1\sigma)$	$H(2.33)$	236.12	$236.1^{+2.5}_{-2.6}$	$(+0.1\sigma)$
n_s	0.9701	$0.970^{+0.024}_{-0.024}$	(-0.5σ)	Y_P^{BBN}	0.24723	$0.24720^{+0.00067}_{-0.00065}$	$(+0.1\sigma)$	$D_M(2.33)$	5726	5727^{+74}_{-78}	$(+0.1\sigma)$
y_{cal}	1.0001	$1.0001^{+0.0062}_{-0.0062}$	$(+0.0\sigma)$	$10^5 D/H$	2.373	$2.38^{+0.28}_{-0.26}$	(-0.1σ)	$f\sigma_8(0.15)$	0.4469	$0.447^{+0.025}_{-0.024}$	$(+0.2\sigma)$
H_0	68.66	$68.6^{+2.1}_{-2.1}$	(-0.1σ)	Age/Gyr	13.710	$13.71^{+0.17}_{-0.18}$	$(+0.1\sigma)$	$\sigma_8(0.15)$	0.7447	$0.745^{+0.022}_{-0.023}$	$(+0.2\sigma)$
Ω_Λ	0.6989	$0.699^{+0.022}_{-0.024}$	(-0.2σ)	z_*	1088.26	$1088.3^{+2.0}_{-1.9}$	(-0.1σ)	$f\sigma_8(0.38)$	0.4675	$0.468^{+0.021}_{-0.021}$	$(+0.2\sigma)$
Ω_m	0.3011	$0.301^{+0.024}_{-0.022}$	$(+0.2\sigma)$	r_*	144.09	$144.1^{+1.4}_{-1.3}$	(-0.2σ)	$\sigma_8(0.38)$	0.6613	$0.661^{+0.019}_{-0.020}$	$(+0.2\sigma)$
$\Omega_m h^2$	0.14194	$0.1419^{+0.0035}_{-0.0036}$	$(+0.2\sigma)$	$100\theta_*$	1.03943	$1.0395^{+0.0021}_{-0.0020}$	(-0.5σ)	$f\sigma_8(0.51)$	0.4673	$0.467^{+0.019}_{-0.020}$	$(+0.2\sigma)$
$\Omega_m h^3$	0.09746	$0.0974^{+0.0031}_{-0.0031}$	(-0.0σ)	$D_M(z_*)/\text{Gpc}$	13.862	$13.86^{+0.14}_{-0.13}$	(-0.1σ)	$\sigma_8(0.51)$	0.6193	$0.619^{+0.018}_{-0.019}$	$(+0.2\sigma)$
σ_8	0.8048	$0.805^{+0.025}_{-0.026}$	$(+0.2\sigma)$	z_{drag}	1062.57	$1062.4^{+3.6}_{-3.6}$	$(+0.1\sigma)$	$f\sigma_8(0.61)$	0.4632	$0.463^{+0.017}_{-0.018}$	$(+0.2\sigma)$
S_8	0.8062	$0.807^{+0.049}_{-0.047}$	$(+0.2\sigma)$	r_{drag}	146.35	$146.4^{+1.9}_{-1.8}$	(-0.2σ)	$\sigma_8(0.61)$	0.5896	$0.590^{+0.017}_{-0.018}$	$(+0.2\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4416	$0.442^{+0.027}_{-0.026}$	$(+0.2\sigma)$	k_D	0.14253	$0.1424^{+0.0029}_{-0.0030}$	$(+0.2\sigma)$	$f\sigma_8(2.33)$	0.2977	$0.2977^{+0.0086}_{-0.0089}$	$(+0.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5961	$0.596^{+0.026}_{-0.026}$	$(+0.2\sigma)$	$100\theta_D$	0.15901	$0.1591^{+0.0021}_{-0.0020}$	(-0.2σ)	$\sigma_8(2.33)$	0.3074	$0.3073^{+0.0089}_{-0.0093}$	$(+0.2\sigma)$
$\sigma_8/h^{0.5}$	0.9712	$0.972^{+0.038}_{-0.039}$	$(+0.2\sigma)$	z_{eq}	3377	3377^{+85}_{-85}	$(+0.2\sigma)$	χ_{simall}^2	395.59	$396.7 (\nu: 1.0)$	(-0.0σ)
$r_{drag} h$	100.49	$100.5^{+2.9}_{-2.9}$	(-0.2σ)	k_{eq}	0.010306	$0.01031^{+0.00026}_{-0.00026}$	$(+0.2\sigma)$	$\chi_{CamSpec}^2$	1886.7	$1890.8 (\nu: 4.1)$	
$\langle d^2 \rangle^{1/2}$	2.427	$2.427^{+0.088}_{-0.090}$	$(+0.7\sigma)$	$100\theta_{eq}$	0.8201	$0.820^{+0.015}_{-0.015}$	(-0.2σ)	χ_{6DF}^2	0.000	$0.053 (\nu: 0.0)$	(-0.0σ)
z_{re}	7.07	$7.1^{+2.0}_{-2.6}$	(-0.1σ)	$100\theta_{s,eq}$	0.4520	$0.4520^{+0.0079}_{-0.0077}$	(-0.2σ)	χ_{MGS}^2	1.68	$1.75 (\nu: 0.2)$	(-0.2σ)
$10^9 A_s$	2.133	$2.13^{+0.12}_{-0.12}$	$(+0.5\sigma)$	$H(0.15)$	73.86	$73.8^{+1.9}_{-1.8}$	(-0.1σ)	$\chi_{DR12BAO}^2$	3.85	$4.6 (\nu: 1.0)$	$(+0.2\sigma)$
$10^9 A_s e^{-2\tau}$	1.926	$1.924^{+0.063}_{-0.063}$	$(+0.9\sigma)$	$D_M(0.15)$	632.1	632^{+18}_{-17}	$(+0.1\sigma)$	χ_{prior}^2	10.03	$11.0 (\nu: 0.9)$	$(+6.9\sigma)$
D_{40}	1260	1259^{+76}_{-77}	$(+0.9\sigma)$	$H(0.38)$	83.83	$83.8^{+1.7}_{-1.6}$	(-0.1σ)	χ_{BAO}^2	5.52	$6.4 (\nu: 0.8)$	$(+0.0\sigma)$
D_{220}	6001	5991^{+330}_{-340}	$(+0.7\sigma)$	$D_M(0.38)$	1510.0	1511^{+37}_{-37}	$(+0.1\sigma)$	χ_{CMB}^2	2282.3	$2287.4 (\nu: 5.1)$	$(+349.5\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 2297.82$; $\Delta\chi_{\text{eff}}^2 = 1157.65$; $\bar{\chi}_{\text{eff}}^2 = 2304.89$; $\Delta\bar{\chi}_{\text{eff}}^2 = 1157.53$; $R - 1 = 0.00669$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.68 (Δ -0.21) DR12BAO: 3.85 (Δ 0.25) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.59 (Δ -0.03) CamSpec like_10.7HM_1400_unified: 1886.67

2.46 base_CamSpecHM_EE_lowE_BAO_post_lensing

Parameter	99% limits		Parameter	99% limits		Parameter	99% limits	
$\Omega_b h^2$	$0.0233^{+0.0014}_{-0.0014}$	(-0.3σ)	D_{1420}	835^{+30}_{-29}	(-0.1σ)	$H(0.61)$	$95.9^{+1.4}_{-1.3}$	(-0.4σ)
$\Omega_c h^2$	$0.1172^{+0.0034}_{-0.0034}$	(-0.1σ)	D_{2000}	237^{+11}_{-11}	(-0.2σ)	$D_M(0.61)$	2282^{+51}_{-49}	$(+0.3\sigma)$
$100\theta_{MC}$	$1.0395^{+0.0020}_{-0.0020}$	(-0.4σ)	$n_{s,0.002}$	$0.969^{+0.024}_{-0.025}$	(-0.6σ)	$H(2.33)$	$235.5^{+2.0}_{-2.0}$	(-0.4σ)
τ	$0.049^{+0.018}_{-0.021}$	(-0.3σ)	Y_P	$0.24576^{+0.00054}_{-0.00058}$	(-0.3σ)	$D_M(2.33)$	5737^{+69}_{-69}	$(+0.4\sigma)$
$\ln(10^{10} A_s)$	$3.045^{+0.039}_{-0.042}$	(-0.0σ)	Y_P^{BBN}	$0.24708^{+0.00054}_{-0.00058}$	(-0.3σ)	$f\sigma_8(0.15)$	$0.442^{+0.022}_{-0.021}$	(-0.1σ)
n_s	$0.969^{+0.024}_{-0.025}$	(-0.6σ)	$10^5 D/H$	$2.43^{+0.25}_{-0.23}$	$(+0.3\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.017}_{-0.017}$	(-0.3σ)
y_{cal}	$0.9998^{+0.0064}_{-0.0062}$	(-0.1σ)	Age/Gyr	$13.74^{+0.16}_{-0.16}$	$(+0.4\sigma)$	$f\sigma_8(0.38)$	$0.463^{+0.018}_{-0.018}$	(-0.1σ)
H_0	$68.6^{+2.0}_{-2.1}$	(-0.2σ)	z_*	$1088.6^{+2.0}_{-1.7}$	$(+0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.015}_{-0.014}$	(-0.3σ)
Ω_Λ	$0.700^{+0.021}_{-0.024}$	(-0.1σ)	r_*	$144.5^{+1.1}_{-0.98}$	$(+0.5\sigma)$	$f\sigma_8(0.51)$	$0.463^{+0.016}_{-0.016}$	(-0.2σ)
Ω_m	$0.300^{+0.024}_{-0.021}$	$(+0.1\sigma)$	$100\theta_*$	$1.0396^{+0.0021}_{-0.0020}$	(-0.4σ)	$\sigma_8(0.51)$	$0.614^{+0.014}_{-0.013}$	(-0.3σ)
$\Omega_m h^2$	$0.1411^{+0.0030}_{-0.0029}$	(-0.3σ)	$D_M(z_*)/\text{Gpc}$	$13.90^{+0.11}_{-0.10}$	$(+0.5\sigma)$	$f\sigma_8(0.61)$	$0.459^{+0.014}_{-0.014}$	(-0.2σ)
$\Omega_m h^3$	$0.0968^{+0.0026}_{-0.0027}$	(-0.5σ)	z_{drag}	$1061.7^{+3.1}_{-3.2}$	(-0.3σ)	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.013}$	(-0.3σ)
σ_8	$0.798^{+0.019}_{-0.019}$	(-0.3σ)	r_{drag}	$146.9^{+1.4}_{-1.3}$	$(+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2954^{+0.0067}_{-0.0068}$	(-0.3σ)
S_8	$0.798^{+0.042}_{-0.041}$	(-0.1σ)	k_D	$0.1417^{+0.0023}_{-0.0025}$	(-0.4σ)	$\sigma_8(2.33)$	$0.3051^{+0.0070}_{-0.0075}$	(-0.3σ)
$\sigma_8 \Omega_m^{0.5}$	$0.437^{+0.023}_{-0.022}$	(-0.1σ)	$100\theta_D$	$0.1595^{+0.0018}_{-0.0017}$	$(+0.2\sigma)$	$\chi^2_{lensing}$	$9.3 (\nu: 1.0)$	$(+0.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.590^{+0.022}_{-0.022}$	(-0.1σ)	z_{eq}	3356^{+71}_{-70}	(-0.3σ)	χ^2_{small}	$396.7 (\nu: 0.9)$	$(+0.0\sigma)$
$\sigma_8/h^{0.5}$	$0.963^{+0.032}_{-0.033}$	(-0.1σ)	k_{eq}	$0.01024^{+0.00022}_{-0.00021}$	(-0.3σ)	$\chi^2_{CamSpec}$	$1890.9 (\nu: 3.7)$	
$r_{drag} h$	$100.8^{+2.8}_{-2.8}$	(-0.1σ)	$100\theta_{eq}$	$0.823^{+0.014}_{-0.013}$	$(+0.2\sigma)$	χ^2_{6DF}	$0.052 (\nu: 0.0)$	(-0.0σ)
$\langle d^2 \rangle^{1/2}$	$2.408^{+0.075}_{-0.080}$	$(+0.3\sigma)$	$100\theta_{s,eq}$	$0.4538^{+0.0066}_{-0.0066}$	$(+0.2\sigma)$	χ^2_{MGS}	$1.93 (\nu: 0.2)$	(-0.1σ)
z_{re}	$6.8^{+1.8}_{-2.5}$	(-0.3σ)	$H(0.15)$	$73.8^{+1.9}_{-1.9}$	(-0.2σ)	$\chi^2_{DR12BAO}$	$4.3 (\nu: 0.6)$	$(+0.0\sigma)$
$10^9 A_s$	$2.101^{+0.083}_{-0.086}$	(-0.0σ)	$D_M(0.15)$	633^{+18}_{-17}	$(+0.2\sigma)$	χ^2_{prior}	$11.0 (\nu: 1.0)$	$(+7.3\sigma)$
$10^9 A_s e^{-2\tau}$	$1.906^{+0.045}_{-0.043}$	$(+0.5\sigma)$	$H(0.38)$	$83.7^{+1.6}_{-1.5}$	(-0.3σ)	χ^2_{CMB}	$2296.9 (\nu: 5.2)$	$(+347.6\sigma)$
D_{40}	1249^{+70}_{-68}	$(+0.7\sigma)$	$D_M(0.38)$	1512^{+38}_{-36}	$(+0.2\sigma)$	χ^2_{BAO}	$6.3 (\nu: 0.7)$	(-0.0σ)
D_{220}	5930^{+290}_{-280}	$(+0.4\sigma)$	$H(0.51)$	$90.3^{+1.4}_{-1.4}$	(-0.3σ)			
D_{810}	2582^{+65}_{-63}	$(+0.3\sigma)$	$D_M(0.51)$	1960^{+47}_{-44}	$(+0.3\sigma)$			

$\bar{\chi}^2_{eff} = 2314.19$; $\Delta\bar{\chi}^2_{eff} = 1158.51$; $R - 1 = 0.00959$

2.47 base_CamSpecHM_EE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0235^{+0.0017}_{-0.0016} \quad (+0.1\sigma)$	D_{810}	$2603^{+84}_{-85} \quad (+0.7\sigma)$	$H(0.51)$	$90.4^{+1.5}_{-1.4} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1177^{+0.0037}_{-0.0035} \quad (+0.1\sigma)$	D_{1420}	$843^{+37}_{-36} \quad (+0.4\sigma)$	$D_M(0.51)$	$1959^{+44}_{-45} \quad (+0.1\sigma)$
$100\theta_{MC}$	$1.0395^{+0.0021}_{-0.0020} \quad (-0.5\sigma)$	D_{2000}	$240^{+14}_{-13} \quad (+0.3\sigma)$	$H(0.61)$	$96.0^{+1.5}_{-1.3} \quad (-0.1\sigma)$
τ	$0.054^{+0.017}_{-0.011} \quad (-0.1\sigma)$	$n_{s,0.002}$	$0.970^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$D_M(0.61)$	$2281^{+49}_{-50} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.065^{+0.051}_{-0.043} \quad (+0.6\sigma)$	Y_P	$0.24586^{+0.00068}_{-0.00065} \quad (+0.1\sigma)$	$H(2.33)$	$236.1^{+2.4}_{-2.6} \quad (+0.1\sigma)$
n_s	$0.970^{+0.024}_{-0.023} \quad (-0.5\sigma)$	Y_P^{BBN}	$0.24719^{+0.00068}_{-0.00066} \quad (+0.1\sigma)$	$D_M(2.33)$	$5727^{+74}_{-78} \quad (+0.1\sigma)$
y_{cal}	$1.0001^{+0.0062}_{-0.0062} \quad (+0.0\sigma)$	$10^5 D/H$	$2.39^{+0.28}_{-0.26} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.025}_{-0.024} \quad (+0.2\sigma)$
H_0	$68.6^{+2.1}_{-2.0} \quad (-0.1\sigma)$	Age/Gyr	$13.71^{+0.17}_{-0.18} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.021}_{-0.020} \quad (+0.2\sigma)$
Ω_Λ	$0.699^{+0.021}_{-0.024} \quad (-0.2\sigma)$	z_*	$1088.4^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.020}_{-0.020} \quad (+0.2\sigma)$
Ω_m	$0.301^{+0.024}_{-0.021} \quad (+0.2\sigma)$	r_*	$144.1^{+1.4}_{-1.3} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.018}_{-0.016} \quad (+0.2\sigma)$
$\Omega_m h^2$	$0.1419^{+0.0035}_{-0.0035} \quad (+0.1\sigma)$	$100\theta_*$	$1.0395^{+0.0021}_{-0.0020} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.018}_{-0.018} \quad (+0.3\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0032}_{-0.0031} \quad (-0.0\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.87^{+0.14}_{-0.13} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.017}_{-0.015} \quad (+0.2\sigma)$
σ_8	$0.807^{+0.023}_{-0.022} \quad (+0.3\sigma)$	z_{drag}	$1062.4^{+3.6}_{-3.6} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.017}_{-0.016} \quad (+0.3\sigma)$
S_8	$0.809^{+0.048}_{-0.046} \quad (+0.2\sigma)$	r_{drag}	$146.4^{+1.9}_{-1.8} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.016}_{-0.014} \quad (+0.2\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.026}_{-0.025} \quad (+0.2\sigma)$	k_D	$0.1424^{+0.0030}_{-0.0030} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2986^{+0.0080}_{-0.0070} \quad (+0.2\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.598^{+0.025}_{-0.024} \quad (+0.3\sigma)$	$100\theta_D$	$0.1591^{+0.0022}_{-0.0020} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3083^{+0.0083}_{-0.0071} \quad (+0.2\sigma)$
$\sigma_8/h^{0.5}$	$0.975^{+0.036}_{-0.035} \quad (+0.3\sigma)$	z_{eq}	$3376^{+83}_{-84} \quad (+0.1\sigma)$	χ^2_{simall}	$396.4 \quad (\nu: 0.8) \quad (-0.0\sigma)$
$r_{drag} h$	$100.5^{+2.8}_{-2.8} \quad (-0.2\sigma)$	k_{eq}	$0.01030^{+0.00025}_{-0.00026} \quad (+0.1\sigma)$	$\chi^2_{CamSpec}$	$1890.7 \quad (\nu: 4.0)$
$\langle d^2 \rangle^{1/2}$	$2.434^{+0.083}_{-0.083} \quad (+0.7\sigma)$	$100\theta_{eq}$	$0.820^{+0.015}_{-0.015} \quad (-0.2\sigma)$	χ^2_{6DF}	$0.052 \quad (\nu: 0.0) \quad (-0.0\sigma)$
z_{re}	$< 8.92 \quad (-0.1\sigma)$	$100\theta_{s,eq}$	$0.4521^{+0.0078}_{-0.0076} \quad (-0.2\sigma)$	χ^2_{MGS}	$1.75 \quad (\nu: 0.2) \quad (-0.2\sigma)$
$10^9 A_s$	$2.14^{+0.11}_{-0.090} \quad (+0.6\sigma)$	$H(0.15)$	$73.8^{+1.9}_{-1.8} \quad (-0.1\sigma)$	$\chi^2_{DR12BAO}$	$4.6 \quad (\nu: 1.0) \quad (+0.2\sigma)$
$10^9 A_s e^{-2\tau}$	$1.923^{+0.063}_{-0.063} \quad (+0.9\sigma)$	$D_M(0.15)$	$632^{+18}_{-17} \quad (+0.1\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 0.9) \quad (+6.8\sigma)$
D_{40}	$1259^{+76}_{-76} \quad (+0.9\sigma)$	$H(0.38)$	$83.8^{+1.7}_{-1.6} \quad (-0.1\sigma)$	χ^2_{BAO}	$6.4 \quad (\nu: 0.8) \quad (+0.0\sigma)$
D_{220}	$5986^{+340}_{-340} \quad (+0.8\sigma)$	$D_M(0.38)$	$1511^{+37}_{-37} \quad (+0.1\sigma)$	χ^2_{CMB}	$2287.1 \quad (\nu: 4.7) \quad (+354.3\sigma)$

$$\bar{\chi}^2_{\text{eff}} = 2304.51; \Delta \bar{\chi}^2_{\text{eff}} = 1157.44; R - 1 = 0.01190$$

2.48 base_CamSpecHM_EE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits		Parameter	99% limits		Parameter	99% limits	
$\Omega_b h^2$	$0.0232^{+0.0015}_{-0.0014}$	(-0.3σ)	D_{1420}	833^{+28}_{-29}	(-0.1σ)	$H(0.61)$	$95.8^{+1.3}_{-1.3}$	(-0.4σ)
$\Omega_c h^2$	$0.1171^{+0.0037}_{-0.0033}$	(-0.2σ)	D_{2000}	237^{+10}_{-10}	(-0.2σ)	$D_M(0.61)$	2283^{+50}_{-47}	$(+0.3\sigma)$
$100\theta_{MC}$	$1.0395^{+0.0022}_{-0.0019}$	(-0.4σ)	$n_{s,0.002}$	$0.969^{+0.024}_{-0.025}$	(-0.5σ)	$H(2.33)$	$235.3^{+2.1}_{-2.1}$	(-0.5σ)
τ	$0.0526^{+0.014}_{-0.0091}$	(-0.3σ)	Y_P	$0.24573^{+0.00055}_{-0.00060}$	(-0.3σ)	$D_M(2.33)$	5739^{+68}_{-67}	$(+0.4\sigma)$
$\ln(10^{10} A_s)$	$3.051^{+0.035}_{-0.029}$	$(+0.1\sigma)$	Y_P^{BBN}	$0.24706^{+0.00055}_{-0.00061}$	(-0.3σ)	$f\sigma_8(0.15)$	$0.444^{+0.022}_{-0.020}$	(-0.1σ)
n_s	$0.969^{+0.024}_{-0.025}$	(-0.5σ)	$10^5 D/H$	$2.44^{+0.26}_{-0.23}$	$(+0.3\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.016}_{-0.015}$	(-0.3σ)
y_{cal}	$0.9997^{+0.0062}_{-0.0057}$	(-0.1σ)	Age/Gyr	$13.74^{+0.16}_{-0.15}$	$(+0.4\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.018}_{-0.017}$	(-0.1σ)
H_0	$68.6^{+2.0}_{-2.1}$	(-0.2σ)	z_*	$1088.7^{+2.0}_{-1.8}$	$(+0.3\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.014}_{-0.012}$	(-0.3σ)
Ω_Λ	$0.700^{+0.021}_{-0.024}$	(-0.1σ)	r_*	$144.6^{+1.0}_{-0.93}$	$(+0.5\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.015}_{-0.015}$	(-0.1σ)
Ω_m	$0.300^{+0.024}_{-0.021}$	$(+0.1\sigma)$	$100\theta_*$	$1.0396^{+0.0022}_{-0.0019}$	(-0.4σ)	$\sigma_8(0.51)$	$0.616^{+0.012}_{-0.011}$	(-0.3σ)
$\Omega_m h^2$	$0.1409^{+0.0031}_{-0.0028}$	(-0.4σ)	$D_M(z_*)/\text{Gpc}$	$13.90^{+0.11}_{-0.097}$	$(+0.6\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.013}_{-0.013}$	(-0.2σ)
$\Omega_m h^3$	$0.0967^{+0.0025}_{-0.0027}$	(-0.5σ)	z_{drag}	$1061.6^{+3.1}_{-3.0}$	(-0.4σ)	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.011}$	(-0.3σ)
σ_8	$0.800^{+0.018}_{-0.018}$	(-0.2σ)	r_{drag}	$147.0^{+1.4}_{-1.2}$	$(+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2964^{+0.0061}_{-0.0050}$	(-0.3σ)
S_8	$0.800^{+0.043}_{-0.039}$	(-0.1σ)	k_D	$0.1416^{+0.0021}_{-0.0024}$	(-0.5σ)	$\sigma_8(2.33)$	$0.3061^{+0.0064}_{-0.0056}$	(-0.3σ)
$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.024}_{-0.022}$	(-0.1σ)	$100\theta_D$	$0.1596^{+0.0019}_{-0.0017}$	$(+0.3\sigma)$	$\chi^2_{lensing}$	$9.4 (\nu: 1.1) (+0.3\sigma)$	
$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.021}_{-0.020}$	(-0.1σ)	z_{eq}	3352^{+75}_{-67}	(-0.4σ)	χ^2_{small}	$396.15 (\nu: 0.3) (-0.2\sigma)$	
$\sigma_8/h^{0.5}$	$0.966^{+0.030}_{-0.031}$	(-0.1σ)	k_{eq}	$0.01023^{+0.00023}_{-0.00021}$	(-0.4σ)	$\chi^2_{CamSpec}$	$1890.9 (\nu: 3.8)$	
$r_{drag} h$	$100.8^{+2.6}_{-2.8}$	(-0.1σ)	$100\theta_{eq}$	$0.824^{+0.013}_{-0.014}$	$(+0.2\sigma)$	χ^2_{6DF}	$0.052 (\nu: 0.0) (-0.1\sigma)$	
$\langle d^2 \rangle^{1/2}$	$2.414^{+0.073}_{-0.065}$	$(+0.4\sigma)$	$100\theta_{s,eq}$	$0.4541^{+0.0063}_{-0.0068}$	$(+0.3\sigma)$	χ^2_{MGS}	$1.96 (\nu: 0.2) (-0.1\sigma)$	
z_{re}	< 8.65	(-0.2σ)	$H(0.15)$	$73.8^{+1.8}_{-1.9}$	(-0.2σ)	$\chi^2_{DR12BAO}$	$4.3 (\nu: 0.5) (-0.0\sigma)$	
$10^9 A_s$	$2.114^{+0.074}_{-0.060}$	$(+0.1\sigma)$	$D_M(0.15)$	633^{+18}_{-17}	$(+0.2\sigma)$	χ^2_{prior}	$11.0 (\nu: 0.8) (+7.1\sigma)$	
$10^9 A_s e^{-2\tau}$	$1.903^{+0.042}_{-0.042}$	$(+0.5\sigma)$	$H(0.38)$	$83.7^{+1.5}_{-1.5}$	(-0.3σ)	χ^2_{CMB}	$2296.5 (\nu: 5.0) (+351.1\sigma)$	
D_{40}	1246^{+69}_{-70}	$(+0.6\sigma)$	$D_M(0.38)$	1512^{+38}_{-36}	$(+0.2\sigma)$	χ^2_{BAO}	$6.3 (\nu: 0.7) (-0.1\sigma)$	
D_{220}	5914^{+280}_{-280}	$(+0.4\sigma)$	$H(0.51)$	$90.3^{+1.4}_{-1.4}$	(-0.3σ)			
D_{810}	2577^{+60}_{-60}	$(+0.3\sigma)$	$D_M(0.51)$	1961^{+46}_{-43}	$(+0.3\sigma)$			

$$\bar{\chi}^2_{eff} = 2313.75; \Delta\bar{\chi}^2_{eff} = 1158.36; R - 1 = 0.00861$$

2.49 base_plikHM_TE_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02245	$0.02246^{+0.00065}_{-0.00065}$	$\langle d^2 \rangle^{1/2}$	2.430	$2.427^{+0.084}_{-0.090}$	$H(0.15)$	72.97	$73.0^{+1.9}_{-1.7}$
$\Omega_c h^2$	0.11952	$0.1195^{+0.0043}_{-0.0045}$	z_{re}	7.53	$7.5^{+2.0}_{-2.2}$	$D_M(0.15)$	640.6	640^{+17}_{-18}
$100\theta_{\text{MC}}$	1.04120	$1.0412^{+0.0013}_{-0.0013}$	$10^9 A_s$	2.082	$2.083^{+0.088}_{-0.080}$	$H(0.38)$	83.09	$83.1^{+1.4}_{-1.2}$
τ	0.0531	$0.053^{+0.021}_{-0.020}$	$10^9 A_s e^{-2\tau}$	1.8725	$1.872^{+0.035}_{-0.035}$	$D_M(0.38)$	1527.7	1527^{+34}_{-36}
$\ln(10^{10} A_s)$	3.0360	$3.036^{+0.041}_{-0.039}$	D_{40}	1227	1224^{+68}_{-67}	$H(0.51)$	89.81	$89.8^{+1.1}_{-1.0}$
n_s	0.9645	$0.966^{+0.030}_{-0.030}$	D_{220}	5722	5716^{+140}_{-150}	$D_M(0.51)$	1979.1	1978^{+40}_{-42}
y_{cal}	1.0005	$1.0004^{+0.0064}_{-0.0064}$	D_{810}	2527	2527^{+57}_{-57}	$H(0.61)$	95.44	$95.46^{+0.93}_{-0.83}$
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.098}$	D_{1420}	813.1	814^{+29}_{-29}	$D_M(0.61)$	2302.9	2302^{+43}_{-46}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.136^{+0.075}_{-0.075}$	D_{2000}	229.6	230^{+11}_{-10}	$H(2.33)$	236.35	$236.3^{+2.5}_{-2.7}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.22}$	$n_{s,0.002}$	0.9645	$0.966^{+0.030}_{-0.030}$	$D_M(2.33)$	5755.5	5755^{+40}_{-42}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	Y_P	0.245426	$0.24543^{+0.00028}_{-0.00029}$	$f\sigma_8(0.15)$	0.4543	$0.454^{+0.021}_{-0.023}$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	Y_P^{BBN}	0.246753	$0.24675^{+0.00028}_{-0.00029}$	$\sigma_8(0.15)$	0.7448	$0.745^{+0.017}_{-0.016}$
A_{217}^{dustTE}	2.06	$2.06^{+0.70}_{-0.69}$	10^5D/H	2.571	$2.57^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	0.4726	$0.473^{+0.017}_{-0.018}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	Age/Gyr	13.779	$13.777^{+0.091}_{-0.095}$	$\sigma_8(0.38)$	0.6603	$0.660^{+0.015}_{-0.014}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0016}$	z_*	1089.78	$1089.8^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	0.4712	$0.471^{+0.014}_{-0.015}$
H_0	67.68	$67.7^{+2.2}_{-1.9}$	r_*	144.49	$144.5^{+1.0}_{-0.94}$	$\sigma_8(0.51)$	0.6179	$0.618^{+0.015}_{-0.014}$
Ω_Λ	0.6886	$0.689^{+0.027}_{-0.027}$	$100\theta_*$	1.04137	$1.0414^{+0.0013}_{-0.0013}$	$f\sigma_8(0.61)$	0.4663	$0.466^{+0.013}_{-0.014}$
Ω_m	0.3114	$0.311^{+0.027}_{-0.027}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.876^{+0.098}_{-0.090}$	$\sigma_8(0.61)$	0.5879	$0.588^{+0.014}_{-0.013}$
$\Omega_m h^2$	0.14262	$0.1426^{+0.0040}_{-0.0042}$	z_{drag}	1060.09	$1060.1^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.2964	$0.2966^{+0.0077}_{-0.0072}$
$\Omega_m h^3$	0.09653	$0.0965^{+0.0013}_{-0.0013}$	r_{drag}	147.13	$147.1^{+1.1}_{-0.96}$	$\sigma_8(2.33)$	0.3056	$0.3058^{+0.0086}_{-0.0079}$
σ_8	0.8060	$0.806^{+0.018}_{-0.018}$	k_D	0.14089	$0.1409^{+0.0012}_{-0.0013}$	χ^2_{lensing}	9.54	10.4 (ν : 1.6)
S_8	0.8212	$0.821^{+0.043}_{-0.045}$	$100\theta_D$	0.16071	$0.16070^{+0.00083}_{-0.00076}$	χ^2_{simall}	395.85	396.8 (ν : 1.2)
$\sigma_8 \Omega_m^{0.5}$	0.4498	$0.450^{+0.023}_{-0.025}$	z_{eq}	3393	3392^{+95}_{-100}	χ^2_{plikTE}	854.4	860.7 (ν : 7.0)
$\sigma_8 \Omega_m^{0.25}$	0.6021	$0.602^{+0.020}_{-0.022}$	k_{eq}	0.010355	$0.01035^{+0.00029}_{-0.00031}$	χ^2_{prior}	0.5	7.4 (ν : 6.8)
$\sigma_8/h^{0.5}$	0.9798	$0.980^{+0.028}_{-0.030}$	$100\theta_{\text{eq}}$	0.8154	$0.816^{+0.020}_{-0.018}$	χ^2_{CMB}	1259.8	1268.0 (ν : 8.3)
$r_{\text{drag}} h$	99.58	$99.6^{+3.7}_{-3.3}$	$100\theta_{s,\text{eq}}$	0.4504	$0.451^{+0.010}_{-0.0091}$			

Best-fit $\chi^2_{\text{eff}} = 1260.24$; $\bar{\chi}^2_{\text{eff}} = 1275.40$; $R - 1 = 0.00470$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp-p.teb.consext8: 9.54 simall_100x143_offlike5_EE_Aplanck_B: 395.85 plik_rd12_HM_v22_TE: 854.38

2.50 base_plikHM_TE_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02247^{+0.00065}_{-0.00065}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.083}_{-0.090}$	$H(0.15)$	$73.0^{+1.8}_{-1.6}$
$\Omega_{\mathrm{c}} h^2$	$0.1194^{+0.0041}_{-0.0045}$	z_{re}	< 9.33	$D_{\mathrm{M}}(0.15)$	640^{+17}_{-18}
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0013}_{-0.0013}$	$10^9 A_{\mathrm{s}}$	$2.088^{+0.084}_{-0.062}$	$H(0.38)$	$83.1^{+1.4}_{-1.2}$
τ	$0.055^{+0.019}_{-0.013}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.035}_{-0.036}$	$D_{\mathrm{M}}(0.38)$	1527^{+33}_{-36}
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.040}_{-0.030}$	D_{40}	1223^{+66}_{-67}	$H(0.51)$	$89.9^{+1.1}_{-0.99}$
n_{s}	$0.966^{+0.030}_{-0.029}$	D_{220}	5715^{+140}_{-150}	$D_{\mathrm{M}}(0.51)$	1978^{+39}_{-42}
y_{cal}	$1.0004^{+0.0064}_{-0.0065}$	D_{810}	2526^{+57}_{-57}	$H(0.61)$	$95.47^{+0.93}_{-0.82}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.097}_{-0.098}$	D_{1420}	814^{+29}_{-28}	$D_{\mathrm{M}}(0.61)$	2301^{+42}_{-46}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.136^{+0.075}_{-0.075}$	D_{2000}	230^{+11}_{-10}	$H(2.33)$	$236.3^{+2.5}_{-2.7}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5754^{+40}_{-43}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	Y_{P}	$0.24543^{+0.00028}_{-0.00029}$	$f\sigma_8(0.15)$	$0.454^{+0.021}_{-0.023}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00028}_{-0.00029}$	$\sigma_8(0.15)$	$0.746^{+0.016}_{-0.015}$
$A_{217}^{\mathrm{dustTE}}$	$2.06^{+0.70}_{-0.69}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.57^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.018}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.776^{+0.091}_{-0.095}$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.013}$
c_{217}	$0.9980^{+0.0017}_{-0.0016}$	z_*	$1089.7^{+1.0}_{-1.0}$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.016}$
H_0	$67.8^{+2.1}_{-1.9}$	r_*	$144.5^{+1.0}_{-0.93}$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.012}$
Ω_{Λ}	$0.689^{+0.027}_{-0.026}$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0013}$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.014}$
Ω_{m}	$0.311^{+0.026}_{-0.027}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.878^{+0.097}_{-0.089}$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.011}$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0039}_{-0.0042}$	z_{drag}	$1060.1^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	$0.2969^{+0.0074}_{-0.0059}$
$\Omega_{\mathrm{m}} h^3$	$0.0965^{+0.0013}_{-0.0013}$	r_{drag}	$147.2^{+1.1}_{-0.96}$	$\sigma_8(2.33)$	$0.3062^{+0.0083}_{-0.0065}$
σ_8	$0.807^{+0.018}_{-0.017}$	k_{D}	$0.1409^{+0.0012}_{-0.0013}$	$\chi_{\mathrm{lensing}}^2$	$10.3 (\nu: 1.6)$
S_8	$0.821^{+0.043}_{-0.045}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00083}_{-0.00077}$	χ_{simall}^2	$396.8 (\nu: 1.2)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.023}_{-0.025}$	z_{eq}	3389^{+93}_{-100}	χ_{plikTE}^2	$860.6 (\nu: 6.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.020}_{-0.022}$	k_{eq}	$0.01034^{+0.00029}_{-0.00030}$	χ_{prior}^2	$7.5 (\nu: 6.8)$
$\sigma_8/h^{0.5}$	$0.980^{+0.028}_{-0.030}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.020}_{-0.017}$	χ_{CMB}^2	$1267.7 (\nu: 8.0)$
$r_{\mathrm{drag}} h$	$99.7^{+3.6}_{-3.2}$	$100\theta_{\mathrm{s,eq}}$	$0.451^{+0.010}_{-0.0089}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1275.15$; $R - 1 = 0.00477$

2.51 base_plikHM_EE_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02393	$0.0240^{+0.0027}_{-0.0024}$	D_{220}	5958	5969^{+430}_{-390}	$H(0.38)$	84.66	$84.8^{+3.9}_{-3.3}$
$\Omega_c h^2$	0.1157	$0.1155^{+0.0077}_{-0.0077}$	D_{810}	2588	2590^{+86}_{-92}	$D_M(0.38)$	1489	1487^{+83}_{-86}
$100\theta_{MC}$	1.03995	$1.0400^{+0.0021}_{-0.0022}$	D_{1420}	843.0	844^{+42}_{-45}	$H(0.51)$	91.16	$91.3^{+3.5}_{-2.9}$
τ	0.0529	$0.053^{+0.021}_{-0.023}$	D_{2000}	240.9	241^{+16}_{-17}	$D_M(0.51)$	1933	1930^{+100}_{-100}
$\ln(10^{10} A_s)$	3.0513	$3.052^{+0.047}_{-0.048}$	$n_{s,0.002}$	0.9790	$0.980^{+0.033}_{-0.032}$	$H(0.61)$	96.62	$96.7^{+3.1}_{-2.5}$
n_s	0.9790	$0.980^{+0.033}_{-0.032}$	Y_P	0.24602	$0.2460^{+0.0010}_{-0.00099}$	$D_M(0.61)$	2253	2250^{+110}_{-110}
y_{cal}	0.99998	$0.99996^{+0.0066}_{-0.0066}$	Y_P^{BBN}	0.24735	$0.2474^{+0.0010}_{-0.00099}$	$H(2.33)$	235.17	$235.2^{+3.2}_{-3.1}$
H_0	69.9	$70.0^{+5.2}_{-4.7}$	$10^5 D/H$	2.319	$2.31^{+0.41}_{-0.38}$	$D_M(2.33)$	5699	5693^{+130}_{-140}
Ω_Λ	0.713	$0.713^{+0.048}_{-0.055}$	Age/Gyr	13.650	$13.64^{+0.29}_{-0.32}$	$f\sigma_8(0.15)$	0.4327	$0.432^{+0.045}_{-0.047}$
Ω_m	0.287	$0.287^{+0.055}_{-0.048}$	z_*	1087.72	$1087.7^{+3.4}_{-3.2}$	$\sigma_8(0.15)$	0.7376	$0.737^{+0.020}_{-0.022}$
$\Omega_m h^2$	0.1402	$0.1402^{+0.0058}_{-0.0056}$	r_*	144.36	$144.3^{+1.0}_{-1.0}$	$f\sigma_8(0.38)$	0.4560	$0.455^{+0.034}_{-0.039}$
$\Omega_m h^3$	0.09799	$0.0982^{+0.0042}_{-0.0037}$	$100\theta_*$	1.03998	$1.0400^{+0.0020}_{-0.0022}$	$\sigma_8(0.38)$	0.6565	$0.656^{+0.016}_{-0.016}$
σ_8	0.7956	$0.795^{+0.024}_{-0.029}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.88^{+0.11}_{-0.11}$	$f\sigma_8(0.51)$	0.4575	$0.456^{+0.029}_{-0.033}$
S_8	0.778	$0.777^{+0.090}_{-0.091}$	z_{drag}	1063.1	$1063.3^{+5.2}_{-4.9}$	$\sigma_8(0.51)$	0.6155	$0.615^{+0.014}_{-0.014}$
$\sigma_8 \Omega_m^{0.5}$	0.4263	$0.425^{+0.049}_{-0.050}$	r_{drag}	146.53	$146.5^{+1.4}_{-1.4}$	$f\sigma_8(0.61)$	0.4545	$0.454^{+0.024}_{-0.029}$
$\sigma_8 \Omega_m^{0.25}$	0.5824	$0.581^{+0.041}_{-0.044}$	k_D	0.14255	$0.1426^{+0.0028}_{-0.0028}$	$\sigma_8(0.61)$	0.5864	$0.586^{+0.014}_{-0.013}$
$\sigma_8/h^{0.5}$	0.952	$0.950^{+0.058}_{-0.065}$	$100\theta_D$	0.15876	$0.1587^{+0.0028}_{-0.0025}$	$f\sigma_8(2.33)$	0.2967	$0.2965^{+0.0070}_{-0.0069}$
$r_{drag} h$	102.4	$102.6^{+7.2}_{-6.7}$	z_{eq}	3336	3335^{+140}_{-130}	$\sigma_8(2.33)$	0.3070	$0.3069^{+0.0079}_{-0.0085}$
$\langle d^2 \rangle^{1/2}$	2.375	$2.37^{+0.12}_{-0.12}$	k_{eq}	0.010181	$0.01018^{+0.00042}_{-0.00041}$	$\chi^2_{lensing}$	8.16	$9.2 (\nu: 0.6)$
z_{re}	7.15	$7.1^{+2.0}_{-2.4}$	$100\theta_{eq}$	0.8290	$0.830^{+0.032}_{-0.030}$	χ^2_{simall}	395.58	$396.6 (\nu: 0.9)$
$10^9 A_s$	2.114	$2.12^{+0.10}_{-0.10}$	$100\theta_{s,eq}$	0.4564	$0.457^{+0.015}_{-0.014}$	χ^2_{plikEE}	738.9	$742.9 (\nu: 3.5)$
$10^9 A_s e^{-2\tau}$	1.9019	$1.903^{+0.049}_{-0.048}$	$H(0.15)$	74.93	$75.1^{+4.7}_{-4.2}$	χ^2_{prior}	0.00	$1.0 (\nu: 1.1)$
D_{40}	1231	1231^{+70}_{-71}	$D_M(0.15)$	622.1	621^{+40}_{-41}	χ^2_{CMB}	1142.7	$1148.7 (\nu: 5.6)$

Best-fit $\chi^2_{eff} = 1142.70$; $\bar{\chi}^2_{eff} = 1149.74$; $R - 1 = 0.00580$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.16 simall_100x143_offlike5_EE_Aplanck_B: 395.58 plik_rd12_HM_v22_EE: 738.95

2.52 base_plikHM_EE_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0240^{+0.0027}_{-0.0024}$	D_{220}	5967^{+430}_{-400}	$H(0.38)$	$84.9^{+3.9}_{-3.4}$
$\Omega_{\text{c}}h^2$	$0.1152^{+0.0078}_{-0.0075}$	D_{810}	2589^{+85}_{-92}	$D_{\text{M}}(0.38)$	1485^{+86}_{-84}
$100\theta_{\text{MC}}$	$1.0400^{+0.0021}_{-0.0021}$	D_{1420}	844^{+42}_{-46}	$H(0.51)$	$91.4^{+3.4}_{-2.9}$
τ	$0.056^{+0.018}_{-0.013}$	D_{2000}	241^{+16}_{-17}	$D_{\text{M}}(0.51)$	1928^{+100}_{-100}
$\ln(10^{10}A_{\text{s}})$	$3.057^{+0.044}_{-0.039}$	$n_{\text{s},0.002}$	$0.981^{+0.032}_{-0.033}$	$H(0.61)$	$96.8^{+3.1}_{-2.6}$
n_{s}	$0.981^{+0.032}_{-0.033}$	Y_{P}	$0.2461^{+0.0010}_{-0.0010}$	$D_{\text{M}}(0.61)$	2247^{+110}_{-110}
y_{cal}	$0.9999^{+0.0067}_{-0.0065}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2474^{+0.0010}_{-0.0010}$	$H(2.33)$	$235.0^{+3.2}_{-3.0}$
H_0	$70.2^{+5.1}_{-4.9}$	$10^5 D/H$	$2.31^{+0.43}_{-0.38}$	$D_{\text{M}}(2.33)$	5692^{+130}_{-140}
Ω_{Λ}	$0.715^{+0.047}_{-0.056}$	Age/Gyr	$13.64^{+0.29}_{-0.32}$	$f\sigma_8(0.15)$	$0.431^{+0.046}_{-0.047}$
Ω_{m}	$0.285^{+0.056}_{-0.047}$	z_*	$1087.6^{+3.5}_{-3.2}$	$\sigma_8(0.15)$	$0.738^{+0.019}_{-0.022}$
$\Omega_{\text{m}}h^2$	$0.1399^{+0.0057}_{-0.0054}$	r_*	$144.4^{+1.0}_{-0.96}$	$f\sigma_8(0.38)$	$0.455^{+0.035}_{-0.039}$
$\Omega_{\text{m}}h^3$	$0.0981^{+0.0042}_{-0.0037}$	$100\theta_*$	$1.0400^{+0.0020}_{-0.0021}$	$\sigma_8(0.38)$	$0.657^{+0.015}_{-0.015}$
σ_8	$0.796^{+0.024}_{-0.028}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.88^{+0.10}_{-0.098}$	$f\sigma_8(0.51)$	$0.457^{+0.029}_{-0.033}$
S_8	$0.776^{+0.092}_{-0.090}$	z_{drag}	$1063.3^{+5.3}_{-5.1}$	$\sigma_8(0.51)$	$0.616^{+0.014}_{-0.013}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.425^{+0.050}_{-0.049}$	r_{drag}	$146.5^{+1.3}_{-1.4}$	$f\sigma_8(0.61)$	$0.454^{+0.025}_{-0.029}$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.581^{+0.042}_{-0.044}$	k_{D}	$0.1426^{+0.0028}_{-0.0028}$	$\sigma_8(0.61)$	$0.587^{+0.013}_{-0.012}$
$\sigma_8/h^{0.5}$	$0.951^{+0.059}_{-0.065}$	$100\theta_{\text{D}}$	$0.1587^{+0.0029}_{-0.0025}$	$f\sigma_8(2.33)$	$0.2972^{+0.0064}_{-0.0057}$
$r_{\text{drag}}h$	$102.8^{+7.1}_{-6.8}$	z_{eq}	3328^{+140}_{-130}	$\sigma_8(2.33)$	$0.3078^{+0.0073}_{-0.0074}$
$\langle d^2 \rangle^{1/2}$	$2.37^{+0.12}_{-0.12}$	k_{eq}	$0.01016^{+0.00042}_{-0.00040}$	χ^2_{lensing}	$9.2 (\nu: 0.6)$
z_{re}	< 8.92	$100\theta_{\text{eq}}$	$0.831^{+0.031}_{-0.031}$	χ^2_{simall}	$396.3 (\nu: 0.6)$
$10^9 A_{\text{s}}$	$2.126^{+0.095}_{-0.082}$	$100\theta_{\text{s,eq}}$	$0.457^{+0.014}_{-0.014}$	χ^2_{plikEE}	$742.9 (\nu: 3.5)$
$10^9 A_{\text{s}}e^{-2\tau}$	$1.901^{+0.047}_{-0.047}$	$H(0.15)$	$75.2^{+4.7}_{-4.3}$	χ^2_{prior}	$1.0 (\nu: 1.1)$
D_{40}	1229^{+69}_{-71}	$D_{\text{M}}(0.15)$	620^{+42}_{-40}	χ^2_{CMB}	$1148.3 (\nu: 5.3)$

$$\bar{\chi}^2_{\text{eff}} = 1149.40; R - 1 = 0.00683$$

2.53 base_CamSpecHM_TE_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02247	$0.02248^{+0.00065}_{-0.00065}$ (+0.1 σ)	D_{220}	5733	5734^{+150}_{-150} (+0.3 σ)	$H(0.38)$	83.45	$83.5^{+1.4}_{-1.3}$ (+0.7 σ)
$\Omega_c h^2$	0.11787	$0.1179^{+0.0042}_{-0.0042}$ (−1.0 σ)	D_{810}	2557	2557^{+54}_{-57} (+1.4 σ)	$D_M(0.38)$	1517.4	1517^{+34}_{-35} (−0.8 σ)
$100\theta_{MC}$	1.04129	$1.0413^{+0.0012}_{-0.0013}$ (+0.2 σ)	D_{1420}	827.6	827^{+28}_{-29} (+1.3 σ)	$H(0.51)$	90.07	$90.1^{+1.1}_{-1.0}$ (+0.6 σ)
τ	0.0528	$0.053^{+0.020}_{-0.021}$ (−0.1 σ)	D_{2000}	234.4	234^{+10}_{-10} (+1.1 σ)	$D_M(0.51)$	1967.1	1967^{+40}_{-41} (−0.7 σ)
$\ln(10^{10} A_s)$	3.0418	$3.041^{+0.039}_{-0.041}$ (+0.3 σ)	$n_{s,0.002}$	0.9770	$0.977^{+0.029}_{-0.029}$ (+1.0 σ)	$H(0.61)$	95.62	$95.63^{+0.93}_{-0.85}$ (+0.5 σ)
n_s	0.9770	$0.977^{+0.029}_{-0.029}$ (+1.0 σ)	Y_P	0.245433	$0.24543^{+0.00028}_{-0.00028}$ (+0.1 σ)	$D_M(0.61)$	2290.2	2290^{+43}_{-44} (−0.7 σ)
y_{cal}	1.0002	$1.0001^{+0.0068}_{-0.0065}$ (−0.1 σ)	Y_P^{BBN}	0.246759	$0.24676^{+0.00028}_{-0.00028}$ (+0.1 σ)	$H(2.33)$	235.28	$235.3^{+2.6}_{-2.5}$ (−1.0 σ)
H_0	68.31	$68.3^{+2.1}_{-2.0}$ (+0.8 σ)	$10^5 D/H$	2.568	$2.57^{+0.12}_{-0.12}$ (−0.1 σ)	$D_M(2.33)$	5749.6	5749^{+41}_{-43} (−0.4 σ)
Ω_Λ	0.6979	$0.698^{+0.025}_{-0.026}$ (+0.9 σ)	Age/Gyr	13.767	$13.766^{+0.094}_{-0.096}$ (−0.3 σ)	$f\sigma_8(0.15)$	0.4486	$0.448^{+0.022}_{-0.022}$ (−0.7 σ)
Ω_m	0.3021	$0.302^{+0.026}_{-0.025}$ (−0.9 σ)	z_*	1089.61	$1089.6^{+1.0}_{-1.0}$ (−0.4 σ)	$\sigma_8(0.15)$	0.7463	$0.746^{+0.016}_{-0.017}$ (+0.1 σ)
$\Omega_m h^2$	0.14098	$0.1410^{+0.0039}_{-0.0039}$ (−1.0 σ)	r_*	144.91	$144.91^{+0.97}_{-0.98}$ (+1.1 σ)	$f\sigma_8(0.38)$	0.4690	$0.469^{+0.017}_{-0.017}$ (−0.6 σ)
$\Omega_m h^3$	0.09631	$0.0963^{+0.0013}_{-0.0013}$ (−0.4 σ)	$100\theta_*$	1.04147	$1.0415^{+0.0012}_{-0.0013}$ (+0.2 σ)	$\sigma_8(0.38)$	0.6625	$0.662^{+0.014}_{-0.015}$ (+0.3 σ)
σ_8	0.8066	$0.806^{+0.018}_{-0.018}$ (+0.0 σ)	$D_M(z_*)/\text{Gpc}$	13.914	$13.914^{+0.092}_{-0.095}$ (+1.0 σ)	$f\sigma_8(0.51)$	0.4687	$0.468^{+0.015}_{-0.015}$ (−0.5 σ)
S_8	0.8094	$0.809^{+0.043}_{-0.043}$ (−0.7 σ)	z_{drag}	1060.01	$1060.0^{+1.4}_{-1.4}$ (−0.2 σ)	$\sigma_8(0.51)$	0.6205	$0.620^{+0.013}_{-0.014}$ (+0.4 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4433	$0.443^{+0.024}_{-0.023}$ (−0.7 σ)	r_{drag}	147.55	$147.5^{+1.0}_{-1.0}$ (+1.0 σ)	$f\sigma_8(0.61)$	0.4645	$0.464^{+0.013}_{-0.013}$ (−0.4 σ)
$\sigma_8 \Omega_m^{0.25}$	0.5980	$0.598^{+0.021}_{-0.021}$ (−0.5 σ)	k_D	0.14046	$0.1405^{+0.0013}_{-0.0013}$ (−0.9 σ)	$\sigma_8(0.61)$	0.5906	$0.590^{+0.013}_{-0.014}$ (+0.4 σ)
$\sigma_8/h^{0.5}$	0.9759	$0.975^{+0.029}_{-0.029}$ (−0.4 σ)	$100\theta_D$	0.16075	$0.16075^{+0.00084}_{-0.00080}$ (+0.2 σ)	$f\sigma_8(2.33)$	0.2982	$0.2981^{+0.0069}_{-0.0073}$ (+0.6 σ)
$r_{drag} h$	100.80	$100.8^{+3.5}_{-3.3}$ (+0.9 σ)	z_{eq}	3354	3354^{+94}_{-93} (−1.0 σ)	$\sigma_8(2.33)$	0.3078	$0.3077^{+0.0078}_{-0.0080}$ (+0.6 σ)
$\langle d^2 \rangle^{1/2}$	2.396	$2.396^{+0.086}_{-0.085}$ (−0.9 σ)	k_{eq}	0.010235	$0.01024^{+0.00029}_{-0.00028}$ (−1.0 σ)	$\chi^2_{lensing}$	8.95	9.7 (ν : 0.8) (−0.4 σ)
z_{re}	7.48	$7.4^{+1.9}_{-2.2}$ (−0.1 σ)	$100\theta_{eq}$	0.8227	$0.823^{+0.019}_{-0.018}$ (+1.0 σ)	χ^2_{small}	395.77	396.7 (ν : 0.9) (−0.1 σ)
$10^9 A_s$	2.094	$2.093^{+0.084}_{-0.085}$ (+0.3 σ)	$100\theta_{s,eq}$	0.4542	$0.4542^{+0.0095}_{-0.0090}$ (+1.0 σ)	$\chi^2_{CamSpec}$	2576.3	2580.7 (ν : 4.3)
$10^9 A_s e^{-2\tau}$	1.8842	$1.884^{+0.036}_{-0.035}$ (+0.9 σ)	$H(0.15)$	73.50	$73.5^{+1.8}_{-1.7}$ (+0.8 σ)	χ^2_{prior}	10.04	11.0 (ν : 1.1) (+1.0 σ)
D_{40}	1208	1208^{+67}_{-65} (−0.6 σ)	$D_M(0.15)$	635.3	635^{+17}_{-17} (−0.8 σ)	χ^2_{CMB}	2981.0	2987.1 (ν : 5.9) (+423.0 σ)

Best-fit $\chi^2_{eff} = 2991.07$; $\Delta\chi^2_{eff} = 1730.83$; $\bar{\chi}^2_{eff} = 2998.15$; $\Delta\bar{\chi}^2_{eff} = 1722.75$; $R - 1 = 0.00781$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.95 (Δ -0.59) small_100x143_offlike5_EE_Aplanck_B: 395.77 (Δ -0.09) CamSpec like_10.7HM_1400_unified: 2576.31

2.54 base_CamSpecHM_TE_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02248^{+0.00065}_{-0.00065} \quad (+0.1\sigma)$	D_{220}	$5732^{+150}_{-150} \quad (+0.3\sigma)$	$H(0.38)$	$83.5^{+1.4}_{-1.3} \quad (+0.7\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1177^{+0.0042}_{-0.0041} \quad (-1.0\sigma)$	D_{810}	$2556^{+53}_{-57} \quad (+1.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1516^{+34}_{-34} \quad (-0.8\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	D_{1420}	$827^{+27}_{-28} \quad (+1.3\sigma)$	$H(0.51)$	$90.1^{+1.1}_{-1.0} \quad (+0.6\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.0\sigma)$	D_{2000}	$234^{+10}_{-10} \quad (+1.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1966^{+40}_{-41} \quad (-0.8\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.037}_{-0.029} \quad (+0.4\sigma)$	$n_{\mathrm{s},0.002}$	$0.977^{+0.028}_{-0.029} \quad (+1.0\sigma)$	$H(0.61)$	$95.65^{+0.93}_{-0.85} \quad (+0.5\sigma)$
n_{s}	$0.977^{+0.028}_{-0.029} \quad (+1.0\sigma)$	Y_{P}	$0.24544^{+0.00028}_{-0.00028} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2289^{+43}_{-44} \quad (-0.7\sigma)$
y_{cal}	$1.0001^{+0.0068}_{-0.0065} \quad (-0.1\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00028}_{-0.00028} \quad (+0.1\sigma)$	$H(2.33)$	$235.2^{+2.5}_{-2.4} \quad (-1.1\sigma)$
H_0	$68.4^{+2.0}_{-1.9} \quad (+0.8\sigma)$	$10^5D/H$	$2.57^{+0.10}_{-0.12} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5748^{+41}_{-43} \quad (-0.4\sigma)$
Ω_{Λ}	$0.699^{+0.025}_{-0.026} \quad (+0.9\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.765^{+0.093}_{-0.096} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.022}_{-0.022} \quad (-0.7\sigma)$
Ω_{m}	$0.301^{+0.026}_{-0.025} \quad (-0.9\sigma)$	z_*	$1089.6^{+1.0}_{-1.0} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1409^{+0.0039}_{-0.0038} \quad (-1.0\sigma)$	r_*	$144.93^{+0.96}_{-0.97} \quad (+1.1\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.017}_{-0.017} \quad (-0.6\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0963^{+0.0013}_{-0.0013} \quad (-0.4\sigma)$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012} \quad (+0.4\sigma)$
σ_8	$0.807^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.091}_{-0.092} \quad (+1.1\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.015}_{-0.015} \quad (-0.5\sigma)$
S_8	$0.809^{+0.043}_{-0.043} \quad (-0.7\sigma)$	z_{drag}	$1060.0^{+1.4}_{-1.4} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.011} \quad (+0.5\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.443^{+0.024}_{-0.023} \quad (-0.7\sigma)$	r_{drag}	$147.6^{+1.0}_{-1.0} \quad (+1.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.013}_{-0.014} \quad (-0.4\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.598^{+0.021}_{-0.021} \quad (-0.5\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (-0.9\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.011} \quad (+0.5\sigma)$
$\sigma_8/h^{0.5}$	$0.976^{+0.029}_{-0.029} \quad (-0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00084}_{-0.00080} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2985^{+0.0065}_{-0.0055} \quad (+0.6\sigma)$
$r_{\mathrm{drag}}h$	$100.9^{+3.5}_{-3.3} \quad (+0.9\sigma)$	z_{eq}	$3351^{+94}_{-91} \quad (-1.0\sigma)$	$\sigma_8(2.33)$	$0.3082^{+0.0075}_{-0.0061} \quad (+0.7\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.397^{+0.087}_{-0.085} \quad (-0.9\sigma)$	k_{eq}	$0.01023^{+0.00029}_{-0.00028} \quad (-1.0\sigma)$	$\chi^2_{\mathrm{lensing}}$	$9.7 \quad (\nu: 0.8) \quad (-0.4\sigma)$
z_{re}	$< 9.22 \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.018}_{-0.018} \quad (+1.0\sigma)$	χ^2_{small}	$396.6 \quad (\nu: 0.8) \quad (-0.1\sigma)$
10^9A_{s}	$2.100^{+0.080}_{-0.060} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4545^{+0.0093}_{-0.0091} \quad (+1.0\sigma)$	$\chi^2_{\mathrm{CamSpec}}$	$2580.6 \quad (\nu: 4.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.035}_{-0.034} \quad (+0.9\sigma)$	$H(0.15)$	$73.6^{+1.8}_{-1.7} \quad (+0.8\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 1.1) \quad (+1.0\sigma)$
D_{40}	$1207^{+67}_{-65} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+17}_{-17} \quad (-0.8\sigma)$	χ^2_{CMB}	$2986.8 \quad (\nu: 5.5) \quad (+431.0\sigma)$

$$\bar{\chi}^2_{\mathrm{eff}} = 2997.86; \Delta\bar{\chi}^2_{\mathrm{eff}} = 1722.71; R - 1 = 0.00847$$

2.55 base_CamSpecHM_EE_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02359	$0.0236^{+0.0025}_{-0.0023}$ (-0.4σ)	D_{220}	5980	5980^{+420}_{-400} $(+0.1\sigma)$	$H(0.38)$	84.21	$84.2^{+3.6}_{-3.3}$ (-0.4σ)
$\Omega_c h^2$	0.1160	$0.1162^{+0.0085}_{-0.0075}$ $(+0.2\sigma)$	D_{810}	2590	2591^{+87}_{-87} $(+0.0\sigma)$	$D_M(0.38)$	1499	1501^{+86}_{-81} $(+0.4\sigma)$
$100\theta_{MC}$	1.03953	$1.0395^{+0.0022}_{-0.0021}$ (-0.5σ)	D_{1420}	839.4	839^{+43}_{-44} (-0.3σ)	$H(0.51)$	90.74	$90.7^{+3.2}_{-2.8}$ (-0.4σ)
τ	0.0500	$0.049^{+0.022}_{-0.030}$ (-0.5σ)	D_{2000}	238.9	239^{+16}_{-17} (-0.4σ)	$D_M(0.51)$	1945	1947^{+100}_{-98} $(+0.4\sigma)$
$\ln(10^{10} A_s)$	3.049	$3.047^{+0.048}_{-0.055}$ (-0.3σ)	$n_{s,0.002}$	0.9718	$0.972^{+0.032}_{-0.033}$ (-0.6σ)	$H(0.61)$	96.22	$96.2^{+2.9}_{-2.5}$ (-0.4σ)
n_s	0.9718	$0.972^{+0.032}_{-0.033}$ (-0.6σ)	Y_P	0.24590	$0.24588^{+0.00097}_{-0.00097}$ (-0.4σ)	$D_M(0.61)$	2266	2268^{+110}_{-110} $(+0.4\sigma)$
y_{cal}	0.9998	$0.9999^{+0.0063}_{-0.0062}$ (-0.0σ)	Y_P^{BBN}	0.24723	$0.24721^{+0.00097}_{-0.00097}$ (-0.4σ)	$H(2.33)$	235.02	$235.1^{+3.6}_{-3.0}$ (-0.0σ)
H_0	69.33	$69.3^{+4.8}_{-4.9}$ (-0.4σ)	$10^5 D/H$	2.373	$2.38^{+0.42}_{-0.37}$ $(+0.4\sigma)$	$D_M(2.33)$	5719	5719^{+120}_{-140} $(+0.5\sigma)$
Ω_Λ	0.708	$0.707^{+0.047}_{-0.060}$ (-0.3σ)	Age/Gyr	13.698	$13.70^{+0.28}_{-0.31}$ $(+0.5\sigma)$	$f\sigma_8(0.15)$	0.4353	$0.436^{+0.048}_{-0.045}$ $(+0.2\sigma)$
Ω_m	0.292	$0.293^{+0.060}_{-0.047}$ $(+0.3\sigma)$	z_*	1088.12	$1088.2^{+3.5}_{-3.1}$ $(+0.4\sigma)$	$\sigma_8(0.15)$	0.7364	$0.736^{+0.020}_{-0.023}$ (-0.1σ)
$\Omega_m h^2$	0.1402	$0.1404^{+0.0065}_{-0.0055}$ $(+0.1\sigma)$	r_*	144.53	$144.5^{+1.0}_{-1.1}$ $(+0.4\sigma)$	$f\sigma_8(0.38)$	0.4576	$0.458^{+0.036}_{-0.036}$ $(+0.2\sigma)$
$\Omega_m h^3$	0.09723	$0.0973^{+0.0040}_{-0.0035}$ (-0.6σ)	$100\theta_*$	1.03959	$1.0396^{+0.0021}_{-0.0021}$ (-0.5σ)	$\sigma_8(0.38)$	0.6549	$0.654^{+0.015}_{-0.018}$ (-0.3σ)
σ_8	0.7948	$0.794^{+0.025}_{-0.028}$ (-0.0σ)	$D_M(z_*)/\text{Gpc}$	13.903	$13.90^{+0.11}_{-0.11}$ $(+0.5\sigma)$	$f\sigma_8(0.51)$	0.4585	$0.458^{+0.029}_{-0.030}$ $(+0.2\sigma)$
S_8	0.784	$0.785^{+0.097}_{-0.086}$ $(+0.2\sigma)$	z_{drag}	1062.45	$1062.4^{+5.1}_{-4.8}$ (-0.4σ)	$\sigma_8(0.51)$	0.6138	$0.613^{+0.014}_{-0.016}$ (-0.4σ)
$\sigma_8 \Omega_m^{0.5}$	0.429	$0.430^{+0.053}_{-0.047}$ $(+0.2\sigma)$	r_{drag}	146.80	$146.8^{+1.3}_{-1.4}$ $(+0.5\sigma)$	$f\sigma_8(0.61)$	0.4552	$0.455^{+0.024}_{-0.027}$ $(+0.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.5841	$0.584^{+0.043}_{-0.042}$ $(+0.2\sigma)$	k_D	0.14204	$0.1420^{+0.0028}_{-0.0027}$ (-0.5σ)	$\sigma_8(0.61)$	0.5846	$0.584^{+0.013}_{-0.015}$ (-0.4σ)
$\sigma_8/h^{0.5}$	0.955	$0.954^{+0.060}_{-0.061}$ $(+0.2\sigma)$	$100\theta_D$	0.15909	$0.1591^{+0.0028}_{-0.0025}$ $(+0.4\sigma)$	$f\sigma_8(2.33)$	0.2956	$0.2952^{+0.0072}_{-0.0080}$ (-0.5σ)
$r_{drag} h$	101.8	$101.7^{+6.8}_{-7.0}$ (-0.3σ)	z_{eq}	3336	3340^{+150}_{-130} $(+0.1\sigma)$	$\sigma_8(2.33)$	0.3056	$0.3052^{+0.0085}_{-0.0092}$ (-0.5σ)
$\langle d^2 \rangle^{1/2}$	2.393	$2.39^{+0.12}_{-0.12}$ $(+0.4\sigma)$	k_{eq}	0.010182	$0.01019^{+0.00047}_{-0.00040}$ $(+0.1\sigma)$	$\chi^2_{lensing}$	8.34	$9.4 (\nu: 1.0)$ $(+0.2\sigma)$
z_{re}	6.93	$6.8^{+2.0}_{-3.3}$ (-0.4σ)	$100\theta_{eq}$	0.8277	$0.827^{+0.031}_{-0.033}$ (-0.2σ)	χ^2_{simall}	395.6	$396.8 (\nu: 1.4)$ $(+0.2\sigma)$
$10^9 A_s$	2.109	$2.11^{+0.10}_{-0.11}$ (-0.3σ)	$100\theta_{s,eq}$	0.4559	$0.456^{+0.014}_{-0.016}$ (-0.2σ)	$\chi^2_{CamSpec}$	1887.5	$1891.5 (\nu: 4.2)$
$10^9 A_s e^{-2\tau}$	1.9083	$1.910^{+0.049}_{-0.045}$ $(+0.3\sigma)$	$H(0.15)$	74.41	$74.4^{+4.4}_{-4.3}$ (-0.4σ)	χ^2_{prior}	10.04	$11.0 (\nu: 0.9)$ $(+6.8\sigma)$
D_{40}	1249	1249^{+74}_{-69} $(+0.7\sigma)$	$D_M(0.15)$	626.7	627^{+42}_{-38} $(+0.4\sigma)$	χ^2_{CMB}	2291.5	$2297.7 (\nu: 6.4)$ $(+342.7\sigma)$

Best-fit $\chi^2_{eff} = 2301.54$; $\Delta\chi^2_{eff} = 1158.85$; $\bar{\chi}^2_{eff} = 2308.71$; $\Delta\bar{\chi}^2_{eff} = 1158.96$; $R - 1 = 0.00642$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.34 (Δ 0.18) simall_100x143_offlike5_EE_Aplanck_B: 395.63 (Δ 0.04) CamSpec like_10.7HM_1400_unified: 1887.54

2.56 base_CamSpecHM_EE_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0236^{+0.0025}_{-0.0022} \quad (-0.4\sigma)$	D_{220}	$5975^{+420}_{-390} \quad (+0.0\sigma)$	$H(0.38)$	$84.3^{+3.7}_{-3.3} \quad (-0.4\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1158^{+0.0079}_{-0.0075} \quad (+0.2\sigma)$	D_{810}	$2589^{+87}_{-87} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1498^{+84}_{-83} \quad (+0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0396^{+0.0022}_{-0.0021} \quad (-0.5\sigma)$	D_{1420}	$839^{+43}_{-42} \quad (-0.3\sigma)$	$H(0.51)$	$90.8^{+3.2}_{-2.8} \quad (-0.4\sigma)$
τ	$0.053^{+0.017}_{-0.011} \quad (-0.4\sigma)$	D_{2000}	$239^{+16}_{-16} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1944^{+100}_{-100} \quad (+0.4\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.055^{+0.042}_{-0.036} \quad (-0.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.973^{+0.032}_{-0.031} \quad (-0.6\sigma)$	$H(0.61)$	$96.3^{+2.9}_{-2.4} \quad (-0.4\sigma)$
n_{s}	$0.973^{+0.032}_{-0.031} \quad (-0.6\sigma)$	Y_{P}	$0.24588^{+0.00097}_{-0.00094} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2265^{+110}_{-110} \quad (+0.4\sigma)$
y_{cal}	$0.9998^{+0.0063}_{-0.0063} \quad (-0.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24721^{+0.00097}_{-0.00095} \quad (-0.4\sigma)$	$H(2.33)$	$234.9^{+3.3}_{-2.9} \quad (-0.1\sigma)$
H_0	$69.4^{+5.0}_{-4.7} \quad (-0.4\sigma)$	$10^5D/\mathrm{H}$	$2.38^{+0.41}_{-0.38} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5718^{+120}_{-140} \quad (+0.5\sigma)$
Ω_{Λ}	$0.709^{+0.048}_{-0.057} \quad (-0.3\sigma)$	Age/Gyr	$13.70^{+0.27}_{-0.31} \quad (+0.5\sigma)$	$f\sigma_8(0.15)$	$0.436^{+0.047}_{-0.045} \quad (+0.2\sigma)$
Ω_{m}	$0.291^{+0.057}_{-0.048} \quad (+0.3\sigma)$	z_*	$1088.1^{+3.4}_{-3.1} \quad (+0.4\sigma)$	$\sigma_8(0.15)$	$0.738^{+0.019}_{-0.021} \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1400^{+0.0059}_{-0.0054} \quad (+0.1\sigma)$	r_*	$144.58^{+0.99}_{-0.98} \quad (+0.5\sigma)$	$f\sigma_8(0.38)$	$0.458^{+0.035}_{-0.037} \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0972^{+0.0041}_{-0.0034} \quad (-0.6\sigma)$	$100\theta_*$	$1.0396^{+0.0021}_{-0.0021} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.014}_{-0.015} \quad (-0.1\sigma)$
σ_8	$0.796^{+0.024}_{-0.027} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.91^{+0.10}_{-0.10} \quad (+0.6\sigma)$	$f\sigma_8(0.51)$	$0.459^{+0.028}_{-0.031} \quad (+0.2\sigma)$
S_8	$0.785^{+0.093}_{-0.087} \quad (+0.2\sigma)$	z_{drag}	$1062.4^{+5.1}_{-4.7} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.012}_{-0.012} \quad (-0.2\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.430^{+0.051}_{-0.048} \quad (+0.2\sigma)$	r_{drag}	$146.9^{+1.3}_{-1.4} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.027} \quad (+0.2\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.585^{+0.042}_{-0.042} \quad (+0.2\sigma)$	k_{D}	$0.1419^{+0.0028}_{-0.0027} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\sigma_8/h^{0.5}$	$0.956^{+0.059}_{-0.061} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1592^{+0.0028}_{-0.0026} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2964^{+0.0062}_{-0.0056} \quad (-0.4\sigma)$
$r_{\mathrm{drag}}h$	$102.0^{+6.8}_{-6.8} \quad (-0.3\sigma)$	z_{eq}	$3331^{+140}_{-130} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0075}_{-0.0068} \quad (-0.4\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.40^{+0.11}_{-0.12} \quad (+0.5\sigma)$	k_{eq}	$0.01017^{+0.00043}_{-0.00039} \quad (+0.1\sigma)$	$\chi^2_{\mathrm{lensing}}$	$9.4 \quad (\nu: 1.1) \quad (+0.2\sigma)$
z_{re}	$< 8.76 \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.829^{+0.031}_{-0.031} \quad (-0.2\sigma)$	χ^2_{small}	$396.18 \quad (\nu: 0.4) \quad (-0.1\sigma)$
10^9A_{s}	$2.122^{+0.092}_{-0.075} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.014}_{-0.015} \quad (-0.1\sigma)$	$\chi^2_{\mathrm{CamSpec}}$	$1891.6 \quad (\nu: 4.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.907^{+0.046}_{-0.044} \quad (+0.3\sigma)$	$H(0.15)$	$74.5^{+4.5}_{-4.2} \quad (-0.4\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 0.9) \quad (+6.8\sigma)$
D_{40}	$1247^{+70}_{-68} \quad (+0.7\sigma)$	$D_{\mathrm{M}}(0.15)$	$626^{+41}_{-39} \quad (+0.4\sigma)$	χ^2_{CMB}	$2297.2 \quad (\nu: 5.5) \quad (+354.2\sigma)$

$$\bar{\chi}^2_{\mathrm{eff}} = 2308.23; \Delta\bar{\chi}^2_{\mathrm{eff}} = 1158.83; R - 1 = 0.00344$$

2.57 base_plikHM_TE_lowE_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02245	$0.02245^{+0.00053}_{-0.00053}$	z_{re}	7.56	$7.7^{+2.0}_{-2.0}$	$H(0.38)$	83.21	$83.22^{+0.87}_{-0.86}$
$\Omega_c h^2$	0.11900	$0.1190^{+0.0029}_{-0.0029}$	$10^9 A_s$	2.082	$2.086^{+0.087}_{-0.076}$	$D_M(0.38)$	1524.3	1524^{+22}_{-22}
$100\theta_{\text{MC}}$	1.04127	$1.0413^{+0.0013}_{-0.0012}$	$10^9 A_s e^{-2\tau}$	1.8709	$1.870^{+0.034}_{-0.034}$	$H(0.51)$	89.90	$89.91^{+0.73}_{-0.72}$
τ	0.0535	$0.055^{+0.020}_{-0.019}$	D_{40}	1223	1224^{+61}_{-59}	$D_M(0.51)$	1975.1	1975^{+26}_{-26}
$\ln(10^{10} A_s)$	3.0359	$3.038^{+0.041}_{-0.037}$	D_{220}	5720	5720^{+140}_{-140}	$H(0.61)$	95.50	$95.51^{+0.63}_{-0.64}$
n_s	0.9664	$0.966^{+0.024}_{-0.025}$	D_{810}	2528	2527^{+53}_{-53}	$D_M(0.61)$	2298.7	2298^{+29}_{-29}
y_{cal}	1.0007	$1.0005^{+0.0063}_{-0.0064}$	D_{1420}	814.0	814^{+26}_{-25}	$H(2.33)$	236.01	$236.0^{+1.9}_{-1.8}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.096}$	D_{2000}	229.9	$229.8^{+9.3}_{-9.1}$	$D_M(2.33)$	5753.4	5753^{+32}_{-31}
$A_{100 \times 143}^{\text{dustTE}}$	0.137	$0.136^{+0.077}_{-0.076}$	$n_{s,0.002}$	0.9664	$0.966^{+0.024}_{-0.025}$	$f\sigma_8(0.15)$	0.4517	$0.452^{+0.016}_{-0.016}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	Y_P	0.245426	$0.24543^{+0.00022}_{-0.00022}$	$\sigma_8(0.15)$	0.7440	$0.745^{+0.017}_{-0.016}$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	Y_P^{BBN}	0.246753	$0.24675^{+0.00022}_{-0.00022}$	$f\sigma_8(0.38)$	0.4706	$0.471^{+0.014}_{-0.013}$
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.66^{+0.21}_{-0.20}$	$10^5 D/H$	2.571	$2.57^{+0.10}_{-0.096}$	$\sigma_8(0.38)$	0.6599	$0.660^{+0.015}_{-0.014}$
A_{217}^{dustTE}	2.06	$2.06^{+0.68}_{-0.70}$	Age/Gyr	13.775	$13.774^{+0.074}_{-0.072}$	$f\sigma_8(0.51)$	0.4696	$0.470^{+0.012}_{-0.012}$
c_{100}	1.00018	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.73	$1089.73^{+0.79}_{-0.76}$	$\sigma_8(0.51)$	0.6177	$0.618^{+0.014}_{-0.013}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0017}$	r_*	144.63	$144.63^{+0.75}_{-0.76}$	$f\sigma_8(0.61)$	0.4649	$0.465^{+0.012}_{-0.011}$
H_0	67.89	$67.9^{+1.3}_{-1.3}$	$100\theta_*$	1.04144	$1.0415^{+0.0013}_{-0.0012}$	$\sigma_8(0.61)$	0.5878	$0.588^{+0.013}_{-0.012}$
Ω_Λ	0.6917	$0.692^{+0.017}_{-0.017}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.888^{+0.074}_{-0.075}$	$f\sigma_8(2.33)$	0.2965	$0.2968^{+0.0069}_{-0.0064}$
Ω_m	0.3083	$0.308^{+0.017}_{-0.017}$	z_{drag}	1060.05	$1060.1^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.3058	$0.3061^{+0.0074}_{-0.0069}$
$\Omega_m h^2$	0.14209	$0.1421^{+0.0028}_{-0.0028}$	r_{drag}	147.27	$147.27^{+0.83}_{-0.85}$	χ^2_{lensing}	9.99	$10.5 (\nu: 1.7)$
$\Omega_m h^3$	0.09646	$0.0965^{+0.0012}_{-0.0012}$	k_D	0.14074	$0.1407^{+0.0011}_{-0.0011}$	χ^2_{small}	395.87	$396.9 (\nu: 1.4)$
σ_8	0.8049	$0.806^{+0.018}_{-0.017}$	$100\theta_D$	0.16073	$0.16073^{+0.00072}_{-0.00071}$	χ^2_{plikTE}	854.0	$860.0 (\nu: 6.2)$
S_8	0.8159	$0.816^{+0.031}_{-0.031}$	z_{eq}	3380	3380^{+67}_{-66}	$\chi^2_{6\text{DF}}$	0.011	$0.041 (\nu: 0.0)$
$\sigma_8 \Omega_m^{0.5}$	0.4469	$0.447^{+0.017}_{-0.017}$	k_{eq}	0.010316	$0.01032^{+0.00020}_{-0.00020}$	χ^2_{MGS}	1.41	$1.48 (\nu: 0.1)$
$\sigma_8 \Omega_m^{0.25}$	0.5997	$0.600^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8178	$0.818^{+0.013}_{-0.012}$	χ^2_{DR12BAO}	3.93	$4.4 (\nu: 0.7)$
$\sigma_8/h^{0.5}$	0.9768	$0.978^{+0.025}_{-0.024}$	$100\theta_{s,\text{eq}}$	0.4517	$0.4517^{+0.0065}_{-0.0062}$	χ^2_{prior}	0.8	$7.8 (\nu: 6.8)$
$r_{\text{drag}} h$	99.98	$100.0^{+2.2}_{-2.1}$	$H(0.15)$	73.14	$73.2^{+1.1}_{-1.1}$	χ^2_{CMB}	1259.9	$1267.4 (\nu: 7.2)$
$\langle d^2 \rangle^{1/2}$	2.421	$2.423^{+0.074}_{-0.071}$	$D_M(0.15)$	638.8	639^{+11}_{-11}	χ^2_{BAO}	5.34	$5.90 (\nu: 0.5)$

Best-fit $\chi^2_{\text{eff}} = 1265.98$; $\bar{\chi}^2_{\text{eff}} = 1281.13$; $R - 1 = 0.00651$

χ^2_{eff} : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.92 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 9.99 small_100x143_offlike5_EE_Aplanck_B: 395.87 plik_rd12_HM_v22_TE: 854.02

2.58 base_plikHM_EE_lowE_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02276	$0.02275^{+0.00093}_{-0.00095}$	D_{1420}	826.3	826^{+26}_{-25}	$H(0.61)$	95.49	$95.48^{+0.92}_{-0.92}$
$\Omega_c h^2$	0.11823	$0.1183^{+0.0033}_{-0.0033}$	D_{2000}	234.3	$234.2^{+9.3}_{-9.1}$	$D_M(0.61)$	2297.3	2298^{+38}_{-37}
$100\theta_{MC}$	1.03995	$1.0400^{+0.0020}_{-0.0021}$	$n_{s,0.002}$	0.9735	$0.973^{+0.025}_{-0.024}$	$H(2.33)$	235.69	$235.7^{+2.1}_{-2.1}$
τ	0.0522	$0.052^{+0.020}_{-0.021}$	Y_P	0.245541	$0.24555^{+0.00039}_{-0.00041}$	$D_M(2.33)$	5755.0	5755^{+49}_{-48}
$\ln(10^{10} A_s)$	3.0407	$3.040^{+0.038}_{-0.041}$	Y_P^{BBN}	0.246868	$0.24687^{+0.00039}_{-0.00041}$	$f\sigma_8(0.15)$	0.4500	$0.450^{+0.019}_{-0.019}$
n_s	0.9735	$0.973^{+0.025}_{-0.024}$	$10^5 D/H$	2.516	$2.52^{+0.18}_{-0.16}$	$\sigma_8(0.15)$	0.7433	$0.743^{+0.017}_{-0.018}$
y_{cal}	1.0000	$1.0000^{+0.0065}_{-0.0064}$	Age/Gyr	13.779	$13.78^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	0.4693	$0.469^{+0.016}_{-0.016}$
H_0	67.98	$68.0^{+1.6}_{-1.6}$	z_*	1089.28	$1089.3^{+1.3}_{-1.2}$	$\sigma_8(0.38)$	0.6594	$0.659^{+0.015}_{-0.016}$
Ω_Λ	0.6935	$0.693^{+0.019}_{-0.020}$	r_*	144.59	$144.59^{+0.89}_{-0.88}$	$f\sigma_8(0.51)$	0.4685	$0.468^{+0.014}_{-0.015}$
Ω_m	0.3065	$0.307^{+0.020}_{-0.019}$	$100\theta_*$	1.04010	$1.0401^{+0.0020}_{-0.0021}$	$\sigma_8(0.51)$	0.6173	$0.617^{+0.014}_{-0.014}$
$\Omega_m h^2$	0.14163	$0.1417^{+0.0030}_{-0.0031}$	$D_M(z_*)/\text{Gpc}$	13.902	$13.902^{+0.094}_{-0.094}$	$f\sigma_8(0.61)$	0.4639	$0.464^{+0.013}_{-0.013}$
$\Omega_m h^3$	0.09628	$0.0963^{+0.0019}_{-0.0019}$	z_{drag}	1060.70	$1060.7^{+2.1}_{-2.1}$	$\sigma_8(0.61)$	0.5875	$0.587^{+0.013}_{-0.014}$
σ_8	0.8038	$0.804^{+0.019}_{-0.020}$	r_{drag}	147.13	$147.1^{+1.1}_{-1.1}$	$f\sigma_8(2.33)$	0.2964	$0.2963^{+0.0069}_{-0.0068}$
S_8	0.8125	$0.813^{+0.038}_{-0.037}$	k_D	0.14112	$0.1411^{+0.0017}_{-0.0017}$	$\sigma_8(2.33)$	0.3058	$0.3057^{+0.0073}_{-0.0071}$
$\sigma_8 \Omega_m^{0.5}$	0.4450	$0.445^{+0.021}_{-0.020}$	$100\theta_D$	0.16013	$0.1602^{+0.0013}_{-0.0012}$	$\chi^2_{lensing}$	8.54	9.3 (ν : 0.5)
$\sigma_8 \Omega_m^{0.25}$	0.5981	$0.598^{+0.020}_{-0.020}$	z_{eq}	3369	3370^{+72}_{-74}	χ^2_{small}	395.71	396.7 (ν : 0.9)
$\sigma_8/h^{0.5}$	0.9749	$0.975^{+0.029}_{-0.029}$	k_{eq}	0.010283	$0.01029^{+0.00022}_{-0.00022}$	χ^2_{plikEE}	740.1	743.4 (ν : 3.4)
$r_{drag} h$	100.02	$99.99^{+2.5}_{-2.4}$	$100\theta_{eq}$	0.8196	$0.819^{+0.014}_{-0.013}$	χ^2_{6DF}	0.0099	0.048 (ν : 0.0)
$\langle d^2 \rangle^{1/2}$	2.407	$2.407^{+0.078}_{-0.077}$	$100\theta_{s,eq}$	0.4523	$0.4523^{+0.0069}_{-0.0066}$	χ^2_{MGS}	1.41	1.46 (ν : 0.1)
z_{re}	7.35	$7.3^{+2.0}_{-2.4}$	$H(0.15)$	73.21	$73.2^{+1.4}_{-1.4}$	$\chi^2_{DR12BAO}$	4.10	4.7 (ν : 1.1)
$10^9 A_s$	2.092	$2.091^{+0.081}_{-0.084}$	$D_M(0.15)$	638.1	638^{+14}_{-13}	χ^2_{prior}	1.3	2.7 (ν : 2.6)
$10^9 A_s e^{-2\tau}$	1.8847	$1.884^{+0.038}_{-0.038}$	$H(0.38)$	83.24	$83.2^{+1.2}_{-1.2}$	χ^2_{CMB}	1144.4	1149.3 (ν : 5.6)
D_{40}	1217	1218^{+69}_{-66}	$D_M(0.38)$	1523.0	1523^{+29}_{-28}	χ^2_{BAO}	5.52	6.2 (ν : 0.7)
D_{220}	5770	5769^{+220}_{-220}	$H(0.51)$	89.91	$89.9^{+1.0}_{-1.0}$			
D_{810}	2553	2552^{+54}_{-55}	$D_M(0.51)$	1973.7	1974^{+35}_{-34}			

Best-fit $\chi^2_{eff} = 1151.17$; $\bar{\chi}^2_{eff} = 1158.27$; $R - 1 = 0.00909$

χ^2_{eff} : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 4.10 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 8.54 small_100x143_offlike5_EE_Aplanck_B: 395.71 plik_rd12_HM_v22_EE: 740.14

2.59 base_CamSpecHM_TE_lowE_lensing_BAO_CookeDH

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02242	$0.02240^{+0.00055}_{-0.00054}$	(-0.2σ)	D_{1420}	825.5	825^{+26}_{-26}	$(+1.2\sigma)$	$H(0.61)$	95.55	$95.54^{+0.62}_{-0.63}$	$(+0.1\sigma)$
$\Omega_c h^2$	0.11819	$0.1182^{+0.0029}_{-0.0027}$	(-0.7σ)	D_{2000}	233.6	$233.5^{+9.5}_{-9.2}$	$(+1.0\sigma)$	$D_M(0.61)$	2293.6	2294^{+29}_{-28}	(-0.4σ)
$100\theta_{MC}$	1.04130	$1.0413^{+0.0012}_{-0.0012}$	(-0.0σ)	$n_{s,0.002}$	0.9746	$0.975^{+0.025}_{-0.025}$	$(+0.9\sigma)$	$H(2.33)$	235.45	$235.4^{+1.8}_{-1.8}$	(-0.8σ)
τ	0.0520	$0.052^{+0.019}_{-0.020}$	(-0.3σ)	Y_P	0.245414	$0.24541^{+0.00022}_{-0.00023}$	(-0.2σ)	$D_M(2.33)$	5752.6	5753^{+32}_{-31}	$(+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0401	$3.041^{+0.038}_{-0.039}$	$(+0.2\sigma)$	Y_P^{BBN}	0.246740	$0.24673^{+0.00022}_{-0.00024}$	(-0.2σ)	$f\sigma_8(0.15)$	0.4499	$0.450^{+0.016}_{-0.016}$	(-0.3σ)
n_s	0.9746	$0.975^{+0.025}_{-0.025}$	$(+0.9\sigma)$	$10^5 D/H$	2.577	$2.58^{+0.10}_{-0.098}$	$(+0.2\sigma)$	$\sigma_8(0.15)$	0.7460	$0.746^{+0.016}_{-0.016}$	$(+0.2\sigma)$
y_{cal}	1.0002	$1.0001^{+0.0060}_{-0.0066}$	(-0.2σ)	Age/Gyr	13.774	$13.776^{+0.074}_{-0.073}$	$(+0.1\sigma)$	$f\sigma_8(0.38)$	0.4698	$0.470^{+0.013}_{-0.013}$	(-0.2σ)
H_0	68.16	$68.1^{+1.3}_{-1.3}$	$(+0.5\sigma)$	z_*	1089.70	$1089.72^{+0.79}_{-0.76}$	(-0.0σ)	$\sigma_8(0.38)$	0.6621	$0.662^{+0.014}_{-0.014}$	$(+0.3\sigma)$
Ω_Λ	0.6959	$0.696^{+0.016}_{-0.017}$	$(+0.6\sigma)$	r_*	144.86	$144.88^{+0.75}_{-0.74}$	$(+0.8\sigma)$	$f\sigma_8(0.51)$	0.4693	$0.469^{+0.012}_{-0.012}$	(-0.1σ)
Ω_m	0.3041	$0.304^{+0.017}_{-0.016}$	(-0.6σ)	$100\theta_*$	1.04148	$1.0415^{+0.0012}_{-0.0012}$	$(+0.0\sigma)$	$\sigma_8(0.51)$	0.6199	$0.620^{+0.013}_{-0.013}$	$(+0.4\sigma)$
$\Omega_m h^2$	0.14125	$0.1412^{+0.0028}_{-0.0026}$	(-0.8σ)	$D_M(z_*)/\text{Gpc}$	13.910	$13.911^{+0.073}_{-0.075}$	$(+0.8\sigma)$	$f\sigma_8(0.61)$	0.4649	$0.465^{+0.012}_{-0.011}$	(-0.0σ)
$\Omega_m h^3$	0.09627	$0.0962^{+0.0013}_{-0.0012}$	(-0.5σ)	z_{drag}	1059.89	$1059.9^{+1.2}_{-1.2}$	(-0.4σ)	$\sigma_8(0.61)$	0.5901	$0.590^{+0.013}_{-0.013}$	$(+0.4\sigma)$
σ_8	0.8065	$0.807^{+0.018}_{-0.017}$	$(+0.2\sigma)$	r_{drag}	147.52	$147.54^{+0.84}_{-0.83}$	$(+0.8\sigma)$	$f\sigma_8(2.33)$	0.2978	$0.2979^{+0.0065}_{-0.0066}$	$(+0.4\sigma)$
S_8	0.8119	$0.812^{+0.031}_{-0.030}$	(-0.3σ)	k_D	0.14045	$0.1404^{+0.0011}_{-0.0011}$	(-0.7σ)	$\sigma_8(2.33)$	0.3074	$0.3075^{+0.0070}_{-0.0071}$	$(+0.5\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4447	$0.445^{+0.017}_{-0.017}$	(-0.3σ)	$100\theta_D$	0.16081	$0.16083^{+0.00074}_{-0.00072}$	$(+0.3\sigma)$	$\chi^2_{lensing}$	8.95	$9.6 (\nu: 0.6)$	(-0.5σ)
$\sigma_8 \Omega_m^{0.25}$	0.5989	$0.599^{+0.017}_{-0.016}$	(-0.2σ)	z_{eq}	3360	3359^{+66}_{-63}	(-0.8σ)	χ^2_{simall}	395.71	$396.7 (\nu: 0.8)$	(-0.2σ)
$\sigma_8/h^{0.5}$	0.9769	$0.977^{+0.025}_{-0.024}$	(-0.0σ)	k_{eq}	0.010255	$0.01025^{+0.00020}_{-0.00019}$	(-0.8σ)	$\chi^2_{CamSpec}$	2576.4	$2580.2 (\nu: 3.6)$	
$r_{drag} h$	100.55	$100.5^{+2.2}_{-2.2}$	$(+0.6\sigma)$	$100\theta_{eq}$	0.8213	$0.821^{+0.012}_{-0.012}$	$(+0.7\sigma)$	χ^2_{6DF}	0.000	$0.030 (\nu: 0.0)$	(-0.2σ)
$\langle d^2 \rangle^{1/2}$	2.402	$2.403^{+0.074}_{-0.071}$	(-0.7σ)	$100\theta_{s,eq}$	0.4535	$0.4536^{+0.0062}_{-0.0062}$	$(+0.8\sigma)$	χ^2_{MGS}	1.75	$1.80 (\nu: 0.1)$	$(+0.6\sigma)$
z_{re}	7.41	$7.4^{+1.8}_{-2.2}$	(-0.3σ)	$H(0.15)$	73.36	$73.3^{+1.1}_{-1.1}$	$(+0.4\sigma)$	$\chi^2_{DR12BAO}$	3.44	$3.91 (\nu: 0.3)$	(-0.4σ)
$10^9 A_s$	2.091	$2.092^{+0.081}_{-0.080}$	$(+0.2\sigma)$	$D_M(0.15)$	636.6	637^{+11}_{-11}	(-0.5σ)	χ^2_{prior}	10.22	$11.3 (\nu: 1.0)$	$(+0.9\sigma)$
$10^9 A_s e^{-2\tau}$	1.8842	$1.884^{+0.034}_{-0.034}$	$(+1.0\sigma)$	$H(0.38)$	83.34	$83.33^{+0.85}_{-0.88}$	$(+0.3\sigma)$	χ^2_{CMB}	2981.1	$2986.5 (\nu: 5.2)$	$(+452.2\sigma)$
D_{40}	1212	1212^{+61}_{-60}	(-0.5σ)	$D_M(0.38)$	1520.0	1520^{+23}_{-22}	(-0.4σ)	χ^2_{BAO}	5.19	$5.74 (\nu: 0.3)$	(-0.2σ)
D_{220}	5733	5729^{+150}_{-150}	$(+0.2\sigma)$	$H(0.51)$	89.99	$89.98^{+0.71}_{-0.74}$	$(+0.2\sigma)$				
D_{810}	2554	2553^{+52}_{-53}	$(+1.3\sigma)$	$D_M(0.51)$	1970.3	1971^{+27}_{-26}	(-0.4σ)				

Best-fit $\chi^2_{eff} = 2996.49$; $\Delta\chi^2_{eff} = 1730.51$; $\bar{\chi}^2_{eff} = 3003.53$; $\Delta\bar{\chi}^2_{eff} = 1722.40$; $R - 1 = 0.00799$

χ^2_{eff} : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.75 (Δ 0.34) DR12BAO: 3.44 (Δ -0.49) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.95 (Δ -1.04) simall_100x143_offlike5_EE_Aplanc: 395.71 (Δ -0.15) CamSpec like_10.7HM_1400_unified: 2576.42

2.60 base_CamSpecHM_EE_lowE_lensing_BAO_CookeDH

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02269	$0.02268^{+0.00097}_{-0.00093}$	(-0.2σ)	D_{1420}	825.9	827^{+26}_{-25}	$(+0.1\sigma)$	$H(0.61)$	95.37	$95.36^{+0.95}_{-0.86}$	(-0.4σ)
$\Omega_c h^2$	0.11790	$0.1179^{+0.0034}_{-0.0033}$	(-0.3σ)	D_{2000}	233.6	$233.8^{+9.5}_{-9.2}$	(-0.1σ)	$D_M(0.61)$	2300.1	2301^{+36}_{-38}	$(+0.2\sigma)$
$100\theta_{MC}$	1.03957	$1.0395^{+0.0020}_{-0.0020}$	(-0.5σ)	$n_{s,0.002}$	0.9678	$0.968^{+0.025}_{-0.025}$	(-0.5σ)	$H(2.33)$	235.36	$235.4^{+2.1}_{-2.0}$	(-0.4σ)
τ	0.0499	$0.049^{+0.020}_{-0.024}$	(-0.4σ)	Y_P	0.245511	$0.24552^{+0.00041}_{-0.00040}$	(-0.2σ)	$D_M(2.33)$	5762.5	5763^{+46}_{-50}	$(+0.4\sigma)$
$\ln(10^{10} A_s)$	3.0408	$3.040^{+0.039}_{-0.045}$	(-0.0σ)	Y_P^{BBN}	0.246838	$0.24684^{+0.00041}_{-0.00041}$	(-0.2σ)	$f\sigma_8(0.15)$	0.4482	$0.448^{+0.020}_{-0.019}$	(-0.2σ)
n_s	0.9678	$0.968^{+0.025}_{-0.025}$	(-0.5σ)	$10^5 D/H$	2.529	$2.53^{+0.17}_{-0.17}$	$(+0.2\sigma)$	$\sigma_8(0.15)$	0.7407	$0.740^{+0.017}_{-0.019}$	(-0.4σ)
y_{cal}	0.9997	$0.9999^{+0.0067}_{-0.0064}$	(-0.1σ)	Age/Gyr	13.797	$13.80^{+0.11}_{-0.11}$	$(+0.4\sigma)$	$f\sigma_8(0.38)$	0.4675	$0.468^{+0.016}_{-0.016}$	(-0.3σ)
H_0	67.90	$67.9^{+1.6}_{-1.6}$	(-0.1σ)	z_*	1089.35	$1089.4^{+1.3}_{-1.3}$	$(+0.1\sigma)$	$\sigma_8(0.38)$	0.6571	$0.657^{+0.015}_{-0.016}$	(-0.4σ)
Ω_Λ	0.6937	$0.693^{+0.019}_{-0.020}$	$(+0.0\sigma)$	r_*	144.73	$144.73^{+0.90}_{-0.92}$	$(+0.4\sigma)$	$f\sigma_8(0.51)$	0.4668	$0.467^{+0.014}_{-0.015}$	(-0.3σ)
Ω_m	0.3063	$0.307^{+0.020}_{-0.019}$	(-0.0σ)	$100\theta_*$	1.03972	$1.0397^{+0.0020}_{-0.0020}$	(-0.5σ)	$\sigma_8(0.51)$	0.6152	$0.615^{+0.014}_{-0.015}$	(-0.4σ)
$\Omega_m h^2$	0.14123	$0.1413^{+0.0032}_{-0.0030}$	(-0.3σ)	$D_M(z_*)/\text{Gpc}$	13.920	$13.921^{+0.093}_{-0.096}$	$(+0.5\sigma)$	$f\sigma_8(0.61)$	0.4622	$0.462^{+0.013}_{-0.014}$	(-0.3σ)
$\Omega_m h^3$	0.09590	$0.0959^{+0.0020}_{-0.0018}$	(-0.5σ)	z_{drag}	1060.51	$1060.5^{+2.1}_{-2.1}$	(-0.2σ)	$\sigma_8(0.61)$	0.5855	$0.585^{+0.013}_{-0.014}$	(-0.4σ)
σ_8	0.8010	$0.801^{+0.019}_{-0.021}$	(-0.4σ)	r_{drag}	147.30	$147.3^{+1.1}_{-1.1}$	$(+0.4\sigma)$	$f\sigma_8(2.33)$	0.2954	$0.2953^{+0.0067}_{-0.0073}$	(-0.4σ)
S_8	0.8093	$0.810^{+0.038}_{-0.036}$	(-0.2σ)	k_D	0.14089	$0.1409^{+0.0017}_{-0.0017}$	(-0.4σ)	$\sigma_8(2.33)$	0.3048	$0.3047^{+0.0071}_{-0.0077}$	(-0.4σ)
$\sigma_8 \Omega_m^{0.5}$	0.4433	$0.443^{+0.021}_{-0.020}$	(-0.2σ)	$100\theta_D$	0.16019	$0.1602^{+0.0013}_{-0.0013}$	$(+0.1\sigma)$	$\chi^2_{lensing}$	8.37	9.1 ($\nu: 0.6$)	(-0.1σ)
$\sigma_8 \Omega_m^{0.25}$	0.5959	$0.596^{+0.020}_{-0.020}$	(-0.3σ)	z_{eq}	3360	3360^{+76}_{-72}	(-0.3σ)	χ^2_{small}	395.66	396.7 ($\nu: 1.0$)	(-0.0σ)
$\sigma_8/h^{0.5}$	0.9720	$0.972^{+0.029}_{-0.030}$	(-0.2σ)	k_{eq}	0.010254	$0.01026^{+0.00023}_{-0.00022}$	(-0.3σ)	$\chi^2_{CamSpec}$	1888.5	1891.7 ($\nu: 4.0$)	
$r_{drag} h$	100.02	$99.98^{+2.5}_{-2.4}$	(-0.0σ)	$100\theta_{eq}$	0.8208	$0.821^{+0.014}_{-0.014}$	$(+0.2\sigma)$	χ^2_{6DF}	0.0098	0.049 ($\nu: 0.0$)	$(+0.0\sigma)$
$\langle d^2 \rangle^{1/2}$	2.416	$2.415^{+0.079}_{-0.077}$	$(+0.3\sigma)$	$100\theta_{s,eq}$	0.4530	$0.4530^{+0.0069}_{-0.0070}$	$(+0.3\sigma)$	χ^2_{MGS}	1.41	1.46 ($\nu: 0.1$)	(-0.0σ)
z_{re}	7.12	$7.0^{+2.0}_{-2.8}$	(-0.3σ)	$H(0.15)$	73.12	$73.1^{+1.5}_{-1.4}$	(-0.2σ)	$\chi^2_{DR12BAO}$	4.12	4.8 ($\nu: 1.1$)	$(+0.0\sigma)$
$10^9 A_s$	2.092	$2.090^{+0.083}_{-0.091}$	(-0.0σ)	$D_M(0.15)$	638.8	639^{+14}_{-14}	$(+0.1\sigma)$	χ^2_{prior}	11.0	12.5 ($\nu: 2.4$)	$(+4.3\sigma)$
$10^9 A_s e^{-2\tau}$	1.8935	$1.895^{+0.040}_{-0.038}$	$(+0.7\sigma)$	$H(0.38)$	83.14	$83.1^{+1.2}_{-1.1}$	(-0.2σ)	χ^2_{CMB}	2292.6	2297.5 ($\nu: 5.7$)	$(+342.4\sigma)$
D_{40}	1237	1237^{+69}_{-67}	$(+0.7\sigma)$	$D_M(0.38)$	1524.8	1525^{+28}_{-29}	$(+0.2\sigma)$	χ^2_{BAO}	5.53	6.3 ($\nu: 0.7$)	$(+0.0\sigma)$
D_{220}	5829	5829^{+220}_{-220}	$(+0.7\sigma)$	$H(0.51)$	89.79	$89.8^{+1.0}_{-0.94}$	(-0.3σ)				
D_{810}	2561	2563^{+58}_{-56}	$(+0.5\sigma)$	$D_M(0.51)$	1976.0	1977^{+33}_{-34}	$(+0.2\sigma)$				

Best-fit $\chi^2_{eff} = 2309.08$; $\Delta\chi^2_{eff} = 1157.91$; $\bar{\chi}^2_{eff} = 2316.30$; $\Delta\bar{\chi}^2_{eff} = 1158.03$; $R - 1 = 0.00893$

χ^2_{eff} : BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ 0.00) DR12BAO: 4.12 (Δ 0.02) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.37 (Δ -0.16) small_100x143_offlike5_EE_Aplanck: 395.66 (Δ -0.05) CamSpec like_10.7HM_1400_unified: 1888.53

2.61 base_plikHM_TE_lowE_lensing_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02241	$0.02242^{+0.00060}_{-0.00056}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.432^{+0.082}_{-0.083}$	$H(0.15)$	72.91	$72.9^{+1.7}_{-1.5}$
$\Omega_c h^2$	0.11958	$0.1196^{+0.0040}_{-0.0041}$	z_{re}	7.53	$7.5^{+1.9}_{-2.3}$	$D_M(0.15)$	641.1	641^{+16}_{-16}
$100\theta_{\text{MC}}$	1.04117	$1.0412^{+0.0012}_{-0.0013}$	$10^9 A_s$	2.081	$2.082^{+0.082}_{-0.084}$	$H(0.38)$	83.04	$83.0^{+1.2}_{-1.1}$
τ	0.0530	$0.053^{+0.021}_{-0.021}$	$10^9 A_s e^{-2\tau}$	1.8717	$1.871^{+0.034}_{-0.034}$	$D_M(0.38)$	1528.8	1529^{+31}_{-32}
$\ln(10^{10} A_s)$	3.0355	$3.036^{+0.039}_{-0.041}$	D_{40}	1227	1227^{+66}_{-65}	$H(0.51)$	89.77	$89.8^{+1.0}_{-0.91}$
n_s	0.9645	$0.964^{+0.028}_{-0.027}$	D_{220}	5716	5715^{+150}_{-140}	$D_M(0.51)$	1980.4	1981^{+37}_{-38}
y_{cal}	1.0005	$1.0004^{+0.0065}_{-0.0063}$	D_{810}	2525	2524^{+54}_{-53}	$H(0.61)$	95.40	$95.41^{+0.84}_{-0.76}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.098}$	D_{1420}	812.5	812^{+27}_{-27}	$D_M(0.61)$	2304.4	2305^{+39}_{-41}
$A_{100 \times 143}^{\text{dustTE}}$	0.137	$0.137^{+0.077}_{-0.077}$	D_{2000}	229.4	$229^{+10}_{-9.6}$	$H(2.33)$	236.35	$236.4^{+2.4}_{-2.5}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	$n_{s,0.002}$	0.9645	$0.964^{+0.028}_{-0.027}$	$D_M(2.33)$	5757.6	5757^{+37}_{-39}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	Y_P	0.245413	$0.24541^{+0.00025}_{-0.00024}$	$f\sigma_8(0.15)$	0.4547	$0.455^{+0.020}_{-0.021}$
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.21}$	Y_P^{BBN}	0.246740	$0.24674^{+0.00025}_{-0.00025}$	$\sigma_8(0.15)$	0.7448	$0.745^{+0.016}_{-0.016}$
A_{217}^{dustTE}	2.07	$2.06^{+0.68}_{-0.70}$	10^5D/H	2.577	$2.58^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	0.4729	$0.473^{+0.016}_{-0.017}$
c_{100}	1.00023	$1.0002^{+0.0019}_{-0.0018}$	Age/Gyr	13.784	$13.783^{+0.084}_{-0.088}$	$\sigma_8(0.38)$	0.6602	$0.660^{+0.014}_{-0.014}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0017}$	z_*	1089.83	$1089.83^{+0.93}_{-0.95}$	$f\sigma_8(0.51)$	0.4714	$0.472^{+0.014}_{-0.014}$
H_0	67.62	$67.6^{+1.9}_{-1.8}$	r_*	144.51	$144.49^{+0.96}_{-0.93}$	$\sigma_8(0.51)$	0.6178	$0.618^{+0.014}_{-0.014}$
Ω_Λ	0.6881	$0.688^{+0.025}_{-0.025}$	$100\theta_*$	1.04135	$1.0414^{+0.0012}_{-0.0012}$	$f\sigma_8(0.61)$	0.4665	$0.467^{+0.012}_{-0.013}$
Ω_m	0.3119	$0.312^{+0.025}_{-0.025}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.875^{+0.092}_{-0.089}$	$\sigma_8(0.61)$	0.5878	$0.588^{+0.013}_{-0.013}$
$\Omega_m h^2$	0.14264	$0.1427^{+0.0038}_{-0.0039}$	z_{drag}	1060.01	$1060.0^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	0.2964	$0.2964^{+0.0070}_{-0.0069}$
$\Omega_m h^3$	0.09645	$0.0965^{+0.0013}_{-0.0012}$	r_{drag}	147.15	$147.1^{+1.0}_{-0.97}$	$\sigma_8(2.33)$	0.3055	$0.3056^{+0.0076}_{-0.0076}$
σ_8	0.8061	$0.806^{+0.017}_{-0.018}$	k_D	0.14084	$0.1408^{+0.0012}_{-0.0012}$	χ^2_{lensing}	9.61	$10.3 (\nu: 1.4)$
S_8	0.8220	$0.823^{+0.040}_{-0.041}$	$100\theta_D$	0.16075	$0.16075^{+0.00072}_{-0.00072}$	χ^2_{small}	395.85	$396.9 (\nu: 1.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4502	$0.451^{+0.022}_{-0.023}$	z_{eq}	3393	3394^{+91}_{-93}	χ^2_{plikTE}	854.3	$860.6 (\nu: 6.7)$
$\sigma_8 \Omega_m^{0.25}$	0.6024	$0.603^{+0.019}_{-0.020}$	k_{eq}	0.010356	$0.01036^{+0.00028}_{-0.00028}$	χ^2_{prior}	0.7	$7.9 (\nu: 6.9)$
$\sigma_8/h^{0.5}$	0.9803	$0.981^{+0.027}_{-0.028}$	$100\theta_{\text{eq}}$	0.8152	$0.815^{+0.018}_{-0.017}$	χ^2_{CMB}	1259.8	$1267.7 (\nu: 7.6)$
$r_{\text{drag}} h$	99.51	$99.5^{+3.3}_{-3.1}$	$100\theta_{s,\text{eq}}$	0.4504	$0.4503^{+0.0092}_{-0.0086}$			

Best-fit $\chi^2_{\text{eff}} = 1260.45$; $\bar{\chi}^2_{\text{eff}} = 1275.56$; $R - 1 = 0.00845$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 9.61 small_100x143_offlike5_EE_Aplanck_B: 395.85 plik_rd12_HM_v22_TE: 854.31

2.62 base_plikHM_EE_lowE_lensing_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02256	$0.0226^{+0.0011}_{-0.0012}$	D_{220}	5747	5745^{+240}_{-230}	$H(0.38)$	82.80	$82.8^{+1.8}_{-1.7}$
$\Omega_c h^2$	0.1195	$0.1196^{+0.0055}_{-0.0051}$	D_{810}	2546	2546^{+60}_{-59}	$D_M(0.38)$	1534.6	1536^{+48}_{-46}
$100\theta_{MC}$	1.03980	$1.0397^{+0.0021}_{-0.0021}$	D_{1420}	821.9	822^{+30}_{-28}	$H(0.51)$	89.55	$89.5^{+1.5}_{-1.5}$
τ	0.0504	$0.050^{+0.021}_{-0.024}$	D_{2000}	232.6	233^{+11}_{-11}	$D_M(0.51)$	1987	1989^{+57}_{-55}
$\ln(10^{10} A_s)$	3.0373	$3.036^{+0.041}_{-0.045}$	$n_{s,0.002}$	0.9689	$0.969^{+0.029}_{-0.028}$	$H(0.61)$	95.20	$95.2^{+1.3}_{-1.2}$
n_s	0.9689	$0.969^{+0.029}_{-0.028}$	Y_P	0.245467	$0.24547^{+0.00047}_{-0.00051}$	$D_M(0.61)$	2312	2313^{+61}_{-59}
y_{cal}	0.9999	$0.9999^{+0.0064}_{-0.0064}$	Y_P^{BBN}	0.246794	$0.24679^{+0.00047}_{-0.00051}$	$H(2.33)$	236.32	$236.4^{+3.0}_{-2.8}$
H_0	67.31	$67.3^{+2.7}_{-2.7}$	$10^5 D/H$	2.551	$2.55^{+0.22}_{-0.19}$	$D_M(2.33)$	5769	5770^{+64}_{-64}
Ω_Λ	0.6851	$0.684^{+0.032}_{-0.037}$	Age/Gyr	13.809	$13.81^{+0.15}_{-0.15}$	$f\sigma_8(0.15)$	0.4566	$0.457^{+0.030}_{-0.028}$
Ω_m	0.3149	$0.316^{+0.037}_{-0.032}$	z_*	1089.63	$1089.7^{+1.8}_{-1.6}$	$\sigma_8(0.15)$	0.7445	$0.744^{+0.016}_{-0.017}$
$\Omega_m h^2$	0.14271	$0.1428^{+0.0047}_{-0.0045}$	r_*	144.41	$144.4^{+1.0}_{-1.0}$	$f\sigma_8(0.38)$	0.4741	$0.474^{+0.022}_{-0.022}$
$\Omega_m h^3$	0.09606	$0.0960^{+0.0020}_{-0.0020}$	$100\theta_*$	1.03996	$1.0399^{+0.0020}_{-0.0021}$	$\sigma_8(0.38)$	0.6596	$0.659^{+0.014}_{-0.015}$
σ_8	0.8060	$0.806^{+0.019}_{-0.020}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.89^{+0.10}_{-0.10}$	$f\sigma_8(0.51)$	0.4723	$0.472^{+0.018}_{-0.018}$
S_8	0.826	$0.827^{+0.061}_{-0.054}$	z_{drag}	1060.35	$1060.3^{+2.3}_{-2.5}$	$\sigma_8(0.51)$	0.6171	$0.617^{+0.013}_{-0.015}$
$\sigma_8 \Omega_m^{0.5}$	0.4524	$0.453^{+0.033}_{-0.030}$	r_{drag}	147.01	$147.0^{+1.1}_{-1.1}$	$f\sigma_8(0.61)$	0.4671	$0.467^{+0.016}_{-0.016}$
$\sigma_8 \Omega_m^{0.25}$	0.6038	$0.604^{+0.027}_{-0.026}$	k_D	0.14110	$0.1411^{+0.0016}_{-0.0017}$	$\sigma_8(0.61)$	0.5871	$0.587^{+0.013}_{-0.014}$
$\sigma_8/h^{0.5}$	0.9824	$0.982^{+0.038}_{-0.037}$	$100\theta_D$	0.16033	$0.1604^{+0.0016}_{-0.0014}$	$f\sigma_8(2.33)$	0.2959	$0.2956^{+0.0067}_{-0.0074}$
$r_{drag} h$	98.96	$98.9^{+4.1}_{-4.2}$	z_{eq}	3395	3397^{+110}_{-110}	$\sigma_8(2.33)$	0.3049	$0.3046^{+0.0075}_{-0.0082}$
$\langle d^2 \rangle^{1/2}$	2.426	$2.425^{+0.097}_{-0.093}$	k_{eq}	0.010361	$0.01037^{+0.00034}_{-0.00033}$	$\chi^2_{lensing}$	8.67	$9.6 (\nu: 0.8)$
z_{re}	7.23	$7.1^{+2.0}_{-2.7}$	$100\theta_{eq}$	0.8143	$0.814^{+0.021}_{-0.022}$	χ^2_{small}	395.68	$396.7 (\nu: 1.0)$
$10^9 A_s$	2.085	$2.082^{+0.086}_{-0.093}$	$100\theta_{s,eq}$	0.4497	$0.450^{+0.011}_{-0.011}$	χ^2_{plikEE}	740.3	$743.7 (\nu: 3.9)$
$10^9 A_s e^{-2\tau}$	1.8851	$1.885^{+0.039}_{-0.038}$	$H(0.15)$	72.63	$72.6^{+2.3}_{-2.3}$	χ^2_{prior}	0.53	$2.3 (\nu: 2.4)$
D_{40}	1223	1223^{+71}_{-70}	$D_M(0.15)$	643.8	644^{+24}_{-22}	χ^2_{CMB}	1144.6	$1150.0 (\nu: 6.4)$

Best-fit $\chi^2_{eff} = 1145.17$; $\bar{\chi}^2_{eff} = 1152.26$; $R - 1 = 0.00449$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.67 small_100x143_offlike5_EE_Aplanck_B: 395.68 plik_rd12_HM_v22_EE: 740.29

2.63 base_CamSpecHM_TE_lowE_lensing_CookeDH

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02241	$0.02242^{+0.00056}_{-0.00059}$	(+0.0 σ)	D_{220}	5730	5729^{+160}_{-170}	(+0.3 σ)	$H(0.38)$	83.35	$83.4^{+1.2}_{-1.2}$	(+0.8 σ)
$\Omega_c h^2$	0.11806	$0.1180^{+0.0041}_{-0.0040}$	(−1.0 σ)	D_{810}	2554	2554^{+54}_{-56}	(+1.4 σ)	$D_M(0.38)$	1519.6	1519^{+32}_{-31}	(−0.8 σ)
$100\theta_{MC}$	1.04126	$1.0413^{+0.0012}_{-0.0013}$	(+0.2 σ)	D_{1420}	825.6	826^{+26}_{-28}	(+1.3 σ)	$H(0.51)$	89.99	$90.03^{+0.98}_{-0.95}$	(+0.7 σ)
τ	0.0521	$0.053^{+0.023}_{-0.021}$	(−0.1 σ)	D_{2000}	233.6	$233.7^{+9.5}_{-10}$	(+1.2 σ)	$D_M(0.51)$	1969.8	1969^{+38}_{-37}	(−0.8 σ)
$\ln(10^{10} A_s)$	3.0398	$3.041^{+0.044}_{-0.042}$	(+0.3 σ)	$n_{s,0.002}$	0.9752	$0.976^{+0.028}_{-0.029}$	(+1.1 σ)	$H(0.61)$	95.55	$95.58^{+0.81}_{-0.79}$	(+0.6 σ)
n_s	0.9752	$0.976^{+0.028}_{-0.029}$	(+1.1 σ)	Y_P	0.245410	$0.24541^{+0.00023}_{-0.00026}$	(+0.0 σ)	$D_M(0.61)$	2293.2	2292^{+40}_{-40}	(−0.8 σ)
y_{cal}	1.0002	$1.0002^{+0.0063}_{-0.0064}$	(−0.1 σ)	Y_P^{BBN}	0.246736	$0.24674^{+0.00023}_{-0.00026}$	(+0.0 σ)	$H(2.33)$	235.35	$235.3^{+2.5}_{-2.5}$	(−1.1 σ)
H_0	68.19	$68.2^{+1.9}_{-1.9}$	(+0.9 σ)	$10^5 D/H$	2.579	$2.58^{+0.11}_{-0.10}$	(−0.0 σ)	$D_M(2.33)$	5753.0	5752^{+38}_{-37}	(−0.4 σ)
Ω_Λ	0.6965	$0.697^{+0.024}_{-0.025}$	(+1.0 σ)	Age/Gyr	13.775	$13.773^{+0.085}_{-0.083}$	(−0.3 σ)	$f\sigma_8(0.15)$	0.4493	$0.449^{+0.021}_{-0.020}$	(−0.8 σ)
Ω_m	0.3035	$0.303^{+0.025}_{-0.024}$	(−1.0 σ)	z_*	1089.70	$1089.68^{+0.96}_{-0.88}$	(−0.4 σ)	$\sigma_8(0.15)$	0.7457	$0.746^{+0.017}_{-0.017}$	(+0.1 σ)
$\Omega_m h^2$	0.14111	$0.1410^{+0.0039}_{-0.0038}$	(−1.1 σ)	r_*	144.91	$144.93^{+0.98}_{-0.96}$	(+1.2 σ)	$f\sigma_8(0.38)$	0.4693	$0.469^{+0.016}_{-0.016}$	(−0.6 σ)
$\Omega_m h^3$	0.09622	$0.0962^{+0.0012}_{-0.0012}$	(−0.5 σ)	$100\theta_*$	1.04144	$1.0415^{+0.0012}_{-0.0013}$	(+0.2 σ)	$\sigma_8(0.38)$	0.6619	$0.662^{+0.015}_{-0.015}$	(+0.3 σ)
σ_8	0.8061	$0.806^{+0.018}_{-0.018}$	(−0.0 σ)	$D_M(z_*)/\text{Gpc}$	13.914	$13.916^{+0.092}_{-0.093}$	(+1.1 σ)	$f\sigma_8(0.51)$	0.4689	$0.469^{+0.014}_{-0.014}$	(−0.5 σ)
S_8	0.8108	$0.810^{+0.042}_{-0.040}$	(−0.8 σ)	z_{drag}	1059.89	$1059.9^{+1.2}_{-1.3}$	(−0.2 σ)	$\sigma_8(0.51)$	0.6198	$0.620^{+0.015}_{-0.014}$	(+0.4 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4441	$0.444^{+0.023}_{-0.022}$	(−0.8 σ)	r_{drag}	147.57	$147.6^{+1.0}_{-1.0}$	(+1.1 σ)	$f\sigma_8(0.61)$	0.4646	$0.464^{+0.013}_{-0.013}$	(−0.4 σ)
$\sigma_8 \Omega_m^{0.25}$	0.5983	$0.598^{+0.020}_{-0.020}$	(−0.6 σ)	k_D	0.14039	$0.1404^{+0.0012}_{-0.0012}$	(−1.0 σ)	$\sigma_8(0.61)$	0.5899	$0.590^{+0.014}_{-0.014}$	(+0.5 σ)
$\sigma_8/h^{0.5}$	0.9762	$0.976^{+0.027}_{-0.027}$	(−0.4 σ)	$100\theta_D$	0.16082	$0.16082^{+0.00078}_{-0.00071}$	(+0.2 σ)	$f\sigma_8(2.33)$	0.2978	$0.2979^{+0.0075}_{-0.0072}$	(+0.6 σ)
$r_{drag} h$	100.62	$100.7^{+3.2}_{-3.2}$	(+1.0 σ)	z_{eq}	3357	3354^{+93}_{-92}	(−1.1 σ)	$\sigma_8(2.33)$	0.3074	$0.3076^{+0.0082}_{-0.0078}$	(+0.7 σ)
$\langle d^2 \rangle^{1/2}$	2.400	$2.399^{+0.086}_{-0.080}$	(−1.0 σ)	k_{eq}	0.010245	$0.01024^{+0.00028}_{-0.00028}$	(−1.1 σ)	$\chi^2_{lensing}$	9.01	$9.7 (\nu: 0.8)$	(−0.3 σ)
z_{re}	7.41	$7.5^{+2.2}_{-2.3}$	(−0.1 σ)	$100\theta_{eq}$	0.8219	$0.822^{+0.018}_{-0.017}$	(+1.1 σ)	χ^2_{small}	395.72	$396.8 (\nu: 1.1)$	(−0.1 σ)
$10^9 A_s$	2.090	$2.092^{+0.094}_{-0.087}$	(+0.3 σ)	$100\theta_{s,eq}$	0.4539	$0.4541^{+0.0092}_{-0.0090}$	(+1.1 σ)	$\chi^2_{CamSpec}$	2576.4	$2580.6 (\nu: 4.3)$	
$10^9 A_s e^{-2\tau}$	1.8833	$1.883^{+0.035}_{-0.035}$	(+0.9 σ)	$H(0.15)$	73.38	$73.4^{+1.6}_{-1.6}$	(+0.8 σ)	χ^2_{prior}	10.20	$11.4 (\nu: 1.1)$	(+1.0 σ)
D_{40}	1211	1210^{+70}_{-68}	(−0.7 σ)	$D_M(0.15)$	636.4	636^{+16}_{-15}	(−0.9 σ)	χ^2_{CMB}	2981.1	$2987.1 (\nu: 6.3)$	(+440.3 σ)

Best-fit $\chi^2_{eff} = 2991.29$; $\Delta\chi^2_{eff} = 1730.84$; $\bar{\chi}^2_{eff} = 2998.52$; $\Delta\bar{\chi}^2_{eff} = 1722.97$; $R - 1 = 0.00490$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.01 (Δ -0.60) small.100x143_offlike5_EE_Aplanck_B: 395.72 (Δ -0.13) CamSpec like_10.7HM_1400_unified: 2576.36

2.64 base_CamSpecHM_EE_lowE_lensing_CookeDH

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02249	$0.0225^{+0.0011}_{-0.0011}$	(-0.1σ)	D_{220}	5810	5809^{+250}_{-230}	$(+0.7\sigma)$	$H(0.38)$	82.69	$82.7^{+1.8}_{-1.7}$	(-0.1σ)
$\Omega_c h^2$	0.1191	$0.1191^{+0.0052}_{-0.0052}$	(-0.3σ)	D_{810}	2557	2558^{+58}_{-60}	$(+0.5\sigma)$	$D_M(0.38)$	1536.6	1536^{+47}_{-46}	$(+0.0\sigma)$
$100\theta_{MC}$	1.03932	$1.0394^{+0.0021}_{-0.0019}$	(-0.5σ)	D_{1420}	822.4	823^{+28}_{-28}	$(+0.1\sigma)$	$H(0.51)$	89.43	$89.5^{+1.5}_{-1.4}$	(-0.1σ)
τ	0.0479	$0.047^{+0.021}_{-0.024}$	(-0.3σ)	D_{2000}	232.2	233^{+10}_{-10}	(-0.0σ)	$D_M(0.51)$	1990	1989^{+56}_{-55}	$(+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0378	$3.036^{+0.041}_{-0.043}$	$(+0.0\sigma)$	$n_{s,0.002}$	0.9637	$0.965^{+0.029}_{-0.027}$	(-0.4σ)	$H(0.61)$	95.06	$95.1^{+1.3}_{-1.2}$	(-0.2σ)
n_s	0.9637	$0.965^{+0.029}_{-0.027}$	(-0.4σ)	Y_P	0.245443	$0.24545^{+0.00047}_{-0.00048}$	(-0.1σ)	$D_M(0.61)$	2315	2314^{+60}_{-60}	$(+0.0\sigma)$
y_{cal}	0.9998	$0.9998^{+0.0066}_{-0.0064}$	(-0.1σ)	Y_P^{BBN}	0.246769	$0.24677^{+0.00047}_{-0.00049}$	(-0.1σ)	$H(2.33)$	235.96	$236.0^{+2.9}_{-2.9}$	(-0.4σ)
H_0	67.23	$67.3^{+2.7}_{-2.6}$	$(+0.0\sigma)$	$10^5 D/H$	2.563	$2.56^{+0.21}_{-0.19}$	$(+0.1\sigma)$	$D_M(2.33)$	5777	5776^{+62}_{-63}	$(+0.2\sigma)$
Ω_Λ	0.6852	$0.685^{+0.032}_{-0.035}$	$(+0.1\sigma)$	Age/Gyr	13.829	$13.83^{+0.14}_{-0.14}$	$(+0.3\sigma)$	$f\sigma_8(0.15)$	0.4550	$0.454^{+0.029}_{-0.028}$	(-0.2σ)
Ω_m	0.3148	$0.315^{+0.035}_{-0.032}$	(-0.1σ)	z_*	1089.69	$1089.7^{+1.8}_{-1.7}$	$(+0.0\sigma)$	$\sigma_8(0.15)$	0.7420	$0.741^{+0.018}_{-0.017}$	(-0.4σ)
$\Omega_m h^2$	0.14227	$0.1422^{+0.0046}_{-0.0046}$	(-0.3σ)	r_*	144.56	$144.6^{+1.1}_{-1.0}$	$(+0.4\sigma)$	$f\sigma_8(0.38)$	0.4724	$0.472^{+0.022}_{-0.022}$	(-0.3σ)
$\Omega_m h^3$	0.09565	$0.0957^{+0.0020}_{-0.0019}$	(-0.5σ)	$100\theta_*$	1.03950	$1.0395^{+0.0021}_{-0.0019}$	(-0.5σ)	$\sigma_8(0.38)$	0.6573	$0.657^{+0.015}_{-0.014}$	(-0.4σ)
σ_8	0.8033	$0.802^{+0.021}_{-0.019}$	(-0.4σ)	$D_M(z_*)/\text{Gpc}$	13.907	$13.91^{+0.11}_{-0.10}$	$(+0.5\sigma)$	$f\sigma_8(0.51)$	0.4706	$0.470^{+0.019}_{-0.019}$	(-0.3σ)
S_8	0.823	$0.822^{+0.058}_{-0.056}$	(-0.2σ)	z_{drag}	1060.16	$1060.2^{+2.3}_{-2.3}$	(-0.2σ)	$\sigma_8(0.51)$	0.6150	$0.614^{+0.014}_{-0.014}$	(-0.4σ)
$\sigma_8 \Omega_m^{0.5}$	0.4507	$0.450^{+0.032}_{-0.031}$	(-0.2σ)	r_{drag}	147.18	$147.2^{+1.2}_{-1.1}$	$(+0.4\sigma)$	$f\sigma_8(0.61)$	0.4655	$0.465^{+0.016}_{-0.016}$	(-0.3σ)
$\sigma_8 \Omega_m^{0.25}$	0.6017	$0.601^{+0.027}_{-0.027}$	(-0.3σ)	k_D	0.14086	$0.1409^{+0.0017}_{-0.0017}$	(-0.4σ)	$\sigma_8(0.61)$	0.5851	$0.585^{+0.014}_{-0.013}$	(-0.4σ)
$\sigma_8/h^{0.5}$	0.9797	$0.979^{+0.038}_{-0.037}$	(-0.3σ)	$100\theta_D$	0.16037	$0.1604^{+0.0015}_{-0.0013}$	$(+0.0\sigma)$	$f\sigma_8(2.33)$	0.2949	$0.2947^{+0.0072}_{-0.0071}$	(-0.4σ)
$r_{drag} h$	98.95	$99.0^{+4.2}_{-4.0}$	$(+0.1\sigma)$	z_{eq}	3384	3384^{+110}_{-110}	(-0.3σ)	$\sigma_8(2.33)$	0.3039	$0.3037^{+0.0080}_{-0.0080}$	(-0.3σ)
$\langle d^2 \rangle^{1/2}$	2.435	$2.430^{+0.091}_{-0.096}$	$(+0.1\sigma)$	k_{eq}	0.010329	$0.01033^{+0.00034}_{-0.00034}$	(-0.3σ)	$\chi^2_{lensing}$	8.77	9.6 ($\nu: 1.2$)	(-0.0σ)
z_{re}	6.98	$6.8^{+2.0}_{-2.8}$	(-0.4σ)	$100\theta_{eq}$	0.8156	$0.816^{+0.022}_{-0.021}$	$(+0.2\sigma)$	χ^2_{simall}	395.72	396.8 ($\nu: 1.2$)	$(+0.1\sigma)$
$10^9 A_s$	2.086	$2.082^{+0.087}_{-0.088}$	$(+0.0\sigma)$	$100\theta_{s,eq}$	0.4505	$0.451^{+0.011}_{-0.010}$	$(+0.3\sigma)$	$\chi^2_{CamSpec}$	1888.2	1891.6 ($\nu: 3.8$)	
$10^9 A_s e^{-2\tau}$	1.8953	$1.896^{+0.039}_{-0.038}$	$(+0.7\sigma)$	$H(0.15)$	72.54	$72.6^{+2.3}_{-2.3}$	(-0.0σ)	χ^2_{prior}	10.38	12.2 ($\nu: 2.1$)	$(+4.5\sigma)$
D_{40}	1243	1241^{+70}_{-69}	$(+0.7\sigma)$	$D_M(0.15)$	644.6	644^{+23}_{-23}	$(+0.0\sigma)$	χ^2_{CMB}	2292.7	2298.0 ($\nu: 5.4$)	$(+320.2\sigma)$

Best-fit $\chi^2_{eff} = 2303.11$; $\Delta\chi^2_{eff} = 1157.94$; $\bar{\chi}^2_{eff} = 2310.16$; $\Delta\bar{\chi}^2_{eff} = 1157.90$; $R - 1 = 0.00957$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 (Δ 0.10) simall_100x143_offlike5_EE_Aplanck_B: 395.72 (Δ 0.04) CamSpec like_10.7HM_1400_unified: 1888.23

2.65 base_plikHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02250	$0.02238^{+0.00070}_{-0.00068}$	$\sigma_8 \Omega_m^{0.25}$	0.6370	$0.630^{+0.040}_{-0.043}$	$H(0.15)$	73.68	$73.3^{+2.6}_{-2.5}$
$\Omega_c h^2$	0.1173	$0.1181^{+0.0064}_{-0.0061}$	$\sigma_8/h^{0.5}$	1.041	$1.028^{+0.064}_{-0.069}$	$D_M(0.15)$	633.5	637^{+25}_{-24}
$100\theta_{MC}$	1.04124	$1.0411^{+0.0013}_{-0.0013}$	$r_{drag}h$	101.2	$100.6^{+5.1}_{-5.0}$	$H(0.38)$	83.57	$83.3^{+1.9}_{-1.8}$
τ	0.126	$0.108^{+0.080}_{-0.085}$	$\langle d^2 \rangle^{1/2}$	2.564	$2.54^{+0.15}_{-0.17}$	$D_M(0.38)$	1514	1521^{+50}_{-49}
$\ln(10^{10} A_s)$	3.180	$3.15^{+0.15}_{-0.16}$	z_{re}	13.8	$12.3^{+5.7}_{-8.1}$	$H(0.51)$	90.16	$90.0^{+1.5}_{-1.4}$
n_s	0.9756	$0.971^{+0.020}_{-0.019}$	$10^9 A_s$	2.405	$2.33^{+0.37}_{-0.35}$	$D_M(0.51)$	1963	1971^{+59}_{-58}
y_{cal}	1.0001	$1.0003^{+0.0064}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.8693	$1.872^{+0.039}_{-0.038}$	$H(0.61)$	95.68	$95.5^{+1.3}_{-1.1}$
A_{217}^{CIB}	42.8	46^{+20}_{-20}	D_{40}	1238.9	1240^{+42}_{-41}	$D_M(0.61)$	2286	2295^{+63}_{-63}
$\xi^{tSZ \times CIB}$	0.99	—	D_{220}	5715	5718^{+110}_{-110}	$H(2.33)$	234.92	$235.3^{+3.8}_{-3.6}$
A_{143}^{tSZ}	6.86	$5.5^{+4.2}_{-4.9}$	D_{810}	2531.7	2531^{+37}_{-36}	$D_M(2.33)$	5748	5755^{+52}_{-55}
A_{100}^{PS}	240	254^{+70}_{-70}	D_{1420}	817.1	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4770	$0.473^{+0.034}_{-0.036}$
A_{143}^{PS}	50.5	44^{+20}_{-20}	D_{2000}	232.6	$231.4^{+5.4}_{-5.4}$	$\sigma_8(0.15)$	0.797	$0.785^{+0.054}_{-0.057}$
$A_{143 \times 217}^{PS}$	58.0	42^{+20}_{-20}	$n_{s,0.002}$	0.9756	$0.971^{+0.020}_{-0.019}$	$f\sigma_8(0.38)$	0.4994	$0.494^{+0.032}_{-0.034}$
A_{217}^{PS}	123.8	115^{+30}_{-30}	Y_P	0.245443	$0.24540^{+0.00030}_{-0.00031}$	$\sigma_8(0.38)$	0.708	$0.697^{+0.050}_{-0.052}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246770	$0.24672^{+0.00030}_{-0.00031}$	$f\sigma_8(0.51)$	0.4995	$0.494^{+0.031}_{-0.034}$
A_{100}^{dustTT}	8.74	$8.8^{+4.7}_{-4.7}$	$10^5 D/H$	2.563	$2.58^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	0.6634	$0.652^{+0.048}_{-0.049}$
A_{143}^{dustTT}	10.66	$10.5^{+4.6}_{-4.7}$	Age/Gyr	13.764	$13.78^{+0.12}_{-0.12}$	$f\sigma_8(0.61)$	0.4953	$0.489^{+0.031}_{-0.033}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.1^{+8.4}_{-8.6}$	z_*	1089.53	$1089.7^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.6316	$0.621^{+0.046}_{-0.048}$
A_{217}^{dustTT}	96.2	94^{+20}_{-20}	r_*	145.04	$144.9^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.3190	$0.313^{+0.024}_{-0.025}$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04141	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.3295	$0.323^{+0.026}_{-0.026}$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.927	$13.92^{+0.13}_{-0.13}$	f_{2000}^{143}	26.1	28^{+9}_{-9}
H_0	68.53	$68.1^{+3.0}_{-2.9}$	z_{drag}	1060.05	$1059.8^{+1.4}_{-1.3}$	$f_{2000}^{143 \times 217}$	30.1	31^{+6}_{-6}
Ω_Λ	0.7010	$0.696^{+0.036}_{-0.041}$	r_{drag}	147.67	$147.6^{+1.3}_{-1.4}$	f_{2000}^{217}	104.7	$106.1^{+5.8}_{-5.7}$
Ω_m	0.2990	$0.304^{+0.041}_{-0.036}$	k_D	0.14035	$0.1403^{+0.0014}_{-0.0014}$	χ_{lowl}^2	24.89	25.0 (ν : 1.5)
$\Omega_m h^2$	0.1404	$0.1411^{+0.0060}_{-0.0058}$	$100\theta_D$	0.16072	$0.16084^{+0.00077}_{-0.00074}$	χ_{plik}^2	753.5	768.0 (ν : 16.1)
$\Omega_m h^3$	0.09623	$0.0961^{+0.0012}_{-0.0012}$	z_{eq}	3340	3356^{+140}_{-140}	χ_{prior}^2	1.1	7.2 (ν : 6.5)
σ_8	0.861	$0.849^{+0.057}_{-0.060}$	k_{eq}	0.010195	$0.01024^{+0.00044}_{-0.00042}$	χ_{CMB}^2	778.4	793.0 (ν : 15.1)
S_8	0.860	$0.854^{+0.065}_{-0.067}$	$100\theta_{eq}$	0.8251	$0.822^{+0.028}_{-0.027}$			
$\sigma_8 \Omega_m^{0.5}$	0.4710	$0.468^{+0.036}_{-0.037}$	$100\theta_{s,eq}$	0.4555	$0.454^{+0.014}_{-0.014}$			

Best-fit $\chi_{\text{eff}}^2 = 779.48$; $\bar{\chi}_{\text{eff}}^2 = 800.20$; $R - 1 = 0.00744$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 24.89 plik_rd12_HM_v22_TT: 753.54

2.66 base_plikHM_TTTEEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022555	$0.02251^{+0.00041}_{-0.00042}$	$\Omega_m h^3$	0.09646	$0.09641^{+0.00073}_{-0.00078}$	$100\theta_{\text{eq}}$	0.8205	$0.820^{+0.017}_{-0.017}$
$\Omega_c h^2$	0.11829	$0.1185^{+0.0040}_{-0.0039}$	σ_8	0.8551	$0.848^{+0.047}_{-0.049}$	$100\theta_{\text{s,eq}}$	0.4530	$0.4526^{+0.0086}_{-0.0087}$
$100\theta_{\text{MC}}$	1.04110	$1.04108^{+0.00083}_{-0.00085}$	S_8	0.8614	$0.857^{+0.048}_{-0.050}$	$H(0.15)$	73.38	$73.3^{+1.5}_{-1.6}$
τ	0.114	$0.106^{+0.063}_{-0.067}$	$\sigma_8 \Omega_m^{0.5}$	0.4718	$0.469^{+0.026}_{-0.027}$	$D_{\text{M}}(0.15)$	636.4	637^{+16}_{-15}
$\ln(10^{10} A_s)$	3.160	$3.14^{+0.12}_{-0.13}$	$\sigma_8 \Omega_m^{0.25}$	0.6352	$0.631^{+0.033}_{-0.035}$	$H(0.38)$	83.38	$83.3^{+1.1}_{-1.1}$
n_s	0.9730	$0.971^{+0.014}_{-0.013}$	$\sigma_8/h^{0.5}$	1.036	$1.028^{+0.053}_{-0.056}$	$D_{\text{M}}(0.38)$	1519.6	1522^{+31}_{-30}
y_{cal}	1.0002	$1.0003^{+0.0063}_{-0.0063}$	$r_{\text{drag}} h$	100.44	$100.3^{+3.1}_{-3.1}$	$H(0.51)$	90.03	$89.97^{+0.91}_{-0.88}$
A_{217}^{CIB}	42.5	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.554	$2.54^{+0.12}_{-0.13}$	$D_{\text{M}}(0.51)$	1969.6	1972^{+36}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	z_{re}	12.9	$12.2^{+4.6}_{-6.2}$	$H(0.61)$	95.60	$95.55^{+0.73}_{-0.69}$
A_{143}^{tSZ}	6.85	> 1.25	$10^9 A_s$	2.356	$2.32^{+0.29}_{-0.28}$	$D_{\text{M}}(0.61)$	2292.8	2295^{+39}_{-38}
A_{100}^{PS}	239	251^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8754	$1.875^{+0.031}_{-0.030}$	$H(2.33)$	235.64	$235.7^{+2.4}_{-2.3}$
A_{143}^{PS}	49.7	43^{+20}_{-20}	D_{40}	1239.7	1241^{+36}_{-35}	$D_{\text{M}}(2.33)$	5749.3	5752^{+31}_{-32}
$A_{143 \times 217}^{\text{PS}}$	57.7	42^{+20}_{-20}	D_{220}	5728	5731^{+100}_{-99}	$f\sigma_8(0.15)$	0.4773	$0.474^{+0.026}_{-0.027}$
A_{217}^{PS}	124.3	116^{+20}_{-30}	D_{810}	2535.6	2534^{+34}_{-34}	$\sigma_8(0.15)$	0.7909	$0.785^{+0.045}_{-0.047}$
A^{kSZ}	0.00	< 8.89	D_{1420}	818.3	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4983	$0.495^{+0.026}_{-0.027}$
A_{100}^{dustTT}	8.68	$8.8^{+4.8}_{-4.7}$	D_{2000}	232.84	$232.0^{+4.1}_{-4.3}$	$\sigma_8(0.38)$	0.7019	$0.696^{+0.041}_{-0.042}$
A_{143}^{dustTT}	10.72	$10.6^{+4.6}_{-4.5}$	$n_{\text{s},0.002}$	0.9730	$0.971^{+0.014}_{-0.013}$	$f\sigma_8(0.51)$	0.4977	$0.494^{+0.026}_{-0.027}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.2^{+8.6}_{-8.4}$	Y_{P}	0.245464	$0.24545^{+0.00016}_{-0.00017}$	$\sigma_8(0.51)$	0.6572	$0.652^{+0.039}_{-0.040}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246791	$0.24678^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	0.4930	$0.489^{+0.026}_{-0.027}$
A_{100}^{dustTE}	0.113	$0.113^{+0.098}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.552	$2.560^{+0.078}_{-0.074}$	$\sigma_8(0.61)$	0.6255	$0.620^{+0.037}_{-0.038}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.076}_{-0.074}$	Age/Gyr	13.766	$13.772^{+0.070}_{-0.070}$	$f\sigma_8(2.33)$	0.3157	$0.313^{+0.019}_{-0.020}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	z_*	1089.54	$1089.61^{+0.80}_{-0.77}$	$\sigma_8(2.33)$	0.3258	$0.323^{+0.021}_{-0.021}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	r_*	144.73	$144.71^{+0.84}_{-0.86}$	f_{2000}^{143}	25.7	27^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04127	$1.04125^{+0.00082}_{-0.00083}$	$f_{2000}^{143 \times 217}$	29.8	30^{+5}_{-5}
A_{217}^{dustTE}	2.06	$2.07^{+0.71}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.900	$13.897^{+0.078}_{-0.078}$	f_{2000}^{217}	104.53	$105.4^{+5.0}_{-4.9}$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.24	$1060.16^{+0.80}_{-0.84}$	χ_{lowl}^2	24.77	$25.0 (\nu: 1.0)$
c_{217}	0.99812	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	147.34	$147.33^{+0.82}_{-0.83}$	χ_{plik}^2	2337.6	$2354.2 (\nu: 17.3)$
H_0	68.17	$68.1^{+1.8}_{-1.8}$	k_{D}	0.14075	$0.14073^{+0.00084}_{-0.00086}$	χ_{prior}^2	1.3	$11.3 (\nu: 10.0)$
Ω_{Λ}	0.6955	$0.694^{+0.023}_{-0.025}$	$100\theta_{\text{D}}$	0.160589	$0.16064^{+0.00046}_{-0.00045}$	χ_{CMB}^2	2362.3	$2379.2 (\nu: 16.7)$
Ω_{m}	0.3045	$0.306^{+0.025}_{-0.023}$	z_{eq}	3366	3370^{+90}_{-86}			
$\Omega_{\text{m}} h^2$	0.14149	$0.1417^{+0.0038}_{-0.0036}$	k_{eq}	0.010273	$0.01029^{+0.00028}_{-0.00026}$			

Best-fit $\chi_{\text{eff}}^2 = 2363.64$; $\bar{\chi}_{\text{eff}}^2 = 2390.54$; $R - 1 = 0.00817$

χ_{eff}^2 : CMB - commander_dx12_v3.2.29: 24.77 plik_rd12_HM_v22b_TTTEEE: 2337.58

2.67 base_CamSpecHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02253	$0.02242^{+0.00073}_{-0.00069}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4693	$0.468^{+0.037}_{-0.036}$ (−0.0 σ)	$100\theta_{s,eq}$	0.4563	$0.455^{+0.015}_{-0.014}$ (+0.1 σ)
$\Omega_c h^2$	0.1169	$0.1177^{+0.0068}_{-0.0065}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6359	$0.631^{+0.040}_{-0.042}$ (+0.1 σ)	$H(0.15)$	73.84	$73.5^{+2.7}_{-2.6}$ (+0.2 σ)
$100\theta_{MC}$	1.04132	$1.0412^{+0.0014}_{-0.0014}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	1.039	$1.030^{+0.065}_{-0.068}$ (+0.1 σ)	$D_M(0.15)$	631.9	635^{+26}_{-26} (−0.2 σ)
τ	0.128	$0.113^{+0.081}_{-0.088}$ (+0.2 σ)	$r_{drag}h$	101.5	$100.9^{+5.5}_{-5.2}$ (+0.2 σ)	$H(0.38)$	83.69	$83.4^{+2.1}_{-1.9}$ (+0.2 σ)
$\ln(10^{10}A_s)$	3.183	$3.15^{+0.15}_{-0.17}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.560	$2.54^{+0.15}_{-0.16}$ (+0.0 σ)	$D_M(0.38)$	1511	1518^{+52}_{-52} (−0.2 σ)
n_s	0.9775	$0.973^{+0.021}_{-0.020}$ (+0.3 σ)	z_{re}	14.0	$12.7^{+5.6}_{-8.3}$ (+0.2 σ)	$H(0.51)$	90.26	$90.1^{+1.7}_{-1.5}$ (+0.2 σ)
y_{cal}	1.0002	$1.0003^{+0.0063}_{-0.0064}$ (+0.0 σ)	$10^9 A_s$	2.411	$2.35^{+0.37}_{-0.37}$ (+0.1 σ)	$D_M(0.51)$	1959	1967^{+61}_{-62} (−0.2 σ)
A_{100}^{PS}	219	233^{+70}_{-60} (−0.8 σ)	$10^9 A_s e^{-2\tau}$	1.8656	$1.868^{+0.040}_{-0.040}$ (−0.3 σ)	$H(0.61)$	95.76	$95.6^{+1.4}_{-1.2}$ (+0.2 σ)
A_{143}^{PS}	45.0	36^{+20}_{-20} (−1.0 σ)	D_{40}	1234.6	1237^{+42}_{-41} (−0.2 σ)	$D_M(0.61)$	2282	2291^{+65}_{-67} (−0.2 σ)
A_{217}^{PS}	109.7	104^{+30}_{-40} (−1.2 σ)	D_{220}	5706	5708^{+100}_{-110} (−0.2 σ)	$H(2.33)$	234.71	$235.1^{+4.0}_{-3.8}$ (−0.1 σ)
A_{217}^{CIB}	37.6	38^{+20}_{-20} (−1.2 σ)	D_{810}	2529.3	2528^{+36}_{-35} (−0.2 σ)	$D_M(2.33)$	5744	5752^{+54}_{-58} (−0.2 σ)
A_{143}^{tSZ}	6.20	< 8.89 (−0.7 σ)	D_{1420}	817.0	815^{+13}_{-14} (−0.0 σ)	$f\sigma_8(0.15)$	0.4754	$0.473^{+0.035}_{-0.035}$ (−0.0 σ)
$r_{143 \times 217}^{PS}$	0.807	> 0.359	D_{2000}	232.7	$231.6^{+5.7}_{-5.8}$ (+0.1 σ)	$\sigma_8(0.15)$	0.798	$0.788^{+0.054}_{-0.058}$ (+0.1 σ)
$r_{143 \times 217}^{CIB}$	0.70	—	$n_{s,0.002}$	0.9775	$0.973^{+0.021}_{-0.020}$ (+0.3 σ)	$f\sigma_8(0.38)$	0.4984	$0.495^{+0.032}_{-0.033}$ (+0.0 σ)
$\xi^{tSZ \times CIB}$	0.96	—	Y_P	0.245453	$0.24541^{+0.00031}_{-0.00031}$ (+0.1 σ)	$\sigma_8(0.38)$	0.709	$0.700^{+0.050}_{-0.054}$ (+0.1 σ)
A^{kSZ}	0.1	—	Y_P^{BBN}	0.246780	$0.24674^{+0.00031}_{-0.00031}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4988	$0.495^{+0.032}_{-0.033}$ (+0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	$10^5 D/H$	2.557	$2.58^{+0.13}_{-0.13}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6642	$0.655^{+0.048}_{-0.051}$ (+0.1 σ)
A_{143}^{dust}	0.962	$0.96^{+0.46}_{-0.46}$	Age/Gyr	13.756	$13.77^{+0.12}_{-0.13}$ (−0.2 σ)	$f\sigma_8(0.61)$	0.4948	$0.490^{+0.031}_{-0.033}$ (+0.1 σ)
A_{217}^{dust}	0.978	$0.98^{+0.27}_{-0.27}$	z_*	1089.46	$1089.7^{+1.3}_{-1.3}$ (−0.2 σ)	$\sigma_8(0.61)$	0.6324	$0.624^{+0.046}_{-0.049}$ (+0.1 σ)
$A_{143 \times 217}^{dust}$	1.030	$1.02^{+0.42}_{-0.42}$	r_*	145.12	$145.0^{+1.4}_{-1.5}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.3195	$0.315^{+0.024}_{-0.026}$ (+0.2 σ)
c_{100}	0.99783	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_*$	1.04150	$1.0414^{+0.0013}_{-0.0013}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3302	$0.325^{+0.027}_{-0.028}$ (+0.2 σ)
c_{217}	1.00070	$1.0009^{+0.0040}_{-0.0040}$ (+4.4 σ)	$D_M(z_*)/\text{Gpc}$	13.934	$13.92^{+0.13}_{-0.13}$ (+0.1 σ)	f_{2000}^{143}	25.9	27^{+10}_{-9} (−0.2 σ)
H_0	68.72	$68.3^{+3.2}_{-3.0}$ (+0.2 σ)	z_{drag}	1060.09	$1059.9^{+1.4}_{-1.3}$ (+0.1 σ)	f_{2000}^{217}	103.9	$105.3^{+6.2}_{-6.1}$ (−0.4 σ)
Ω_Λ	0.7034	$0.698^{+0.038}_{-0.043}$ (+0.2 σ)	r_{drag}	147.74	$147.6^{+1.4}_{-1.4}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	29.3	30^{+7}_{-7} (−0.4 σ)
Ω_m	0.2966	$0.302^{+0.043}_{-0.038}$ (−0.2 σ)	k_D	0.14030	$0.1403^{+0.0014}_{-0.0013}$ (−0.1 σ)	χ_{lowl}^2	24.50	$24.8 (\nu: 1.4)$ (−0.1 σ)
$\Omega_m h^2$	0.1401	$0.1408^{+0.0063}_{-0.0061}$ (−0.1 σ)	$100\theta_D$	0.16071	$0.16081^{+0.00076}_{-0.00075}$ (−0.1 σ)	$\chi_{CamSpec}^2$	7046.4	$7060.1 (\nu: 15.0)$
$\Omega_m h^3$	0.09626	$0.0962^{+0.0013}_{-0.0012}$ (+0.1 σ)	z_{eq}	3332	3349^{+150}_{-150} (−0.1 σ)	χ_{prior}^2	1.4	$7.4 (\nu: 5.6)$ (+0.1 σ)
σ_8	0.862	$0.851^{+0.056}_{-0.061}$ (+0.1 σ)	k_{eq}	0.010170	$0.01022^{+0.00046}_{-0.00045}$ (−0.1 σ)	χ_{CMB}^2	7070.9	$7084.8 (\nu: 14.5)$ (+1145.0 σ)
S_8	0.857	$0.854^{+0.067}_{-0.066}$ (−0.0 σ)	$100\theta_{eq}$	0.8268	$0.824^{+0.030}_{-0.028}$ (+0.1 σ)			

Best-fit $\chi_{eff}^2 = 7072.29$; $\Delta\chi_{eff}^2 = 6292.81$; $\bar{\chi}_{eff}^2 = 7092.24$; $\Delta\bar{\chi}_{eff}^2 = 6292.04$; $R - 1 = 0.00797$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 24.50 (Δ -0.39) CamSpec like_10.7HM: 7046.38

2.68 base_CamSpecHM_TTTEEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022467	$0.02243^{+0.00048}_{-0.00046} \quad (-0.5\sigma)$	S_8	0.850	$0.846^{+0.053}_{-0.053} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4533	$0.4530^{+0.0090}_{-0.0089} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11820	$0.1184^{+0.0042}_{-0.0040} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4655	$0.463^{+0.029}_{-0.029} \quad (-0.6\sigma)$	$H(0.15)$	73.32	$73.2^{+1.6}_{-1.6} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	1.04104	$1.04102^{+0.00085}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6265	$0.623^{+0.037}_{-0.039} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	637.0	$638^{+16}_{-15} \quad (+0.1\sigma)$
τ	0.101	$0.094^{+0.074}_{-0.073} \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	1.022	$1.015^{+0.062}_{-0.063} \quad (-0.6\sigma)$	$H(0.38)$	83.31	$83.2^{+1.2}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.132	$3.12^{+0.14}_{-0.14} \quad (-0.6\sigma)$	$r_{\mathrm{drag}} h$	100.44	$100.3^{+3.2}_{-3.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	1520.8	$1523^{+32}_{-32} \quad (+0.1\sigma)$
n_{s}	0.9723	$0.971^{+0.014}_{-0.014} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.521	$2.51^{+0.14}_{-0.15} \quad (-0.7\sigma)$	$H(0.51)$	89.96	$89.91^{+0.96}_{-0.93} \quad (-0.2\sigma)$
y_{cal}	1.0002	$1.0002^{+0.0067}_{-0.0062} \quad (-0.0\sigma)$	z_{re}	11.9	$11.2^{+5.6}_{-7.4} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	1971.2	$1973^{+38}_{-37} \quad (+0.1\sigma)$
A_{100}^{PS}	222	$234^{+70}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	2.293	$2.26^{+0.34}_{-0.30} \quad (-0.5\sigma)$	$H(0.61)$	95.53	$95.48^{+0.78}_{-0.75} \quad (-0.2\sigma)$
A_{143}^{PS}	48.3	$37^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8726	$1.872^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2294.6	$2297^{+41}_{-40} \quad (+0.1\sigma)$
A_{217}^{PS}	108.5	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1231.7	$1233^{+37}_{-33} \quad (-0.6\sigma)$	$H(2.33)$	235.48	$235.6^{+2.4}_{-2.3} \quad (-0.2\sigma)$
A_{217}^{CIB}	38.8	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5716	$5716^{+98}_{-99} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	5753.6	$5756^{+34}_{-35} \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.38	$< 8.87 \quad (-0.9\sigma)$	D_{810}	2532.6	$2531^{+37}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4708	$0.468^{+0.029}_{-0.029} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.768	> 0.364	D_{1420}	816.9	$816^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.780	$0.774^{+0.052}_{-0.051} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.84	—	D_{2000}	231.94	$231.3^{+4.6}_{-4.4} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	0.4915	$0.489^{+0.029}_{-0.030} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.96	—	$n_{\mathrm{s},0.002}$	0.9723	$0.971^{+0.014}_{-0.014} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6922	$0.687^{+0.048}_{-0.047} \quad (-0.6\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.245433	$0.24542^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4909	$0.488^{+0.030}_{-0.030} \quad (-0.6\sigma)$
A_{100}^{dust}	1.00	$1.00^{+0.51}_{-0.49}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246759	$0.24674^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.6481	$0.643^{+0.045}_{-0.044} \quad (-0.6\sigma)$
A_{143}^{dust}	0.960	$0.95^{+0.45}_{-0.46}$	$10^5 \mathrm{D}/\mathrm{H}$	2.568	$2.575^{+0.087}_{-0.087} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4863	$0.483^{+0.030}_{-0.030} \quad (-0.6\sigma)$
A_{217}^{dust}	0.993	$0.98^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	13.776	$13.781^{+0.075}_{-0.076} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.6169	$0.612^{+0.043}_{-0.042} \quad (-0.6\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.008	$1.01^{+0.41}_{-0.41}$	z_*	1089.64	$1089.70^{+0.88}_{-0.85} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.3114	$0.309^{+0.023}_{-0.022} \quad (-0.5\sigma)$
c_{100}	0.99782	$0.9975^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	r_*	144.82	$144.81^{+0.88}_{-0.85} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3213	$0.319^{+0.024}_{-0.023} \quad (-0.5\sigma)$
c_{217}	1.00104	$1.0009^{+0.0041}_{-0.0040} \quad (+4.5\sigma)$	$100\theta_*$	1.04122	$1.04120^{+0.00083}_{-0.00083} \quad (-0.2\sigma)$	f_{2000}^{143}	27.4	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{TE}	0.9932	$0.994^{+0.014}_{-0.014}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.909	$13.908^{+0.081}_{-0.080} \quad (+0.3\sigma)$	f_{2000}^{217}	104.8	$105.5^{+5.4}_{-5.5} \quad (+0.0\sigma)$
c_{EE}	0.9906	$0.991^{+0.013}_{-0.013}$	z_{drag}	1060.05	$1059.96^{+0.97}_{-0.90} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	30.1	$31^{+6}_{-6} \quad (+0.1\sigma)$
H_0	68.11	$68.0^{+1.9}_{-1.9} \quad (-0.1\sigma)$	r_{drag}	147.46	$147.46^{+0.85}_{-0.83} \quad (+0.4\sigma)$	χ_{lowl}^2	23.92	$24.1 \quad (\nu: 0.9) \quad (-0.6\sigma)$
Ω_{Λ}	0.6954	$0.694^{+0.024}_{-0.026} \quad (+0.0\sigma)$	k_{D}	0.14055	$0.14053^{+0.00089}_{-0.00090} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11496.2	$11512.2 \quad (\nu: 16.0)$
Ω_{m}	0.3046	$0.306^{+0.026}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16070	$0.16075^{+0.00054}_{-0.00055} \quad (+0.6\sigma)$	χ_{prior}^2	1.9	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.14131	$0.1415^{+0.0038}_{-0.0037} \quad (-0.2\sigma)$	z_{eq}	3361	$3365^{+92}_{-89} \quad (-0.2\sigma)$	χ_{CMB}^2	11520.1	$11536.3 \quad (\nu: 15.7) \quad (+1586.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.09625	$0.09620^{+0.00084}_{-0.00082} \quad (-0.7\sigma)$	k_{eq}	0.010259	$0.01027^{+0.00028}_{-0.00027} \quad (-0.2\sigma)$			
σ_8	0.843	$0.837^{+0.055}_{-0.055} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	0.8210	$0.820^{+0.018}_{-0.018} \quad (+0.1\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11522.05$; $\Delta\chi_{\mathrm{eff}}^2 = 9158.41$; $\bar{\chi}_{\mathrm{eff}}^2 = 11544.10$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9153.56$; $R - 1 = 0.00836$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 23.92 (Δ -0.85) CamSpec like_10.7HM_1400_unified: 11496.23

2.69 base_plikHM_TT_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02240	$0.02232^{+0.00073}_{-0.00067}$	$\sigma_8 \Omega_m^{0.25}$	0.6118	$0.611^{+0.020}_{-0.021}$	$H(0.15)$	73.60	$73.4^{+2.7}_{-2.5}$
$\Omega_c h^2$	0.1172	$0.1178^{+0.0065}_{-0.0065}$	$\sigma_8/h^{0.5}$	0.9997	$0.998^{+0.031}_{-0.033}$	$D_M(0.15)$	634.2	637^{+25}_{-25}
$100\theta_{MC}$	1.04117	$1.0411^{+0.0014}_{-0.0013}$	$r_{drag} h$	101.2	$100.7^{+5.4}_{-5.1}$	$H(0.38)$	83.49	$83.3^{+2.0}_{-1.8}$
τ	0.086	$0.080^{+0.063}_{-0.061}$	$\langle d^2 \rangle^{1/2}$	2.469	$2.468^{+0.075}_{-0.078}$	$D_M(0.38)$	1515	1521^{+51}_{-52}
$\ln(10^{10} A_s)$	3.100	$3.09^{+0.11}_{-0.11}$	z_{re}	10.6	$9.98^{+4.9}_{-6.4}$	$H(0.51)$	90.08	$89.9^{+1.6}_{-1.4}$
n_s	0.9733	$0.970^{+0.020}_{-0.019}$	$10^9 A_s$	2.220	$2.20^{+0.26}_{-0.23}$	$D_M(0.51)$	1965	1971^{+59}_{-61}
y_{cal}	1.0001	$1.0002^{+0.0064}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.8685	$1.870^{+0.040}_{-0.039}$	$H(0.61)$	95.60	$95.5^{+1.3}_{-1.1}$
A_{217}^{CIB}	45.6	47^{+20}_{-20}	D_{40}	1221.5	1227^{+35}_{-33}	$D_M(0.61)$	2288	2295^{+64}_{-66}
$\xi^{tSZ \times CIB}$	0.73	—	D_{220}	5716	5718^{+110}_{-110}	$H(2.33)$	234.79	$235.1^{+3.8}_{-3.8}$
A_{143}^{tSZ}	6.9	—	D_{810}	2532.4	2531^{+36}_{-38}	$D_M(2.33)$	5752	5758^{+51}_{-58}
A_{100}^{PS}	246	260^{+70}_{-70}	D_{1420}	816.7	815^{+13}_{-14}	$f\sigma_8(0.15)$	0.4582	$0.459^{+0.022}_{-0.022}$
A_{143}^{PS}	51.3	47^{+20}_{-20}	D_{2000}	231.3	$230.5^{+5.1}_{-5.2}$	$\sigma_8(0.15)$	0.7656	$0.762^{+0.033}_{-0.032}$
$A_{143 \times 217}^{PS}$	54.7	42^{+20}_{-20}	$n_{s,0.002}$	0.9733	$0.970^{+0.020}_{-0.019}$	$f\sigma_8(0.38)$	0.4797	$0.479^{+0.016}_{-0.017}$
A_{217}^{PS}	122.1	115^{+30}_{-30}	Y_P	0.245408	$0.24537^{+0.00030}_{-0.00031}$	$\sigma_8(0.38)$	0.6800	$0.677^{+0.032}_{-0.031}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246735	$0.24670^{+0.00030}_{-0.00031}$	$f\sigma_8(0.51)$	0.4798	$0.479^{+0.015}_{-0.016}$
A_{100}^{dustTT}	8.87	$9.0^{+4.7}_{-4.7}$	$10^5 D/H$	2.579	$2.60^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	0.6369	$0.634^{+0.032}_{-0.031}$
A_{143}^{dustTT}	10.79	$10.7^{+4.7}_{-4.6}$	Age/Gyr	13.774	$13.79^{+0.11}_{-0.13}$	$f\sigma_8(0.61)$	0.4757	$0.475^{+0.015}_{-0.016}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.3^{+8.5}_{-8.5}$	z_*	1089.63	$1089.8^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.6064	$0.603^{+0.031}_{-0.030}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	r_*	145.13	$145.0^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.3063	$0.304^{+0.017}_{-0.016}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04136	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.3163	$0.314^{+0.019}_{-0.018}$
c_{217}	0.99822	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.936	$13.93^{+0.13}_{-0.13}$	f_{2000}^{143}	28.3	30^{+8}_{-8}
H_0	68.45	$68.2^{+3.1}_{-2.9}$	z_{drag}	1059.82	$1059.7^{+1.4}_{-1.3}$	$f_{2000}^{143 \times 217}$	31.7	32^{+6}_{-6}
Ω_Λ	0.7006	$0.697^{+0.038}_{-0.041}$	r_{drag}	147.79	$147.7^{+1.4}_{-1.3}$	f_{2000}^{217}	106.1	$107.1^{+5.4}_{-5.5}$
Ω_m	0.2994	$0.303^{+0.041}_{-0.038}$	k_D	0.14015	$0.1402^{+0.0013}_{-0.0014}$	$\chi_{lensing}^2$	9.11	9.8 ($\nu: 1.3$)
$\Omega_m h^2$	0.1403	$0.1408^{+0.0061}_{-0.0061}$	$100\theta_D$	0.16084	$0.16093^{+0.00075}_{-0.00073}$	χ_{lowl}^2	22.92	23.5 ($\nu: 0.5$)
$\Omega_m h^3$	0.09602	$0.0959^{+0.0012}_{-0.0012}$	z_{eq}	3337	3349^{+150}_{-140}	χ_{plik}^2	757.8	770.5 ($\nu: 15.4$)
σ_8	0.8271	$0.824^{+0.033}_{-0.032}$	k_{eq}	0.010184	$0.01022^{+0.00044}_{-0.00044}$	χ_{prior}^2	1.2	7.4 ($\nu: 6.9$)
S_8	0.8262	$0.828^{+0.045}_{-0.044}$	$100\theta_{eq}$	0.8255	$0.823^{+0.029}_{-0.028}$	χ_{CMB}^2	789.8	803.7 ($\nu: 15.1$)
$\sigma_8 \Omega_m^{0.5}$	0.4526	$0.454^{+0.024}_{-0.024}$	$100\theta_{s,eq}$	0.4557	$0.455^{+0.015}_{-0.014}$			

Best-fit $\chi_{eff}^2 = 791.01$; $\bar{\chi}_{eff}^2 = 811.06$; $R - 1 = 0.00623$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.11 commander_dx12_v3_2_29: 22.92 plik_rd12_HM_v22_TT: 757.77

2.70 base_plikHM_TT_lowl_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02234	$0.02230^{+0.00053}_{-0.00052}$	$\sigma_8/h^{0.5}$	0.9986	$0.998^{+0.031}_{-0.033}$	$H(0.38)$	83.27	$83.2^{+1.0}_{-0.99}$
$\Omega_c h^2$	0.11798	$0.1180^{+0.0033}_{-0.0033}$	$r_{\text{drag}} h$	100.56	$100.5^{+2.7}_{-2.6}$	$D_M(0.38)$	1521.3	1522^{+26}_{-26}
$100\theta_{\text{MC}}$	1.04110	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.468	$2.468^{+0.073}_{-0.078}$	$H(0.51)$	89.91	$89.87^{+0.85}_{-0.81}$
τ	0.0794	$0.078^{+0.042}_{-0.042}$	z_{re}	10.05	$9.9^{+3.4}_{-4.2}$	$D_M(0.51)$	1971.9	1973^{+31}_{-31}
$\ln(10^{10} A_s)$	3.088	$3.085^{+0.077}_{-0.078}$	$10^9 A_s$	2.193	$2.19^{+0.17}_{-0.16}$	$H(0.61)$	95.46	$95.43^{+0.73}_{-0.70}$
n_s	0.9705	$0.969^{+0.012}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8710	$1.872^{+0.030}_{-0.031}$	$D_M(0.61)$	2295.6	2297^{+34}_{-34}
y_{cal}	0.9999	$1.0002^{+0.0064}_{-0.0066}$	D_{40}	1224.4	1227^{+31}_{-31}	$H(2.33)$	235.21	$235.2^{+2.0}_{-2.1}$
A_{217}^{CIB}	47.7	47^{+20}_{-20}	D_{220}	5714	5718^{+110}_{-110}	$D_M(2.33)$	5757.9	5760^{+35}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.39	—	D_{810}	2531.6	2531^{+35}_{-38}	$f\sigma_8(0.15)$	0.4596	$0.459^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.1	—	D_{1420}	815.5	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7623	$0.761^{+0.027}_{-0.027}$
A_{100}^{PS}	251	260^{+70}_{-70}	D_{2000}	230.70	$230.4^{+4.5}_{-4.7}$	$f\sigma_8(0.38)$	0.4800	$0.480^{+0.015}_{-0.016}$
A_{143}^{PS}	48.0	47^{+20}_{-20}	$n_{\text{s},0.002}$	0.9705	$0.969^{+0.012}_{-0.012}$	$\sigma_8(0.38)$	0.6766	$0.676^{+0.025}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	47.2	43^{+20}_{-20}	Y_{P}	0.245382	$0.24536^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	0.4795	$0.479^{+0.015}_{-0.016}$
A_{217}^{PS}	119.1	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246709	$0.24669^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6335	$0.633^{+0.024}_{-0.024}$
A^{kSZ}	0.0	—	$10^5 \text{D}/\text{H}$	2.592	$2.60^{+0.10}_{-0.095}$	$f\sigma_8(0.61)$	0.4750	$0.475^{+0.015}_{-0.016}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.7}$	Age/Gyr	13.787	$13.791^{+0.079}_{-0.080}$	$\sigma_8(0.61)$	0.6030	$0.602^{+0.023}_{-0.023}$
A_{143}^{dustTT}	10.80	$10.7^{+4.8}_{-4.5}$	z_*	1089.79	$1089.84^{+0.83}_{-0.81}$	$f\sigma_8(2.33)$	0.3044	$0.304^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.2^{+8.4}_{-8.3}$	r_*	144.98	$144.99^{+0.85}_{-0.79}$	$\sigma_8(2.33)$	0.3141	$0.314^{+0.013}_{-0.013}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$100\theta_*$	1.04129	$1.0413^{+0.0011}_{-0.0011}$	f_{2000}^{143}	29.2	30^{+8}_{-7}
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.923	$13.924^{+0.082}_{-0.077}$	$f_{2000}^{143 \times 217}$	32.3	33^{+5}_{-5}
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.70	$1059.6^{+1.1}_{-1.2}$	f_{2000}^{217}	106.7	$107.2^{+5.0}_{-5.0}$
H_0	68.10	$68.0^{+1.6}_{-1.5}$	r_{drag}	147.67	$147.69^{+0.91}_{-0.84}$	χ_{lensing}^2	9.05	$9.8 (\nu: 1.2)$
Ω_Λ	0.6961	$0.695^{+0.019}_{-0.020}$	k_{D}	0.14024	$0.1402^{+0.0011}_{-0.0011}$	χ_{lowl}^2	23.17	$23.42 (\nu: 0.4)$
Ω_{m}	0.3039	$0.305^{+0.020}_{-0.019}$	$100\theta_{\text{D}}$	0.16089	$0.16094^{+0.00070}_{-0.00063}$	χ_{plik}^2	757.5	$769.8 (\nu: 14.2)$
$\Omega_{\text{m}} h^2$	0.14096	$0.1410^{+0.0032}_{-0.0032}$	z_{eq}	3353	3354^{+76}_{-76}	$\chi_{6\text{DF}}^2$	0.000	$0.043 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09600	$0.0959^{+0.0012}_{-0.0012}$	k_{eq}	0.010234	$0.01024^{+0.00023}_{-0.00023}$	χ_{MGS}^2	1.75	$1.78 (\nu: 0.2)$
σ_8	0.8241	$0.823^{+0.028}_{-0.029}$	$100\theta_{\text{eq}}$	0.8222	$0.822^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	3.43	$4.1 (\nu: 0.6)$
S_8	0.8295	$0.829^{+0.031}_{-0.032}$	$100\theta_{\text{s,eq}}$	0.4541	$0.4540^{+0.0075}_{-0.0073}$	χ_{prior}^2	1.4	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4543	$0.454^{+0.017}_{-0.018}$	$H(0.15)$	73.30	$73.2^{+1.4}_{-1.3}$	χ_{CMB}^2	789.7	$803.0 (\nu: 13.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6119	$0.611^{+0.019}_{-0.021}$	$D_M(0.15)$	637.1	638^{+13}_{-13}	χ_{BAO}^2	5.18	$6.0 (\nu: 0.6)$

Best-fit $\chi_{\text{eff}}^2 = 796.25$; $\bar{\chi}_{\text{eff}}^2 = 816.31$; $R - 1 = 0.00781$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.05 commander_dx12_v3.2_29: 23.17 plik_rd12_HM_v22_TT: 757.49

2.71 base_plikHM_TT_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00071}_{-0.00062}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.020}_{-0.021}$	$H(0.15)$	$73.5^{+2.6}_{-2.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0056}_{-0.0062}$	$\sigma_8/h^{0.5}$	$0.999^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	636^{+21}_{-24}
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0013}_{-0.0012}$	$r_{\mathrm{drag}}h$	$100.9^{+5.2}_{-4.3}$	$H(0.38)$	$83.4^{+2.0}_{-1.5}$
τ	$0.084^{+0.057}_{-0.044}$	$\langle d^2 \rangle^{1/2}$	$2.471^{+0.073}_{-0.075}$	$D_{\mathrm{M}}(0.38)$	1518^{+43}_{-50}
$\ln(10^{10}A_{\mathrm{s}})$	$3.09^{+0.10}_{-0.081}$	z_{re}	< 14.5	$H(0.51)$	$90.0^{+1.6}_{-1.2}$
n_{s}	$0.971^{+0.019}_{-0.016}$	$10^9 A_{\mathrm{s}}$	$2.21^{+0.23}_{-0.18}$	$D_{\mathrm{M}}(0.51)$	1968^{+50}_{-59}
y_{cal}	$1.0002^{+0.0064}_{-0.0065}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.869^{+0.036}_{-0.038}$	$H(0.61)$	$95.5^{+1.3}_{-0.98}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{40}	1226^{+33}_{-32}	$D_{\mathrm{M}}(0.61)$	2292^{+54}_{-63}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5718^{+110}_{-110}	$H(2.33)$	$234.9^{+3.3}_{-3.7}$
A_{143}^{tSZ}	—	D_{810}	2530^{+36}_{-38}	$D_{\mathrm{M}}(2.33)$	5755^{+46}_{-57}
A_{100}^{PS}	259^{+70}_{-70}	D_{1420}	815^{+13}_{-14}	$f\sigma_8(0.15)$	$0.459^{+0.021}_{-0.022}$
A_{143}^{PS}	46^{+20}_{-20}	D_{2000}	$230.6^{+5.0}_{-5.0}$	$\sigma_8(0.15)$	$0.764^{+0.032}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.971^{+0.019}_{-0.016}$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24538^{+0.00030}_{-0.00028}$	$\sigma_8(0.38)$	$0.678^{+0.030}_{-0.024}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00030}_{-0.00028}$	$f\sigma_8(0.51)$	$0.479^{+0.015}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.12}_{-0.13}$	$\sigma_8(0.51)$	$0.635^{+0.029}_{-0.024}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.78^{+0.10}_{-0.12}$	$f\sigma_8(0.61)$	$0.475^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.5}$	z_*	$1089.7^{+1.1}_{-1.3}$	$\sigma_8(0.61)$	$0.605^{+0.028}_{-0.023}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	r_*	$145.1^{+1.4}_{-1.2}$	$f\sigma_8(2.33)$	$0.305^{+0.016}_{-0.012}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0413^{+0.0013}_{-0.0012}$	$\sigma_8(2.33)$	$0.315^{+0.018}_{-0.014}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.13}_{-0.11}$	f_{2000}^{143}	30^{+8}_{-8}
H_0	$68.3^{+3.0}_{-2.5}$	z_{drag}	$1059.7^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
Ω_{Λ}	$0.698^{+0.036}_{-0.035}$	r_{drag}	$147.8^{+1.3}_{-1.2}$	f_{2000}^{217}	$106.9^{+5.2}_{-5.4}$
Ω_{m}	$0.302^{+0.035}_{-0.036}$	k_{D}	$0.1401^{+0.0013}_{-0.0013}$	$\chi_{\mathrm{lensing}}^2$	$9.8 (\nu: 1.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1405^{+0.0052}_{-0.0059}$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00073}_{-0.00072}$	χ_{lowl}^2	$23.40 (\nu: 0.5)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	z_{eq}	3342^{+130}_{-140}	χ_{plik}^2	$770.3 (\nu: 15.3)$
σ_8	$0.825^{+0.032}_{-0.026}$	k_{eq}	$0.01020^{+0.00038}_{-0.00043}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
S_8	$0.827^{+0.044}_{-0.043}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.028}_{-0.024}$	χ_{CMB}^2	$803.5 (\nu: 14.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.024}_{-0.024}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.014}_{-0.012}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 810.86; R - 1 = 0.00629$$

2.72 base_plikHM_TT_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02230^{+0.00052}_{-0.00052}$	$\sigma_8/h^{0.5}$	$0.998^{+0.031}_{-0.030}$	$H(0.38)$	$83.2^{+1.0}_{-0.96}$
$\Omega_c h^2$	$0.1180^{+0.0032}_{-0.0033}$	$r_{\text{drag}} h$	$100.5^{+2.6}_{-2.5}$	$D_M(0.38)$	1522^{+25}_{-26}
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.469^{+0.072}_{-0.073}$	$H(0.51)$	$89.88^{+0.85}_{-0.79}$
τ	$0.079^{+0.041}_{-0.034}$	z_{re}	$9.9^{+3.4}_{-3.3}$	$D_M(0.51)$	1973^{+30}_{-31}
$\ln(10^{10} A_s)$	$3.087^{+0.076}_{-0.064}$	$10^9 A_s$	$2.19^{+0.17}_{-0.14}$	$H(0.61)$	$95.44^{+0.73}_{-0.68}$
n_s	$0.970^{+0.012}_{-0.012}$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.030}_{-0.031}$	$D_M(0.61)$	2297^{+33}_{-34}
y_{cal}	$1.0002^{+0.0065}_{-0.0066}$	D_{40}	1227^{+31}_{-31}	$H(2.33)$	$235.2^{+2.0}_{-2.1}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5718^{+110}_{-110}	$D_M(2.33)$	5760^{+34}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2531^{+35}_{-37}	$f\sigma_8(0.15)$	$0.460^{+0.016}_{-0.017}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.762^{+0.026}_{-0.023}$
A_{100}^{PS}	260^{+70}_{-70}	D_{2000}	$230.4^{+4.5}_{-4.6}$	$f\sigma_8(0.38)$	$0.480^{+0.015}_{-0.015}$
A_{143}^{PS}	47^{+20}_{-20}	$n_{s,0.002}$	$0.970^{+0.012}_{-0.012}$	$\sigma_8(0.38)$	$0.676^{+0.025}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24537^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	$0.479^{+0.015}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.24669^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.633^{+0.024}_{-0.020}$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.60^{+0.10}_{-0.095}$	$f\sigma_8(0.61)$	$0.475^{+0.015}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Age/Gyr	$13.791^{+0.077}_{-0.079}$	$\sigma_8(0.61)$	$0.602^{+0.023}_{-0.019}$
A_{143}^{dustTT}	$10.7^{+4.8}_{-4.5}$	z_*	$1089.83^{+0.80}_{-0.81}$	$f\sigma_8(2.33)$	$0.304^{+0.012}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.2^{+8.4}_{-8.3}$	r_*	$145.00^{+0.84}_{-0.77}$	$\sigma_8(2.33)$	$0.314^{+0.013}_{-0.011}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011}$	f_{2000}^{143}	30^{+8}_{-7}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.925^{+0.082}_{-0.076}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	$1059.6^{+1.1}_{-1.2}$	f_{2000}^{217}	$107.2^{+4.9}_{-5.0}$
H_0	$68.1^{+1.6}_{-1.5}$	r_{drag}	$147.69^{+0.91}_{-0.83}$	χ_{lensing}^2	$9.8 (\nu: 1.2)$
Ω_Λ	$0.696^{+0.019}_{-0.019}$	k_{D}	$0.1402^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.43 (\nu: 0.4)$
Ω_{m}	$0.304^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	$0.16094^{+0.00069}_{-0.00063}$	χ_{plik}^2	$769.7 (\nu: 14.0)$
$\Omega_{\text{m}} h^2$	$0.1410^{+0.0030}_{-0.0031}$	z_{eq}	3353^{+73}_{-75}	$\chi_{6\text{DF}}^2$	$0.041 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0012}$	k_{eq}	$0.01023^{+0.00022}_{-0.00023}$	χ_{MGS}^2	$1.79 (\nu: 0.2)$
σ_8	$0.823^{+0.028}_{-0.025}$	$100\theta_{\text{eq}}$	$0.822^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	$4.1 (\nu: 0.5)$
S_8	$0.829^{+0.031}_{-0.032}$	$100\theta_{\text{s,eq}}$	$0.4541^{+0.0075}_{-0.0070}$	χ_{prior}^2	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.454^{+0.017}_{-0.017}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{CMB}^2	$802.9 (\nu: 13.6)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.612^{+0.019}_{-0.019}$	$D_M(0.15)$	638^{+13}_{-13}	χ_{BAO}^2	$5.9 (\nu: 0.5)$

$$\bar{\chi}_{\text{eff}}^2 = 816.23; R - 1 = 0.00814$$

2.73 base_plikHM_TTTEEE_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022525	$0.02249^{+0.00042}_{-0.00044}$	$\Omega_m h^3$	0.09639	$0.09635^{+0.00074}_{-0.00075}$	$100\theta_{\text{eq}}$	0.8208	$0.820^{+0.017}_{-0.017}$
$\Omega_c h^2$	0.11824	$0.1184^{+0.0040}_{-0.0040}$	σ_8	0.8270	$0.825^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	0.4532	$0.4528^{+0.0089}_{-0.0087}$
$100\theta_{\text{MC}}$	1.04111	$1.04108^{+0.00084}_{-0.00082}$	S_8	0.8330	$0.833^{+0.034}_{-0.032}$	$H(0.15)$	73.37	$73.3^{+1.6}_{-1.5}$
τ	0.0816	$0.079^{+0.044}_{-0.046}$	$\sigma_8 \Omega_m^{0.5}$	0.4562	$0.456^{+0.018}_{-0.017}$	$D_{\text{M}}(0.15)$	636.5	637^{+16}_{-15}
$\ln(10^{10} A_{\text{s}})$	3.094	$3.089^{+0.080}_{-0.084}$	$\sigma_8 \Omega_m^{0.25}$	0.6143	$0.613^{+0.019}_{-0.019}$	$H(0.38)$	83.37	$83.3^{+1.2}_{-1.1}$
n_{s}	0.9716	$0.970^{+0.013}_{-0.013}$	$\sigma_8/h^{0.5}$	1.0017	$0.9999^{+0.032}_{-0.031}$	$D_{\text{M}}(0.38)$	1519.8	1522^{+31}_{-31}
y_{cal}	1.0000	$1.0002^{+0.0064}_{-0.0064}$	$r_{\text{drag}} h$	100.46	$100.3^{+3.2}_{-3.1}$	$H(0.51)$	90.02	$89.96^{+0.95}_{-0.89}$
A_{217}^{CIB}	44.3	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.474	$2.474^{+0.075}_{-0.074}$	$D_{\text{M}}(0.51)$	1969.9	1972^{+36}_{-36}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.85	—	z_{re}	10.19	$9.9^{+3.6}_{-4.5}$	$H(0.61)$	95.58	$95.54^{+0.77}_{-0.71}$
A_{143}^{tSZ}	7.04	> 1.08	$10^9 A_{\text{s}}$	2.206	$2.20^{+0.18}_{-0.18}$	$D_{\text{M}}(0.61)$	2293.1	2295^{+39}_{-39}
A_{100}^{PS}	244	255^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8739	$1.874^{+0.034}_{-0.031}$	$H(2.33)$	235.57	$235.7^{+2.4}_{-2.3}$
A_{143}^{PS}	50.9	44^{+20}_{-20}	D_{40}	1225.0	1229^{+31}_{-29}	$D_{\text{M}}(2.33)$	5750.5	5753^{+32}_{-33}
$A_{143 \times 217}^{\text{PS}}$	56.3	42^{+20}_{-20}	D_{220}	5727	5731^{+100}_{-99}	$f\sigma_8(0.15)$	0.4615	$0.461^{+0.017}_{-0.016}$
A_{217}^{PS}	122.8	115^{+30}_{-30}	D_{810}	2535.5	2534^{+36}_{-35}	$\sigma_8(0.15)$	0.7649	$0.763^{+0.026}_{-0.027}$
A^{kSZ}	0.0	—	D_{1420}	818.2	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4819	$0.481^{+0.015}_{-0.015}$
A_{100}^{dustTT}	8.79	$8.9^{+4.5}_{-4.7}$	D_{2000}	231.99	$231.4^{+4.0}_{-4.0}$	$\sigma_8(0.38)$	0.6788	$0.677^{+0.025}_{-0.025}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.6}$	$n_{\text{s},0.002}$	0.9716	$0.970^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	0.4813	$0.480^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.6^{+8.5}_{-8.3}$	Y_{P}	0.245453	$0.24544^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	0.6356	$0.634^{+0.024}_{-0.024}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246780	$0.24677^{+0.00017}_{-0.00018}$	$f\sigma_8(0.61)$	0.4768	$0.476^{+0.015}_{-0.015}$
A_{100}^{dustTE}	0.113	$0.114^{+0.097}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.558	$2.564^{+0.081}_{-0.076}$	$\sigma_8(0.61)$	0.6050	$0.603^{+0.023}_{-0.024}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.074}_{-0.075}$	Age/Gyr	13.769	$13.774^{+0.071}_{-0.072}$	$f\sigma_8(2.33)$	0.3053	$0.304^{+0.012}_{-0.012}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.57	$1089.63^{+0.83}_{-0.79}$	$\sigma_8(2.33)$	0.3151	$0.314^{+0.014}_{-0.014}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	r_*	144.77	$144.74^{+0.86}_{-0.87}$	f_{2000}^{143}	27.3	28^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04127	$1.04125^{+0.00082}_{-0.00081}$	$f_{2000}^{143 \times 217}$	30.9	31^{+5}_{-5}
A_{217}^{dustTE}	2.07	$2.07^{+0.68}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.903	$13.901^{+0.078}_{-0.081}$	f_{2000}^{217}	105.43	$106.2^{+4.9}_{-4.8}$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.16	$1060.11^{+0.82}_{-0.82}$	χ_{lensing}^2	9.66	$10.1 (\nu: 1.8)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.39	$147.37^{+0.82}_{-0.82}$	χ_{lowl}^2	23.14	$23.54 (\nu: 0.4)$
H_0	68.16	$68.1^{+1.9}_{-1.8}$	k_{D}	0.14067	$0.14066^{+0.00084}_{-0.00082}$	χ_{plik}^2	2342.0	$2357.3 (\nu: 18.1)$
Ω_{Λ}	0.6956	$0.694^{+0.024}_{-0.025}$	$100\theta_{\text{D}}$	0.160631	$0.16067^{+0.00048}_{-0.00046}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.3)$
Ω_{m}	0.3044	$0.306^{+0.025}_{-0.024}$	z_{eq}	3364	3368^{+90}_{-87}	χ_{CMB}^2	2374.8	$2391.0 (\nu: 17.1)$
$\Omega_{\text{m}} h^2$	0.14141	$0.1416^{+0.0038}_{-0.0037}$	k_{eq}	0.010267	$0.01028^{+0.00027}_{-0.00027}$			

Best-fit $\chi_{\text{eff}}^2 = 2376.35$; $\bar{\chi}_{\text{eff}}^2 = 2402.48$; $R - 1 = 0.01194$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.66 commander_dx12_v3_2_29: 23.14 plik_rd12_HM_v22b_TTTEEE: 2342.04

2.74 base_plikHM_TTTEEE_lowl_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022524	$0.02250^{+0.00037}_{-0.00036}$	σ_8	0.8263	$0.825^{+0.026}_{-0.028}$	$H(0.15)$	73.37	$73.3^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11825	$0.1183^{+0.0028}_{-0.0027}$	S_8	0.8324	$0.832^{+0.030}_{-0.029}$	$D_M(0.15)$	636.6	637^{+11}_{-10}
$100\theta_{MC}$	1.04110	$1.04109^{+0.00077}_{-0.00078}$	$\sigma_8 \Omega_m^{0.5}$	0.4559	$0.456^{+0.017}_{-0.016}$	$H(0.38)$	83.36	$83.33^{+0.80}_{-0.81}$
τ	0.0808	$0.080^{+0.039}_{-0.041}$	$\sigma_8 \Omega_m^{0.25}$	0.6138	$0.613^{+0.019}_{-0.020}$	$D_M(0.38)$	1519.9	1521^{+22}_{-21}
$\ln(10^{10} A_s)$	3.092	$3.090^{+0.070}_{-0.076}$	$\sigma_8/h^{0.5}$	1.0009	$0.9998^{+0.031}_{-0.032}$	$H(0.51)$	90.01	$89.98^{+0.64}_{-0.64}$
n_s	0.9715	$0.970^{+0.010}_{-0.011}$	$r_{\text{drag}} h$	100.45	$100.4^{+2.2}_{-2.2}$	$D_M(0.51)$	1970.0	1971^{+25}_{-25}
y_{cal}	1.0000	$1.0002^{+0.0064}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.472	$2.474^{+0.074}_{-0.075}$	$H(0.61)$	95.58	$95.56^{+0.54}_{-0.53}$
A_{217}^{CIB}	44.7	46^{+20}_{-20}	z_{re}	10.12	$9.98^{+3.2}_{-4.0}$	$D_M(0.61)$	2293.3	2294^{+28}_{-27}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.79	—	$10^9 A_s$	2.202	$2.20^{+0.16}_{-0.16}$	$H(2.33)$	235.58	$235.6^{+1.7}_{-1.6}$
A_{143}^{tSZ}	7.06	> 1.04	$10^9 A_s e^{-2\tau}$	1.8738	$1.874^{+0.031}_{-0.028}$	$D_M(2.33)$	5750.7	5752^{+25}_{-24}
A_{100}^{PS}	245	254^{+70}_{-70}	D_{40}	1224.8	1229^{+30}_{-28}	$f\sigma_8(0.15)$	0.4612	$0.461^{+0.016}_{-0.016}$
A_{143}^{PS}	49.9	44^{+20}_{-20}	D_{220}	5727	5731^{+100}_{-96}	$\sigma_8(0.15)$	0.7643	$0.763^{+0.025}_{-0.026}$
$A_{143 \times 217}^{\text{PS}}$	54.8	42^{+20}_{-20}	D_{810}	2535.4	2534^{+37}_{-34}	$f\sigma_8(0.38)$	0.4815	$0.481^{+0.015}_{-0.016}$
A_{217}^{PS}	122.3	115^{+20}_{-30}	D_{1420}	818.1	817^{+12}_{-12}	$\sigma_8(0.38)$	0.6783	$0.677^{+0.023}_{-0.024}$
A^{kSZ}	0.0	—	D_{2000}	231.95	$231.4^{+3.7}_{-3.9}$	$f\sigma_8(0.51)$	0.4809	$0.480^{+0.015}_{-0.015}$
A_{100}^{dustTT}	8.85	$8.9^{+4.6}_{-4.6}$	$n_{s,0.002}$	0.9715	$0.970^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	0.6351	$0.634^{+0.022}_{-0.023}$
A_{143}^{dustTT}	11.07	$10.9^{+4.6}_{-4.6}$	Y_{P}	0.245453	$0.24544^{+0.00014}_{-0.00014}$	$f\sigma_8(0.61)$	0.4764	$0.476^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.3}_{-8.2}$	$Y_{\text{P}}^{\text{BBN}}$	0.246780	$0.24677^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.6045	$0.604^{+0.021}_{-0.022}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	$10^5 D/H$	2.558	$2.562^{+0.066}_{-0.066}$	$f\sigma_8(2.33)$	0.3051	$0.305^{+0.011}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.094}$	Age/Gyr	13.769	$13.772^{+0.056}_{-0.054}$	$\sigma_8(2.33)$	0.3149	$0.314^{+0.012}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.071}_{-0.077}$	z_*	1089.58	$1089.61^{+0.61}_{-0.60}$	f_{2000}^{143}	27.3	28^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	r_*	144.77	$144.77^{+0.62}_{-0.63}$	$f_{2000}^{143 \times 217}$	30.96	31^{+5}_{-5}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04127	$1.04126^{+0.00075}_{-0.00076}$	f_{2000}^{217}	105.48	$106.2^{+4.8}_{-4.8}$
$A_{143 \times 217}^{\text{dustTE}}$	0.663	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.903	$13.903^{+0.060}_{-0.060}$	χ_{lensing}^2	9.5	$10.1 (\nu: 1.7)$
A_{217}^{dustTE}	2.06	$2.06^{+0.69}_{-0.72}$	z_{drag}	1060.16	$1060.11^{+0.77}_{-0.75}$	χ_{lowl}^2	23.12	$23.49 (\nu: 0.4)$
c_{100}	0.99971	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	147.38	$147.39^{+0.63}_{-0.65}$	χ_{plik}^2	2342.2	$2356.8 (\nu: 17.7)$
c_{217}	0.99815	$0.9982^{+0.0015}_{-0.0016}$	k_{D}	0.14067	$0.14065^{+0.00075}_{-0.00072}$	$\chi_{6\text{DF}}^2$	0.000	$0.030 (\nu: 0.0)$
H_0	68.16	$68.1^{+1.3}_{-1.3}$	$100\theta_{\text{D}}$	0.160632	$0.16066^{+0.00042}_{-0.00044}$	χ_{MGS}^2	1.68	$1.70 (\nu: 0.1)$
Ω_{Λ}	0.6956	$0.695^{+0.016}_{-0.017}$	z_{eq}	3364	3365^{+63}_{-61}	χ_{DR12BAO}^2	3.52	$4.03 (\nu: 0.4)$
Ω_{m}	0.3044	$0.305^{+0.017}_{-0.016}$	k_{eq}	0.010268	$0.01027^{+0.00019}_{-0.00019}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.2)$
$\Omega_{\text{m}} h^2$	0.14142	$0.1415^{+0.0026}_{-0.0025}$	$100\theta_{\text{eq}}$	0.8207	$0.820^{+0.012}_{-0.012}$	χ_{CMB}^2	2374.8	$2390.4 (\nu: 16.5)$
$\Omega_{\text{m}} h^3$	0.09639	$0.09635^{+0.00073}_{-0.00075}$	$100\theta_{\text{s,eq}}$	0.4531	$0.4530^{+0.0061}_{-0.0061}$	χ_{BAO}^2	5.20	$5.77 (\nu: 0.3)$

Best-fit $\chi_{\text{eff}}^2 = 2381.55$; $\bar{\chi}_{\text{eff}}^2 = 2407.65$; $R - 1 = 0.01895$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.52 CMB - smicadx12_Dec5_ftl_mv2_ndclpp-p.teb_consext8: 9.54 commander_dx12_v3.2.29: 23.12 plik_rd12_HM_v22b_TTTEEE: 2342.15

2.75 base_plikHM_TTTEEE_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02250^{+0.00042}_{-0.00040}$	$\Omega_{\text{m}}h^3$	$0.09635^{+0.00074}_{-0.00074}$	$100\theta_{\text{eq}}$	$0.820^{+0.017}_{-0.016}$
$\Omega_{\text{c}}h^2$	$0.1184^{+0.0037}_{-0.0039}$	σ_8	$0.826^{+0.027}_{-0.024}$	$100\theta_{\text{s,eq}}$	$0.4529^{+0.0088}_{-0.0082}$
$100\theta_{\text{MC}}$	$1.04108^{+0.00083}_{-0.00082}$	S_8	$0.833^{+0.034}_{-0.031}$	$H(0.15)$	$73.3^{+1.6}_{-1.5}$
τ	$0.080^{+0.042}_{-0.038}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.456^{+0.018}_{-0.017}$	$D_{\text{M}}(0.15)$	637^{+15}_{-15}
$\ln(10^{10}A_{\text{s}})$	$3.090^{+0.078}_{-0.066}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.614^{+0.019}_{-0.018}$	$H(0.38)$	$83.3^{+1.2}_{-1.1}$
n_{s}	$0.970^{+0.013}_{-0.012}$	$\sigma_8/h^{0.5}$	$1.000^{+0.031}_{-0.029}$	$D_{\text{M}}(0.38)$	1521^{+29}_{-31}
y_{cal}	$1.0001^{+0.0065}_{-0.0064}$	$r_{\text{drag}}h$	$100.4^{+3.2}_{-2.9}$	$H(0.51)$	$89.98^{+0.93}_{-0.84}$
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.475^{+0.074}_{-0.069}$	$D_{\text{M}}(0.51)$	1971^{+34}_{-36}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 13.2	$H(0.61)$	$95.55^{+0.76}_{-0.68}$
A_{143}^{tSZ}	> 1.08	$10^9 A_{\text{s}}$	$2.20^{+0.17}_{-0.15}$	$D_{\text{M}}(0.61)$	2295^{+37}_{-39}
A_{100}^{PS}	255^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.874^{+0.032}_{-0.031}$	$H(2.33)$	$235.6^{+2.2}_{-2.3}$
A_{143}^{PS}	44^{+20}_{-20}	D_{40}	1229^{+31}_{-29}	$D_{\text{M}}(2.33)$	5752^{+30}_{-32}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5731^{+100}_{-99}	$f\sigma_8(0.15)$	$0.461^{+0.017}_{-0.016}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2534^{+36}_{-35}	$\sigma_8(0.15)$	$0.763^{+0.026}_{-0.023}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.38)$	$0.481^{+0.015}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.7}$	D_{2000}	$231.4^{+4.0}_{-4.1}$	$\sigma_8(0.38)$	$0.677^{+0.024}_{-0.021}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.6}$	$n_{\text{s},0.002}$	$0.970^{+0.013}_{-0.012}$	$f\sigma_8(0.51)$	$0.481^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.3}$	Y_{P}	$0.24544^{+0.00017}_{-0.00016}$	$\sigma_8(0.51)$	$0.634^{+0.024}_{-0.020}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00017}_{-0.00016}$	$f\sigma_8(0.61)$	$0.476^{+0.015}_{-0.014}$
A_{100}^{dustTE}	$0.113^{+0.097}_{-0.095}$	10^5D/H	$2.563^{+0.075}_{-0.075}$	$\sigma_8(0.61)$	$0.604^{+0.023}_{-0.019}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.074}_{-0.076}$	Age/Gyr	$13.773^{+0.068}_{-0.071}$	$f\sigma_8(2.33)$	$0.305^{+0.012}_{-0.010}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.62^{+0.77}_{-0.78}$	$\sigma_8(2.33)$	$0.314^{+0.013}_{-0.011}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$144.76^{+0.85}_{-0.81}$	f_{2000}^{143}	28^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	$1.04125^{+0.00081}_{-0.00081}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{217}^{dustTE}	$2.07^{+0.69}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.902^{+0.077}_{-0.076}$	f_{2000}^{217}	$106.2^{+4.9}_{-4.8}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.11^{+0.81}_{-0.79}$	χ_{lensing}^2	$10.1 (\nu: 1.8)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.38^{+0.82}_{-0.79}$	χ_{lowl}^2	$23.54 (\nu: 0.4)$
H_0	$68.1^{+1.8}_{-1.7}$	k_{D}	$0.14066^{+0.00082}_{-0.00081}$	χ_{plik}^2	$2357.2 (\nu: 17.9)$
Ω_{Λ}	$0.695^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	$0.16066^{+0.00045}_{-0.00045}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{m}	$0.305^{+0.023}_{-0.023}$	z_{eq}	3366^{+84}_{-87}	χ_{CMB}^2	$2390.8 (\nu: 16.8)$
$\Omega_{\text{m}}h^2$	$0.1415^{+0.0035}_{-0.0036}$	k_{eq}	$0.01027^{+0.00026}_{-0.00027}$		

$$\bar{\chi}_{\text{eff}}^2 = 2402.35; R - 1 = 0.01200$$

2.76 base_plikHM_TTTEEE_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02250^{+0.00037}_{-0.00035}$	σ_8	$0.825^{+0.026}_{-0.025}$	$H(0.15)$	$73.3^{+1.1}_{-1.1}$
$\Omega_c h^2$	$0.1183^{+0.0027}_{-0.0027}$	S_8	$0.832^{+0.030}_{-0.028}$	$D_M(0.15)$	637^{+11}_{-10}
$100\theta_{MC}$	$1.04109^{+0.00076}_{-0.00078}$	$\sigma_8 \Omega_m^{0.5}$	$0.456^{+0.016}_{-0.016}$	$H(0.38)$	$83.33^{+0.80}_{-0.79}$
τ	$0.080^{+0.038}_{-0.034}$	$\sigma_8 \Omega_m^{0.25}$	$0.613^{+0.019}_{-0.018}$	$D_M(0.38)$	1521^{+21}_{-21}
$\ln(10^{10} A_s)$	$3.090^{+0.070}_{-0.065}$	$\sigma_8/h^{0.5}$	$1.000^{+0.031}_{-0.030}$	$H(0.51)$	$89.99^{+0.64}_{-0.64}$
n_s	$0.970^{+0.010}_{-0.011}$	$r_{\text{drag}} h$	$100.4^{+2.2}_{-2.1}$	$D_M(0.51)$	1971^{+25}_{-25}
y_{cal}	$1.0001^{+0.0064}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.474^{+0.073}_{-0.071}$	$H(0.61)$	$95.56^{+0.53}_{-0.52}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	$10.0^{+3.1}_{-3.2}$	$D_M(0.61)$	2294^{+27}_{-27}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s$	$2.20^{+0.16}_{-0.14}$	$H(2.33)$	$235.6^{+1.6}_{-1.6}$
A_{143}^{tSZ}	> 1.05	$10^9 A_s e^{-2\tau}$	$1.874^{+0.030}_{-0.028}$	$D_M(2.33)$	5752^{+25}_{-24}
A_{100}^{PS}	254^{+70}_{-70}	D_{40}	1229^{+30}_{-28}	$f\sigma_8(0.15)$	$0.461^{+0.016}_{-0.015}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5731^{+100}_{-96}	$\sigma_8(0.15)$	$0.763^{+0.024}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{810}	2534^{+37}_{-34}	$f\sigma_8(0.38)$	$0.481^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.677^{+0.023}_{-0.021}$
A^{kSZ}	< 9.16	D_{2000}	$231.4^{+3.7}_{-3.9}$	$f\sigma_8(0.51)$	$0.481^{+0.015}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	$n_{s,0.002}$	$0.970^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	$0.634^{+0.022}_{-0.020}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P	$0.24544^{+0.00014}_{-0.00014}$	$f\sigma_8(0.61)$	$0.476^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.2}$	Y_P^{BBN}	$0.24677^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.604^{+0.021}_{-0.019}$
A_{217}^{dustTT}	94^{+20}_{-20}	10^5D/H	$2.562^{+0.066}_{-0.066}$	$f\sigma_8(2.33)$	$0.305^{+0.011}_{-0.0099}$
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.094}$	Age/Gyr	$13.772^{+0.056}_{-0.054}$	$\sigma_8(2.33)$	$0.314^{+0.012}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.071}_{-0.077}$	z_*	$1089.61^{+0.60}_{-0.60}$	f_{2000}^{143}	28^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	r_*	$144.77^{+0.62}_{-0.63}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04127^{+0.00075}_{-0.00076}$	f_{2000}^{217}	$106.2^{+4.8}_{-4.8}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.903^{+0.059}_{-0.060}$	χ_{lensing}^2	$10.1 (\nu: 1.8)$
A_{217}^{dustTE}	$2.06^{+0.69}_{-0.72}$	z_{drag}	$1060.12^{+0.77}_{-0.75}$	χ_{lowl}^2	$23.49 (\nu: 0.4)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$147.39^{+0.63}_{-0.65}$	χ_{plik}^2	$2356.8 (\nu: 17.6)$
c_{217}	$0.9982^{+0.0015}_{-0.0017}$	k_D	$0.14064^{+0.00075}_{-0.00072}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
H_0	$68.1^{+1.3}_{-1.2}$	$100\theta_D$	$0.16066^{+0.00042}_{-0.00044}$	χ_{MGS}^2	$1.71 (\nu: 0.1)$
Ω_Λ	$0.695^{+0.016}_{-0.017}$	z_{eq}	3365^{+61}_{-61}	χ_{DR12BAO}^2	$4.02 (\nu: 0.4)$
Ω_m	$0.305^{+0.017}_{-0.016}$	k_{eq}	$0.01027^{+0.00019}_{-0.00019}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
$\Omega_m h^2$	$0.1415^{+0.0026}_{-0.0025}$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012}$	χ_{CMB}^2	$2390.4 (\nu: 16.4)$
$\Omega_m h^3$	$0.09635^{+0.00073}_{-0.00075}$	$100\theta_{s,\text{eq}}$	$0.4531^{+0.0060}_{-0.0060}$	χ_{BAO}^2	$5.76 (\nu: 0.3)$

$$\bar{\chi}_{\text{eff}}^2 = 2407.58; R - 1 = 0.01869$$

2.77 base_plikHM_TT_lowl_reion

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02214	$0.02212^{+0.00056}_{-0.00054}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6115	$0.612^{+0.030}_{-0.030}$	$H(0.15)$	72.26	$72.3^{+2.0}_{-1.9}$
$\Omega_{\mathrm{c}} h^2$	0.1207	$0.1206^{+0.0053}_{-0.0052}$	$\sigma_8/h^{0.5}$	0.9937	$0.995^{+0.041}_{-0.041}$	$D_{\mathrm{M}}(0.15)$	647.5	647^{+20}_{-20}
$100\theta_{\mathrm{MC}}$	1.04077	$1.0408^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	98.44	$98.5^{+4.1}_{-3.9}$	$H(0.38)$	82.53	$82.5^{+1.5}_{-1.4}$
τ	0.0526	$0.055^{+0.022}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	2.453	$2.459^{+0.099}_{-0.098}$	$D_{\mathrm{M}}(0.38)$	1542.0	1542^{+39}_{-40}
$\ln(10^{10} A_{\mathrm{s}})$	3.0417	$3.046^{+0.046}_{-0.034}$	z_{re}	7.57	< 9.87	$H(0.51)$	89.33	$89.3^{+1.2}_{-1.1}$
n_{s}	0.9636	$0.963^{+0.015}_{-0.014}$	$10^9 A_{\mathrm{s}}$	2.094	$2.103^{+0.098}_{-0.072}$	$D_{\mathrm{M}}(0.51)$	1996.1	1996^{+46}_{-47}
y_{cal}	1.0004	$1.0003^{+0.0064}_{-0.0065}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8850	$1.884^{+0.035}_{-0.035}$	$H(0.61)$	95.02	$95.02^{+0.93}_{-0.85}$
A_{217}^{CIB}	48.3	48^{+20}_{-20}	D_{40}	1231.5	1234^{+40}_{-41}	$D_{\mathrm{M}}(0.61)$	2322	2321^{+49}_{-51}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.37	—	D_{220}	5711	5712^{+110}_{-100}	$H(2.33)$	236.75	$236.7^{+3.2}_{-3.2}$
A_{143}^{tSZ}	7.0	—	D_{810}	2538.0	2536^{+35}_{-36}	$D_{\mathrm{M}}(2.33)$	5776.8	5777^{+40}_{-42}
A_{100}^{PS}	253	263^{+70}_{-70}	D_{1420}	815.5	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.4640	$0.464^{+0.031}_{-0.031}$
A_{143}^{PS}	50.3	49^{+20}_{-20}	D_{2000}	229.99	$229.6^{+4.5}_{-4.6}$	$\sigma_8(0.15)$	0.7501	$0.751^{+0.021}_{-0.018}$
$A_{143 \times 217}^{\mathrm{PS}}$	48.4	44^{+20}_{-20}	$n_{\mathrm{s},0.002}$	0.9636	$0.963^{+0.015}_{-0.014}$	$f\sigma_8(0.38)$	0.4803	$0.481^{+0.024}_{-0.024}$
A_{217}^{PS}	120.1	115^{+30}_{-30}	Y_{P}	0.245302	$0.24529^{+0.00022}_{-0.00026}$	$\sigma_8(0.38)$	0.6639	$0.665^{+0.017}_{-0.014}$
A^{kSZ}	0.0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246628	$0.24662^{+0.00022}_{-0.00026}$	$f\sigma_8(0.51)$	0.4779	$0.478^{+0.021}_{-0.021}$
$A_{100}^{\mathrm{dustTT}}$	8.89	$8.9^{+4.7}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	2.629	$2.63^{+0.11}_{-0.10}$	$\sigma_8(0.51)$	0.6209	$0.622^{+0.016}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	10.84	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.828	$13.828^{+0.091}_{-0.093}$	$f\sigma_8(0.61)$	0.4721	$0.473^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	19.5	$18.3^{+8.2}_{-8.5}$	z_*	1090.27	$1090.3^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	0.5905	$0.591^{+0.015}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	94.9	93^{+20}_{-20}	r_*	144.44	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.2974	$0.2979^{+0.0076}_{-0.0051}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	$100\theta_*$	1.04097	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3062	$0.3067^{+0.0079}_{-0.0051}$
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.875	$13.88^{+0.11}_{-0.11}$	f_{2000}^{143}	30.4	31^{+8}_{-7}
H_0	66.89	$66.9^{+2.4}_{-2.2}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.2}$	$f_{2000}^{143 \times 217}$	33.3	34^{+5}_{-5}
Ω_{Λ}	0.6794	$0.680^{+0.032}_{-0.034}$	r_{drag}	147.17	$147.2^{+1.2}_{-1.2}$	f_{2000}^{217}	107.68	$108.1^{+4.8}_{-5.0}$
Ω_{m}	0.3206	$0.320^{+0.034}_{-0.032}$	k_{D}	0.14061	$0.1405^{+0.0013}_{-0.0013}$	χ_{lowl}^2	23.60	$23.9 (\nu: 0.9)$
$\Omega_{\mathrm{m}} h^2$	0.1434	$0.1433^{+0.0051}_{-0.0050}$	$100\theta_{\mathrm{D}}$	0.16103	$0.16107^{+0.00067}_{-0.00065}$	χ_{plik}^2	758.7	$771.1 (\nu: 14.8)$
$\Omega_{\mathrm{m}} h^3$	0.09594	$0.0959^{+0.0012}_{-0.0012}$	z_{eq}	3412	3410^{+120}_{-120}	χ_{prior}^2	1.7	$8.5 (\nu: 8.1)$
σ_8	0.8127	$0.814^{+0.024}_{-0.022}$	k_{eq}	0.010415	$0.01041^{+0.00037}_{-0.00036}$	χ_{CMB}^2	782.3	$795.0 (\nu: 14.4)$
S_8	0.840	$0.841^{+0.062}_{-0.060}$	$100\theta_{\mathrm{eq}}$	0.8107	$0.811^{+0.023}_{-0.022}$			
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4602	$0.461^{+0.034}_{-0.033}$	$100\theta_{\mathrm{s,eq}}$	0.4482	$0.448^{+0.012}_{-0.011}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 784.00$; $\bar{\chi}_{\mathrm{eff}}^2 = 803.49$; $R - 1 = 0.00586$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 23.60 plik_rd12_HM_v22_TT: 758.75

2.78 base_plikHM_TT_lowl_reion_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022226	$0.02222^{+0.00049}_{-0.00050}$	$\sigma_8/h^{0.5}$	0.9823	$0.984^{+0.032}_{-0.028}$	$H(0.38)$	82.96	$82.97^{+0.92}_{-0.89}$
$\Omega_c h^2$	0.11895	$0.1190^{+0.0032}_{-0.0032}$	$r_{\text{drag}} h$	99.76	$99.8^{+2.5}_{-2.4}$	$D_M(0.38)$	1529.6	1529^{+24}_{-24}
$100\theta_{\text{MC}}$	1.04096	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.427	$2.434^{+0.078}_{-0.072}$	$H(0.51)$	89.66	$89.67^{+0.76}_{-0.73}$
τ	0.0542	$0.056^{+0.024}_{-0.015}$	z_{re}	7.69	< 10.1	$D_M(0.51)$	1981.7	1981^{+28}_{-29}
$\ln(10^{10} A_s)$	3.0410	$3.045^{+0.049}_{-0.037}$	$10^9 A_s$	2.093	$2.10^{+0.10}_{-0.077}$	$H(0.61)$	95.26	$95.27^{+0.63}_{-0.62}$
n_s	0.9674	$0.967^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8776	$1.877^{+0.031}_{-0.030}$	$D_M(0.61)$	2306.1	2306^{+31}_{-31}
y_{cal}	1.0004	$1.0004^{+0.0065}_{-0.0065}$	D_{40}	1223.2	1226^{+34}_{-34}	$H(2.33)$	235.73	$235.7^{+2.0}_{-2.0}$
A_{217}^{CIB}	48.7	48^{+20}_{-20}	D_{220}	5717	5719^{+110}_{-100}	$D_M(2.33)$	5766.8	5766^{+31}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.35	—	D_{810}	2536.8	2535^{+37}_{-35}	$f\sigma_8(0.15)$	0.4545	$0.455^{+0.020}_{-0.019}$
A_{143}^{tSZ}	7.08	$5.1^{+4.5}_{-4.6}$	D_{1420}	816.3	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7465	$0.748^{+0.020}_{-0.015}$
A_{100}^{PS}	253	263^{+70}_{-70}	D_{2000}	230.27	$229.9^{+4.4}_{-4.3}$	$f\sigma_8(0.38)$	0.4731	$0.474^{+0.017}_{-0.016}$
A_{143}^{PS}	49.2	48^{+20}_{-20}	$n_{s,0.002}$	0.9674	$0.967^{+0.011}_{-0.011}$	$\sigma_8(0.38)$	0.6619	$0.663^{+0.017}_{-0.013}$
$A_{143 \times 217}^{\text{PS}}$	47.4	43^{+20}_{-20}	Y_{P}	0.245337	$0.24533^{+0.00019}_{-0.00024}$	$f\sigma_8(0.51)$	0.4719	$0.473^{+0.016}_{-0.014}$
A_{217}^{PS}	119.1	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246663	$0.24666^{+0.00019}_{-0.00024}$	$\sigma_8(0.51)$	0.6195	$0.621^{+0.016}_{-0.011}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.613	$2.614^{+0.096}_{-0.089}$	$f\sigma_8(0.61)$	0.4670	$0.468^{+0.015}_{-0.013}$
A_{100}^{dustTT}	8.92	$8.9^{+4.6}_{-4.5}$	Age/Gyr	13.806	$13.805^{+0.072}_{-0.071}$	$\sigma_8(0.61)$	0.5895	$0.591^{+0.016}_{-0.011}$
A_{143}^{dustTT}	10.78	$10.8^{+4.5}_{-4.7}$	z_*	1090.01	$1090.02^{+0.75}_{-0.73}$	$f\sigma_8(2.33)$	0.2973	$0.2978^{+0.0075}_{-0.0057}$
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.2}_{-8.6}$	r_*	144.81	$144.82^{+0.79}_{-0.81}$	$\sigma_8(2.33)$	0.3065	$0.3071^{+0.0079}_{-0.0059}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$100\theta_*$	1.04117	$1.0412^{+0.0010}_{-0.0011}$	f_{2000}^{143}	30.1	31^{+7}_{-8}
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.909	$13.908^{+0.080}_{-0.079}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	f_{2000}^{217}	107.48	$107.9^{+4.9}_{-5.0}$
H_0	67.62	$67.6^{+1.4}_{-1.4}$	r_{drag}	147.53	$147.54^{+0.87}_{-0.89}$	χ_{lowl}^2	22.83	$23.15 (\nu: 0.4)$
Ω_Λ	0.6898	$0.690^{+0.019}_{-0.019}$	k_{D}	0.14029	$0.1403^{+0.0012}_{-0.0012}$	χ_{plik}^2	760.0	$771.7 (\nu: 15.0)$
Ω_{m}	0.3102	$0.310^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	0.16100	$0.16102^{+0.00063}_{-0.00062}$	$\chi_{6\text{DF}}^2$	0.022	$0.058 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14182	$0.1418^{+0.0031}_{-0.0031}$	z_{eq}	3374	3374^{+74}_{-75}	χ_{MGS}^2	1.28	$1.36 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	0.09590	$0.0959^{+0.0012}_{-0.0011}$	k_{eq}	0.010297	$0.01030^{+0.00022}_{-0.00023}$	χ_{DR12BAO}^2	4.19	$4.8 (\nu: 1.3)$
σ_8	0.8078	$0.809^{+0.023}_{-0.018}$	$100\theta_{\text{eq}}$	0.8181	$0.818^{+0.014}_{-0.013}$	χ_{prior}^2	1.8	$8.7 (\nu: 8.3)$
S_8	0.8213	$0.823^{+0.039}_{-0.037}$	$100\theta_{s,\text{eq}}$	0.4520	$0.4520^{+0.0073}_{-0.0069}$	χ_{BAO}^2	5.50	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4499	$0.451^{+0.021}_{-0.020}$	$H(0.15)$	72.88	$72.9^{+1.2}_{-1.2}$	χ_{CMB}^2	782.9	$794.9 (\nu: 14.0)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6028	$0.604^{+0.022}_{-0.020}$	$D_M(0.15)$	641.2	641^{+12}_{-12}			

Best-fit $\chi_{\text{eff}}^2 = 790.20$; $\bar{\chi}_{\text{eff}}^2 = 809.76$; $R - 1 = 0.01181$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.19 CMB - commander_dx12_v3.2.29: 22.83 plik_rd12_HM_v22_TT: 760.03

2.79 base_plikHM_TTTEEE_lowl_reion

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022381	$0.02237^{+0.00038}_{-0.00038}$	$\Omega_m h^3$	0.09636	$0.09634^{+0.00073}_{-0.00074}$	$100\theta_{\text{eq}}$	0.8126	$0.813^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.12016	$0.1201^{+0.0036}_{-0.0034}$	σ_8	0.8138	$0.814^{+0.022}_{-0.019}$	$100\theta_{\text{s,eq}}$	0.4490	$0.4492^{+0.0075}_{-0.0076}$
$100\theta_{\text{MC}}$	1.04089	$1.04092^{+0.00079}_{-0.00085}$	S_8	0.8355	$0.835^{+0.044}_{-0.040}$	$H(0.15)$	72.63	$72.7^{+1.3}_{-1.3}$
τ	0.0561	$0.057^{+0.023}_{-0.016}$	$\sigma_8 \Omega_m^{0.5}$	0.4576	$0.457^{+0.024}_{-0.022}$	$D_{\text{M}}(0.15)$	643.9	644^{+14}_{-13}
$\ln(10^{10} A_s)$	3.0488	$3.050^{+0.051}_{-0.034}$	$\sigma_8 \Omega_m^{0.25}$	0.6102	$0.610^{+0.023}_{-0.021}$	$H(0.38)$	82.83	$82.85^{+0.98}_{-0.96}$
n_s	0.9661	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9920	$0.992^{+0.033}_{-0.030}$	$D_{\text{M}}(0.38)$	1534.4	1534^{+27}_{-26}
y_{cal}	1.0007	$1.0006^{+0.0062}_{-0.0065}$	$r_{\text{drag}} h$	98.95	$99.0^{+2.7}_{-2.7}$	$H(0.51)$	89.60	$89.61^{+0.79}_{-0.75}$
A_{217}^{CIB}	46.2	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.450	$2.454^{+0.079}_{-0.073}$	$D_{\text{M}}(0.51)$	1987.0	1987^{+32}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.61	—	z_{re}	7.86	< 10.1	$H(0.61)$	95.26	$95.27^{+0.64}_{-0.60}$
A_{143}^{tSZ}	7.10	$5.5^{+4.2}_{-4.9}$	$10^9 A_s$	2.109	$2.11^{+0.10}_{-0.077}$	$D_{\text{M}}(0.61)$	2311.5	2311^{+34}_{-33}
A_{100}^{PS}	248	258^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8852	$1.884^{+0.030}_{-0.031}$	$H(2.33)$	236.68	$236.6^{+2.1}_{-2.0}$
A_{143}^{PS}	49.9	46^{+20}_{-20}	D_{40}	1229.9	1233^{+33}_{-33}	$D_{\text{M}}(2.33)$	5763.9	5764^{+28}_{-29}
$A_{143 \times 217}^{\text{PS}}$	52.0	43^{+20}_{-20}	D_{220}	5731	5733^{+100}_{-100}	$f\sigma_8(0.15)$	0.4618	$0.462^{+0.023}_{-0.021}$
A_{217}^{PS}	121.5	115^{+30}_{-30}	D_{810}	2542.1	2539^{+34}_{-36}	$\sigma_8(0.15)$	0.7515	$0.752^{+0.020}_{-0.016}$
A^{kSZ}	0.0	—	D_{1420}	818.7	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4792	$0.479^{+0.019}_{-0.017}$
A_{100}^{dustTT}	8.81	$8.9^{+4.8}_{-4.6}$	D_{2000}	231.45	$231.0^{+4.1}_{-4.1}$	$\sigma_8(0.38)$	0.6657	$0.666^{+0.017}_{-0.013}$
A_{143}^{dustTT}	11.05	$10.9^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9661	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4772	$0.477^{+0.017}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.6^{+8.3}_{-8.8}$	Y_{P}	0.245400	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.51)$	0.6228	$0.623^{+0.016}_{-0.012}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246726	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	0.4719	$0.472^{+0.015}_{-0.014}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.583	$2.586^{+0.072}_{-0.068}$	$\sigma_8(0.61)$	0.5924	$0.593^{+0.015}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.078}_{-0.076}$	Age/Gyr	13.798	$13.798^{+0.063}_{-0.064}$	$f\sigma_8(2.33)$	0.2985	$0.2986^{+0.0077}_{-0.0053}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	z_*	1089.92	$1089.93^{+0.70}_{-0.69}$	$\sigma_8(2.33)$	0.3076	$0.3077^{+0.0081}_{-0.0055}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	r_*	144.38	$144.41^{+0.75}_{-0.77}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.667	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	1.04108	$1.04110^{+0.00078}_{-0.00084}$	$f_{2000}^{143 \times 217}$	31.93	32^{+5}_{-5}
A_{217}^{dustTE}	2.09	$2.09^{+0.68}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.868	$13.871^{+0.069}_{-0.071}$	f_{2000}^{217}	106.50	$107.0^{+4.5}_{-4.5}$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.97	$1059.94^{+0.76}_{-0.77}$	χ_{lowl}^2	23.30	$23.63 (\nu: 0.5)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.04	$147.07^{+0.74}_{-0.76}$	χ_{plik}^2	2344.4	$2359.0 (\nu: 16.4)$
H_0	67.30	$67.3^{+1.5}_{-1.6}$	k_{D}	0.14093	$0.14089^{+0.00082}_{-0.00080}$	χ_{prior}^2	2.4	$13.2 (\nu: 12.2)$
Ω_{Λ}	0.6838	$0.684^{+0.021}_{-0.023}$	$100\theta_{\text{D}}$	0.160734	$0.16076^{+0.00045}_{-0.00044}$	χ_{CMB}^2	2367.7	$2382.7 (\nu: 16.2)$
Ω_{m}	0.3162	$0.316^{+0.023}_{-0.021}$	z_{eq}	3406	3404^{+80}_{-76}			
$\Omega_{\text{m}} h^2$	0.14319	$0.1431^{+0.0033}_{-0.0032}$	k_{eq}	0.010397	$0.01039^{+0.00024}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 2370.13$; $\bar{\chi}_{\text{eff}}^2 = 2395.81$; $R - 1 = 0.00802$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 23.30 plik_rd12_HM_v22b_TTTEEE: 2344.42

2.80 base_plikHM_TTTEEE_lowl_reion_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022447	$0.02243^{+0.00034}_{-0.00034}$	σ_8	0.8123	$0.812^{+0.022}_{-0.017}$	$H(0.15)$	72.98	$73.0^{+1.0}_{-0.99}$
$\Omega_c h^2$	0.11928	$0.1193^{+0.0026}_{-0.0025}$	S_8	0.8265	$0.826^{+0.035}_{-0.032}$	$D_M(0.15)$	640.4	$640.5^{+9.9}_{-9.7}$
$100\theta_{MC}$	1.04102	$1.04102^{+0.00075}_{-0.00082}$	$\sigma_8 \Omega_m^{0.5}$	0.4527	$0.453^{+0.019}_{-0.018}$	$H(0.38)$	83.08	$83.07^{+0.75}_{-0.72}$
τ	0.0584	$0.058^{+0.024}_{-0.017}$	$\sigma_8 \Omega_m^{0.25}$	0.6064	$0.606^{+0.019}_{-0.018}$	$D_M(0.38)$	1527.5	1528^{+20}_{-20}
$\ln(10^{10} A_s)$	3.0512	$3.051^{+0.053}_{-0.037}$	$\sigma_8/h^{0.5}$	0.9872	$0.987^{+0.029}_{-0.026}$	$H(0.51)$	89.80	$89.79^{+0.61}_{-0.58}$
n_s	0.9681	$0.9669^{+0.0094}_{-0.0099}$	$r_{\text{drag}} h$	99.66	$99.7^{+2.0}_{-2.0}$	$D_M(0.51)$	1978.9	1979^{+23}_{-23}
y_{cal}	1.0005	$1.0007^{+0.0062}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.440	$2.442^{+0.071}_{-0.063}$	$H(0.61)$	95.415	$95.40^{+0.51}_{-0.47}$
A_{217}^{CIB}	46.1	47^{+20}_{-20}	z_{re}	8.07	< 10.2	$D_M(0.61)$	2302.9	2303^{+25}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.62	—	$10^9 A_s$	2.114	$2.11^{+0.11}_{-0.077}$	$H(2.33)$	236.17	$236.1^{+1.6}_{-1.5}$
A_{143}^{tSZ}	7.11	$5.5^{+4.4}_{-4.6}$	$10^9 A_s e^{-2\tau}$	1.8808	$1.880^{+0.028}_{-0.029}$	$D_M(2.33)$	5757.4	5758^{+23}_{-24}
A_{100}^{PS}	248	258^{+70}_{-70}	D_{40}	1225.8	1229^{+30}_{-30}	$f\sigma_8(0.15)$	0.4574	$0.457^{+0.018}_{-0.017}$
A_{143}^{PS}	49.5	45^{+20}_{-20}	D_{220}	5734	5737^{+99}_{-98}	$\sigma_8(0.15)$	0.7507	$0.750^{+0.020}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	52.0	42^{+20}_{-20}	D_{810}	2540.6	2539^{+34}_{-36}	$f\sigma_8(0.38)$	0.4760	$0.476^{+0.016}_{-0.014}$
A_{217}^{PS}	121.3	115^{+30}_{-30}	D_{1420}	818.9	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6655	$0.665^{+0.018}_{-0.013}$
A^{kSZ}	0.0	—	D_{2000}	231.61	$231.2^{+4.0}_{-3.9}$	$f\sigma_8(0.51)$	0.4747	$0.474^{+0.015}_{-0.013}$
A_{100}^{dustTT}	8.82	$8.9^{+4.6}_{-4.7}$	$n_{s,0.002}$	0.9681	$0.9669^{+0.0094}_{-0.0099}$	$\sigma_8(0.51)$	0.6229	$0.622^{+0.017}_{-0.012}$
A_{143}^{dustTT}	11.02	$10.9^{+4.7}_{-4.4}$	Y_P	0.245425	$0.24542^{+0.00013}_{-0.00014}$	$f\sigma_8(0.61)$	0.4698	$0.469^{+0.014}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+7.8}_{-8.8}$	Y_P^{BBN}	0.246752	$0.24674^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5927	$0.592^{+0.016}_{-0.011}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$10^5 D/H$	2.571	$2.576^{+0.064}_{-0.061}$	$f\sigma_8(2.33)$	0.2989	$0.2987^{+0.0081}_{-0.0057}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.098}$	Age/Gyr	13.784	$13.786^{+0.052}_{-0.053}$	$\sigma_8(2.33)$	0.3082	$0.3080^{+0.0085}_{-0.0058}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.079}_{-0.079}$	z_*	1089.76	$1089.79^{+0.57}_{-0.55}$	f_{2000}^{143}	28.3	29^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.23}_{-0.22}$	r_*	144.56	$144.58^{+0.58}_{-0.59}$	$f_{2000}^{143 \times 217}$	31.72	32^{+5}_{-4}
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.15}$	$100\theta_*$	1.04120	$1.04120^{+0.00074}_{-0.00079}$	f_{2000}^{217}	106.27	$106.8^{+4.5}_{-4.5}$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	13.884	$13.886^{+0.055}_{-0.057}$	χ_{lowl}^2	22.97	$23.23 (\nu: 0.4)$
A_{217}^{dustTE}	2.08	$2.07^{+0.67}_{-0.65}$	z_{drag}	1060.05	$1060.01^{+0.72}_{-0.73}$	χ_{plik}^2	2344.8	$2359.2 (\nu: 16.2)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.20	$147.22^{+0.61}_{-0.61}$	$\chi_{6\text{DF}}^2$	0.029	$0.054 (\nu: 0.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	k_D	0.14081	$0.14077^{+0.00075}_{-0.00074}$	χ_{MGS}^2	1.22	$1.28 (\nu: 0.1)$
H_0	67.70	$67.7^{+1.2}_{-1.2}$	$100\theta_D$	0.160692	$0.16072^{+0.00043}_{-0.00042}$	χ_{DR12BAO}^2	4.42	$4.8 (\nu: 1.0)$
Ω_Λ	0.6894	$0.689^{+0.015}_{-0.016}$	z_{eq}	3387	3386^{+58}_{-57}	χ_{prior}^2	2.8	$13.5 (\nu: 12.8)$
Ω_m	0.3106	$0.311^{+0.016}_{-0.015}$	k_{eq}	0.010337	$0.01033^{+0.00018}_{-0.00017}$	χ_{BAO}^2	5.66	$6.1 (\nu: 0.6)$
$\Omega_m h^2$	0.14237	$0.1423^{+0.0024}_{-0.0024}$	$100\theta_{\text{eq}}$	0.8163	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	2367.8	$2382.4 (\nu: 15.4)$
$\Omega_m h^3$	0.09639	$0.09635^{+0.00073}_{-0.00072}$	$100\theta_{s,\text{eq}}$	0.4509	$0.4510^{+0.0055}_{-0.0056}$			

Best-fit $\chi_{\text{eff}}^2 = 2376.23$; $\bar{\chi}_{\text{eff}}^2 = 2402.05$; $R - 1 = 0.01766$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.42 CMB - commander_dx12_v3.2.29: 22.97 plik_rd12_HM_v22b_TTTEEE: 2344.84

2.81 base_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02214^{+0.00053}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6085	$0.609^{+0.019}_{-0.020}$	$H(0.15)$	72.46	$72.4^{+1.6}_{-1.5}$
$\Omega_c h^2$	0.12010	$0.1202^{+0.0040}_{-0.0040}$	$\sigma_8/h^{0.5}$	0.9896	$0.990^{+0.027}_{-0.027}$	$D_M(0.15)$	645.5	646^{+16}_{-16}
$100\theta_{MC}$	1.04083	$1.0408^{+0.0012}_{-0.0011}$	$r_{drag}h$	98.86	$98.8^{+3.2}_{-3.1}$	$H(0.38)$	82.67	$82.6^{+1.2}_{-1.1}$
τ	0.0527	$0.052^{+0.021}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.443	$2.447^{+0.062}_{-0.065}$	$D_M(0.38)$	1538.0	1539^{+31}_{-32}
$\ln(10^{10} A_s)$	3.0404	$3.040^{+0.040}_{-0.040}$	z_{re}	7.55	$7.5^{+2.0}_{-2.3}$	$H(0.51)$	89.44	$89.40^{+0.96}_{-0.90}$
n_s	0.9653	$0.963^{+0.013}_{-0.012}$	$10^9 A_s$	2.091	$2.091^{+0.086}_{-0.081}$	$D_M(0.51)$	1991.4	1993^{+37}_{-38}
y_{cal}	1.0003	$1.0005^{+0.0063}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8823	$1.882^{+0.028}_{-0.028}$	$H(0.61)$	95.10	$95.06^{+0.79}_{-0.74}$
A_{217}^{CIB}	47.9	48^{+20}_{-20}	D_{40}	1227.4	1232^{+32}_{-31}	$D_M(0.61)$	2316.6	2318^{+40}_{-41}
$\xi^{tSZ \times CIB}$	0.44	—	D_{220}	5710	5716^{+100}_{-100}	$H(2.33)$	236.43	$236.4^{+2.4}_{-2.4}$
A_{143}^{tSZ}	6.9	—	D_{810}	2537.7	2536^{+33}_{-34}	$D_M(2.33)$	5773.5	5775^{+36}_{-37}
A_{100}^{PS}	254	264^{+70}_{-70}	D_{1420}	816.0	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4608	$0.461^{+0.021}_{-0.021}$
A_{143}^{PS}	51.1	49^{+20}_{-20}	D_{2000}	230.18	$229.6^{+4.7}_{-4.7}$	$\sigma_8(0.15)$	0.7486	$0.748^{+0.015}_{-0.014}$
$A_{143 \times 217}^{PS}$	49.9	43^{+20}_{-20}	$n_{s,0.002}$	0.9653	$0.963^{+0.013}_{-0.012}$	$f\sigma_8(0.38)$	0.4778	$0.478^{+0.016}_{-0.016}$
A_{217}^{PS}	120.7	115^{+30}_{-30}	Y_P	0.245315	$0.24530^{+0.00021}_{-0.00024}$	$\sigma_8(0.38)$	0.6630	$0.663^{+0.013}_{-0.013}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246641	$0.24662^{+0.00021}_{-0.00025}$	$f\sigma_8(0.51)$	0.4757	$0.476^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.6}$	$10^5 D/H$	2.623	$2.630^{+0.099}_{-0.098}$	$\sigma_8(0.51)$	0.6202	$0.620^{+0.012}_{-0.012}$
A_{143}^{dustTT}	10.80	$10.7^{+4.6}_{-4.7}$	Age/Gyr	13.821	$13.825^{+0.081}_{-0.083}$	$f\sigma_8(0.61)$	0.4703	$0.470^{+0.012}_{-0.012}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.6}_{-8.6}$	z_*	1090.18	$1090.23^{+0.89}_{-0.88}$	$\sigma_8(0.61)$	0.5900	$0.590^{+0.012}_{-0.011}$
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	r_*	144.55	$144.56^{+0.95}_{-0.94}$	$f\sigma_8(2.33)$	0.2972	$0.2970^{+0.0063}_{-0.0061}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04103	$1.0410^{+0.0012}_{-0.0011}$	$\sigma_8(2.33)$	0.3062	$0.3059^{+0.0069}_{-0.0068}$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.886^{+0.089}_{-0.087}$	f_{2000}^{143}	30.2	31^{+8}_{-8}
H_0	67.12	$67.1^{+1.9}_{-1.8}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.1}$	$f_{2000}^{143 \times 217}$	33.1	34^{+5}_{-5}
Ω_Λ	0.6828	$0.682^{+0.025}_{-0.026}$	r_{drag}	147.28	$147.30^{+0.98}_{-0.97}$	f_{2000}^{217}	107.51	$108.2^{+4.8}_{-5.0}$
Ω_m	0.3172	$0.318^{+0.026}_{-0.025}$	k_D	0.14051	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{lensing}^2$	8.90	$9.45 (\nu: 0.4)$
$\Omega_m h^2$	0.14292	$0.1430^{+0.0038}_{-0.0038}$	$100\theta_D$	0.16101	$0.16106^{+0.00065}_{-0.00066}$	χ_{small}^2	395.86	$396.9 (\nu: 1.3)$
$\Omega_m h^3$	0.09594	$0.0959^{+0.0012}_{-0.0011}$	z_{eq}	3400	3401^{+90}_{-91}	χ_{lowl}^2	23.23	$23.7 (\nu: 0.5)$
σ_8	0.8108	$0.810^{+0.016}_{-0.016}$	k_{eq}	0.010377	$0.01038^{+0.00028}_{-0.00028}$	χ_{plik}^2	759.3	$771.1 (\nu: 13.6)$
S_8	0.8337	$0.834^{+0.041}_{-0.041}$	$100\theta_{eq}$	0.8131	$0.813^{+0.018}_{-0.017}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_m^{0.5}$	0.4566	$0.457^{+0.023}_{-0.023}$	$100\theta_{s,eq}$	0.4494	$0.4493^{+0.0090}_{-0.0087}$	χ_{CMB}^2	1187.3	$1201.1 (\nu: 14.9)$

Best-fit $\chi_{eff}^2 = 1188.57$; $\bar{\chi}_{eff}^2 = 1208.41$; $R - 1 = 0.00560$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.90 small_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2_29: 23.23 plik_rd12_HM_v22_TT: 759.32

2.82 base_plikHM_TT_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022224	$0.02221^{+0.00049}_{-0.00047}$	$r_{\text{drag}} h$	99.65	$99.6^{+2.3}_{-2.1}$	$H(0.51)$	89.63	$89.63^{+0.72}_{-0.68}$
$\Omega_c h^2$	0.11909	$0.1191^{+0.0028}_{-0.0029}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.436^{+0.055}_{-0.056}$	$D_M(0.51)$	1982.8	1983^{+26}_{-27}
$100\theta_{\text{MC}}$	1.04093	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	7.71	$7.8^{+1.8}_{-2.0}$	$H(0.61)$	95.24	$95.24^{+0.64}_{-0.59}$
τ	0.0544	$0.055^{+0.019}_{-0.019}$	$10^9 A_s$	2.095	$2.099^{+0.084}_{-0.075}$	$D_M(0.61)$	2307.4	2308^{+28}_{-29}
$\ln(10^{10} A_s)$	3.0421	$3.044^{+0.039}_{-0.036}$	$10^9 A_s e^{-2\tau}$	1.8788	$1.879^{+0.027}_{-0.026}$	$H(2.33)$	235.81	$235.8^{+1.8}_{-1.8}$
n_s	0.9669	$0.966^{+0.011}_{-0.010}$	D_{40}	1225.0	1228^{+32}_{-29}	$D_M(2.33)$	5767.6	5768^{+30}_{-30}
y_{cal}	1.0005	$1.0007^{+0.0067}_{-0.0063}$	D_{220}	5720	5724^{+99}_{-96}	$f\sigma_8(0.15)$	0.4555	$0.456^{+0.015}_{-0.016}$
A_{217}^{CIB}	48.5	48^{+20}_{-20}	D_{810}	2537.5	2537^{+35}_{-34}	$\sigma_8(0.15)$	0.7471	$0.748^{+0.015}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.33	—	D_{1420}	816.4	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4739	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.29	$230.0^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	0.6623	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	253	263^{+70}_{-70}	$n_{\text{s},0.002}$	0.9669	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4726	$0.473^{+0.012}_{-0.012}$
A_{143}^{PS}	49.0	49^{+20}_{-20}	Y_{P}	0.245336	$0.24533^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	46.8	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246662	$0.24665^{+0.00019}_{-0.00022}$	$f\sigma_8(0.61)$	0.4676	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	119.3	115^{+30}_{-30}	$10^5 D/H$	2.613	$2.617^{+0.091}_{-0.090}$	$\sigma_8(0.61)$	0.5898	$0.590^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.808	$13.809^{+0.069}_{-0.067}$	$f\sigma_8(2.33)$	0.2974	$0.2976^{+0.0060}_{-0.0056}$
A_{100}^{dustTT}	8.84	$8.9^{+4.7}_{-4.7}$	z_*	1090.03	$1090.05^{+0.71}_{-0.71}$	$\sigma_8(2.33)$	0.3066	$0.3068^{+0.0063}_{-0.0061}$
A_{143}^{dustTT}	10.77	$10.7^{+4.5}_{-4.6}$	r_*	144.78	$144.78^{+0.75}_{-0.73}$	f_{2000}^{143}	30.1	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.9}_{-8.6}$	$100\theta_*$	1.04113	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.906	$13.906^{+0.072}_{-0.071}$	f_{2000}^{217}	107.49	$107.9^{+4.7}_{-5.0}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	χ_{lensing}^2	8.87	$9.26 (\nu: 0.2)$
c_{217}	0.99822	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.50	$147.50^{+0.82}_{-0.79}$	χ_{small}^2	396.09	$397.1 (\nu: 1.7)$
H_0	67.56	$67.5^{+1.3}_{-1.2}$	k_{D}	0.14033	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	22.96	$23.24 (\nu: 0.4)$
Ω_Λ	0.6890	$0.689^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	0.16099	$0.16102^{+0.00065}_{-0.00068}$	χ_{plik}^2	759.8	$771.6 (\nu: 13.7)$
Ω_{m}	0.3110	$0.311^{+0.017}_{-0.017}$	z_{eq}	3377	3378^{+64}_{-66}	$\chi_{6\text{DF}}^2$	0.029	$0.060 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14196	$0.1420^{+0.0027}_{-0.0028}$	k_{eq}	0.010307	$0.01031^{+0.00020}_{-0.00020}$	χ_{MGS}^2	1.22	$1.27 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	0.09590	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8174	$0.817^{+0.012}_{-0.012}$	χ_{DR12BAO}^2	4.37	$4.9 (\nu: 1.2)$
σ_8	0.8085	$0.809^{+0.016}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4517	$0.4516^{+0.0063}_{-0.0060}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.6)$
S_8	0.8232	$0.824^{+0.030}_{-0.030}$	$H(0.15)$	72.83	$72.8^{+1.2}_{-1.1}$	χ_{CMB}^2	1187.7	$1201.2 (\nu: 14.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4509	$0.451^{+0.017}_{-0.017}$	$D_M(0.15)$	641.7	642^{+11}_{-11}	χ_{BAO}^2	5.62	$6.2 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6038	$0.604^{+0.016}_{-0.016}$	$H(0.38)$	82.93	$82.92^{+0.89}_{-0.81}$			
$\sigma_8/h^{0.5}$	0.9836	$0.985^{+0.023}_{-0.024}$	$D_M(0.38)$	1530.6	1531^{+22}_{-23}			

Best-fit $\chi_{\text{eff}}^2 = 1194.68$; $\bar{\chi}_{\text{eff}}^2 = 1214.73$; $R - 1 = 0.01723$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.37 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.88 small_100x143_offlike5_EE_Aplanck_B: 396.09 commander_dx12.v3.2.29: 22.96 plik_rd12_HM.v22_TT: 759.80

2.83 base_plikHM_TT_lowl_lowE_lensing_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022349	$0.02232^{+0.00049}_{-0.00050}$	$\sigma_8/h^{0.5}$	0.9794	$0.980^{+0.026}_{-0.023}$	$H(0.38)$	83.24	$83.2^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11826	$0.1181^{+0.0037}_{-0.0035}$	$r_{\text{drag}} h$	100.39	$100.5^{+2.9}_{-2.9}$	$D_M(0.38)$	1522.4	1522^{+29}_{-28}
$100\theta_{\text{MC}}$	1.04115	$1.0412^{+0.0010}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.422	$2.425^{+0.061}_{-0.060}$	$H(0.51)$	89.89	$89.89^{+0.86}_{-0.87}$
τ	0.0572	$0.058^{+0.019}_{-0.021}$	z_{re}	7.95	$8.0^{+1.8}_{-2.1}$	$D_M(0.51)$	1973.2	1973^{+34}_{-33}
$\ln(10^{10} A_s)$	3.0466	$3.048^{+0.039}_{-0.039}$	$10^9 A_s$	2.104	$2.109^{+0.084}_{-0.082}$	$H(0.61)$	95.46	$95.45^{+0.69}_{-0.72}$
n_s	0.9692	$0.969^{+0.014}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8770	$1.876^{+0.029}_{-0.025}$	$D_M(0.61)$	2296.9	2297^{+37}_{-36}
y_{cal}	1.0007	$1.0010^{+0.0064}_{-0.0062}$	D_{40}	1222.6	1225^{+34}_{-33}	$H(2.33)$	235.41	$235.3^{+2.3}_{-2.1}$
A_{217}^{CIB}	47.7	47^{+20}_{-20}	D_{220}	5733	5735^{+93}_{-96}	$D_M(2.33)$	5757.4	5758^{+35}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.47	—	D_{810}	2539.5	2538^{+36}_{-34}	$f\sigma_8(0.15)$	0.4514	$0.451^{+0.019}_{-0.017}$
A_{143}^{tSZ}	6.9	—	D_{1420}	818.0	817^{+12}_{-13}	$\sigma_8(0.15)$	0.7471	$0.747^{+0.015}_{-0.014}$
A_{100}^{PS}	252	262^{+70}_{-70}	D_{2000}	231.02	$230.7^{+4.7}_{-4.5}$	$f\sigma_8(0.38)$	0.4711	$0.471^{+0.015}_{-0.014}$
A_{143}^{PS}	49.9	48^{+20}_{-20}	$n_{s,0.002}$	0.9692	$0.969^{+0.014}_{-0.012}$	$\sigma_8(0.38)$	0.6629	$0.663^{+0.012}_{-0.013}$
$A_{143 \times 217}^{\text{PS}}$	49.6	43^{+20}_{-20}	Y_{P}	0.245387	$0.24537^{+0.00019}_{-0.00022}$	$f\sigma_8(0.51)$	0.4704	$0.470^{+0.014}_{-0.013}$
A_{217}^{PS}	120.0	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246714	$0.24670^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	0.6207	$0.621^{+0.011}_{-0.012}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.589	$2.596^{+0.095}_{-0.088}$	$f\sigma_8(0.61)$	0.4660	$0.466^{+0.012}_{-0.011}$
A_{100}^{dustTT}	8.88	$9.0^{+4.4}_{-4.5}$	Age/Gyr	13.785	$13.788^{+0.079}_{-0.067}$	$\sigma_8(0.61)$	0.5908	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	10.90	$10.7^{+4.5}_{-4.6}$	z_*	1089.80	$1089.83^{+0.83}_{-0.73}$	$f\sigma_8(2.33)$	0.2981	$0.2983^{+0.0057}_{-0.0059}$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.8}_{-8.5}$	r_*	144.90	$144.96^{+0.84}_{-0.91}$	$\sigma_8(2.33)$	0.3076	$0.3078^{+0.0063}_{-0.0065}$
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	$100\theta_*$	1.04134	$1.0413^{+0.0010}_{-0.0011}$	f_{2000}^{143}	29.4	30^{+7}_{-8}
c_{100}	0.99969	$0.9997^{+0.0017}_{-0.0017}$	$D_M(z_*)/\text{Gpc}$	13.915	$13.920^{+0.080}_{-0.085}$	$f_{2000}^{143 \times 217}$	32.55	33^{+5}_{-5}
c_{217}	0.99826	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.78	$1059.7^{+1.1}_{-1.1}$	f_{2000}^{217}	107.04	$107.5^{+4.8}_{-4.9}$
H_0	68.03	$68.0^{+1.7}_{-1.7}$	r_{drag}	147.57	$147.65^{+0.92}_{-0.94}$	χ_{lensing}^2	8.98	9.5 ($\nu: 0.6$)
Ω_Λ	0.6948	$0.695^{+0.021}_{-0.023}$	k_{D}	0.14034	$0.1402^{+0.0012}_{-0.0012}$	χ_{small}^2	396.6	397.8 ($\nu: 2.7$)
Ω_{m}	0.3052	$0.305^{+0.023}_{-0.021}$	$100\theta_{\text{D}}$	0.16088	$0.16093^{+0.00063}_{-0.00064}$	χ_{lowl}^2	22.68	22.87 ($\nu: 0.4$)
$\Omega_{\text{m}} h^2$	0.14126	$0.1411^{+0.0036}_{-0.0032}$	z_{eq}	3360	3357^{+85}_{-77}	χ_{plik}^2	760.9	772.9 ($\nu: 15.1$)
$\Omega_{\text{m}} h^3$	0.09609	$0.0960^{+0.0011}_{-0.0011}$	k_{eq}	0.010256	$0.01024^{+0.00026}_{-0.00023}$	χ_{H073p45}^2	10.7	10.8 ($\nu: 3.5$)
σ_8	0.8078	$0.808^{+0.017}_{-0.015}$	$100\theta_{\text{eq}}$	0.8210	$0.822^{+0.016}_{-0.016}$	χ_{prior}^2	1.3	7.3 ($\nu: 6.4$)
S_8	0.8149	$0.815^{+0.038}_{-0.033}$	$100\theta_{s,\text{eq}}$	0.4534	$0.4538^{+0.0079}_{-0.0082}$	χ_{CMB}^2	1189.1	1203.1 ($\nu: 17.5$)
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4463	$0.446^{+0.021}_{-0.018}$	$H(0.15)$	73.24	$73.3^{+1.5}_{-1.4}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6005	$0.600^{+0.019}_{-0.017}$	$D_M(0.15)$	637.7	638^{+14}_{-14}			

Best-fit $\chi_{\text{eff}}^2 = 1201.06$; $\bar{\chi}_{\text{eff}}^2 = 1221.17$; $R - 1 = 0.06771$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 8.98 small_100x143_offlike5_EE_Aplanck_B: 396.58 commander_dx12_v3.2.29: 22.68 plik_rd12_HM_v22_TT: 760.89 Hubble - H073p45: 10.67

2.84 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022352	$0.02231^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	100.44	$100.4^{+2.2}_{-2.1}$	$H(0.51)$	89.90	$89.87^{+0.66}_{-0.66}$
$\Omega_c h^2$	0.11819	$0.1182^{+0.0027}_{-0.0027}$	$\langle d^2 \rangle^{1/2}$	2.420	$2.425^{+0.056}_{-0.055}$	$D_M(0.51)$	1972.7	1973^{+25}_{-25}
$100\theta_{\text{MC}}$	1.04113	$1.0411^{+0.0011}_{-0.0010}$	z_{re}	7.91	$8.0^{+1.8}_{-2.0}$	$H(0.61)$	95.47	$95.44^{+0.58}_{-0.58}$
τ	0.0569	$0.058^{+0.020}_{-0.019}$	$10^9 A_s$	2.103	$2.108^{+0.082}_{-0.080}$	$D_M(0.61)$	2296.4	2297^{+27}_{-27}
$\ln(10^{10} A_s)$	3.0460	$3.048^{+0.038}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.8769	$1.876^{+0.028}_{-0.025}$	$H(2.33)$	235.37	$235.3^{+1.8}_{-1.7}$
n_s	0.9698	$0.968^{+0.011}_{-0.010}$	D_{40}	1221.0	1225^{+32}_{-32}	$D_M(2.33)$	5757.3	5759^{+29}_{-29}
y_{cal}	1.0008	$1.0010^{+0.0065}_{-0.0062}$	D_{220}	5732	5735^{+100}_{-95}	$f\sigma_8(0.15)$	0.4509	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	46.5	48^{+20}_{-20}	D_{810}	2540.2	2538^{+36}_{-33}	$\sigma_8(0.15)$	0.7468	$0.747^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.61	—	D_{1420}	818.5	817^{+14}_{-12}	$f\sigma_8(0.38)$	0.4707	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	6.9	—	D_{2000}	231.19	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	0.6627	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	250	261^{+70}_{-70}	$n_{\text{s},0.002}$	0.9698	$0.968^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4701	$0.470^{+0.012}_{-0.011}$
A_{143}^{PS}	51.7	48^{+20}_{-20}	Y_{P}	0.245388	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	0.6205	$0.621^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	52.9	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246715	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	0.4657	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	121.7	115^{+30}_{-30}	$10^5 D/H$	2.589	$2.597^{+0.089}_{-0.089}$	$\sigma_8(0.61)$	0.5906	$0.591^{+0.011}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.785	$13.789^{+0.067}_{-0.064}$	$f\sigma_8(2.33)$	0.2981	$0.2982^{+0.0058}_{-0.0058}$
A_{100}^{dustTT}	8.87	$8.9^{+4.5}_{-4.5}$	z_*	1089.79	$1089.84^{+0.70}_{-0.66}$	$\sigma_8(2.33)$	0.3076	$0.3078^{+0.0064}_{-0.0061}$
A_{143}^{dustTT}	10.81	$10.7^{+4.5}_{-4.6}$	r_*	144.92	$144.95^{+0.75}_{-0.74}$	f_{2000}^{143}	29.3	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.3^{+8.9}_{-9.0}$	$100\theta_*$	1.04133	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-5}
A_{217}^{dustTT}	95.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.916	$13.919^{+0.071}_{-0.074}$	f_{2000}^{217}	106.92	$107.6^{+4.9}_{-4.9}$
c_{100}	0.99969	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	1059.78	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	9.06	$9.43 (\nu: 0.5)$
c_{217}	0.99824	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	147.59	$147.64^{+0.81}_{-0.84}$	χ_{small}^2	396.5	$397.7 (\nu: 2.4)$
H_0	68.05	$68.0^{+1.3}_{-1.2}$	k_{D}	0.14033	$0.1402^{+0.0011}_{-0.0011}$	χ_{lowl}^2	22.53	$22.87 (\nu: 0.3)$
Ω_Λ	0.6952	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	0.16087	$0.16093^{+0.00063}_{-0.00065}$	χ_{plik}^2	761.2	$772.6 (\nu: 14.2)$
Ω_{m}	0.3048	$0.305^{+0.016}_{-0.016}$	z_{eq}	3358	3357^{+64}_{-67}	χ_{H073p45}^2	10.57	$10.8 (\nu: 1.8)$
$\Omega_{\text{m}} h^2$	0.14118	$0.1411^{+0.0027}_{-0.0028}$	k_{eq}	0.010250	$0.01025^{+0.00020}_{-0.00020}$	$\chi_{6\text{DF}}^2$	0.000	$0.029 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09608	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8213	$0.821^{+0.013}_{-0.012}$	χ_{MGS}^2	1.68	$1.73 (\nu: 0.1)$
σ_8	0.8075	$0.808^{+0.017}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4536	$0.4537^{+0.0067}_{-0.0061}$	χ_{DR12BAO}^2	3.50	$3.96 (\nu: 0.3)$
S_8	0.8140	$0.815^{+0.030}_{-0.027}$	$H(0.15)$	73.26	$73.2^{+1.1}_{-1.1}$	χ_{prior}^2	1.3	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4458	$0.446^{+0.016}_{-0.015}$	$D_M(0.15)$	637.5	638^{+10}_{-11}	χ_{CMB}^2	1189.2	$1202.6 (\nu: 15.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6000	$0.601^{+0.016}_{-0.015}$	$H(0.38)$	83.25	$83.23^{+0.83}_{-0.80}$	χ_{BAO}^2	5.17	$5.71 (\nu: 0.3)$
$\sigma_8/h^{0.5}$	0.9788	$0.980^{+0.023}_{-0.021}$	$D_M(0.38)$	1522.0	1523^{+21}_{-21}			

Best-fit $\chi_{\text{eff}}^2 = 1206.21$; $\bar{\chi}_{\text{eff}}^2 = 1226.45$; $R - 1 = 0.05385$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.50 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.06 small_100x143_offlike5_EE_Aplanck_B: 396.46 commander_dx12_v3_2_29: 22.54 plik_rd12_HM_v22_TT: 761.15 Hubble - H073p45: 10.57

2.85 base_plikHM_TT_lowl_lowE_lensing_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02217^{+0.00052}_{-0.00050}$	$\sigma_8/h^{0.5}$	0.9871	$0.987^{+0.025}_{-0.026}$	$H(0.38)$	82.76	$82.8^{+1.1}_{-1.0}$
$\Omega_c h^2$	0.11977	$0.1197^{+0.0036}_{-0.0037}$	$r_{\text{drag}} h$	99.13	$99.2^{+3.0}_{-2.8}$	$D_M(0.38)$	1535.4	1536^{+29}_{-29}
$100\theta_{\text{MC}}$	1.04089	$1.0409^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.442^{+0.061}_{-0.061}$	$H(0.51)$	89.51	$89.50^{+0.90}_{-0.83}$
τ	0.0527	$0.054^{+0.021}_{-0.020}$	z_{re}	7.55	$7.6^{+2.0}_{-2.2}$	$D_M(0.51)$	1988.4	1989^{+34}_{-35}
$\ln(10^{10} A_s)$	3.0404	$3.042^{+0.040}_{-0.038}$	$10^9 A_s$	2.091	$2.094^{+0.085}_{-0.079}$	$H(0.61)$	95.15	$95.14^{+0.75}_{-0.68}$
n_s	0.9654	$0.965^{+0.012}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8820	$1.881^{+0.028}_{-0.027}$	$D_M(0.61)$	2313.3	2314^{+36}_{-37}
y_{cal}	1.0006	$1.0006^{+0.0065}_{-0.0063}$	D_{40}	1228.3	1230^{+31}_{-31}	$H(2.33)$	236.23	$236.2^{+2.3}_{-2.3}$
A_{217}^{CIB}	49.8	48^{+20}_{-20}	D_{220}	5719	5720^{+99}_{-100}	$D_M(2.33)$	5771.1	5772^{+33}_{-36}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.14	—	D_{810}	2538.4	2537^{+35}_{-34}	$f\sigma_8(0.15)$	0.4588	$0.459^{+0.019}_{-0.019}$
A_{143}^{tSZ}	7.1	—	D_{1420}	816.2	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7478	$0.748^{+0.015}_{-0.014}$
A_{100}^{PS}	256	263^{+70}_{-70}	D_{2000}	230.19	$229.8^{+4.6}_{-4.6}$	$f\sigma_8(0.38)$	0.4763	$0.476^{+0.015}_{-0.015}$
A_{143}^{PS}	46.5	49^{+20}_{-20}	$n_{\text{s},0.002}$	0.9654	$0.965^{+0.012}_{-0.012}$	$\sigma_8(0.38)$	0.6625	$0.663^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	42.0	43^{+20}_{-20}	Y_{P}	0.245322	$0.24531^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	0.4745	$0.475^{+0.013}_{-0.013}$
A_{217}^{PS}	117.3	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246648	$0.24664^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	$10^5 \text{D}/\text{H}$	2.620	$2.624^{+0.097}_{-0.095}$	$f\sigma_8(0.61)$	0.4692	$0.469^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.6}$	Age/Gyr	13.815	$13.818^{+0.076}_{-0.079}$	$\sigma_8(0.61)$	0.5897	$0.590^{+0.012}_{-0.011}$
A_{143}^{dustTT}	10.79	$10.7^{+4.5}_{-4.6}$	z_*	1090.13	$1090.15^{+0.84}_{-0.81}$	$f\sigma_8(2.33)$	0.2972	$0.2973^{+0.0062}_{-0.0060}$
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.3^{+8.9}_{-8.6}$	r_*	144.63	$144.65^{+0.90}_{-0.87}$	$\sigma_8(2.33)$	0.3062	$0.3063^{+0.0068}_{-0.0066}$
A_{217}^{dustTT}	94.0	93^{+20}_{-20}	$100\theta_*$	1.04110	$1.0411^{+0.0012}_{-0.0011}$	f_{2000}^{143}	30.4	31^{+8}_{-8}
c_{100}	0.99962	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.892	$13.895^{+0.085}_{-0.083}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	f_{2000}^{217}	107.72	$108.0^{+4.7}_{-5.0}$
H_0	67.28	$67.3^{+1.7}_{-1.6}$	r_{drag}	147.35	$147.39^{+0.94}_{-0.91}$	χ_{lensing}^2	8.84	$9.35 (\nu: 0.3)$
Ω_Λ	0.6849	$0.685^{+0.023}_{-0.023}$	k_{D}	0.14045	$0.1404^{+0.0011}_{-0.0011}$	χ_{simall}^2	395.87	$397.0 (\nu: 1.5)$
Ω_{m}	0.3151	$0.315^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	0.16101	$0.16104^{+0.00065}_{-0.00066}$	χ_{lowl}^2	23.23	$23.48 (\nu: 0.5)$
$\Omega_{\text{m}} h^2$	0.14261	$0.1425^{+0.0035}_{-0.0035}$	z_{eq}	3392	3391^{+84}_{-84}	χ_{plik}^2	759.1	$771.3 (\nu: 13.7)$
$\Omega_{\text{m}} h^3$	0.09594	$0.0959^{+0.0012}_{-0.0011}$	k_{eq}	0.010354	$0.01035^{+0.00026}_{-0.00026}$	χ_{JLA}^2	1035.26	$1035.42 (\nu: 0.2)$
σ_8	0.8097	$0.810^{+0.016}_{-0.016}$	$100\theta_{\text{eq}}$	0.8145	$0.815^{+0.016}_{-0.015}$	χ_{prior}^2	1.6	$7.3 (\nu: 6.7)$
S_8	0.8298	$0.830^{+0.038}_{-0.038}$	$100\theta_{\text{s,eq}}$	0.4502	$0.4503^{+0.0084}_{-0.0079}$	χ_{CMB}^2	1187.1	$1201.1 (\nu: 14.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4545	$0.455^{+0.021}_{-0.021}$	$H(0.15)$	72.59	$72.6^{+1.5}_{-1.4}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6066	$0.607^{+0.018}_{-0.019}$	$D_M(0.15)$	644.1	644^{+14}_{-15}			

Best-fit $\chi_{\text{eff}}^2 = 2223.87$; $\bar{\chi}_{\text{eff}}^2 = 2243.81$; $R - 1 = 0.01128$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 8.84 simall_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2_29: 23.23 plik_rd12_HM.v22.TT: 759.12 SN - JLA Pantheon18: 1035.26

2.86 base_plikHM_TT_lowl_lowE_lensing_post_BAO_JLA_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022347	$0.02232^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	100.44	$100.5^{+2.2}_{-2.0}$	$H(0.51)$	89.89	$89.89^{+0.70}_{-0.66}$
$\Omega_c h^2$	0.11818	$0.1181^{+0.0027}_{-0.0026}$	$\langle d^2 \rangle^{1/2}$	2.423	$2.425^{+0.054}_{-0.055}$	$D_M(0.51)$	1972.9	1973^{+24}_{-25}
$100\theta_{\text{MC}}$	1.04112	$1.0412^{+0.0011}_{-0.0010}$	z_{re}	8.05	$8.0^{+1.8}_{-1.9}$	$H(0.61)$	95.46	$95.45^{+0.59}_{-0.57}$
τ	0.0582	$0.058^{+0.020}_{-0.019}$	$10^9 A_s$	2.108	$2.108^{+0.085}_{-0.081}$	$D_M(0.61)$	2296.6	2297^{+26}_{-27}
$\ln(10^{10} A_s)$	3.0485	$3.048^{+0.039}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.8765	$1.876^{+0.028}_{-0.025}$	$H(2.33)$	235.35	$235.3^{+1.8}_{-1.8}$
n_s	0.9697	$0.969^{+0.011}_{-0.010}$	D_{40}	1221.3	1224^{+31}_{-33}	$D_M(2.33)$	5757.7	5758^{+29}_{-29}
y_{cal}	1.0007	$1.0010^{+0.0064}_{-0.0062}$	D_{220}	5731	5735^{+99}_{-95}	$f\sigma_8(0.15)$	0.4515	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	47.0	48^{+20}_{-20}	D_{810}	2539.5	2538^{+36}_{-33}	$\sigma_8(0.15)$	0.7477	$0.747^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.53	—	D_{1420}	818.2	817^{+14}_{-12}	$f\sigma_8(0.38)$	0.4713	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	7.0	—	D_{2000}	231.11	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	0.6635	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	251	261^{+70}_{-70}	$n_{\text{s},0.002}$	0.9697	$0.969^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4707	$0.470^{+0.012}_{-0.011}$
A_{143}^{PS}	50.3	48^{+20}_{-20}	Y_{P}	0.245386	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	0.6213	$0.621^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	50.9	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246713	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	0.4662	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	121.0	115^{+30}_{-30}	$10^5 D/H$	2.590	$2.596^{+0.088}_{-0.088}$	$\sigma_8(0.61)$	0.5913	$0.591^{+0.011}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.786	$13.788^{+0.067}_{-0.063}$	$f\sigma_8(2.33)$	0.2984	$0.2983^{+0.0058}_{-0.0058}$
A_{100}^{dustTT}	8.81	$8.9^{+4.5}_{-4.5}$	z_*	1089.79	$1089.83^{+0.69}_{-0.65}$	$\sigma_8(2.33)$	0.3080	$0.3078^{+0.0063}_{-0.0061}$
A_{143}^{dustTT}	10.74	$10.7^{+4.5}_{-4.6}$	r_*	144.92	$144.96^{+0.74}_{-0.73}$	f_{2000}^{143}	29.2	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$18.3^{+8.9}_{-9.0}$	$100\theta_*$	1.04131	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	32.4	33^{+5}_{-5}
A_{217}^{dustTT}	95.1	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.917	$13.921^{+0.071}_{-0.073}$	f_{2000}^{217}	106.89	$107.5^{+4.9}_{-4.9}$
c_{100}	0.99968	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	1059.74	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	8.94	$9.44 (\nu: 0.5)$
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	147.60	$147.65^{+0.81}_{-0.84}$	χ_{small}^2	396.8	$397.7 (\nu: 2.5)$
H_0	68.05	$68.1^{+1.2}_{-1.2}$	k_{D}	0.14031	$0.1402^{+0.0012}_{-0.0011}$	χ_{lowl}^2	22.59	$22.85 (\nu: 0.3)$
Ω_Λ	0.6951	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	0.16088	$0.16093^{+0.00063}_{-0.00065}$	χ_{plik}^2	760.8	$772.7 (\nu: 14.2)$
Ω_{m}	0.3049	$0.305^{+0.016}_{-0.016}$	z_{eq}	3358	3356^{+64}_{-66}	χ_{H073p45}^2	10.60	$10.7 (\nu: 1.7)$
$\Omega_{\text{m}} h^2$	0.14117	$0.1411^{+0.0027}_{-0.0028}$	k_{eq}	0.010249	$0.01024^{+0.00019}_{-0.00020}$	χ_{JLA}^2	706.592	$706.62 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09606	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8214	$0.822^{+0.012}_{-0.012}$	χ_{6DF}^2	0.000	$0.028 (\nu: 0.0)$
σ_8	0.8085	$0.808^{+0.017}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4536	$0.4538^{+0.0065}_{-0.0060}$	χ_{MGS}^2	1.68	$1.76 (\nu: 0.1)$
S_8	0.8150	$0.814^{+0.029}_{-0.027}$	$H(0.15)$	73.25	$73.3^{+1.1}_{-1.0}$	χ_{DR12BAO}^2	3.50	$3.92 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4464	$0.446^{+0.016}_{-0.015}$	$D_M(0.15)$	637.6	638^{+10}_{-10}	χ_{prior}^2	1.3	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6008	$0.600^{+0.016}_{-0.014}$	$H(0.38)$	83.25	$83.24^{+0.82}_{-0.78}$	χ_{CMB}^2	1189.2	$1202.7 (\nu: 15.5)$
$\sigma_8/h^{0.5}$	0.9801	$0.979^{+0.023}_{-0.021}$	$D_M(0.38)$	1522.2	1522^{+21}_{-21}	χ_{BAO}^2	5.17	$5.70 (\nu: 0.3)$

Best-fit $\chi_{\text{eff}}^2 = 1912.81$; $\bar{\chi}_{\text{eff}}^2 = 1933.05$; $R - 1 = 0.05858$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.50 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.94 small_100x143.offlike5_EE_Aplanck_B: 396.83 commander_dx12.v3.2.29: 22.59 plik_rd12_HM.v22_TT: 760.83 Hubble - H073p45: 10.60 SN - JLA December_2013: 706.59

2.87 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022241	$0.02222^{+0.00048}_{-0.00047}$	$r_{\text{drag}} h$	99.87	$99.8^{+2.2}_{-2.0}$	$H(0.51)$	89.70	$89.66^{+0.70}_{-0.66}$
$\Omega_c h^2$	0.11884	$0.1190^{+0.0027}_{-0.0027}$	$\langle d^2 \rangle^{1/2}$	2.430	$2.434^{+0.055}_{-0.055}$	$D_M(0.51)$	1980.2	1982^{+25}_{-26}
$100\theta_{\text{MC}}$	1.04103	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	7.86	$7.8^{+1.8}_{-2.0}$	$H(0.61)$	95.30	$95.26^{+0.62}_{-0.58}$
τ	0.0560	$0.056^{+0.019}_{-0.019}$	$10^9 A_s$	2.101	$2.100^{+0.083}_{-0.075}$	$D_M(0.61)$	2304.5	2306^{+27}_{-28}
$\ln(10^{10} A_s)$	3.0450	$3.044^{+0.039}_{-0.036}$	$10^9 A_s e^{-2\tau}$	1.8783	$1.879^{+0.027}_{-0.026}$	$H(2.33)$	235.68	$235.7^{+1.7}_{-1.8}$
n_s	0.9679	$0.966^{+0.010}_{-0.010}$	D_{40}	1223.6	1227^{+32}_{-29}	$D_M(2.33)$	5765.0	5767^{+29}_{-30}
y_{cal}	1.0007	$1.0008^{+0.0067}_{-0.0063}$	D_{220}	5721	5725^{+100}_{-95}	$f\sigma_8(0.15)$	0.4548	$0.455^{+0.015}_{-0.015}$
A_{217}^{CIB}	48.6	48^{+20}_{-20}	D_{810}	2538.4	2537^{+35}_{-33}	$\sigma_8(0.15)$	0.7479	$0.748^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.30	—	D_{1420}	817.0	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4736	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.54	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	0.6632	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	253	263^{+70}_{-70}	$n_{\text{s},0.002}$	0.9679	$0.966^{+0.010}_{-0.010}$	$f\sigma_8(0.51)$	0.4724	$0.473^{+0.011}_{-0.012}$
A_{143}^{PS}	48.1	49^{+20}_{-20}	Y_{P}	0.245343	$0.24533^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	0.6207	$0.620^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	45.8	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246669	$0.24666^{+0.00019}_{-0.00022}$	$f\sigma_8(0.61)$	0.4676	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	119.0	115^{+30}_{-30}	$10^5 D/H$	2.610	$2.615^{+0.090}_{-0.088}$	$\sigma_8(0.61)$	0.5907	$0.590^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.802	$13.806^{+0.068}_{-0.068}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0060}_{-0.0056}$
A_{100}^{dustTT}	8.88	$8.9^{+4.7}_{-4.7}$	z_*	1089.98	$1090.02^{+0.69}_{-0.70}$	$\sigma_8(2.33)$	0.3072	$0.3069^{+0.0063}_{-0.0059}$
A_{143}^{dustTT}	10.81	$10.7^{+4.5}_{-4.6}$	r_*	144.83	$144.81^{+0.73}_{-0.70}$	f_{2000}^{143}	30.0	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.9}_{-8.6}$	$100\theta_*$	1.04123	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32.9	33^{+5}_{-5}
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.909	$13.908^{+0.072}_{-0.070}$	f_{2000}^{217}	107.50	$107.9^{+4.7}_{-5.0}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ_{lensing}^2	8.88	$9.27 (\nu: 0.3)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.54	$147.53^{+0.80}_{-0.79}$	χ_{small}^2	396.37	$397.2 (\nu: 1.8)$
H_0	67.69	$67.6^{+1.3}_{-1.2}$	k_{D}	0.14029	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	22.81	$23.17 (\nu: 0.4)$
Ω_Λ	0.6907	$0.690^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	0.16099	$0.16102^{+0.00064}_{-0.00068}$	χ_{plik}^2	759.8	$771.7 (\nu: 13.7)$
Ω_{m}	0.3093	$0.310^{+0.016}_{-0.016}$	z_{eq}	3372	3374^{+62}_{-63}	χ_{JLA}^2	1034.95	$1035.08 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14173	$0.1418^{+0.0026}_{-0.0026}$	k_{eq}	0.010290	$0.01030^{+0.00019}_{-0.00019}$	$\chi_{6\text{DF}}^2$	0.016	$0.049 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09594	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8185	$0.818^{+0.012}_{-0.011}$	χ_{MGS}^2	1.34	$1.33 (\nu: 0.1)$
σ_8	0.8091	$0.809^{+0.016}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4522	$0.4520^{+0.0061}_{-0.0059}$	χ_{DR12BAO}^2	4.03	$4.6 (\nu: 0.9)$
S_8	0.8216	$0.823^{+0.029}_{-0.029}$	$H(0.15)$	72.94	$72.9^{+1.1}_{-1.0}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4500	$0.451^{+0.016}_{-0.016}$	$D_M(0.15)$	640.6	641^{+10}_{-11}	χ_{CMB}^2	1187.9	$1201.4 (\nu: 14.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6034	$0.604^{+0.016}_{-0.016}$	$H(0.38)$	83.01	$82.96^{+0.84}_{-0.79}$	χ_{BAO}^2	5.39	$6.0 (\nu: 0.6)$
$\sigma_8/h^{0.5}$	0.9835	$0.984^{+0.023}_{-0.023}$	$D_M(0.38)$	1528.3	1530^{+21}_{-22}			

Best-fit $\chi_{\text{eff}}^2 = 2229.71$; $\bar{\chi}_{\text{eff}}^2 = 2249.77$; $R - 1 = 0.01879$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.03 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.88 small_100x143.offlike5_EE_Aplanck_B: 396.37 commander_dx12.v3.2.29: 22.81 plik_rd12_HM.v22_TT: 759.79 SN - JLA Pantheon18: 1034.95

2.88 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022359	$0.02232^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	100.56	$100.5^{+2.2}_{-2.0}$	$H(0.51)$	89.93	$89.89^{+0.65}_{-0.65}$
$\Omega_c h^2$	0.11802	$0.1181^{+0.0027}_{-0.0026}$	$\langle d^2 \rangle^{1/2}$	2.422	$2.424^{+0.054}_{-0.054}$	$D_M(0.51)$	1971.5	1973^{+24}_{-24}
$100\theta_{\text{MC}}$	1.04113	$1.0412^{+0.0011}_{-0.0010}$	z_{re}	8.07	$8.0^{+1.8}_{-1.9}$	$H(0.61)$	95.48	$95.45^{+0.57}_{-0.57}$
τ	0.0585	$0.058^{+0.020}_{-0.019}$	$10^9 A_s$	2.109	$2.108^{+0.085}_{-0.081}$	$D_M(0.61)$	2295.1	2297^{+26}_{-26}
$\ln(10^{10} A_s)$	3.0489	$3.048^{+0.039}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.8763	$1.876^{+0.028}_{-0.025}$	$H(2.33)$	235.26	$235.3^{+1.8}_{-1.7}$
n_s	0.9697	$0.969^{+0.011}_{-0.010}$	D_{40}	1222.0	1224^{+32}_{-33}	$D_M(2.33)$	5756.6	5758^{+29}_{-29}
y_{cal}	1.0009	$1.0010^{+0.0064}_{-0.0062}$	D_{220}	5735	5735^{+100}_{-95}	$f\sigma_8(0.15)$	0.4507	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	48.1	48^{+20}_{-20}	D_{810}	2539.7	2538^{+36}_{-33}	$\sigma_8(0.15)$	0.7474	$0.747^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.38	—	D_{1420}	818.2	817^{+14}_{-12}	$f\sigma_8(0.38)$	0.4706	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	7.0	—	D_{2000}	231.09	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	0.6634	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	253	261^{+70}_{-70}	$n_{\text{s},0.002}$	0.9697	$0.969^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4701	$0.470^{+0.011}_{-0.011}$
A_{143}^{PS}	48.6	48^{+20}_{-20}	Y_{P}	0.245391	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	0.6211	$0.621^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	47.3	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246718	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	0.4658	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	119.4	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.588	$2.596^{+0.088}_{-0.088}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.011}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.784	$13.788^{+0.066}_{-0.063}$	$f\sigma_8(2.33)$	0.2984	$0.2983^{+0.0058}_{-0.0058}$
A_{100}^{dustTT}	8.87	$8.9^{+4.5}_{-4.5}$	z_*	1089.76	$1089.82^{+0.68}_{-0.65}$	$\sigma_8(2.33)$	0.3080	$0.3078^{+0.0063}_{-0.0061}$
A_{143}^{dustTT}	10.83	$10.7^{+4.5}_{-4.6}$	r_*	144.95	$144.96^{+0.73}_{-0.73}$	f_{2000}^{143}	29.5	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.9}_{-9.1}$	$100\theta_*$	1.04132	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-5}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.920	$13.921^{+0.071}_{-0.073}$	f_{2000}^{217}	107.11	$107.5^{+4.9}_{-4.9}$
c_{100}	0.99967	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	1059.78	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	9.00	$9.44 (\nu: 0.5)$
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	147.63	$147.65^{+0.80}_{-0.83}$	χ_{small}^2	396.9	$397.7 (\nu: 2.5)$
H_0	68.12	$68.1^{+1.2}_{-1.2}$	k_{D}	0.14029	$0.1402^{+0.0012}_{-0.0011}$	χ_{lowl}^2	22.60	$22.85 (\nu: 0.3)$
Ω_Λ	0.6961	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	0.16087	$0.16093^{+0.00063}_{-0.00064}$	χ_{plik}^2	760.8	$772.7 (\nu: 14.1)$
Ω_{m}	0.3039	$0.305^{+0.016}_{-0.016}$	z_{eq}	3355	3356^{+63}_{-65}	χ_{H073p45}^2	10.33	$10.6 (\nu: 1.7)$
$\Omega_{\text{m}} h^2$	0.14102	$0.1411^{+0.0026}_{-0.0027}$	k_{eq}	0.010239	$0.01024^{+0.00019}_{-0.00020}$	χ_{JLA}^2	1034.786	$1034.88 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09606	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8220	$0.822^{+0.012}_{-0.011}$	$\chi_{6\text{DF}}^2$	0.000	$0.027 (\nu: 0.0)$
σ_8	0.8080	$0.808^{+0.017}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4540	$0.4538^{+0.0065}_{-0.0059}$	χ_{MGS}^2	1.75	$1.76 (\nu: 0.1)$
S_8	0.8133	$0.814^{+0.029}_{-0.027}$	$H(0.15)$	73.31	$73.3^{+1.1}_{-1.0}$	χ_{DR12BAO}^2	3.44	$3.89 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4455	$0.446^{+0.016}_{-0.015}$	$D_M(0.15)$	637.0	638^{+10}_{-10}	χ_{prior}^2	1.4	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6000	$0.600^{+0.016}_{-0.014}$	$H(0.38)$	83.29	$83.25^{+0.81}_{-0.77}$	χ_{CMB}^2	1189.3	$1202.7 (\nu: 15.4)$
$\sigma_8/h^{0.5}$	0.9790	$0.979^{+0.023}_{-0.021}$	$D_M(0.38)$	1521.0	1522^{+20}_{-21}	χ_{BAO}^2	5.18	$5.68 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 2241.01$; $\bar{\chi}_{\text{eff}}^2 = 2261.26$; $R - 1 = 0.05989$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.44 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 9.00 small_100x143.offlike5_EE_Aplanck_B: 396.89 commander_dx12.v3.2.29: 22.60 plik_rd12_HM.v22_TT: 760.84 Hubble - H073p45: 10.33 SN - JLA Pantheon18: 1034.79

2.89 base_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02215^{+0.00053}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.019}_{-0.020}$	$H(0.15)$	$72.5^{+1.6}_{-1.4}$
$\Omega_c h^2$	$0.1201^{+0.0038}_{-0.0039}$	$\sigma_8/h^{0.5}$	$0.990^{+0.026}_{-0.027}$	$D_M(0.15)$	646^{+15}_{-16}
$100\theta_{MC}$	$1.0408^{+0.0012}_{-0.0012}$	$r_{drag}h$	$98.9^{+3.1}_{-2.9}$	$H(0.38)$	$82.7^{+1.2}_{-1.1}$
τ	$0.054^{+0.018}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.062}_{-0.063}$	$D_M(0.38)$	1538^{+30}_{-32}
$\ln(10^{10} A_s)$	$3.043^{+0.038}_{-0.028}$	z_{re}	< 9.39	$H(0.51)$	$89.43^{+0.95}_{-0.85}$
n_s	$0.964^{+0.012}_{-0.012}$	$10^9 A_s$	$2.096^{+0.082}_{-0.057}$	$D_M(0.51)$	1992^{+35}_{-37}
y_{cal}	$1.0005^{+0.0063}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	$1.882^{+0.028}_{-0.027}$	$H(0.61)$	$95.08^{+0.79}_{-0.71}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1232^{+32}_{-32}	$D_M(0.61)$	2317^{+38}_{-40}
$\xi^{tSZ \times CIB}$	—	D_{220}	5716^{+100}_{-100}	$H(2.33)$	$236.4^{+2.3}_{-2.4}$
A_{143}^{tSZ}	—	D_{810}	2536^{+33}_{-33}	$D_M(2.33)$	5775^{+35}_{-37}
A_{100}^{PS}	264^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.021}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.6^{+4.6}_{-4.7}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	$n_{s,0.002}$	$0.964^{+0.012}_{-0.012}$	$f\sigma_8(0.38)$	$0.478^{+0.015}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	Y_P	$0.24530^{+0.00021}_{-0.00024}$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010}$
A^{kSZ}	—	Y_P^{BBN}	$0.24663^{+0.00021}_{-0.00024}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	$10^5 D/H$	$2.628^{+0.099}_{-0.097}$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0095}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.7}$	Age/Gyr	$13.823^{+0.079}_{-0.082}$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012}$
$A_{143 \times 217}^{dustTT}$	$18.2^{+8.6}_{-8.6}$	z_*	$1090.21^{+0.86}_{-0.87}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0090}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$144.59^{+0.93}_{-0.92}$	$f\sigma_8(2.33)$	$0.2974^{+0.0060}_{-0.0045}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0011}$	$\sigma_8(2.33)$	$0.3064^{+0.0065}_{-0.0048}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.889^{+0.088}_{-0.086}$	f_{2000}^{143}	31^{+8}_{-8}
H_0	$67.1^{+1.8}_{-1.7}$	z_{drag}	$1059.4^{+1.2}_{-1.1}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
Ω_Λ	$0.683^{+0.024}_{-0.024}$	r_{drag}	$147.32^{+0.96}_{-0.96}$	f_{2000}^{217}	$108.1^{+4.8}_{-4.9}$
Ω_m	$0.317^{+0.024}_{-0.024}$	k_D	$0.1404^{+0.0012}_{-0.0012}$	$\chi_{lensing}^2$	$9.42 (\nu: 0.4)$
$\Omega_m h^2$	$0.1429^{+0.0037}_{-0.0037}$	$100\theta_D$	$0.16106^{+0.00064}_{-0.00067}$	χ_{simall}^2	$396.8 (\nu: 1.3)$
$\Omega_m h^3$	$0.0959^{+0.0012}_{-0.0011}$	z_{eq}	3398^{+87}_{-89}	χ_{lowl}^2	$23.7 (\nu: 0.5)$
σ_8	$0.811^{+0.016}_{-0.015}$	k_{eq}	$0.01037^{+0.00027}_{-0.00027}$	χ_{plik}^2	$771.0 (\nu: 13.7)$
S_8	$0.834^{+0.041}_{-0.042}$	$100\theta_{eq}$	$0.813^{+0.017}_{-0.016}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_m^{0.5}$	$0.457^{+0.022}_{-0.023}$	$100\theta_{s,eq}$	$0.4496^{+0.0088}_{-0.0082}$	χ_{CMB}^2	$1200.9 (\nu: 14.7)$

$$\bar{\chi}_{eff}^2 = 1208.16; R - 1 = 0.00659$$

2.90 base_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02221^{+0.00049}_{-0.00047}$	$r_{\text{drag}} h$	$99.7^{+2.2}_{-2.1}$	$H(0.51)$	$89.63^{+0.72}_{-0.67}$
$\Omega_c h^2$	$0.1191^{+0.0027}_{-0.0028}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.054}_{-0.053}$	$D_M(0.51)$	1983^{+25}_{-27}
$100\theta_{\text{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	< 9.49	$H(0.61)$	$95.24^{+0.63}_{-0.59}$
τ	$0.056^{+0.018}_{-0.014}$	$10^9 A_s$	$2.101^{+0.081}_{-0.063}$	$D_M(0.61)$	2307^{+27}_{-29}
$\ln(10^{10} A_s)$	$3.045^{+0.038}_{-0.030}$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.027}_{-0.026}$	$H(2.33)$	$235.8^{+1.8}_{-1.8}$
n_s	$0.966^{+0.011}_{-0.010}$	D_{40}	1228^{+32}_{-29}	$D_M(2.33)$	5768^{+30}_{-30}
y_{cal}	$1.0007^{+0.0066}_{-0.0062}$	D_{220}	5724^{+100}_{-96}	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.016}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-34}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.013}$
A_{143}^{tSZ}	—	D_{2000}	$230.0^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\text{s},0.002}$	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24533^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24665^{+0.00019}_{-0.00022}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.616^{+0.091}_{-0.090}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0095}$
A^{kSZ}	—	Age/Gyr	$13.808^{+0.069}_{-0.069}$	$f\sigma_8(2.33)$	$0.2978^{+0.0058}_{-0.0047}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	z_*	$1090.05^{+0.70}_{-0.71}$	$\sigma_8(2.33)$	$0.3070^{+0.0062}_{-0.0050}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$144.79^{+0.75}_{-0.72}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.9}_{-8.6}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.906^{+0.074}_{-0.071}$	f_{2000}^{217}	$107.9^{+4.7}_{-5.0}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.22 (\nu: 0.2)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.51^{+0.82}_{-0.79}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
H_0	$67.6^{+1.3}_{-1.2}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.24 (\nu: 0.4)$
Ω_Λ	$0.689^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	$0.16102^{+0.00064}_{-0.00068}$	χ_{plik}^2	$771.5 (\nu: 13.6)$
Ω_{m}	$0.311^{+0.017}_{-0.017}$	z_{eq}	3377^{+63}_{-66}	$\chi_{6\text{DF}}^2$	$0.057 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0026}_{-0.0027}$	k_{eq}	$0.01031^{+0.00019}_{-0.00020}$	χ_{MGS}^2	$1.28 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.012}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.1)$
σ_8	$0.810^{+0.016}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4517^{+0.0063}_{-0.0059}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
S_8	$0.824^{+0.030}_{-0.030}$	$H(0.15)$	$72.8^{+1.2}_{-1.1}$	χ_{CMB}^2	$1201.1 (\nu: 14.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.452^{+0.017}_{-0.017}$	$D_M(0.15)$	642^{+11}_{-11}	χ_{BAO}^2	$6.2 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.605^{+0.016}_{-0.016}$	$H(0.38)$	$82.93^{+0.88}_{-0.80}$		
$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$D_M(0.38)$	1531^{+21}_{-23}		

$$\bar{\chi}_{\text{eff}}^2 = 1214.57; R - 1 = 0.01797$$

2.91 base_plikHM_TT_lowl_lowE_lensing_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00049}_{-0.00049}$	$\sigma_8/h^{0.5}$	$0.980^{+0.026}_{-0.024}$	$H(0.38)$	$83.3^{+1.1}_{-1.1}$
$\Omega_c h^2$	$0.1181^{+0.0037}_{-0.0035}$	$r_{\text{drag}} h$	$100.5^{+2.9}_{-2.9}$	$D_M(0.38)$	1522^{+28}_{-28}
$100\theta_{\text{MC}}$	$1.0412^{+0.0010}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.061}_{-0.060}$	$H(0.51)$	$89.90^{+0.85}_{-0.86}$
τ	$0.059^{+0.019}_{-0.015}$	z_{re}	< 9.73	$D_M(0.51)$	1973^{+33}_{-33}
$\ln(10^{10} A_s)$	$3.049^{+0.038}_{-0.033}$	$10^9 A_s$	$2.110^{+0.082}_{-0.070}$	$H(0.61)$	$95.46^{+0.69}_{-0.71}$
n_s	$0.969^{+0.014}_{-0.012}$	$10^9 A_s e^{-2\tau}$	$1.876^{+0.029}_{-0.024}$	$D_M(0.61)$	2296^{+36}_{-36}
y_{cal}	$1.0010^{+0.0064}_{-0.0062}$	D_{40}	1224^{+34}_{-33}	$H(2.33)$	$235.3^{+2.3}_{-2.1}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5735^{+96}_{-96}	$D_M(2.33)$	5758^{+34}_{-30}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2538^{+36}_{-33}	$f\sigma_8(0.15)$	$0.451^{+0.019}_{-0.017}$
A_{143}^{tSZ}	—	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
A_{100}^{PS}	262^{+70}_{-70}	D_{2000}	$230.7^{+4.7}_{-4.5}$	$f\sigma_8(0.38)$	$0.471^{+0.015}_{-0.014}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{s,0.002}$	$0.969^{+0.014}_{-0.012}$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24537^{+0.00019}_{-0.00022}$	$f\sigma_8(0.51)$	$0.470^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.011}$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.596^{+0.094}_{-0.088}$	$f\sigma_8(0.61)$	$0.466^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.4}_{-4.5}$	Age/Gyr	$13.787^{+0.076}_{-0.072}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.010}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	z_*	$1089.82^{+0.83}_{-0.73}$	$f\sigma_8(2.33)$	$0.2984^{+0.0056}_{-0.0052}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.8}_{-8.5}$	r_*	$144.96^{+0.83}_{-0.90}$	$\sigma_8(2.33)$	$0.3080^{+0.0062}_{-0.0056}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.04135^{+0.00098}_{-0.0011}$	f_{2000}^{143}	30^{+7}_{-8}
c_{100}	$0.9997^{+0.0017}_{-0.0017}$	$D_M(z_*)/\text{Gpc}$	$13.921^{+0.079}_{-0.084}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	$1059.7^{+1.1}_{-1.1}$	f_{2000}^{217}	$107.5^{+4.8}_{-4.9}$
H_0	$68.1^{+1.7}_{-1.7}$	r_{drag}	$147.65^{+0.92}_{-0.94}$	χ_{lensing}^2	$9.5 (\nu: 0.5)$
Ω_Λ	$0.695^{+0.021}_{-0.023}$	k_{D}	$0.1402^{+0.0012}_{-0.0012}$	χ_{simall}^2	$397.8 (\nu: 2.8)$
Ω_{m}	$0.305^{+0.023}_{-0.021}$	$100\theta_{\text{D}}$	$0.16093^{+0.00063}_{-0.00064}$	χ_{lowl}^2	$22.86 (\nu: 0.4)$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0035}_{-0.0032}$	z_{eq}	3356^{+84}_{-76}	χ_{plik}^2	$772.9 (\nu: 15.2)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011}$	k_{eq}	$0.01024^{+0.00026}_{-0.00023}$	χ_{H073p45}^2	$10.7 (\nu: 3.4)$
σ_8	$0.808^{+0.017}_{-0.015}$	$100\theta_{\text{eq}}$	$0.822^{+0.015}_{-0.016}$	χ_{prior}^2	$7.3 (\nu: 6.4)$
S_8	$0.814^{+0.038}_{-0.033}$	$100\theta_{\text{s,eq}}$	$0.4539^{+0.0078}_{-0.0081}$	χ_{CMB}^2	$1203.0 (\nu: 17.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.021}_{-0.018}$	$H(0.15)$	$73.3^{+1.4}_{-1.4}$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.019}_{-0.017}$	$D_M(0.15)$	637^{+14}_{-14}		

$$\bar{\chi}_{\text{eff}}^2 = 1221.07; R - 1 = 0.06981$$

2.92 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02231^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	$100.4^{+2.2}_{-2.1}$	$H(0.51)$	$89.88^{+0.66}_{-0.66}$
$\Omega_c h^2$	$0.1182^{+0.0027}_{-0.0027}$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.055}_{-0.056}$	$D_{\text{M}}(0.51)$	1973^{+25}_{-25}
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0010}$	z_{re}	< 9.73	$H(0.61)$	$95.44^{+0.59}_{-0.58}$
τ	$0.058^{+0.018}_{-0.016}$	$10^9 A_{\text{s}}$	$2.109^{+0.084}_{-0.070}$	$D_{\text{M}}(0.61)$	2297^{+27}_{-27}
$\ln(10^{10} A_{\text{s}})$	$3.049^{+0.039}_{-0.034}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.025}$	$H(2.33)$	$235.3^{+1.8}_{-1.7}$
n_{s}	$0.968^{+0.011}_{-0.010}$	D_{40}	1225^{+32}_{-33}	$D_{\text{M}}(2.33)$	5759^{+29}_{-29}
y_{cal}	$1.0010^{+0.0065}_{-0.0062}$	D_{220}	5734^{+100}_{-95}	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+37}_{-33}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	—	D_{2000}	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012}$
A_{100}^{PS}	261^{+70}_{-70}	$n_{\text{s},0.002}$	$0.968^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.471^{+0.012}_{-0.011}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.597^{+0.089}_{-0.089}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.010}$
A^{kSZ}	—	Age/Gyr	$13.789^{+0.067}_{-0.064}$	$f\sigma_8(2.33)$	$0.2983^{+0.0057}_{-0.0051}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.5}$	z_*	$1089.83^{+0.69}_{-0.66}$	$\sigma_8(2.33)$	$0.3079^{+0.0063}_{-0.0054}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$144.95^{+0.74}_{-0.74}$	f_{2000}^{143}	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+9.0}_{-9.0}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.920^{+0.072}_{-0.073}$	f_{2000}^{217}	$107.5^{+4.9}_{-4.9}$
c_{100}	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.39 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	$147.64^{+0.81}_{-0.84}$	χ_{simall}^2	$397.7 (\nu: 2.5)$
H_0	$68.0^{+1.3}_{-1.2}$	k_{D}	$0.1402^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$22.87 (\nu: 0.3)$
Ω_{Λ}	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	$0.16093^{+0.00063}_{-0.00065}$	χ_{plik}^2	$772.6 (\nu: 14.1)$
Ω_{m}	$0.305^{+0.016}_{-0.016}$	z_{eq}	3357^{+64}_{-67}	χ_{H073p45}^2	$10.7 (\nu: 1.8)$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0027}_{-0.0028}$	k_{eq}	$0.01025^{+0.00019}_{-0.00020}$	$\chi_{6\text{DF}}^2$	$0.029 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.012}$	χ_{MGS}^2	$1.74 (\nu: 0.1)$
σ_8	$0.808^{+0.017}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4537^{+0.0066}_{-0.0061}$	χ_{DR12BAO}^2	$3.94 (\nu: 0.3)$
S_8	$0.815^{+0.030}_{-0.027}$	$H(0.15)$	$73.2^{+1.1}_{-1.0}$	χ_{prior}^2	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.016}_{-0.015}$	$D_{\text{M}}(0.15)$	638^{+10}_{-11}	χ_{CMB}^2	$1202.5 (\nu: 15.3)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.601^{+0.016}_{-0.015}$	$H(0.38)$	$83.23^{+0.82}_{-0.79}$	χ_{BAO}^2	$5.71 (\nu: 0.3)$
$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.021}$	$D_{\text{M}}(0.38)$	1523^{+21}_{-21}		

$$\bar{\chi}_{\text{eff}}^2 = 1226.35; R - 1 = 0.05547$$

2.93 base_plikHM_TT_lowl_lowE_lensing_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02218^{+0.00051}_{-0.00049}$	$\sigma_8/h^{0.5}$	$0.988^{+0.025}_{-0.026}$	$H(0.38)$	$82.8^{+1.1}_{-1.0}$
$\Omega_c h^2$	$0.1196^{+0.0035}_{-0.0037}$	$r_{\text{drag}} h$	$99.2^{+3.0}_{-2.7}$	$D_M(0.38)$	1535^{+28}_{-29}
$100\theta_{\text{MC}}$	$1.0409^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.061}_{-0.059}$	$H(0.51)$	$89.52^{+0.89}_{-0.81}$
τ	$0.055^{+0.018}_{-0.013}$	z_{re}	< 9.46	$D_M(0.51)$	1988^{+33}_{-34}
$\ln(10^{10} A_s)$	$3.044^{+0.038}_{-0.029}$	$10^9 A_s$	$2.099^{+0.082}_{-0.060}$	$H(0.61)$	$95.15^{+0.74}_{-0.67}$
n_s	$0.965^{+0.012}_{-0.011}$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.027}_{-0.027}$	$D_M(0.61)$	2313^{+35}_{-37}
y_{cal}	$1.0006^{+0.0065}_{-0.0063}$	D_{40}	1230^{+31}_{-31}	$H(2.33)$	$236.1^{+2.2}_{-2.3}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5720^{+100}_{-100}	$D_M(2.33)$	5771^{+33}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2536^{+35}_{-34}	$f\sigma_8(0.15)$	$0.459^{+0.019}_{-0.019}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
A_{100}^{PS}	263^{+70}_{-70}	D_{2000}	$229.8^{+4.6}_{-4.5}$	$f\sigma_8(0.38)$	$0.476^{+0.015}_{-0.015}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\text{s},0.002}$	$0.965^{+0.012}_{-0.011}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24531^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	$0.475^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.24664^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0098}$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.623^{+0.096}_{-0.094}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.012}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	Age/Gyr	$13.817^{+0.076}_{-0.078}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0092}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	z_*	$1090.14^{+0.80}_{-0.80}$	$f\sigma_8(2.33)$	$0.2976^{+0.0059}_{-0.0046}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.9}_{-8.6}$	r_*	$144.67^{+0.89}_{-0.86}$	$\sigma_8(2.33)$	$0.3066^{+0.0065}_{-0.0050}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0411^{+0.0012}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0017}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.896^{+0.084}_{-0.082}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.2}_{-1.1}$	f_{2000}^{217}	$108.0^{+4.7}_{-5.0}$
H_0	$67.3^{+1.7}_{-1.6}$	r_{drag}	$147.40^{+0.93}_{-0.90}$	χ_{lensing}^2	$9.32 (\nu: 0.3)$
Ω_Λ	$0.685^{+0.023}_{-0.022}$	k_{D}	$0.1404^{+0.0011}_{-0.0011}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
Ω_{m}	$0.315^{+0.022}_{-0.023}$	$100\theta_{\text{D}}$	$0.16104^{+0.00065}_{-0.00068}$	χ_{lowl}^2	$23.47 (\nu: 0.5)$
$\Omega_{\text{m}} h^2$	$0.1425^{+0.0034}_{-0.0036}$	z_{eq}	3389^{+82}_{-85}	χ_{plik}^2	$771.2 (\nu: 13.7)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0011}$	k_{eq}	$0.01034^{+0.00025}_{-0.00026}$	χ_{JLA}^2	$1035.38 (\nu: 0.2)$
σ_8	$0.810^{+0.016}_{-0.014}$	$100\theta_{\text{eq}}$	$0.815^{+0.016}_{-0.015}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
S_8	$0.830^{+0.038}_{-0.039}$	$100\theta_{\text{s,eq}}$	$0.4505^{+0.0083}_{-0.0077}$	χ_{CMB}^2	$1200.9 (\nu: 14.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.455^{+0.021}_{-0.021}$	$H(0.15)$	$72.6^{+1.5}_{-1.4}$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.607^{+0.018}_{-0.018}$	$D_M(0.15)$	644^{+14}_{-14}		

$$\bar{\chi}_{\text{eff}}^2 = 2243.62; R - 1 = 0.01253$$

2.94 base_plikHM_TT_lowl_lowE_lensing_post_BAO_JLA_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	$100.5^{+2.2}_{-2.0}$	$H(0.51)$	$89.89^{+0.69}_{-0.65}$
$\Omega_c h^2$	$0.1181^{+0.0027}_{-0.0027}$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.054}_{-0.055}$	$D_{\text{M}}(0.51)$	1973^{+24}_{-24}
$100\theta_{\text{MC}}$	$1.0412^{+0.0011}_{-0.0010}$	z_{re}	< 9.73	$H(0.61)$	$95.45^{+0.58}_{-0.57}$
τ	$0.059^{+0.018}_{-0.016}$	$10^9 A_{\text{s}}$	$2.110^{+0.083}_{-0.070}$	$D_{\text{M}}(0.61)$	2296^{+26}_{-26}
$\ln(10^{10} A_{\text{s}})$	$3.049^{+0.039}_{-0.034}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.025}$	$H(2.33)$	$235.3^{+1.8}_{-1.8}$
n_{s}	$0.969^{+0.011}_{-0.010}$	D_{40}	1224^{+32}_{-33}	$D_{\text{M}}(2.33)$	5758^{+29}_{-29}
y_{cal}	$1.0010^{+0.0065}_{-0.0062}$	D_{220}	5735^{+100}_{-95}	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+36}_{-33}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	—	D_{2000}	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012}$
A_{100}^{PS}	261^{+70}_{-70}	$n_{\text{s},0.002}$	$0.969^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.470^{+0.012}_{-0.010}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.596^{+0.088}_{-0.088}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.010}$
A^{kSZ}	—	Age/Gyr	$13.788^{+0.067}_{-0.063}$	$f\sigma_8(2.33)$	$0.2984^{+0.0057}_{-0.0051}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.5}$	z_*	$1089.82^{+0.69}_{-0.65}$	$\sigma_8(2.33)$	$0.3079^{+0.0062}_{-0.0055}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$144.96^{+0.73}_{-0.73}$	f_{2000}^{143}	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+9.0}_{-9.1}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.921^{+0.071}_{-0.073}$	f_{2000}^{217}	$107.5^{+4.9}_{-4.9}$
c_{100}	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.41 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	$147.65^{+0.80}_{-0.84}$	χ_{simall}^2	$397.7 (\nu: 2.5)$
H_0	$68.1^{+1.2}_{-1.2}$	k_{D}	$0.1402^{+0.0012}_{-0.0011}$	χ_{lowl}^2	$22.85 (\nu: 0.3)$
Ω_{Λ}	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	$0.16093^{+0.00063}_{-0.00064}$	χ_{plik}^2	$772.6 (\nu: 14.1)$
Ω_{m}	$0.305^{+0.016}_{-0.016}$	z_{eq}	3356^{+64}_{-66}	χ_{H073p45}^2	$10.6 (\nu: 1.7)$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0027}_{-0.0027}$	k_{eq}	$0.01024^{+0.00019}_{-0.00020}$	χ_{JLA}^2	$706.62 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.012}$	$\chi_{6\text{DF}}^2$	$0.028 (\nu: 0.0)$
σ_8	$0.808^{+0.017}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4538^{+0.0065}_{-0.0060}$	χ_{MGS}^2	$1.77 (\nu: 0.1)$
S_8	$0.814^{+0.030}_{-0.027}$	$H(0.15)$	$73.3^{+1.1}_{-1.0}$	χ_{DR12BAO}^2	$3.91 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.016}_{-0.015}$	$D_{\text{M}}(0.15)$	638^{+10}_{-10}	χ_{prior}^2	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.016}_{-0.014}$	$H(0.38)$	$83.25^{+0.82}_{-0.78}$	χ_{CMB}^2	$1202.6 (\nu: 15.3)$
$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.021}$	$D_{\text{M}}(0.38)$	1522^{+21}_{-21}	χ_{BAO}^2	$5.70 (\nu: 0.3)$

$$\bar{\chi}_{\text{eff}}^2 = 1932.95; R - 1 = 0.06025$$

2.95 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00048}_{-0.00046}$	$r_{\text{drag}} h$	$99.8^{+2.2}_{-2.0}$	$H(0.51)$	$89.67^{+0.70}_{-0.66}$
$\Omega_c h^2$	$0.1190^{+0.0026}_{-0.0027}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.054}_{-0.054}$	$D_M(0.51)$	1982^{+24}_{-26}
$100\theta_{\text{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	< 9.50	$H(0.61)$	$95.27^{+0.62}_{-0.57}$
τ	$0.056^{+0.018}_{-0.015}$	$10^9 A_s$	$2.102^{+0.080}_{-0.064}$	$D_M(0.61)$	2306^{+26}_{-28}
$\ln(10^{10} A_s)$	$3.046^{+0.037}_{-0.031}$	$10^9 A_s e^{-2\tau}$	$1.878^{+0.027}_{-0.026}$	$H(2.33)$	$235.7^{+1.7}_{-1.8}$
n_s	$0.966^{+0.011}_{-0.010}$	D_{40}	1227^{+32}_{-29}	$D_M(2.33)$	5767^{+29}_{-30}
y_{cal}	$1.0008^{+0.0066}_{-0.0063}$	D_{220}	5725^{+100}_{-95}	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-33}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	—	D_{2000}	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\text{s},0.002}$	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24533^{+0.00019}_{-0.00022}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00019}_{-0.00022}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.614^{+0.089}_{-0.088}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0095}$
A^{kSZ}	—	Age/Gyr	$13.806^{+0.067}_{-0.068}$	$f\sigma_8(2.33)$	$0.2979^{+0.0058}_{-0.0047}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	z_*	$1090.02^{+0.69}_{-0.69}$	$\sigma_8(2.33)$	$0.3071^{+0.0061}_{-0.0050}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.7}$	r_*	$144.82^{+0.73}_{-0.70}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.9}_{-8.6}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.909^{+0.073}_{-0.069}$	f_{2000}^{217}	$107.9^{+4.8}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.23 (\nu: 0.2)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.54^{+0.80}_{-0.79}$	χ_{simall}^2	$397.2 (\nu: 1.8)$
H_0	$67.6^{+1.3}_{-1.2}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.18 (\nu: 0.4)$
Ω_{Λ}	$0.690^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	$0.16101^{+0.00065}_{-0.00068}$	χ_{plik}^2	$771.6 (\nu: 13.6)$
Ω_{m}	$0.310^{+0.016}_{-0.016}$	z_{eq}	3374^{+62}_{-62}	χ_{JLA}^2	$1035.07 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1418^{+0.0026}_{-0.0026}$	k_{eq}	$0.01030^{+0.00019}_{-0.00019}$	$\chi_{6\text{DF}}^2$	$0.048 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.818^{+0.012}_{-0.011}$	χ_{MGS}^2	$1.34 (\nu: 0.1)$
σ_8	$0.809^{+0.016}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4520^{+0.0061}_{-0.0058}$	χ_{DR12BAO}^2	$4.6 (\nu: 0.9)$
S_8	$0.823^{+0.029}_{-0.029}$	$H(0.15)$	$72.9^{+1.1}_{-1.0}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.016}_{-0.016}$	$D_M(0.15)$	641^{+10}_{-11}	χ_{CMB}^2	$1201.2 (\nu: 14.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.015}$	$H(0.38)$	$82.97^{+0.84}_{-0.78}$	χ_{BAO}^2	$6.0 (\nu: 0.5)$
$\sigma_8/h^{0.5}$	$0.984^{+0.022}_{-0.023}$	$D_M(0.38)$	1530^{+21}_{-22}		

$\bar{\chi}_{\text{eff}}^2 = 2249.62$; $R - 1 = 0.01932$

2.96 base_plikHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00049}_{-0.00046}$	$r_{\text{drag}} h$	$100.5^{+2.2}_{-2.0}$	$H(0.51)$	$89.89^{+0.64}_{-0.65}$
$\Omega_c h^2$	$0.1181^{+0.0026}_{-0.0026}$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.054}_{-0.055}$	$D_M(0.51)$	1973^{+24}_{-24}
$100\theta_{\text{MC}}$	$1.0412^{+0.0011}_{-0.0010}$	z_{re}	< 9.73	$H(0.61)$	$95.45^{+0.58}_{-0.57}$
τ	$0.059^{+0.018}_{-0.016}$	$10^9 A_s$	$2.110^{+0.083}_{-0.070}$	$D_M(0.61)$	2296^{+26}_{-26}
$\ln(10^{10} A_s)$	$3.049^{+0.039}_{-0.034}$	$10^9 A_s e^{-2\tau}$	$1.876^{+0.029}_{-0.025}$	$H(2.33)$	$235.3^{+1.8}_{-1.7}$
n_s	$0.969^{+0.011}_{-0.010}$	D_{40}	1224^{+32}_{-33}	$D_M(2.33)$	5758^{+29}_{-29}
y_{cal}	$1.0010^{+0.0064}_{-0.0062}$	D_{220}	5735^{+100}_{-95}	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.014}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+36}_{-33}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.012}$
A_{143}^{tSZ}	—	D_{2000}	$230.6^{+4.7}_{-4.4}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012}$
A_{100}^{PS}	261^{+70}_{-70}	$n_{\text{s},0.002}$	$0.969^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.010}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24537^{+0.00019}_{-0.00021}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00019}_{-0.00021}$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.596^{+0.089}_{-0.088}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.010}$
A^{kSZ}	—	Age/Gyr	$13.788^{+0.066}_{-0.063}$	$f\sigma_8(2.33)$	$0.2984^{+0.0056}_{-0.0051}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.5}$	z_*	$1089.82^{+0.68}_{-0.65}$	$\sigma_8(2.33)$	$0.3079^{+0.0062}_{-0.0055}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$144.97^{+0.73}_{-0.73}$	f_{2000}^{143}	30^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+9.0}_{-9.1}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.921^{+0.070}_{-0.073}$	f_{2000}^{217}	$107.5^{+4.9}_{-4.9}$
c_{100}	$0.9997^{+0.0017}_{-0.0017}$	z_{drag}	$1059.7^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.41 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	$147.66^{+0.79}_{-0.84}$	χ_{simall}^2	$397.7 (\nu: 2.5)$
H_0	$68.1^{+1.2}_{-1.2}$	k_{D}	$0.1402^{+0.0012}_{-0.0011}$	χ_{lowl}^2	$22.85 (\nu: 0.3)$
Ω_{Λ}	$0.695^{+0.016}_{-0.016}$	$100\theta_{\text{D}}$	$0.16093^{+0.00063}_{-0.00064}$	χ_{plik}^2	$772.6 (\nu: 14.0)$
Ω_{m}	$0.305^{+0.016}_{-0.016}$	z_{eq}	3355^{+63}_{-65}	χ_{H073p45}^2	$10.6 (\nu: 1.7)$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0026}_{-0.0027}$	k_{eq}	$0.01024^{+0.00019}_{-0.00020}$	χ_{JLA}^2	$1034.87 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.011}$	χ_{6DF}^2	$0.027 (\nu: 0.0)$
σ_8	$0.808^{+0.017}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4539^{+0.0065}_{-0.0058}$	χ_{MGS}^2	$1.77 (\nu: 0.1)$
S_8	$0.814^{+0.029}_{-0.027}$	$H(0.15)$	$73.3^{+1.1}_{-1.0}$	χ_{DR12BAO}^2	$3.88 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.016}_{-0.015}$	$D_M(0.15)$	637^{+10}_{-10}	χ_{prior}^2	$7.4 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.015}_{-0.014}$	$H(0.38)$	$83.25^{+0.80}_{-0.77}$	χ_{CMB}^2	$1202.6 (\nu: 15.2)$
$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.021}$	$D_M(0.38)$	1522^{+20}_{-21}	χ_{BAO}^2	$5.68 (\nu: 0.2)$

$$\bar{\chi}_{\text{eff}}^2 = 2261.17; R - 1 = 0.06158$$

2.97 base_plikHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022383	$0.02237^{+0.00038}_{-0.00037}$	$\Omega_m h^3$	0.09636	$0.09633^{+0.00073}_{-0.00083}$	$100\theta_{\text{eq}}$	0.8128	$0.813^{+0.013}_{-0.013}$
$\Omega_c h^2$	0.12011	$0.1200^{+0.0031}_{-0.0031}$	σ_8	0.8120	$0.811^{+0.016}_{-0.015}$	$100\theta_{\text{s,eq}}$	0.4491	$0.4494^{+0.0067}_{-0.0066}$
$100\theta_{\text{MC}}$	1.04091	$1.04092^{+0.00079}_{-0.00084}$	S_8	0.8331	$0.832^{+0.033}_{-0.033}$	$H(0.15)$	72.65	$72.7^{+1.2}_{-1.2}$
τ	0.0543	$0.054^{+0.019}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4563	$0.455^{+0.018}_{-0.018}$	$D_{\text{M}}(0.15)$	643.7	643^{+12}_{-12}
$\ln(10^{10} A_s)$	3.0448	$3.044^{+0.037}_{-0.036}$	$\sigma_8 \Omega_m^{0.25}$	0.6087	$0.608^{+0.016}_{-0.017}$	$H(0.38)$	82.85	$82.87^{+0.89}_{-0.85}$
n_s	0.9660	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9897	$0.988^{+0.023}_{-0.024}$	$D_{\text{M}}(0.38)$	1534.0	1533^{+24}_{-24}
y_{cal}	1.0004	$1.0006^{+0.0063}_{-0.0063}$	$r_{\text{drag}} h$	99.00	$99.1^{+2.4}_{-2.4}$	$H(0.51)$	89.61	$89.63^{+0.72}_{-0.68}$
A_{217}^{CIB}	46.1	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.445	$2.446^{+0.056}_{-0.058}$	$D_{\text{M}}(0.51)$	1986.5	1986^{+28}_{-28}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.66	—	z_{re}	7.68	$7.7^{+1.8}_{-2.1}$	$H(0.61)$	95.27	$95.28^{+0.59}_{-0.55}$
A_{143}^{tSZ}	7.08	$5.4^{+4.3}_{-4.9}$	$10^9 A_s$	2.101	$2.100^{+0.079}_{-0.075}$	$D_{\text{M}}(0.61)$	2311.0	2310^{+30}_{-30}
A_{100}^{PS}	248	260^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8843	$1.883^{+0.027}_{-0.027}$	$H(2.33)$	236.64	$236.6^{+1.8}_{-1.8}$
A_{143}^{PS}	50.7	46^{+20}_{-20}	D_{40}	1229.0	1232^{+29}_{-31}	$D_{\text{M}}(2.33)$	5763.6	5763^{+26}_{-27}
$A_{143 \times 217}^{\text{PS}}$	53.3	42^{+20}_{-20}	D_{220}	5730	5736^{+100}_{-99}	$f\sigma_8(0.15)$	0.4606	$0.460^{+0.017}_{-0.017}$
A_{217}^{PS}	121.9	115^{+30}_{-30}	D_{810}	2541.3	2539^{+33}_{-33}	$\sigma_8(0.15)$	0.7499	$0.749^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	D_{1420}	818.4	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4780	$0.477^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.80	$8.9^{+4.7}_{-4.7}$	D_{2000}	231.33	$230.9^{+3.9}_{-4.0}$	$\sigma_8(0.38)$	0.6643	$0.664^{+0.013}_{-0.012}$
A_{143}^{dustTT}	11.01	$10.9^{+4.5}_{-4.4}$	$n_{\text{s},0.002}$	0.9660	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4761	$0.475^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.3}_{-8.3}$	Y_{P}	0.245401	$0.24539^{+0.00014}_{-0.00015}$	$\sigma_8(0.51)$	0.6214	$0.621^{+0.012}_{-0.011}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246727	$0.24672^{+0.00014}_{-0.00015}$	$f\sigma_8(0.61)$	0.4707	$0.470^{+0.011}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.093}$	$10^5 \text{D}/\text{H}$	2.583	$2.585^{+0.070}_{-0.069}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.011}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.076}$	Age/Gyr	13.797	$13.797^{+0.058}_{-0.060}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0058}_{-0.0055}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.22}$	z_*	1089.91	$1089.92^{+0.64}_{-0.67}$	$\sigma_8(2.33)$	0.3070	$0.3068^{+0.0063}_{-0.0060}$
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	r_*	144.39	$144.43^{+0.67}_{-0.69}$	f_{2000}^{143}	28.6	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	1.04109	$1.04110^{+0.00078}_{-0.00083}$	$f_{2000}^{143 \times 217}$	31.97	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.09^{+0.72}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.870	$13.873^{+0.064}_{-0.063}$	f_{2000}^{217}	106.46	$107.1^{+4.5}_{-4.7}$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.97	$1059.94^{+0.79}_{-0.77}$	χ_{lensing}^2	8.87	$9.23 (\nu: 0.2)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.05	$147.09^{+0.68}_{-0.68}$	χ_{small}^2	396.05	$397.0 (\nu: 1.4)$
H_0	67.32	$67.4^{+1.4}_{-1.4}$	k_{D}	0.14092	$0.14087^{+0.00076}_{-0.00079}$	χ_{lowl}^2	23.25	$23.53 (\nu: 0.4)$
Ω_{Λ}	0.6842	$0.685^{+0.018}_{-0.019}$	$100\theta_{\text{D}}$	0.160734	$0.16076^{+0.00044}_{-0.00045}$	χ_{plik}^2	2344.9	$2359.4 (\nu: 16.3)$
Ω_{m}	0.3158	$0.315^{+0.019}_{-0.018}$	z_{eq}	3405	3402^{+69}_{-68}	χ_{prior}^2	1.5	$11.5 (\nu: 9.9)$
$\Omega_{\text{m}} h^2$	0.14314	$0.1430^{+0.0029}_{-0.0028}$	k_{eq}	0.010393	$0.01038^{+0.00021}_{-0.00021}$	χ_{CMB}^2	2773.1	$2789.2 (\nu: 16.9)$

Best-fit $\chi_{\text{eff}}^2 = 2774.63$; $\bar{\chi}_{\text{eff}}^2 = 2800.69$; $R - 1 = 0.01032$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.87 small_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2_29: 23.25 plik_rd12_HM_v22b_TTTEEE: 2344.93

2.98 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022447	$0.02242^{+0.00034}_{-0.00035}$	S_8	0.8253	$0.825^{+0.027}_{-0.027}$	$H(0.38)$	83.08	$83.05^{+0.71}_{-0.68}$
$\Omega_c h^2$	0.11928	$0.1193^{+0.0024}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	0.4520	$0.452^{+0.015}_{-0.015}$	$D_M(0.38)$	1527.5	1528^{+19}_{-19}
$100\theta_{MC}$	1.04101	$1.04101^{+0.00076}_{-0.00080}$	$\sigma_8 \Omega_m^{0.25}$	0.6055	$0.605^{+0.015}_{-0.014}$	$H(0.51)$	89.80	$89.77^{+0.57}_{-0.56}$
τ	0.0568	$0.056^{+0.019}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9857	$0.985^{+0.022}_{-0.022}$	$D_M(0.51)$	1978.9	1980^{+22}_{-22}
$\ln(10^{10} A_s)$	3.0480	$3.047^{+0.037}_{-0.034}$	$r_{\text{drag}} h$	99.66	$99.6^{+1.8}_{-1.8}$	$H(0.61)$	95.414	$95.39^{+0.47}_{-0.47}$
n_s	0.9682	$0.9665^{+0.0098}_{-0.0098}$	$\langle d^2 \rangle^{1/2}$	2.436	$2.438^{+0.054}_{-0.053}$	$D_M(0.61)$	2302.9	2304^{+24}_{-24}
y_{cal}	1.0005	$1.0008^{+0.0062}_{-0.0061}$	z_{re}	7.90	$7.8^{+1.8}_{-1.9}$	$H(2.33)$	236.17	$236.2^{+1.4}_{-1.4}$
A_{217}^{CIB}	45.6	47^{+20}_{-20}	$10^9 A_s$	2.107	$2.105^{+0.078}_{-0.071}$	$D_M(2.33)$	5757.5	5759^{+23}_{-22}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.71	—	$10^9 A_s e^{-2\tau}$	1.8811	$1.881^{+0.027}_{-0.026}$	$f\sigma_8(0.15)$	0.4567	$0.456^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.06	> 0.816	D_{40}	1225.0	1229^{+29}_{-31}	$\sigma_8(0.15)$	0.7495	$0.749^{+0.015}_{-0.014}$
A_{100}^{PS}	247	259^{+70}_{-70}	D_{220}	5734	5741^{+100}_{-98}	$f\sigma_8(0.38)$	0.4752	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	50.6	46^{+20}_{-20}	D_{810}	2541.2	2540^{+33}_{-33}	$\sigma_8(0.38)$	0.6645	$0.664^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	54.1	42^{+20}_{-20}	D_{1420}	819.2	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4739	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	122.3	115^{+20}_{-30}	D_{2000}	231.67	$231.1^{+3.8}_{-3.9}$	$\sigma_8(0.51)$	0.6219	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9682	$0.9665^{+0.0098}_{-0.0098}$	$f\sigma_8(0.61)$	0.4690	$0.469^{+0.010}_{-0.010}$
A_{100}^{dustTT}	8.78	$8.9^{+4.4}_{-4.7}$	Y_P	0.245425	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5918	$0.591^{+0.012}_{-0.011}$
A_{143}^{dustTT}	10.97	$10.9^{+4.5}_{-4.3}$	Y_P^{BBN}	0.246752	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.2984	$0.2980^{+0.0058}_{-0.0054}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	2.571	$2.576^{+0.065}_{-0.061}$	$\sigma_8(2.33)$	0.3077	$0.3073^{+0.0060}_{-0.0058}$
A_{217}^{dustTT}	95.3	93^{+20}_{-20}	Age/Gyr	13.784	$13.787^{+0.053}_{-0.050}$	f_{2000}^{143}	28.2	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.092}$	z_*	1089.76	$1089.80^{+0.55}_{-0.56}$	$f_{2000}^{143 \times 217}$	31.63	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.073}_{-0.076}$	r_*	144.56	$144.57^{+0.56}_{-0.55}$	f_{2000}^{217}	106.20	$106.9^{+4.3}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04119	$1.04119^{+0.00074}_{-0.00079}$	χ_{lensing}^2	8.73	$9.10 (\nu: 0.2)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.884	$13.885^{+0.054}_{-0.053}$	χ_{small}^2	396.52	$397.2 (\nu: 1.7)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.20}_{-0.21}$	z_{drag}	1060.05	$1060.01^{+0.73}_{-0.80}$	χ_{lowl}^2	22.90	$23.25 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.71}$	r_{drag}	147.20	$147.21^{+0.58}_{-0.58}$	χ_{plik}^2	2345.3	$2359.6 (\nu: 16.9)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14081	$0.14078^{+0.00069}_{-0.00077}$	$\chi_{6\text{DF}}^2$	0.029	$0.053 (\nu: 0.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	0.160690	$0.16072^{+0.00045}_{-0.00043}$	χ_{MGS}^2	1.22	$1.24 (\nu: 0.1)$
H_0	67.70	$67.7^{+1.1}_{-1.1}$	z_{eq}	3387	3387^{+53}_{-52}	χ_{DR12BAO}^2	4.42	$4.8 (\nu: 0.9)$
Ω_Λ	0.6894	$0.689^{+0.014}_{-0.015}$	k_{eq}	0.010337	$0.01034^{+0.00016}_{-0.00016}$	χ_{prior}^2	1.6	$11.5 (\nu: 10.1)$
Ω_m	0.3106	$0.311^{+0.015}_{-0.014}$	$100\theta_{\text{eq}}$	0.8163	$0.816^{+0.010}_{-0.0099}$	χ_{CMB}^2	2773.5	$2789.2 (\nu: 17.2)$
$\Omega_m h^2$	0.14237	$0.1424^{+0.0022}_{-0.0022}$	$100\theta_{s,\text{eq}}$	0.4509	$0.4509^{+0.0051}_{-0.0051}$	χ_{BAO}^2	5.67	$6.1 (\nu: 0.5)$
$\Omega_m h^3$	0.09639	$0.09635^{+0.00074}_{-0.00084}$	$H(0.15)$	72.98	$72.94^{+0.94}_{-0.92}$			
σ_8	0.8110	$0.810^{+0.016}_{-0.015}$	$D_M(0.15)$	640.4	$640.8^{+9.2}_{-9.3}$			

Best-fit $\chi_{\text{eff}}^2 = 2780.70$; $\bar{\chi}_{\text{eff}}^2 = 2806.84$; $R - 1 = 0.01508$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.42 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.73 small_100x143_offlike5_EE_Aplanck_B: 396.52 commander_dx12.v3.2.29: 22.90 plik_rd12_HM_v22b_TTTEEE: 2345.32

2.99 base_plikHM_TTTEEE_lowl_lowE_lensing_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022506	$0.02248^{+0.00038}_{-0.00037}$	σ_8	0.8103	$0.809^{+0.016}_{-0.015}$	$H(0.15)$	73.24	$73.2^{+1.2}_{-1.1}$
$\Omega_c h^2$	0.11866	$0.1188^{+0.0029}_{-0.0026}$	S_8	0.8193	$0.820^{+0.032}_{-0.028}$	$D_M(0.15)$	637.9	639^{+11}_{-12}
$100\theta_{MC}$	1.04111	$1.04109^{+0.00083}_{-0.00083}$	$\sigma_8 \Omega_m^{0.5}$	0.4487	$0.449^{+0.017}_{-0.015}$	$H(0.38)$	83.27	$83.22^{+0.92}_{-0.82}$
τ	0.0587	$0.058^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6030	$0.603^{+0.016}_{-0.014}$	$D_M(0.38)$	1522.4	1524^{+22}_{-23}
$\ln(10^{10} A_s)$	3.0509	$3.049^{+0.035}_{-0.036}$	$\sigma_8/h^{0.5}$	0.9826	$0.982^{+0.023}_{-0.021}$	$H(0.51)$	89.95	$89.91^{+0.76}_{-0.66}$
n_s	0.9695	$0.968^{+0.011}_{-0.011}$	$r_{drag} h$	100.16	$100.0^{+2.2}_{-2.2}$	$D_M(0.51)$	1972.9	1974^{+26}_{-28}
y_{cal}	1.0007	$1.0008^{+0.0061}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.430	$2.432^{+0.056}_{-0.054}$	$H(0.61)$	95.53	$95.50^{+0.65}_{-0.55}$
A_{217}^{CIB}	45.8	47^{+20}_{-20}	z_{re}	8.07	$7.9^{+1.7}_{-1.9}$	$D_M(0.61)$	2296.4	2298^{+28}_{-30}
$\xi^{tSZ \times CIB}$	0.61	—	$10^9 A_s$	2.113	$2.109^{+0.074}_{-0.075}$	$H(2.33)$	235.83	$235.9^{+1.7}_{-1.6}$
A_{143}^{tSZ}	7.08	> 0.817	$10^9 A_s e^{-2\tau}$	1.8793	$1.879^{+0.027}_{-0.029}$	$D_M(2.33)$	5752.2	5754^{+26}_{-30}
A_{100}^{PS}	248	258^{+70}_{-70}	D_{40}	1223.8	1227^{+29}_{-31}	$f\sigma_8(0.15)$	0.4537	$0.454^{+0.016}_{-0.014}$
A_{143}^{PS}	48.8	45^{+20}_{-20}	D_{220}	5743	5746^{+96}_{-98}	$\sigma_8(0.15)$	0.7493	$0.748^{+0.015}_{-0.014}$
$A_{143 \times 217}^{PS}$	51.2	42^{+20}_{-20}	D_{810}	2541.8	2540^{+32}_{-33}	$f\sigma_8(0.38)$	0.4731	$0.473^{+0.013}_{-0.012}$
A_{217}^{PS}	121.4	115^{+30}_{-30}	D_{1420}	819.8	819^{+12}_{-12}	$\sigma_8(0.38)$	0.6647	$0.664^{+0.013}_{-0.012}$
A^{kSZ}	0.0	—	D_{2000}	231.94	$231.4^{+4.0}_{-4.0}$	$f\sigma_8(0.51)$	0.4723	$0.472^{+0.012}_{-0.011}$
A_{100}^{dustTT}	8.85	$8.8^{+4.5}_{-5.1}$	$n_{s,0.002}$	0.9695	$0.968^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6223	$0.621^{+0.012}_{-0.011}$
A_{143}^{dustTT}	10.96	$10.9^{+4.5}_{-4.2}$	Y_P	0.245447	$0.24544^{+0.00014}_{-0.00015}$	$f\sigma_8(0.61)$	0.4677	$0.467^{+0.011}_{-0.010}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.5^{+8.4}_{-8.5}$	Y_P^{BBN}	0.246774	$0.24676^{+0.00015}_{-0.00015}$	$\sigma_8(0.61)$	0.5922	$0.591^{+0.011}_{-0.011}$
A_{217}^{dustTT}	95.4	93^{+20}_{-20}	$10^5 D/H$	2.561	$2.565^{+0.070}_{-0.067}$	$f\sigma_8(2.33)$	0.2988	$0.2983^{+0.0056}_{-0.0055}$
A_{100}^{dustTE}	0.113	$0.113^{+0.10}_{-0.091}$	Age/Gyr	13.772	$13.776^{+0.059}_{-0.067}$	$\sigma_8(2.33)$	0.3083	$0.3077^{+0.0059}_{-0.0059}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.075}_{-0.076}$	z_*	1089.63	$1089.68^{+0.62}_{-0.63}$	f_{2000}^{143}	28.1	29^{+7}_{-8}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.21}$	r_*	144.67	$144.66^{+0.62}_{-0.64}$	$f_{2000}^{143 \times 217}$	31.45	32^{+5}_{-5}
A_{143}^{dustTE}	0.224	$0.23^{+0.14}_{-0.15}$	$100\theta_*$	1.04128	$1.04127^{+0.00081}_{-0.00081}$	f_{2000}^{217}	106.15	$106.7^{+4.5}_{-4.9}$
$A_{143 \times 217}^{dustTE}$	0.662	$0.67^{+0.20}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.894	$13.892^{+0.057}_{-0.060}$	$\chi^2_{lensing}$	8.71	$9.17 (\nu: 0.3)$
A_{217}^{dustTE}	2.07	$2.07^{+0.70}_{-0.71}$	z_{drag}	1060.16	$1060.11^{+0.78}_{-0.79}$	χ^2_{small}	396.93	$397.5 (\nu: 2.2)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	147.29	$147.28^{+0.63}_{-0.65}$	χ^2_{lowl}	22.73	$23.05 (\nu: 0.4)$
c_{217}	0.99817	$0.9982^{+0.0018}_{-0.0017}$	k_D	0.14075	$0.14075^{+0.00072}_{-0.00074}$	χ^2_{plik}	2346.0	$2360.5 (\nu: 18.4)$
H_0	68.00	$67.9^{+1.4}_{-1.3}$	$100\theta_D$	0.160643	$0.16067^{+0.00046}_{-0.00046}$	$\chi^2_{H073p45}$	10.8	$11.2 (\nu: 2.1)$
Ω_Λ	0.6933	$0.692^{+0.017}_{-0.018}$	z_{eq}	3373	3376^{+64}_{-58}	χ^2_{prior}	1.6	$11.6 (\nu: 10.3)$
Ω_m	0.3067	$0.308^{+0.018}_{-0.017}$	k_{eq}	0.010296	$0.01030^{+0.00020}_{-0.00018}$	χ^2_{CMB}	2774.3	$2790.2 (\nu: 18.8)$
$\Omega_m h^2$	0.14181	$0.1419^{+0.0027}_{-0.0024}$	$100\theta_{eq}$	0.8190	$0.818^{+0.012}_{-0.012}$			
$\Omega_m h^3$	0.09643	$0.09641^{+0.00075}_{-0.00079}$	$100\theta_{s,eq}$	0.4523	$0.4520^{+0.0058}_{-0.0062}$			

Best-fit $\chi^2_{eff} = 2786.73$; $\bar{\chi}^2_{eff} = 2812.97$; $R - 1 = 0.03088$
 χ^2_{eff} : CMB - smicadx12_Dec5.ftl.mv2.ndclpp_p.teb.consext8: 8.71 small_100x143_offlike5_EE_Aplanck_B: 396.93 commander_dx12_v3.2.29: 22.73 plik_rd12_HM_v22b_TTTEEE: 2345.95 Hubble - H073p45: 10.77

2.100 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022515	$0.02249^{+0.00035}_{-0.00036}$	S_8	0.8172	$0.818^{+0.027}_{-0.025}$	$H(0.38)$	83.29	$83.27^{+0.76}_{-0.67}$
$\Omega_c h^2$	0.11857	$0.1186^{+0.0023}_{-0.0024}$	$\sigma_8 \Omega_m^{0.5}$	0.4476	$0.448^{+0.015}_{-0.014}$	$D_M(0.38)$	1521.9	1522^{+18}_{-20}
$100\theta_{MC}$	1.04109	$1.04112^{+0.00076}_{-0.00077}$	$\sigma_8 \Omega_m^{0.25}$	0.6017	$0.602^{+0.015}_{-0.014}$	$H(0.51)$	89.96	$89.95^{+0.62}_{-0.55}$
τ	0.0573	$0.058^{+0.018}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9807	$0.981^{+0.022}_{-0.020}$	$D_M(0.51)$	1972.3	1973^{+21}_{-24}
$\ln(10^{10} A_s)$	3.0482	$3.049^{+0.035}_{-0.036}$	$r_{\text{drag}} h$	100.22	$100.2^{+2.0}_{-1.8}$	$H(0.61)$	95.54	$95.53^{+0.54}_{-0.47}$
n_s	0.9697	$0.9682^{+0.0095}_{-0.0098}$	$\langle d^2 \rangle^{1/2}$	2.425	$2.430^{+0.053}_{-0.051}$	$D_M(0.61)$	2295.7	2296^{+23}_{-26}
y_{cal}	1.0008	$1.0008^{+0.0060}_{-0.0062}$	z_{re}	7.93	$8.0^{+1.7}_{-1.8}$	$H(2.33)$	235.78	$235.8^{+1.4}_{-1.4}$
A_{217}^{CIB}	45.7	47^{+20}_{-20}	$10^9 A_s$	2.108	$2.110^{+0.075}_{-0.074}$	$D_M(2.33)$	5751.9	5753^{+23}_{-27}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.68	—	$10^9 A_s e^{-2\tau}$	1.8794	$1.879^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	0.4526	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{40}	1223.2	1226^{+30}_{-30}	$\sigma_8(0.15)$	0.7480	$0.748^{+0.015}_{-0.014}$
A_{100}^{PS}	246	258^{+70}_{-70}	D_{220}	5745	5747^{+96}_{-96}	$f\sigma_8(0.38)$	0.4721	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	49.7	45^{+20}_{-20}	D_{810}	2542.5	2540^{+32}_{-34}	$\sigma_8(0.38)$	0.6637	$0.664^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	53.0	42^{+20}_{-20}	D_{1420}	820.1	819^{+11}_{-12}	$f\sigma_8(0.51)$	0.4713	$0.472^{+0.011}_{-0.010}$
A_{217}^{PS}	121.8	115^{+30}_{-30}	D_{2000}	232.02	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	0.6213	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9697	$0.9682^{+0.0095}_{-0.0098}$	$f\sigma_8(0.61)$	0.4668	$0.467^{+0.010}_{-0.0099}$
A_{100}^{dustTT}	8.81	$8.8^{+4.4}_{-4.7}$	Y_P	0.245450	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5913	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	0.246777	$0.24677^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	0.2984	$0.2984^{+0.0056}_{-0.0055}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.5^{+8.4}_{-8.5}$	$10^5 D/H$	2.559	$2.563^{+0.066}_{-0.063}$	$\sigma_8(2.33)$	0.3078	$0.3078^{+0.0058}_{-0.0058}$
A_{217}^{dustTT}	95.4	93^{+20}_{-20}	Age/Gyr	13.772	$13.773^{+0.052}_{-0.060}$	f_{2000}^{143}	28.0	29^{+7}_{-8}
A_{100}^{dustTE}	0.113	$0.113^{+0.10}_{-0.091}$	z_*	1089.61	$1089.65^{+0.55}_{-0.55}$	$f_{2000}^{143 \times 217}$	31.49	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.075}$	r_*	144.69	$144.69^{+0.56}_{-0.54}$	f_{2000}^{217}	106.12	$106.7^{+4.5}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04126	$1.04129^{+0.00074}_{-0.00076}$	χ_{lensing}^2	8.79	$9.15 (\nu: 0.3)$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	13.896	$13.895^{+0.052}_{-0.052}$	χ_{small}^2	396.58	$397.6 (\nu: 2.2)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.20}_{-0.22}$	z_{drag}	1060.16	$1060.12^{+0.76}_{-0.76}$	χ_{lowl}^2	22.65	$22.98 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.07^{+0.70}_{-0.72}$	r_{drag}	147.31	$147.32^{+0.60}_{-0.56}$	χ_{plik}^2	2346.5	$2360.5 (\nu: 18.1)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14075	$0.14072^{+0.00068}_{-0.00074}$	χ_{H073p45}^2	10.64	$10.8 (\nu: 1.3)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	0.160632	$0.16066^{+0.00046}_{-0.00046}$	$\chi_{6\text{DF}}^2$	0.003	$0.024 (\nu: 0.0)$
H_0	68.04	$68.0^{+1.2}_{-1.0}$	z_{eq}	3371	3372^{+52}_{-51}	χ_{MGS}^2	1.54	$1.57 (\nu: 0.1)$
Ω_Λ	0.6938	$0.693^{+0.015}_{-0.014}$	k_{eq}	0.010290	$0.01029^{+0.00016}_{-0.00015}$	χ_{DR12BAO}^2	3.70	$4.05 (\nu: 0.3)$
Ω_m	0.3062	$0.307^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	0.8194	$0.819^{+0.010}_{-0.0097}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.3)$
$\Omega_m h^2$	0.14173	$0.1418^{+0.0022}_{-0.0021}$	$100\theta_{s,\text{eq}}$	0.4524	$0.4524^{+0.0050}_{-0.0050}$	χ_{CMB}^2	2774.5	$2790.2 (\nu: 18.3)$
$\Omega_m h^3$	0.09642	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	73.26	$73.2^{+1.0}_{-0.89}$	χ_{BAO}^2	5.24	$5.64 (\nu: 0.2)$
σ_8	0.8089	$0.809^{+0.017}_{-0.016}$	$D_M(0.15)$	637.6	$637.9^{+8.8}_{-10}$			

Best-fit $\chi_{\text{eff}}^2 = 2792.01$; $\bar{\chi}_{\text{eff}}^2 = 2818.25$; $R - 1 = 0.03699$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.70 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.79 small_100x143_offlike5_EE_Aplanck_B: 396.58 commander_dx12.v3.2.29: 22.66 plik_rd12_HM_v22b_TTTEEE: 2346.46 Hubble - H073p45: 10.64

2.101 base_plikHM_TTTEEE_lowl_lowE_lensing_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022400	$0.02239^{+0.00036}_{-0.00035}$	σ_8	0.8112	$0.811^{+0.016}_{-0.015}$	$H(0.15)$	72.77	$72.8^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11977	$0.1197^{+0.0030}_{-0.0028}$	S_8	0.8296	$0.829^{+0.032}_{-0.031}$	$D_M(0.15)$	642.4	642^{+11}_{-11}
$100\theta_{MC}$	1.04094	$1.04095^{+0.00080}_{-0.00083}$	$\sigma_8 \Omega_m^{0.5}$	0.4544	$0.454^{+0.017}_{-0.017}$	$H(0.38)$	82.93	$82.94^{+0.85}_{-0.83}$
τ	0.0549	$0.055^{+0.019}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6071	$0.607^{+0.016}_{-0.016}$	$D_M(0.38)$	1531.6	1531^{+23}_{-23}
$\ln(10^{10} A_s)$	3.0453	$3.045^{+0.037}_{-0.036}$	$\sigma_8/h^{0.5}$	0.9876	$0.987^{+0.023}_{-0.023}$	$H(0.51)$	89.68	$89.68^{+0.68}_{-0.66}$
n_s	0.9664	$0.966^{+0.011}_{-0.011}$	$r_{drag} h$	99.25	$99.3^{+2.3}_{-2.3}$	$D_M(0.51)$	1983.7	1984^{+27}_{-27}
y_{cal}	1.0006	$1.0007^{+0.0062}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.443^{+0.055}_{-0.056}$	$H(0.61)$	95.32	$95.32^{+0.55}_{-0.54}$
A_{217}^{CIB}	47.2	47^{+20}_{-20}	z_{re}	7.73	$7.7^{+1.8}_{-2.0}$	$D_M(0.61)$	2308.0	2308^{+29}_{-29}
$\xi^{tSZ \times CIB}$	0.45	—	$10^9 A_s$	2.102	$2.102^{+0.078}_{-0.075}$	$H(2.33)$	236.44	$236.4^{+1.8}_{-1.7}$
A_{143}^{tSZ}	7.20	$5.4^{+4.4}_{-4.9}$	$10^9 A_s e^{-2\tau}$	1.8832	$1.883^{+0.027}_{-0.026}$	$D_M(2.33)$	5761.6	5762^{+25}_{-25}
A_{100}^{PS}	250	259^{+70}_{-70}	D_{40}	1228.7	1231^{+30}_{-31}	$f\sigma_8(0.15)$	0.4588	$0.458^{+0.016}_{-0.016}$
A_{143}^{PS}	47.7	46^{+20}_{-20}	D_{220}	5735	5738^{+100}_{-97}	$\sigma_8(0.15)$	0.7493	$0.749^{+0.014}_{-0.014}$
$A_{143 \times 217}^{PS}$	47.9	42^{+20}_{-20}	D_{810}	2541.2	2540^{+33}_{-33}	$f\sigma_8(0.38)$	0.4766	$0.476^{+0.013}_{-0.013}$
A_{217}^{PS}	119.7	115^{+30}_{-30}	D_{1420}	818.5	817^{+12}_{-12}	$\sigma_8(0.38)$	0.6640	$0.664^{+0.013}_{-0.012}$
A^{kSZ}	0.0	—	D_{2000}	231.33	$231.0^{+3.9}_{-4.0}$	$f\sigma_8(0.51)$	0.4750	$0.475^{+0.011}_{-0.012}$
A_{100}^{dustTT}	8.83	$8.9^{+4.4}_{-4.7}$	$n_{s,0.002}$	0.9664	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6213	$0.621^{+0.012}_{-0.011}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.3}$	Y_P	0.245407	$0.24540^{+0.00014}_{-0.00014}$	$f\sigma_8(0.61)$	0.4698	$0.470^{+0.010}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.5^{+8.3}_{-8.5}$	Y_P^{BBN}	0.246734	$0.24673^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.5911	$0.591^{+0.011}_{-0.011}$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	$10^5 D/H$	2.580	$2.582^{+0.067}_{-0.065}$	$f\sigma_8(2.33)$	0.2979	$0.2978^{+0.0058}_{-0.0056}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.092}$	Age/Gyr	13.793	$13.793^{+0.057}_{-0.057}$	$\sigma_8(2.33)$	0.3071	$0.3070^{+0.0062}_{-0.0060}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.073}_{-0.078}$	z_*	1089.86	$1089.87^{+0.63}_{-0.63}$	f_{2000}^{143}	28.8	30^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.23}$	r_*	144.47	$144.48^{+0.64}_{-0.65}$	$f_{2000}^{143 \times 217}$	31.98	32^{+5}_{-5}
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04112	$1.04113^{+0.00079}_{-0.00082}$	f_{2000}^{217}	106.61	$107.0^{+4.3}_{-4.9}$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.876	$13.877^{+0.060}_{-0.061}$	$\chi_{lensing}^2$	8.77	$9.17 (\nu: 0.2)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.69}$	z_{drag}	1059.97	$1059.97^{+0.77}_{-0.76}$	χ_{small}^2	396.16	$397.1 (\nu: 1.5)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.12	$147.14^{+0.65}_{-0.65}$	χ_{lowl}^2	23.18	$23.42 (\nu: 0.4)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14086	$0.14084^{+0.00073}_{-0.00081}$	χ_{plik}^2	2344.9	$2359.5 (\nu: 16.8)$
H_0	67.46	$67.5^{+1.3}_{-1.3}$	$100\theta_D$	0.160728	$0.16074^{+0.00045}_{-0.00044}$	χ_{JLA}^2	1035.18	$1035.27 (\nu: 0.1)$
Ω_Λ	0.6862	$0.686^{+0.017}_{-0.019}$	z_{eq}	3397	3396^{+66}_{-64}	χ_{prior}^2	1.7	$11.5 (\nu: 10.0)$
Ω_m	0.3138	$0.314^{+0.019}_{-0.017}$	k_{eq}	0.010369	$0.01037^{+0.00020}_{-0.00019}$	χ_{CMB}^2	2773.0	$2789.2 (\nu: 17.2)$
$\Omega_m h^2$	0.14282	$0.1428^{+0.0028}_{-0.0027}$	$100\theta_{eq}$	0.8142	$0.814^{+0.012}_{-0.012}$			
$\Omega_m h^3$	0.09635	$0.09633^{+0.00075}_{-0.00084}$	$100\theta_{s,eq}$	0.4499	$0.4500^{+0.0062}_{-0.0063}$			

Best-fit $\chi_{eff}^2 = 3809.84$; $\bar{\chi}_{eff}^2 = 3835.97$; $R - 1 = 0.01281$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 simall_100x143_offlike5_EE_Aplanck_B: 396.16 commander_dx12_v3_2_29: 23.18 plik_rd12_HM_v22b_TTTEEE: 2344.85 SN - JLA Pantheon18: 1035.18

2.102 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_JLA_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022522	$0.02250^{+0.00035}_{-0.00036}$	S_8	0.8169	$0.817^{+0.027}_{-0.025}$	$H(0.38)$	83.33	$83.29^{+0.75}_{-0.66}$
$\Omega_c h^2$	0.11843	$0.1186^{+0.0022}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	0.4474	$0.448^{+0.015}_{-0.014}$	$D_M(0.38)$	1520.8	1522^{+18}_{-20}
$100\theta_{MC}$	1.04111	$1.04112^{+0.00075}_{-0.00076}$	$\sigma_8 \Omega_m^{0.25}$	0.6019	$0.602^{+0.015}_{-0.013}$	$H(0.51)$	89.99	$89.96^{+0.61}_{-0.54}$
τ	0.0588	$0.058^{+0.018}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9812	$0.981^{+0.022}_{-0.020}$	$D_M(0.51)$	1971.1	1972^{+21}_{-23}
$\ln(10^{10} A_s)$	3.0511	$3.049^{+0.035}_{-0.035}$	$r_{\text{drag}} h$	100.33	$100.2^{+2.0}_{-1.7}$	$H(0.61)$	95.567	$95.54^{+0.53}_{-0.46}$
n_s	0.9700	$0.968^{+0.011}_{-0.0098}$	$\langle d^2 \rangle^{1/2}$	2.427	$2.429^{+0.052}_{-0.051}$	$D_M(0.61)$	2294.4	2296^{+23}_{-25}
y_{cal}	1.0010	$1.0008^{+0.0060}_{-0.0063}$	z_{re}	8.07	$8.0^{+1.6}_{-1.8}$	$H(2.33)$	235.69	$235.8^{+1.4}_{-1.3}$
A_{217}^{CIB}	45.6	47^{+20}_{-20}	$10^9 A_s$	2.114	$2.110^{+0.074}_{-0.074}$	$D_M(2.33)$	5751.0	5752^{+23}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.67	—	$10^9 A_s e^{-2\tau}$	1.8793	$1.879^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	0.4525	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{40}	1223.3	1226^{+30}_{-30}	$\sigma_8(0.15)$	0.7488	$0.748^{+0.015}_{-0.014}$
A_{100}^{PS}	247	258^{+70}_{-70}	D_{220}	5747	5747^{+95}_{-96}	$f\sigma_8(0.38)$	0.4722	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	49.8	45^{+20}_{-20}	D_{810}	2542.8	2540^{+32}_{-34}	$\sigma_8(0.38)$	0.6644	$0.664^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	52.8	42^{+20}_{-20}	D_{1420}	820.3	819^{+11}_{-12}	$f\sigma_8(0.51)$	0.4715	$0.471^{+0.011}_{-0.010}$
A_{217}^{PS}	121.8	115^{+30}_{-30}	D_{2000}	232.10	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	0.6221	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9700	$0.968^{+0.011}_{-0.0098}$	$f\sigma_8(0.61)$	0.4671	$0.467^{+0.010}_{-0.0098}$
A_{100}^{dustTT}	8.81	$8.8^{+4.4}_{-4.7}$	Y_P	0.245452	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5921	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.06	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	0.246779	$0.24677^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.2988	$0.2984^{+0.0056}_{-0.0055}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.5^{+8.4}_{-8.5}$	$10^5 D/H$	2.558	$2.563^{+0.066}_{-0.062}$	$\sigma_8(2.33)$	0.3083	$0.3079^{+0.0058}_{-0.0058}$
A_{217}^{dustTT}	95.8	93^{+20}_{-20}	Age/Gyr	13.770	$13.773^{+0.052}_{-0.059}$	f_{2000}^{143}	28.1	29^{+7}_{-8}
A_{100}^{dustTE}	0.114	$0.113^{+0.10}_{-0.091}$	z_*	1089.59	$1089.64^{+0.55}_{-0.54}$	$f_{2000}^{143 \times 217}$	31.50	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.075}$	r_*	144.72	$144.70^{+0.55}_{-0.54}$	f_{2000}^{217}	106.14	$106.7^{+4.5}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04128	$1.04129^{+0.00073}_{-0.00076}$	χ_{lensing}^2	8.75	$9.16 (\nu: 0.3)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	13.898	$13.896^{+0.052}_{-0.052}$	χ_{small}^2	396.93	$397.6 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.20}_{-0.22}$	z_{drag}	1060.16	$1060.13^{+0.76}_{-0.77}$	χ_{lowl}^2	22.63	$22.96 (\nu: 0.3)$
A_{217}^{dustTE}	2.07	$2.06^{+0.70}_{-0.72}$	r_{drag}	147.34	$147.33^{+0.59}_{-0.56}$	χ_{plik}^2	2346.4	$2360.6 (\nu: 18.1)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14072	$0.14071^{+0.00069}_{-0.00074}$	χ_{H073p45}^2	10.40	$10.7 (\nu: 1.3)$
c_{217}	0.99817	$0.9982^{+0.0017}_{-0.0017}$	$100\theta_D$	0.160630	$0.16066^{+0.00046}_{-0.00046}$	χ_{JLA}^2	706.600	$706.64 (\nu: 0.0)$
H_0	68.10	$68.0^{+1.2}_{-1.0}$	z_{eq}	3368	3371^{+51}_{-52}	χ_{6DF}^2	0.001	$0.023 (\nu: 0.0)$
Ω_Λ	0.6947	$0.694^{+0.015}_{-0.014}$	k_{eq}	0.010280	$0.01029^{+0.00016}_{-0.00016}$	χ_{MGS}^2	1.61	$1.59 (\nu: 0.1)$
Ω_m	0.3053	$0.306^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	0.8200	$0.8194^{+0.0099}_{-0.0095}$	χ_{DR12BAO}^2	3.60	$4.01 (\nu: 0.3)$
$\Omega_m h^2$	0.14160	$0.1417^{+0.0021}_{-0.0022}$	$100\theta_{s,\text{eq}}$	0.4528	$0.4525^{+0.0051}_{-0.0049}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.4)$
$\Omega_m h^3$	0.09642	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	73.32	$73.3^{+1.0}_{-0.89}$	χ_{CMB}^2	2774.7	$2790.3 (\nu: 18.3)$
σ_8	0.8097	$0.809^{+0.017}_{-0.016}$	$D_M(0.15)$	637.1	$637.7^{+8.8}_{-9.8}$	χ_{BAO}^2	5.21	$5.62 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 3498.60$; $\bar{\chi}_{\text{eff}}^2 = 3524.87$; $R - 1 = 0.03975$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.60 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.75 small_100x143_offlike5_EE_Aplanck_B: 396.93 commander_dx12.v3.2.29: 22.63 plik_rd12_HM_v22b_TTTEEE: 2346.36 Hubble - H073p45: 10.40 SN - JLA December_2013: 706.60

2.103 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022451	$0.02243^{+0.00034}_{-0.00035}$	S_8	0.8237	$0.824^{+0.026}_{-0.026}$	$H(0.38)$	83.12	$83.09^{+0.70}_{-0.67}$
$\Omega_c h^2$	0.11913	$0.1192^{+0.0023}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	0.4511	$0.451^{+0.014}_{-0.014}$	$D_M(0.38)$	1526.6	1527^{+18}_{-18}
$100\theta_{MC}$	1.04102	$1.04102^{+0.00075}_{-0.00081}$	$\sigma_8 \Omega_m^{0.25}$	0.6047	$0.605^{+0.015}_{-0.014}$	$H(0.51)$	89.82	$89.80^{+0.56}_{-0.54}$
τ	0.0568	$0.056^{+0.018}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9847	$0.984^{+0.022}_{-0.022}$	$D_M(0.51)$	1977.8	1979^{+21}_{-22}
$\ln(10^{10} A_s)$	3.0482	$3.047^{+0.036}_{-0.034}$	$r_{\text{drag}} h$	99.77	$99.7^{+1.8}_{-1.8}$	$H(0.61)$	95.431	$95.41^{+0.47}_{-0.46}$
n_s	0.9682	$0.9668^{+0.0097}_{-0.0096}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.437^{+0.053}_{-0.052}$	$D_M(0.61)$	2301.7	2303^{+23}_{-24}
y_{cal}	1.0008	$1.0008^{+0.0062}_{-0.0061}$	z_{re}	7.90	$7.8^{+1.7}_{-1.8}$	$H(2.33)$	236.07	$236.1^{+1.4}_{-1.4}$
A_{217}^{CIB}	46.6	47^{+20}_{-20}	$10^9 A_s$	2.108	$2.105^{+0.078}_{-0.072}$	$D_M(2.33)$	5756.9	5758^{+23}_{-22}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.56	—	$10^9 A_s e^{-2\tau}$	1.8813	$1.881^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	0.4559	$0.456^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.16	> 0.815	D_{40}	1225.7	1229^{+29}_{-30}	$\sigma_8(0.15)$	0.7492	$0.749^{+0.015}_{-0.014}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5739	5741^{+100}_{-98}	$f\sigma_8(0.38)$	0.4746	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	48.8	46^{+20}_{-20}	D_{810}	2542.0	2540^{+33}_{-33}	$\sigma_8(0.38)$	0.6643	$0.664^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	50.4	42^{+20}_{-20}	D_{1420}	819.4	818^{+11}_{-12}	$f\sigma_8(0.51)$	0.4734	$0.473^{+0.011}_{-0.011}$
A_{217}^{PS}	120.6	115^{+20}_{-30}	D_{2000}	231.70	$231.2^{+3.7}_{-3.9}$	$\sigma_8(0.51)$	0.6218	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9682	$0.9668^{+0.0097}_{-0.0096}$	$f\sigma_8(0.61)$	0.4686	$0.468^{+0.010}_{-0.010}$
A_{100}^{dustTT}	8.84	$8.9^{+4.4}_{-4.7}$	Y_P	0.245427	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5917	$0.591^{+0.012}_{-0.011}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.3}$	Y_P^{BBN}	0.246753	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.2984	$0.2981^{+0.0058}_{-0.0054}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	2.571	$2.575^{+0.066}_{-0.061}$	$\sigma_8(2.33)$	0.3077	$0.3074^{+0.0060}_{-0.0057}$
A_{217}^{dustTT}	95.2	93^{+20}_{-20}	Age/Gyr	13.783	$13.785^{+0.053}_{-0.050}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.092}$	z_*	1089.74	$1089.78^{+0.53}_{-0.54}$	$f_{2000}^{143 \times 217}$	31.78	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.073}_{-0.076}$	r_*	144.59	$144.59^{+0.55}_{-0.54}$	f_{2000}^{217}	106.41	$106.9^{+4.4}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04120	$1.04120^{+0.00075}_{-0.00079}$	χ_{lensing}^2	8.72	$9.10 (\nu: 0.2)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.887^{+0.054}_{-0.052}$	χ_{small}^2	396.52	$397.2 (\nu: 1.8)$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.20}_{-0.21}$	z_{drag}	1060.05	$1060.02^{+0.75}_{-0.77}$	χ_{lowl}^2	22.88	$23.20 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.72}$	r_{drag}	147.23	$147.23^{+0.57}_{-0.57}$	χ_{plik}^2	2345.3	$2359.7 (\nu: 17.0)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14078	$0.14076^{+0.00069}_{-0.00075}$	χ_{JLA}^2	1034.97	$1035.06 (\nu: 0.0)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	0.160690	$0.16072^{+0.00044}_{-0.00043}$	$\chi_{6\text{DF}}^2$	0.022	$0.046 (\nu: 0.0)$
H_0	67.76	$67.7^{+1.1}_{-1.0}$	z_{eq}	3383	3385^{+52}_{-51}	χ_{MGS}^2	1.28	$1.29 (\nu: 0.1)$
Ω_Λ	0.6902	$0.690^{+0.014}_{-0.014}$	k_{eq}	0.010326	$0.01033^{+0.00016}_{-0.00016}$	χ_{DR12BAO}^2	4.24	$4.7 (\nu: 0.7)$
Ω_m	0.3098	$0.310^{+0.014}_{-0.014}$	$100\theta_{\text{eq}}$	0.8170	$0.8167^{+0.0097}_{-0.0097}$	χ_{prior}^2	1.8	$11.5 (\nu: 10.1)$
$\Omega_m h^2$	0.14222	$0.1423^{+0.0022}_{-0.0021}$	$100\theta_{s,\text{eq}}$	0.4513	$0.4511^{+0.0050}_{-0.0050}$	χ_{CMB}^2	2773.4	$2789.3 (\nu: 17.2)$
$\Omega_m h^3$	0.09637	$0.09635^{+0.00074}_{-0.00083}$	$H(0.15)$	73.03	$72.99^{+0.93}_{-0.89}$	χ_{BAO}^2	5.55	$6.00 (\nu: 0.4)$
σ_8	0.8106	$0.810^{+0.016}_{-0.015}$	$D_M(0.15)$	639.9	$640.3^{+8.9}_{-9.1}$			

Best-fit $\chi_{\text{eff}}^2 = 3815.67$; $\bar{\chi}_{\text{eff}}^2 = 3841.86$; $R - 1 = 0.01667$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.24 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.72 small_100x143_offlike5_EE_Aplanck_B: 396.52 commander_dx12.v3.2.29: 22.88 plik_rd12_HM_v22b_TTTEEE: 2345.27 SN - JLA Pantheon18: 1034.97

2.104 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022510	$0.02250^{+0.00035}_{-0.00035}$	S_8	0.8183	$0.817^{+0.026}_{-0.024}$	$H(0.38)$	83.29	$83.29^{+0.74}_{-0.65}$
$\Omega_c h^2$	0.11858	$0.1186^{+0.0022}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	0.4482	$0.448^{+0.014}_{-0.013}$	$D_M(0.38)$	1521.9	1522^{+17}_{-20}
$100\theta_{MC}$	1.04112	$1.04113^{+0.00075}_{-0.00077}$	$\sigma_8 \Omega_m^{0.25}$	0.6025	$0.602^{+0.015}_{-0.013}$	$H(0.51)$	89.96	$89.96^{+0.61}_{-0.53}$
τ	0.0586	$0.058^{+0.018}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9819	$0.981^{+0.022}_{-0.020}$	$D_M(0.51)$	1972.3	1972^{+20}_{-23}
$\ln(10^{10} A_s)$	3.0505	$3.049^{+0.035}_{-0.035}$	$r_{\text{drag}} h$	100.22	$100.2^{+2.0}_{-1.7}$	$H(0.61)$	95.544	$95.54^{+0.52}_{-0.46}$
n_s	0.9697	$0.968^{+0.011}_{-0.0096}$	$\langle d^2 \rangle^{1/2}$	2.428	$2.429^{+0.052}_{-0.052}$	$D_M(0.61)$	2295.7	2296^{+22}_{-25}
y_{cal}	1.0008	$1.0008^{+0.0060}_{-0.0063}$	z_{re}	8.06	$8.0^{+1.6}_{-1.8}$	$H(2.33)$	235.78	$235.8^{+1.4}_{-1.3}$
A_{217}^{CIB}	46.0	47^{+20}_{-20}	$10^9 A_s$	2.113	$2.110^{+0.074}_{-0.073}$	$D_M(2.33)$	5751.9	5752^{+23}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.62	—	$10^9 A_s e^{-2\tau}$	1.8790	$1.878^{+0.026}_{-0.028}$	$f\sigma_8(0.15)$	0.4532	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{40}	1223.1	1226^{+30}_{-30}	$\sigma_8(0.15)$	0.7490	$0.748^{+0.015}_{-0.014}$
A_{100}^{PS}	248	258^{+70}_{-80}	D_{220}	5742	5747^{+95}_{-96}	$f\sigma_8(0.38)$	0.4727	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	48.9	45^{+20}_{-20}	D_{810}	2541.7	2540^{+32}_{-34}	$\sigma_8(0.38)$	0.6645	$0.664^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	51.5	42^{+20}_{-20}	D_{1420}	819.9	819^{+11}_{-12}	$f\sigma_8(0.51)$	0.4719	$0.471^{+0.011}_{-0.0099}$
A_{217}^{PS}	121.2	115^{+30}_{-30}	D_{2000}	231.96	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	0.6221	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9697	$0.968^{+0.011}_{-0.0096}$	$f\sigma_8(0.61)$	0.4674	$0.467^{+0.010}_{-0.0097}$
A_{100}^{dustTT}	8.81	$8.8^{+4.4}_{-4.6}$	Y_P	0.245448	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.5921	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.03	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	0.246775	$0.24677^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.2987	$0.2984^{+0.0056}_{-0.0055}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.5^{+8.4}_{-8.5}$	$10^5 D/H$	2.560	$2.562^{+0.066}_{-0.062}$	$\sigma_8(2.33)$	0.3082	$0.3079^{+0.0059}_{-0.0058}$
A_{217}^{dustTT}	95.3	93^{+20}_{-20}	Age/Gyr	13.772	$13.772^{+0.051}_{-0.059}$	f_{2000}^{143}	28.1	29^{+7}_{-8}
A_{100}^{dustTE}	0.115	$0.113^{+0.10}_{-0.091}$	z_*	1089.62	$1089.63^{+0.54}_{-0.54}$	$f_{2000}^{143 \times 217}$	31.51	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.075}$	r_*	144.69	$144.71^{+0.54}_{-0.53}$	f_{2000}^{217}	106.16	$106.7^{+4.5}_{-4.8}$
$A_{100 \times 217}^{\text{dustTE}}$	0.478	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04128	$1.04130^{+0.00073}_{-0.00076}$	χ_{lensing}^2	8.74	$9.16 (\nu: 0.3)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	13.896	$13.897^{+0.051}_{-0.051}$	χ_{small}^2	396.92	$397.6 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.20}_{-0.22}$	z_{drag}	1060.16	$1060.13^{+0.76}_{-0.77}$	χ_{lowl}^2	22.67	$22.95 (\nu: 0.3)$
A_{217}^{dustTE}	2.07	$2.06^{+0.70}_{-0.72}$	r_{drag}	147.31	$147.33^{+0.59}_{-0.55}$	χ_{plik}^2	2346.2	$2360.6 (\nu: 18.1)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14074	$0.14071^{+0.00069}_{-0.00074}$	χ_{H073p45}^2	10.64	$10.7 (\nu: 1.2)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	0.160642	$0.16066^{+0.00047}_{-0.00046}$	χ_{JLA}^2	1034.843	$1034.90 (\nu: 0.0)$
H_0	68.04	$68.0^{+1.2}_{-1.0}$	z_{eq}	3371	3371^{+51}_{-52}	χ_{6DF}^2	0.003	$0.022 (\nu: 0.0)$
Ω_Λ	0.6938	$0.694^{+0.014}_{-0.013}$	k_{eq}	0.010290	$0.01029^{+0.00015}_{-0.00016}$	χ_{MGS}^2	1.54	$1.60 (\nu: 0.1)$
Ω_m	0.3062	$0.306^{+0.013}_{-0.014}$	$100\theta_{\text{eq}}$	0.8194	$0.8195^{+0.0098}_{-0.0094}$	χ_{DR12BAO}^2	3.69	$3.98 (\nu: 0.3)$
$\Omega_m h^2$	0.14173	$0.1417^{+0.0021}_{-0.0022}$	$100\theta_{s,\text{eq}}$	0.45245	$0.4525^{+0.0051}_{-0.0048}$	χ_{prior}^2	1.6	$11.6 (\nu: 10.4)$
$\Omega_m h^3$	0.09643	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	73.26	$73.3^{+1.0}_{-0.87}$	χ_{CMB}^2	2774.5	$2790.3 (\nu: 18.3)$
σ_8	0.8099	$0.809^{+0.017}_{-0.016}$	$D_M(0.15)$	637.6	$637.6^{+8.6}_{-9.7}$	χ_{BAO}^2	5.23	$5.60 (\nu: 0.1)$

Best-fit $\chi_{\text{eff}}^2 = 3826.83$; $\bar{\chi}_{\text{eff}}^2 = 3853.09$; $R - 1 = 0.04098$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.69 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.74 small_100x143.offlike5_EE_Aplanck_B: 396.92 commander_dx12.v3.2.29: 22.68 plik_rd12_HM.v22b_TTTEEE: 2346.18 Hubble - H073p45: 10.64 SN - JLA Pantheon18: 1034.84

2.105 base_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00038}_{-0.00037}$	$\Omega_m h^3$	$0.09633^{+0.00074}_{-0.00083}$	$100\theta_{\text{eq}}$	$0.814^{+0.013}_{-0.013}$
$\Omega_c h^2$	$0.1199^{+0.0030}_{-0.0030}$	σ_8	$0.812^{+0.015}_{-0.014}$	$100\theta_{\text{s,eq}}$	$0.4495^{+0.0066}_{-0.0065}$
$100\theta_{\text{MC}}$	$1.04092^{+0.00079}_{-0.00084}$	S_8	$0.832^{+0.033}_{-0.033}$	$H(0.15)$	$72.7^{+1.2}_{-1.2}$
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.018}$	$D_{\text{M}}(0.15)$	643^{+12}_{-12}
$\ln(10^{10} A_s)$	$3.046^{+0.036}_{-0.028}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.016}_{-0.017}$	$H(0.38)$	$82.88^{+0.89}_{-0.85}$
n_s	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.989^{+0.023}_{-0.023}$	$D_{\text{M}}(0.38)$	1533^{+24}_{-24}
y_{cal}	$1.0006^{+0.0063}_{-0.0062}$	$r_{\text{drag}} h$	$99.1^{+2.4}_{-2.4}$	$H(0.51)$	$89.64^{+0.71}_{-0.67}$
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.055}_{-0.056}$	$D_{\text{M}}(0.51)$	1985^{+27}_{-28}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.36	$H(0.61)$	$95.29^{+0.58}_{-0.55}$
A_{143}^{tSZ}	$5.4^{+4.5}_{-4.6}$	$10^9 A_s$	$2.103^{+0.077}_{-0.058}$	$D_{\text{M}}(0.61)$	2310^{+30}_{-30}
A_{100}^{PS}	259^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.883^{+0.027}_{-0.027}$	$H(2.33)$	$236.5^{+1.8}_{-1.8}$
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1232^{+29}_{-30}	$D_{\text{M}}(2.33)$	5763^{+26}_{-27}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5735^{+100}_{-99}	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2539^{+34}_{-33}	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.012}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	D_{2000}	$230.9^{+3.9}_{-4.1}$	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.0098}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.4}$	$n_{\text{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.476^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.3}$	Y_{P}	$0.24540^{+0.00014}_{-0.00015}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.0091}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24672^{+0.00014}_{-0.00015}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.093}$	10^5D/H	$2.585^{+0.070}_{-0.068}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0086}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.076}$	Age/Gyr	$13.796^{+0.058}_{-0.060}$	$f\sigma_8(2.33)$	$0.2979^{+0.0056}_{-0.0043}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.91^{+0.64}_{-0.67}$	$\sigma_8(2.33)$	$0.3070^{+0.0061}_{-0.0046}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$144.44^{+0.66}_{-0.69}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	$1.04110^{+0.00077}_{-0.00083}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.09^{+0.72}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.874^{+0.063}_{-0.063}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.6}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.95^{+0.78}_{-0.78}$	χ_{lensing}^2	$9.22 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.10^{+0.68}_{-0.68}$	χ_{simall}^2	$397.0 (\nu: 1.4)$
H_0	$67.4^{+1.4}_{-1.4}$	k_{D}	$0.14086^{+0.00076}_{-0.00079}$	χ_{lowl}^2	$23.53 (\nu: 0.4)$
Ω_{Λ}	$0.685^{+0.018}_{-0.019}$	$100\theta_{\text{D}}$	$0.16075^{+0.00044}_{-0.00045}$	χ_{plik}^2	$2359.3 (\nu: 16.3)$
Ω_{m}	$0.315^{+0.019}_{-0.018}$	z_{eq}	3401^{+69}_{-67}	χ_{prior}^2	$11.5 (\nu: 10.0)$
$\Omega_{\text{m}} h^2$	$0.1430^{+0.0029}_{-0.0028}$	k_{eq}	$0.01038^{+0.00021}_{-0.00020}$	χ_{CMB}^2	$2789.0 (\nu: 16.6)$

$$\bar{\chi}_{\text{eff}}^2 = 2800.50; R - 1 = 0.01006$$

2.106 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02242^{+0.00034}_{-0.00035}$	S_8	$0.825^{+0.027}_{-0.027}$	$H(0.38)$	$83.06^{+0.71}_{-0.68}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0023}_{-0.0024}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1528^{+18}_{-19}
$100\theta_{\mathrm{MC}}$	$1.04101^{+0.00076}_{-0.00080}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.015}_{-0.014}$	$H(0.51)$	$89.78^{+0.57}_{-0.55}$
τ	$0.057^{+0.017}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.51)$	1980^{+22}_{-22}
$\ln(10^{10}A_{\mathrm{s}})$	$3.048^{+0.036}_{-0.029}$	$r_{\mathrm{drag}}h$	$99.6^{+1.8}_{-1.8}$	$H(0.61)$	$95.39^{+0.48}_{-0.47}$
n_{s}	$0.9666^{+0.0097}_{-0.0097}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.054}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2304^{+23}_{-24}
y_{cal}	$1.0007^{+0.0062}_{-0.0061}$	z_{re}	< 9.48	$H(2.33)$	$236.2^{+1.4}_{-1.4}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.106^{+0.076}_{-0.061}$	$D_{\mathrm{M}}(2.33)$	5759^{+23}_{-22}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.027}_{-0.026}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
A_{143}^{tSZ}	> 0.817	D_{40}	1229^{+29}_{-31}	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.012}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5740^{+100}_{-99}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+33}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+11}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.1^{+3.7}_{-3.9}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.9666^{+0.0097}_{-0.0097}$	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.0099}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.4}_{-4.7}$	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0092}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2982^{+0.0057}_{-0.0046}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.3}_{-8.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.576^{+0.065}_{-0.061}$	$\sigma_8(2.33)$	$0.3074^{+0.0059}_{-0.0048}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.053}_{-0.050}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.092}$	z_*	$1089.79^{+0.55}_{-0.56}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.073}_{-0.077}$	r_*	$144.57^{+0.56}_{-0.55}$	f_{2000}^{217}	$106.9^{+4.3}_{-4.9}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04119^{+0.00074}_{-0.00079}$	$\chi_{\mathrm{lensing}}^2$	$9.08 (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.885^{+0.054}_{-0.053}$	χ_{simall}^2	$397.2 (\nu: 1.7)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.21}$	z_{drag}	$1060.01^{+0.72}_{-0.76}$	χ_{lowl}^2	$23.25 (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.71}$	r_{drag}	$147.22^{+0.58}_{-0.57}$	χ_{plik}^2	$2359.5 (\nu: 16.8)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_{D}	$0.14078^{+0.00069}_{-0.00076}$	$\chi_{6\mathrm{DF}}^2$	$0.052 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_{\mathrm{D}}$	$0.16072^{+0.00045}_{-0.00043}$	χ_{MGS}^2	$1.25 (\nu: 0.1)$
H_0	$67.7^{+1.1}_{-1.1}$	z_{eq}	3387^{+53}_{-52}	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 0.8)$
Ω_{Λ}	$0.689^{+0.014}_{-0.014}$	k_{eq}	$0.01034^{+0.00016}_{-0.00016}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_{m}	$0.311^{+0.014}_{-0.014}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.010}_{-0.0098}$	χ_{CMB}^2	$2789.1 (\nu: 16.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1424^{+0.0022}_{-0.0022}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0051}_{-0.0050}$	χ_{BAO}^2	$6.1 (\nu: 0.5)$
$\Omega_{\mathrm{m}}h^3$	$0.09635^{+0.00074}_{-0.00082}$	$H(0.15)$	$72.95^{+0.95}_{-0.92}$		
σ_8	$0.811^{+0.016}_{-0.014}$	$D_{\mathrm{M}}(0.15)$	$640.7^{+9.2}_{-9.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2806.72; R - 1 = 0.01624$$

2.107 base_plikHM_TTTEEE_lowl_lowE_lensing_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02248^{+0.00042}_{-0.00037}$	σ_8	$0.810^{+0.016}_{-0.014}$	$H(0.15)$	$73.2^{+1.2}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1188^{+0.0028}_{-0.0026}$	S_8	$0.820^{+0.032}_{-0.028}$	$D_{\mathrm{M}}(0.15)$	638^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04110^{+0.00082}_{-0.00082}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.017}_{-0.015}$	$H(0.38)$	$83.23^{+0.91}_{-0.81}$
τ	$0.058^{+0.018}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.016}_{-0.014}$	$D_{\mathrm{M}}(0.38)$	1524^{+22}_{-23}
$\ln(10^{10}A_{\mathrm{s}})$	$3.049^{+0.034}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.982^{+0.023}_{-0.022}$	$H(0.51)$	$89.91^{+0.76}_{-0.65}$
n_{s}	$0.968^{+0.011}_{-0.011}$	$r_{\mathrm{drag}}h$	$100.1^{+2.2}_{-2.2}$	$D_{\mathrm{M}}(0.51)$	1974^{+26}_{-28}
y_{cal}	$1.0008^{+0.0061}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.056}_{-0.053}$	$H(0.61)$	$95.51^{+0.64}_{-0.54}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.57	$D_{\mathrm{M}}(0.61)$	2298^{+28}_{-30}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.110^{+0.073}_{-0.065}$	$H(2.33)$	$235.9^{+1.7}_{-1.6}$
A_{143}^{tSZ}	> 0.820	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.027}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5754^{+26}_{-30}
A_{100}^{PS}	258^{+70}_{-70}	D_{40}	1227^{+29}_{-31}	$f\sigma_8(0.15)$	$0.454^{+0.016}_{-0.014}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5746^{+96}_{-98}	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2540^{+32}_{-34}	$f\sigma_8(0.38)$	$0.473^{+0.013}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	819^{+12}_{-12}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
A^{kSZ}	—	D_{2000}	$231.5^{+4.1}_{-4.0}$	$f\sigma_8(0.51)$	$0.472^{+0.012}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.5}_{-5.2}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.010}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.2}$	Y_{P}	$0.24544^{+0.00017}_{-0.00015}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.4}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00017}_{-0.00015}$	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.0098}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.565^{+0.070}_{-0.075}$	$f\sigma_8(2.33)$	$0.2984^{+0.0055}_{-0.0049}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.091}$	Age/Gyr	$13.776^{+0.058}_{-0.067}$	$\sigma_8(2.33)$	$0.3078^{+0.0058}_{-0.0051}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.074}_{-0.076}$	z_*	$1089.67^{+0.62}_{-0.63}$	f_{2000}^{143}	29^{+7}_{-8}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.21}$	r_*	$144.66^{+0.62}_{-0.64}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.15}$	$100\theta_*$	$1.04127^{+0.00081}_{-0.00081}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.9}$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.057}_{-0.060}$	$\chi_{\mathrm{lensing}}^2$	$9.15 (\nu: 0.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.06^{+0.70}_{-0.71}$	z_{drag}	$1060.11^{+0.77}_{-0.79}$	χ_{simall}^2	$397.5 (\nu: 2.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	$147.29^{+0.63}_{-0.64}$	χ_{lowl}^2	$23.05 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0018}_{-0.0017}$	k_{D}	$0.14075^{+0.00072}_{-0.00076}$	χ_{plik}^2	$2360.4 (\nu: 18.4)$
H_0	$67.9^{+1.4}_{-1.3}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00046}_{-0.00046}$	$\chi_{\mathrm{H073p45}}^2$	$11.1 (\nu: 2.0)$
Ω_{Λ}	$0.692^{+0.016}_{-0.017}$	z_{eq}	3376^{+64}_{-57}	χ_{prior}^2	$11.6 (\nu: 10.4)$
Ω_{m}	$0.308^{+0.017}_{-0.016}$	k_{eq}	$0.01030^{+0.00019}_{-0.00017}$	χ_{CMB}^2	$2790.1 (\nu: 18.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1419^{+0.0027}_{-0.0024}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.011}_{-0.012}$		
$\Omega_{\mathrm{m}}h^3$	$0.09641^{+0.00075}_{-0.00079}$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0058}_{-0.0061}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2812.87; R - 1 = 0.03339$$

2.108 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02249^{+0.00035}_{-0.00035}$	S_8	$0.818^{+0.027}_{-0.025}$	$H(0.38)$	$83.28^{+0.76}_{-0.66}$
$\Omega_c h^2$	$0.1186^{+0.0023}_{-0.0024}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.015}_{-0.014}$	$D_M(0.38)$	1522^{+18}_{-20}
$100\theta_{MC}$	$1.04112^{+0.00076}_{-0.00077}$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.015}_{-0.014}$	$H(0.51)$	$89.95^{+0.62}_{-0.54}$
τ	$0.058^{+0.017}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.981^{+0.022}_{-0.021}$	$D_M(0.51)$	1973^{+21}_{-24}
$\ln(10^{10} A_s)$	$3.050^{+0.034}_{-0.032}$	$r_{\text{drag}} h$	$100.2^{+2.0}_{-1.7}$	$H(0.61)$	$95.53^{+0.53}_{-0.46}$
n_s	$0.968^{+0.011}_{-0.0098}$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.052}_{-0.051}$	$D_M(0.61)$	2296^{+23}_{-26}
y_{cal}	$1.0008^{+0.0061}_{-0.0063}$	z_{re}	< 9.57	$H(2.33)$	$235.8^{+1.4}_{-1.4}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.111^{+0.073}_{-0.066}$	$D_M(2.33)$	5752^{+23}_{-27}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.879^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{40}	1226^{+30}_{-30}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5747^{+96}_{-96}	$f\sigma_8(0.38)$	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2540^{+32}_{-34}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	819^{+11}_{-12}	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.011}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.011}_{-0.0098}$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0096}$
A_{100}^{dustTT}	$8.8^{+4.4}_{-4.7}$	Y_P	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	$0.24677^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2985^{+0.0056}_{-0.0050}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	$2.563^{+0.066}_{-0.063}$	$\sigma_8(2.33)$	$0.3079^{+0.0057}_{-0.0051}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.773^{+0.052}_{-0.060}$	f_{2000}^{143}	29^{+7}_{-8}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.091}$	z_*	$1089.65^{+0.54}_{-0.55}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.074}_{-0.076}$	r_*	$144.69^{+0.56}_{-0.54}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04129^{+0.00074}_{-0.00076}$	χ_{lensing}^2	$9.13 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	$13.896^{+0.052}_{-0.052}$	χ_{simall}^2	$397.6 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.22}$	z_{drag}	$1060.12^{+0.76}_{-0.76}$	χ_{lowl}^2	$22.98 (\nu: 0.3)$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.72}$	r_{drag}	$147.32^{+0.60}_{-0.56}$	χ_{plik}^2	$2360.5 (\nu: 17.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14072^{+0.00068}_{-0.00074}$	χ_{H073p45}^2	$10.8 (\nu: 1.3)$
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	$100\theta_D$	$0.16066^{+0.00046}_{-0.00046}$	$\chi_{6\text{DF}}^2$	$0.024 (\nu: 0.0)$
H_0	$68.0^{+1.2}_{-1.0}$	z_{eq}	3372^{+51}_{-51}	χ_{MGS}^2	$1.57 (\nu: 0.1)$
Ω_Λ	$0.693^{+0.015}_{-0.014}$	k_{eq}	$0.01029^{+0.00016}_{-0.00015}$	χ_{DR12BAO}^2	$4.04 (\nu: 0.3)$
Ω_m	$0.307^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	$0.819^{+0.010}_{-0.0097}$	χ_{prior}^2	$11.6 (\nu: 10.4)$
$\Omega_m h^2$	$0.1418^{+0.0022}_{-0.0021}$	$100\theta_{s,\text{eq}}$	$0.4524^{+0.0049}_{-0.0049}$	χ_{CMB}^2	$2790.1 (\nu: 18.0)$
$\Omega_m h^3$	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	$73.2^{+1.0}_{-0.88}$	χ_{BAO}^2	$5.64 (\nu: 0.2)$
σ_8	$0.809^{+0.016}_{-0.014}$	$D_M(0.15)$	$637.8^{+8.8}_{-10}$		

$$\bar{\chi}_{\text{eff}}^2 = 2818.15; R - 1 = 0.03902$$

2.109 base_plikHM_TTTEEE_lowl_lowE_lensing_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00036}_{-0.00036}$	σ_8	$0.811^{+0.015}_{-0.014}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0029}_{-0.0028}$	S_8	$0.829^{+0.032}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	642^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00079}_{-0.00082}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.017}_{-0.017}$	$H(0.38)$	$82.95^{+0.84}_{-0.81}$
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.38)$	1531^{+22}_{-23}
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.036}_{-0.028}$	$\sigma_8/h^{0.5}$	$0.987^{+0.022}_{-0.023}$	$H(0.51)$	$89.69^{+0.68}_{-0.65}$
n_{s}	$0.966^{+0.011}_{-0.011}$	$r_{\mathrm{drag}}h$	$99.3^{+2.3}_{-2.2}$	$D_{\mathrm{M}}(0.51)$	1983^{+26}_{-27}
y_{cal}	$1.0007^{+0.0063}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.444^{+0.054}_{-0.056}$	$H(0.61)$	$95.33^{+0.55}_{-0.53}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.40	$D_{\mathrm{M}}(0.61)$	2307^{+28}_{-29}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.105^{+0.077}_{-0.059}$	$H(2.33)$	$236.4^{+1.7}_{-1.7}$
A_{143}^{tSZ}	$5.4^{+4.6}_{-4.6}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.027}_{-0.026}$	$D_{\mathrm{M}}(2.33)$	5761^{+26}_{-25}
A_{100}^{PS}	259^{+70}_{-70}	D_{40}	1231^{+30}_{-31}	$f\sigma_8(0.15)$	$0.459^{+0.016}_{-0.016}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5737^{+100}_{-97}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+33}_{-33}	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.0098}$
A^{kSZ}	—	D_{2000}	$231.0^{+3.9}_{-4.0}$	$f\sigma_8(0.51)$	$0.475^{+0.011}_{-0.012}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.4}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0092}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.3}$	Y_{P}	$0.24540^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	$0.470^{+0.010}_{-0.010}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.3}_{-8.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0087}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.581^{+0.067}_{-0.065}$	$f\sigma_8(2.33)$	$0.2980^{+0.0057}_{-0.0044}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.092}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.793^{+0.058}_{-0.057}$	$\sigma_8(2.33)$	$0.3072^{+0.0060}_{-0.0047}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.073}_{-0.079}$	z_*	$1089.86^{+0.62}_{-0.63}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.23}$	r_*	$144.49^{+0.64}_{-0.65}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04113^{+0.00078}_{-0.00081}$	f_{2000}^{217}	$107.0^{+4.3}_{-4.9}$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.878^{+0.060}_{-0.061}$	$\chi_{\mathrm{lensing}}^2$	$9.16 (\nu: 0.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.71}$	z_{drag}	$1059.97^{+0.76}_{-0.77}$	χ_{simall}^2	$397.1 (\nu: 1.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.14^{+0.64}_{-0.66}$	χ_{lowl}^2	$23.42 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14083^{+0.00072}_{-0.00081}$	χ_{plik}^2	$2359.4 (\nu: 16.8)$
H_0	$67.5^{+1.3}_{-1.3}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00045}_{-0.00044}$	χ_{JLA}^2	$1035.25 (\nu: 0.1)$
Ω_{Λ}	$0.687^{+0.017}_{-0.018}$	z_{eq}	3396^{+65}_{-63}	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_{m}	$0.313^{+0.018}_{-0.017}$	k_{eq}	$0.01036^{+0.00020}_{-0.00019}$	χ_{CMB}^2	$2789.0 (\nu: 17.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0027}_{-0.0026}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.012}$		
$\Omega_{\mathrm{m}}h^3$	$0.09634^{+0.00075}_{-0.00084}$	$100\theta_{\mathrm{s,eq}}$	$0.4501^{+0.0063}_{-0.0062}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3835.82; R - 1 = 0.01272$$

2.110 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_JLA_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02250^{+0.00035}_{-0.00036}$	S_8	$0.818^{+0.027}_{-0.025}$	$H(0.38)$	$83.29^{+0.75}_{-0.66}$
$\Omega_c h^2$	$0.1186^{+0.0022}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.015}_{-0.014}$	$D_M(0.38)$	1522^{+18}_{-20}
$100\theta_{MC}$	$1.04112^{+0.00079}_{-0.00076}$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.015}_{-0.013}$	$H(0.51)$	$89.96^{+0.61}_{-0.54}$
τ	$0.058^{+0.017}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.981^{+0.022}_{-0.020}$	$D_M(0.51)$	1972^{+21}_{-23}
$\ln(10^{10} A_s)$	$3.050^{+0.034}_{-0.032}$	$r_{\text{drag}} h$	$100.2^{+2.0}_{-1.7}$	$H(0.61)$	$95.54^{+0.53}_{-0.46}$
n_s	$0.968^{+0.011}_{-0.0097}$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.052}_{-0.051}$	$D_M(0.61)$	2296^{+22}_{-25}
y_{cal}	$1.0008^{+0.0061}_{-0.0063}$	z_{re}	< 9.57	$H(2.33)$	$235.8^{+1.4}_{-1.3}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.111^{+0.073}_{-0.067}$	$D_M(2.33)$	5752^{+23}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.878^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{40}	1226^{+30}_{-30}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
A_{100}^{PS}	258^{+70}_{-80}	D_{220}	5747^{+96}_{-96}	$f\sigma_8(0.38)$	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2540^{+32}_{-34}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	819^{+11}_{-12}	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.0098}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.011}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.011}_{-0.0097}$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0094}$
A_{100}^{dustTT}	$8.8^{+4.4}_{-4.6}$	Y_P	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	$0.24677^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2985^{+0.0055}_{-0.0050}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	$2.563^{+0.066}_{-0.062}$	$\sigma_8(2.33)$	$0.3080^{+0.0058}_{-0.0052}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.772^{+0.052}_{-0.059}$	f_{2000}^{143}	29^{+7}_{-8}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.091}$	z_*	$1089.64^{+0.54}_{-0.54}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.074}_{-0.076}$	r_*	$144.70^{+0.55}_{-0.54}$	f_{2000}^{217}	$106.6^{+4.5}_{-4.8}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04130^{+0.00077}_{-0.00076}$	χ_{lensing}^2	$9.13 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	$13.896^{+0.052}_{-0.052}$	χ_{simall}^2	$397.6 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.22}$	z_{drag}	$1060.13^{+0.76}_{-0.77}$	χ_{lowl}^2	$22.96 (\nu: 0.3)$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.72}$	r_{drag}	$147.33^{+0.59}_{-0.56}$	χ_{plik}^2	$2360.5 (\nu: 18.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14071^{+0.00069}_{-0.00074}$	χ_{H073p45}^2	$10.7 (\nu: 1.2)$
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	$100\theta_D$	$0.16066^{+0.00046}_{-0.00046}$	χ_{JLA}^2	$706.64 (\nu: 0.0)$
H_0	$68.0^{+1.2}_{-1.0}$	z_{eq}	3371^{+51}_{-52}	$\chi_{6\text{DF}}^2$	$0.023 (\nu: 0.0)$
Ω_Λ	$0.694^{+0.015}_{-0.014}$	k_{eq}	$0.01029^{+0.00016}_{-0.00016}$	χ_{MGS}^2	$1.60 (\nu: 0.1)$
Ω_m	$0.306^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	$0.8194^{+0.0098}_{-0.0095}$	χ_{DR12BAO}^2	$4.00 (\nu: 0.3)$
$\Omega_m h^2$	$0.1417^{+0.0021}_{-0.0022}$	$100\theta_{s,\text{eq}}$	$0.4525^{+0.0051}_{-0.0049}$	χ_{prior}^2	$11.6 (\nu: 10.4)$
$\Omega_m h^3$	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	$73.3^{+1.0}_{-0.88}$	χ_{CMB}^2	$2790.2 (\nu: 18.1)$
σ_8	$0.809^{+0.017}_{-0.014}$	$D_M(0.15)$	$637.6^{+8.7}_{-9.8}$	χ_{BAO}^2	$5.62 (\nu: 0.2)$

$$\bar{\chi}_{\text{eff}}^2 = 3524.78; R - 1 = 0.04178$$

2.111 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00034}_{-0.00035}$	S_8	$0.824^{+0.026}_{-0.026}$	$H(0.38)$	$83.09^{+0.69}_{-0.66}$
$\Omega_c h^2$	$0.1192^{+0.0023}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.014}_{-0.014}$	$D_M(0.38)$	1527^{+18}_{-18}
$100\theta_{MC}$	$1.04103^{+0.00076}_{-0.00080}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.014}_{-0.014}$	$H(0.51)$	$89.80^{+0.56}_{-0.54}$
τ	$0.057^{+0.018}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.021}$	$D_M(0.51)$	1979^{+21}_{-22}
$\ln(10^{10} A_s)$	$3.048^{+0.035}_{-0.030}$	$r_{\text{drag}} h$	$99.7^{+1.8}_{-1.8}$	$H(0.61)$	$95.41^{+0.47}_{-0.46}$
n_s	$0.9668^{+0.0096}_{-0.0096}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.053}_{-0.052}$	$D_M(0.61)$	2303^{+23}_{-24}
y_{cal}	$1.0008^{+0.0062}_{-0.0061}$	z_{re}	< 9.50	$H(2.33)$	$236.1^{+1.4}_{-1.4}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.107^{+0.076}_{-0.062}$	$D_M(2.33)$	5758^{+23}_{-22}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.881^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014}$
A_{143}^{tSZ}	> 0.817	D_{40}	1229^{+29}_{-30}	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.013}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5741^{+100}_{-98}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.011}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+33}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+11}_{-12}	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.2^{+3.7}_{-4.0}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0098}$
A^{kSZ}	—	$n_{s,0.002}$	$0.9668^{+0.0096}_{-0.0096}$	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.0097}$
A_{100}^{dustTT}	$8.9^{+4.4}_{-4.7}$	Y_P	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0092}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.3}$	Y_P^{BBN}	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2982^{+0.0057}_{-0.0047}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	$2.575^{+0.066}_{-0.061}$	$\sigma_8(2.33)$	$0.3075^{+0.0059}_{-0.0049}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.785^{+0.053}_{-0.049}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.092}$	z_*	$1089.77^{+0.53}_{-0.54}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.073}_{-0.076}$	r_*	$144.59^{+0.55}_{-0.54}$	f_{2000}^{217}	$106.9^{+4.4}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04120^{+0.00074}_{-0.00078}$	χ_{lensing}^2	$9.07 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.887^{+0.054}_{-0.052}$	χ_{simall}^2	$397.2 (\nu: 1.8)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	z_{drag}	$1060.02^{+0.75}_{-0.78}$	χ_{lowl}^2	$23.21 (\nu: 0.3)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.72}$	r_{drag}	$147.23^{+0.57}_{-0.56}$	χ_{plik}^2	$2359.6 (\nu: 16.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14076^{+0.00069}_{-0.00075}$	χ_{JLA}^2	$1035.05 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	$0.16072^{+0.00044}_{-0.00043}$	$\chi_{6\text{DF}}^2$	$0.045 (\nu: 0.0)$
H_0	$67.7^{+1.1}_{-1.0}$	z_{eq}	3385^{+51}_{-51}	χ_{MGS}^2	$1.30 (\nu: 0.1)$
Ω_Λ	$0.690^{+0.014}_{-0.014}$	k_{eq}	$0.01033^{+0.00016}_{-0.00016}$	χ_{DR12BAO}^2	$4.6 (\nu: 0.7)$
Ω_m	$0.310^{+0.014}_{-0.014}$	$100\theta_{\text{eq}}$	$0.8167^{+0.0096}_{-0.0095}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
$\Omega_m h^2$	$0.1423^{+0.0022}_{-0.0022}$	$100\theta_{s,\text{eq}}$	$0.4511^{+0.0050}_{-0.0049}$	χ_{CMB}^2	$2789.2 (\nu: 17.0)$
$\Omega_m h^3$	$0.09635^{+0.00074}_{-0.00081}$	$H(0.15)$	$72.99^{+0.93}_{-0.89}$	χ_{BAO}^2	$5.98 (\nu: 0.4)$
σ_8	$0.810^{+0.016}_{-0.014}$	$D_M(0.15)$	$640.3^{+8.9}_{-9.0}$		

$$\bar{\chi}_{\text{eff}}^2 = 3841.74; R - 1 = 0.01810$$

2.112 base_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02250^{+0.00035}_{-0.00035}$	S_8	$0.817^{+0.026}_{-0.024}$	$H(0.38)$	$83.29^{+0.74}_{-0.65}$
$\Omega_c h^2$	$0.1186^{+0.0022}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.014}_{-0.013}$	$D_M(0.38)$	1522^{+17}_{-20}
$100\theta_{MC}$	$1.04113^{+0.00079}_{-0.00077}$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.015}_{-0.013}$	$H(0.51)$	$89.96^{+0.60}_{-0.53}$
τ	$0.058^{+0.017}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.981^{+0.022}_{-0.020}$	$D_M(0.51)$	1972^{+20}_{-23}
$\ln(10^{10} A_s)$	$3.050^{+0.034}_{-0.032}$	$r_{\text{drag}} h$	$100.2^{+1.9}_{-1.7}$	$H(0.61)$	$95.54^{+0.52}_{-0.46}$
n_s	$0.968^{+0.011}_{-0.0095}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.051}_{-0.050}$	$D_M(0.61)$	2296^{+22}_{-25}
y_{cal}	$1.0008^{+0.0060}_{-0.0063}$	z_{re}	< 9.57	$H(2.33)$	$235.8^{+1.4}_{-1.3}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.111^{+0.073}_{-0.067}$	$D_M(2.33)$	5752^{+22}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.878^{+0.026}_{-0.028}$	$f\sigma_8(0.15)$	$0.453^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{40}	1226^{+30}_{-30}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
A_{100}^{PS}	258^{+70}_{-80}	D_{220}	5747^{+98}_{-96}	$f\sigma_8(0.38)$	$0.472^{+0.012}_{-0.011}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2540^{+32}_{-34}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	819^{+11}_{-12}	$f\sigma_8(0.51)$	$0.471^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+3.6}_{-4.0}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.011}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.011}_{-0.0095}$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0094}$
A_{100}^{dustTT}	$8.8^{+4.4}_{-4.6}$	Y_P	$0.24544^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.2}$	Y_P^{BBN}	$0.24677^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2985^{+0.0055}_{-0.0050}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.6}$	$10^5 D/H$	$2.562^{+0.066}_{-0.062}$	$\sigma_8(2.33)$	$0.3080^{+0.0058}_{-0.0052}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.772^{+0.051}_{-0.059}$	f_{2000}^{143}	29^{+7}_{-8}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.091}$	z_*	$1089.63^{+0.54}_{-0.54}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.074}_{-0.076}$	r_*	$144.71^{+0.54}_{-0.53}$	f_{2000}^{217}	$106.6^{+4.5}_{-4.8}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04130^{+0.00077}_{-0.00076}$	χ_{lensing}^2	$9.13 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	$13.897^{+0.051}_{-0.051}$	χ_{simall}^2	$397.6 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.22}$	z_{drag}	$1060.13^{+0.76}_{-0.77}$	χ_{lowl}^2	$22.95 (\nu: 0.3)$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.72}$	r_{drag}	$147.33^{+0.59}_{-0.55}$	χ_{plik}^2	$2360.6 (\nu: 18.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14071^{+0.00069}_{-0.00074}$	χ_{H073p45}^2	$10.7 (\nu: 1.2)$
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	$100\theta_D$	$0.16066^{+0.00047}_{-0.00046}$	χ_{JLA}^2	$1034.89 (\nu: 0.0)$
H_0	$68.0^{+1.2}_{-1.0}$	z_{eq}	3371^{+50}_{-52}	$\chi_{6\text{DF}}^2$	$0.022 (\nu: 0.0)$
Ω_Λ	$0.694^{+0.014}_{-0.013}$	k_{eq}	$0.01029^{+0.00015}_{-0.00016}$	χ_{MGS}^2	$1.60 (\nu: 0.1)$
Ω_m	$0.306^{+0.013}_{-0.014}$	$100\theta_{\text{eq}}$	$0.8195^{+0.0097}_{-0.0093}$	χ_{DR12BAO}^2	$3.97 (\nu: 0.3)$
$\Omega_m h^2$	$0.1417^{+0.0021}_{-0.0022}$	$100\theta_{s,\text{eq}}$	$0.4525^{+0.0051}_{-0.0048}$	χ_{prior}^2	$11.6 (\nu: 10.4)$
$\Omega_m h^3$	$0.09641^{+0.00075}_{-0.00078}$	$H(0.15)$	$73.3^{+1.0}_{-0.87}$	χ_{CMB}^2	$2790.2 (\nu: 18.1)$
σ_8	$0.809^{+0.017}_{-0.014}$	$D_M(0.15)$	$637.6^{+8.6}_{-9.7}$	χ_{BAO}^2	$5.60 (\nu: 0.1)$

$$\bar{\chi}_{\text{eff}}^2 = 3853.01; R - 1 = 0.04302$$

2.113 base_CamSpecHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02213	$0.02215^{+0.00052}_{-0.00052}$ (+0.0 σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6087	$0.609^{+0.020}_{-0.020}$ (+0.0 σ)	$D_{\mathrm{M}}(0.15)$	646.2	646^{+16}_{-15} (−0.0 σ)
$\Omega_{\mathrm{c}}h^2$	0.12025	$0.1203^{+0.0041}_{-0.0039}$ (+0.0 σ)	$\sigma_8/h^{0.5}$	0.9897	$0.990^{+0.027}_{-0.028}$ (+0.0 σ)	$H(0.38)$	82.61	$82.6^{+1.2}_{-1.1}$ (+0.0 σ)
$100\theta_{\mathrm{MC}}$	1.04085	$1.0408^{+0.0012}_{-0.0011}$ (+0.1 σ)	$r_{\mathrm{drag}}h$	98.75	$98.8^{+3.1}_{-3.1}$ (−0.0 σ)	$D_{\mathrm{M}}(0.38)$	1539.4	1539^{+31}_{-31} (−0.0 σ)
τ	0.0525	$0.053^{+0.021}_{-0.021}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.446	$2.446^{+0.065}_{-0.065}$ (−0.0 σ)	$H(0.51)$	89.39	$89.41^{+0.94}_{-0.89}$ (+0.0 σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0388	$3.039^{+0.040}_{-0.039}$ (−0.0 σ)	z_{re}	7.55	$7.5^{+2.0}_{-2.2}$ (+0.0 σ)	$D_{\mathrm{M}}(0.51)$	1993.1	1993^{+37}_{-36} (−0.0 σ)
n_{s}	0.9638	$0.964^{+0.012}_{-0.012}$ (+0.1 σ)	$10^9 A_{\mathrm{s}}$	2.088	$2.090^{+0.086}_{-0.081}$ (−0.0 σ)	$H(0.61)$	95.06	$95.08^{+0.78}_{-0.73}$ (+0.0 σ)
y_{cal}	1.0004	$1.0004^{+0.0065}_{-0.0064}$ (−0.0 σ)	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8799	$1.880^{+0.030}_{-0.029}$ (−0.2 σ)	$D_{\mathrm{M}}(0.61)$	2318.4	2318^{+39}_{-39} (−0.0 σ)
A_{100}^{PS}	242	243^{+60}_{-60} (−0.7 σ)	D_{40}	1228.9	1229^{+34}_{-32} (−0.2 σ)	$H(2.33)$	236.48	$236.5^{+2.5}_{-2.4}$ (+0.1 σ)
A_{143}^{PS}	39.7	41^{+20}_{-20} (−1.0 σ)	D_{220}	5704	5706^{+110}_{-100} (−0.2 σ)	$D_{\mathrm{M}}(2.33)$	5775.5	5775^{+36}_{-36} (−0.1 σ)
A_{217}^{PS}	99.6	101^{+30}_{-30} (−1.3 σ)	D_{810}	2532.9	2533^{+35}_{-34} (−0.2 σ)	$f\sigma_8(0.15)$	0.4612	$0.461^{+0.021}_{-0.021}$ (+0.0 σ)
A_{217}^{CIB}	44.4	41^{+20}_{-20} (−1.1 σ)	D_{1420}	813.7	814^{+13}_{-13} (−0.1 σ)	$\sigma_8(0.15)$	0.7482	$0.748^{+0.015}_{-0.015}$ (+0.0 σ)
A_{143}^{tSZ}	5.12	< 8.82 (−0.6 σ)	D_{2000}	229.35	$229.5^{+4.6}_{-4.6}$ (−0.1 σ)	$f\sigma_8(0.38)$	0.4780	$0.478^{+0.016}_{-0.017}$ (+0.0 σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.571	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	0.9638	$0.964^{+0.012}_{-0.012}$ (+0.1 σ)	$\sigma_8(0.38)$	0.6625	$0.663^{+0.013}_{-0.013}$ (+0.0 σ)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.71	—	Y_{P}	0.245296	$0.24530^{+0.00020}_{-0.00025}$ (+0.0 σ)	$f\sigma_8(0.51)$	0.4758	$0.476^{+0.014}_{-0.014}$ (+0.0 σ)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.06	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246622	$0.24663^{+0.00020}_{-0.00025}$ (+0.0 σ)	$\sigma_8(0.51)$	0.6197	$0.620^{+0.012}_{-0.012}$ (+0.0 σ)
A^{kSZ}	2.5	—	$10^5 \mathrm{D}/\mathrm{H}$	2.632	$2.63^{+0.10}_{-0.095}$ (−0.0 σ)	$f\sigma_8(0.61)$	0.4703	$0.470^{+0.012}_{-0.013}$ (+0.0 σ)
A_{100}^{dust}	1.01	$1.01^{+0.52}_{-0.50}$	Age/Gyr	13.825	$13.823^{+0.081}_{-0.082}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5895	$0.590^{+0.012}_{-0.011}$ (+0.0 σ)
A_{143}^{dust}	0.989	$0.98^{+0.46}_{-0.45}$	z_*	1090.25	$1090.23^{+0.89}_{-0.87}$ (−0.0 σ)	$f\sigma_8(2.33)$	0.2969	$0.2970^{+0.0063}_{-0.0060}$ (+0.0 σ)
A_{217}^{dust}	0.962	$0.97^{+0.26}_{-0.26}$	r_*	144.55	$144.54^{+0.93}_{-0.93}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3058	$0.3059^{+0.0069}_{-0.0066}$ (+0.0 σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.008	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	1.04106	$1.0411^{+0.0011}_{-0.0011}$ (+0.1 σ)	f_{2000}^{143}	31.4	31^{+8}_{-8} (−0.1 σ)
c_{100}	0.99746	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.885	$13.884^{+0.087}_{-0.087}$ (−0.1 σ)	f_{2000}^{217}	107.8	$107.6^{+5.3}_{-5.2}$ (−0.3 σ)
c_{217}	1.00134	$1.0012^{+0.0041}_{-0.0040}$ (+4.7 σ)	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-6} (−0.3 σ)
H_0	67.04	$67.1^{+1.8}_{-1.8}$ (+0.0 σ)	r_{drag}	147.29	$147.27^{+0.96}_{-0.95}$ (−0.1 σ)	$\chi_{\mathrm{lensing}}^2$	8.91	9.52 (ν : 0.4) (+0.1 σ)
Ω_{Λ}	0.6818	$0.682^{+0.024}_{-0.026}$ (−0.0 σ)	k_{D}	0.14047	$0.1405^{+0.0011}_{-0.0011}$ (+0.1 σ)	χ_{simall}^2	395.87	396.9 (ν : 1.3) (−0.0 σ)
Ω_{m}	0.3182	$0.318^{+0.026}_{-0.024}$ (+0.0 σ)	$100\theta_{\mathrm{D}}$	0.16108	$0.16105^{+0.00067}_{-0.00063}$ (−0.0 σ)	χ_{lowl}^2	23.42	23.5 (ν : 0.5) (−0.2 σ)
$\Omega_{\mathrm{m}}h^2$	0.14303	$0.1431^{+0.0039}_{-0.0037}$ (+0.1 σ)	z_{eq}	3403	3403^{+92}_{-89} (+0.1 σ)	$\chi_{\mathrm{CamSpec}}^2$	7050.2	7062.7 (ν : 13.0)
$\Omega_{\mathrm{m}}h^3$	0.09589	$0.0959^{+0.0011}_{-0.0011}$ (+0.1 σ)	k_{eq}	0.010385	$0.01039^{+0.00028}_{-0.00027}$ (+0.1 σ)	χ_{prior}^2	2.3	7.6 (ν : 6.0) (+0.1 σ)
σ_8	0.8104	$0.811^{+0.017}_{-0.016}$ (+0.0 σ)	$100\theta_{\mathrm{eq}}$	0.8125	$0.813^{+0.017}_{-0.017}$ (−0.0 σ)	χ_{CMB}^2	7478.4	7492.6 (ν : 14.3) (+1151.2 σ)
S_8	0.8346	$0.835^{+0.042}_{-0.041}$ (+0.0 σ)	$100\theta_{\mathrm{s,eq}}$	0.4492	$0.4491^{+0.0087}_{-0.0087}$ (−0.0 σ)			
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4571	$0.457^{+0.023}_{-0.023}$ (+0.0 σ)	$H(0.15)$	72.39	$72.4^{+1.6}_{-1.5}$ (+0.0 σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 7480.67$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.11$; $\bar{\chi}_{\mathrm{eff}}^2 = 7500.24$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.83$; $R - 1 = 0.00500$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.91 (Δ 0.01) simall_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ 0.01) commander_dx12_v3_2_29: 23.42 (Δ 0.19) CamSpec like_10.7HM: 7050.18

2.114 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00047}_{-0.00048} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$D_M(0.38)$	$1530^{+22}_{-22} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1191^{+0.0029}_{-0.0027} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.1}_{-2.2} \quad (+0.0\sigma)$	$H(0.51)$	$89.65^{+0.69}_{-0.69} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.056}_{-0.055} \quad (-0.1\sigma)$	$D_M(0.51)$	$1983^{+26}_{-25} \quad (-0.1\sigma)$
τ	$0.055^{+0.020}_{-0.019} \quad (+0.0\sigma)$	z_{re}	$7.8^{+1.9}_{-2.0} \quad (+0.0\sigma)$	$H(0.61)$	$95.26^{+0.60}_{-0.59} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.043^{+0.038}_{-0.038} \quad (-0.1\sigma)$	$10^9 A_s$	$2.097^{+0.082}_{-0.079} \quad (-0.0\sigma)$	$D_M(0.61)$	$2307^{+28}_{-28} \quad (-0.1\sigma)$
n_s	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.877^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.8}_{-1.7} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0061} \quad (-0.0\sigma)$	D_{40}	$1225^{+31}_{-31} \quad (-0.3\sigma)$	$D_M(2.33)$	$5767^{+30}_{-30} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.9^{+4.4}_{-4.5} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	$n_{s,0.002}$	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_{P}	$0.24533^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.614^{+0.093}_{-0.087} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.806^{+0.069}_{-0.069} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0061}_{-0.0059} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.51}$	z_*	$1090.03^{+0.72}_{-0.71} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3068^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.44}$	r_*	$144.77^{+0.71}_{-0.73} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.2}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	$13.903^{+0.071}_{-0.072} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.0}_{-1.1} \quad (+0.1\sigma)$	χ_{lensing}^2	$9.39 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0038} \quad (+4.6\sigma)$	r_{drag}	$147.48^{+0.80}_{-0.80} \quad (-0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.8) \quad (+0.0\sigma)$
H_0	$67.6^{+1.3}_{-1.3} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.04 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_Λ	$0.689^{+0.016}_{-0.017} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	$0.16101^{+0.00066}_{-0.00060} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$7063.1 \quad (\nu: 13.4)$
Ω_{m}	$0.311^{+0.017}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	$3378^{+66}_{-62} \quad (+0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.059 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0028}_{-0.0026} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00019} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.28 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$4.8 \quad (\nu: 1.2) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.016}_{-0.016} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.4516^{+0.0060}_{-0.0062} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
S_8	$0.824^{+0.032}_{-0.030} \quad (-0.0\sigma)$	$H(0.15)$	$72.8^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{CMB}^2	$7492.7 \quad (\nu: 14.3) \quad (+1160.4\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_M(0.15)$	$642^{+11}_{-11} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (-0.0\sigma)$	$H(0.38)$	$82.94^{+0.83}_{-0.83} \quad (+0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7506.48$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6291.75$; $R - 1 = 0.00781$

2.115 base_CamSpecHM_TT_lowl_lowE_lensing_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02233^{+0.00047}_{-0.00051} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.019}_{-0.020} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	$637^{+15}_{-17} \quad (-0.0\sigma)$
$\Omega_{\text{c}} h^2$	$0.1182^{+0.0038}_{-0.0046} \quad (+0.0\sigma)$	$\sigma_8 / h^{0.5}$	$0.979^{+0.027}_{-0.030} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+1.3}_{-1.1} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$100.5^{+3.9}_{-3.0} \quad (+0.0\sigma)$	$D_{\text{M}}(0.38)$	$1522^{+30}_{-35} \quad (-0.0\sigma)$
τ	$0.058^{+0.024}_{-0.020} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.063}_{-0.071} \quad (-0.1\sigma)$	$H(0.51)$	$89.9^{+1.0}_{-0.88} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.038}_{-0.039} \quad (-0.1\sigma)$	z_{re}	$8.0^{+2.2}_{-2.0} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1972^{+35}_{-41} \quad (-0.0\sigma)$
n_{s}	$0.969^{+0.016}_{-0.012} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.106^{+0.081}_{-0.080} \quad (-0.1\sigma)$	$H(0.61)$	$95.48^{+0.77}_{-0.73} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0059} \quad (-0.1\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.873^{+0.030}_{-0.036} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2296^{+37}_{-44} \quad (-0.0\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{40}	$1221^{+32}_{-38} \quad (-0.3\sigma)$	$H(2.33)$	$235.3^{+2.3}_{-2.8} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5724^{+99}_{-100} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5757^{+35}_{-31} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.020}_{-0.023} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+11}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.7\sigma)$	D_{2000}	$230.5^{+3.9}_{-4.6} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.017} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\text{s},0.002}$	$0.969^{+0.016}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24538^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.014}_{-0.015} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.012} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.593^{+0.098}_{-0.086} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.012}_{-0.014} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.52}_{-0.50}$	Age/Gyr	$13.785^{+0.079}_{-0.070} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.43}_{-0.44}$	z_*	$1089.81^{+0.84}_{-0.70} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2982^{+0.0059}_{-0.0059} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.9^{+1.1}_{-0.91} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3077^{+0.0072}_{-0.0064} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.43}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0030}_{-0.0028} \quad (-3.3\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.918^{+0.096}_{-0.085} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.2}_{-4.9} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0037} \quad (+4.8\sigma)$	z_{drag}	$1059.7^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$68.1^{+2.1}_{-1.7} \quad (+0.0\sigma)$	r_{drag}	$147.6^{+1.1}_{-0.94} \quad (-0.1\sigma)$	χ_{lensing}^2	$9.8 \quad (\nu: 1.0) \quad (+0.3\sigma)$
Ω_{Λ}	$0.695^{+0.027}_{-0.023} \quad (+0.0\sigma)$	k_{D}	$0.1403^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	χ_{small}^2	$397.8 \quad (\nu: 3.4) \quad (+0.0\sigma)$
Ω_{m}	$0.305^{+0.023}_{-0.027} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.16092^{+0.00065}_{-0.00056} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.68 \quad (\nu: 0.4) \quad (-0.2\sigma)$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0036}_{-0.0045} \quad (+0.0\sigma)$	z_{eq}	$3357^{+87}_{-110} \quad (+0.0\sigma)$	χ_{CamSpec}^2	$7064.4 \quad (\nu: 15.2)$
$\Omega_{\text{m}} h^3$	$0.0961^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	k_{eq}	$0.01025^{+0.00027}_{-0.00033} \quad (+0.0\sigma)$	χ_{H073p45}^2	$10.7 \quad (\nu: 3.6) \quad (-0.0\sigma)$
σ_8	$0.808^{+0.017}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.822^{+0.021}_{-0.016} \quad (-0.0\sigma)$	χ_{prior}^2	$7.4 \quad (\nu: 5.9) \quad (+0.0\sigma)$
S_8	$0.814^{+0.040}_{-0.045} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.454^{+0.011}_{-0.0084} \quad (-0.0\sigma)$	χ_{CMB}^2	$7494.8 \quad (\nu: 19.7) \quad (+1063.2\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.022}_{-0.025} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+1.8}_{-1.5} \quad (+0.0\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7512.86$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6291.69$; $R - 1 = 0.03322$

2.116 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00048}_{-0.00048} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.024}_{-0.024} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+21}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0027}_{-0.0025} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.4^{+1.9}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.90^{+0.63}_{-0.67} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04119^{+0.00093}_{-0.0010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.054}_{-0.054} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1973^{+25}_{-23} \quad (-0.1\sigma)$
τ	$0.058^{+0.020}_{-0.019} \quad (+0.0\sigma)$	z_{re}	$8.0^{+1.9}_{-1.9} \quad (+0.0\sigma)$	$H(0.61)$	$95.46^{+0.54}_{-0.58} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.040}_{-0.038} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.086}_{-0.078} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2297^{+27}_{-25} \quad (-0.1\sigma)$
n_{s}	$0.969^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(2.33)$	$235.4^{+1.8}_{-1.7} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0060} \quad (-0.1\sigma)$	D_{40}	$1222^{+30}_{-30} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+29}_{-26} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5725^{+98}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+34}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$817^{+11}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.5^{+3.9}_{-4.4} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	Y_{P}	$0.24538^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.012} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.593^{+0.092}_{-0.086} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.011} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.067}_{-0.060} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2982^{+0.0060}_{-0.0057} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.52}_{-0.50}$	z_*	$1089.81^{+0.71}_{-0.64} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3077^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	r_*	$144.92^{+0.68}_{-0.73} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.04138^{+0.00093}_{-0.0010} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.2}_{-5.0} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.917^{+0.067}_{-0.073} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0028} \quad (-3.3\sigma)$	z_{drag}	$1059.7^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.6 \quad (\nu: 0.6) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.61^{+0.78}_{-0.78} \quad (-0.1\sigma)$	χ_{small}^2	$397.7 \quad (\nu: 2.6) \quad (+0.0\sigma)$
H_0	$68.0^{+1.2}_{-1.2} \quad (+0.0\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0010} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.69 \quad (\nu: 0.3) \quad (-0.2\sigma)$
Ω_{Λ}	$0.695^{+0.014}_{-0.016} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00065}_{-0.00059} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.2 \quad (\nu: 14.4)$
Ω_{m}	$0.305^{+0.016}_{-0.014} \quad (-0.0\sigma)$	z_{eq}	$3359^{+65}_{-60} \quad (+0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.7 \quad (\nu: 1.7) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0027}_{-0.0025} \quad (+0.0\sigma)$	k_{eq}	$0.01025^{+0.00020}_{-0.00018} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.027 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.011}_{-0.012} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.73 \quad (\nu: 0.1) \quad (+0.0\sigma)$
σ_8	$0.808^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4536^{+0.0058}_{-0.0061} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.91 \quad (\nu: 0.3) \quad (-0.1\sigma)$
S_8	$0.815^{+0.030}_{-0.031} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+1.0}_{-1.1} \quad (+0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 6.0) \quad (+0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$638^{+10}_{-9.7} \quad (-0.0\sigma)$	χ_{CMB}^2	$7494.2 \quad (\nu: 15.8) \quad (+1131.4\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.25^{+0.76}_{-0.80} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.67 \quad (\nu: 0.2) \quad (-0.1\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7518.00$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.55$; $R - 1 = 0.02714$

2.117 base_CamSpecHM_TT_lowl_lowE_lensing_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02218^{+0.00050}_{-0.00052}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6073	$0.607^{+0.019}_{-0.019}$ (+0.0 σ)	$D_M(0.15)$	644.4	644^{+14}_{-14} (−0.0 σ)
$\Omega_c h^2$	0.11983	$0.1198^{+0.0036}_{-0.0035}$ (+0.0 σ)	$\sigma_8/h^{0.5}$	0.9882	$0.987^{+0.025}_{-0.026}$ (−0.0 σ)	$H(0.38)$	82.74	$82.8^{+1.1}_{-1.0}$ (+0.0 σ)
$100\theta_{MC}$	1.04091	$1.0409^{+0.0011}_{-0.0011}$ (+0.1 σ)	$r_{drag}h$	99.09	$99.1^{+2.9}_{-2.8}$ (−0.0 σ)	$D_M(0.38)$	1535.9	1535^{+29}_{-28} (−0.0 σ)
τ	0.0541	$0.054^{+0.021}_{-0.020}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.442	$2.441^{+0.062}_{-0.062}$ (−0.1 σ)	$H(0.51)$	89.49	$89.51^{+0.88}_{-0.84}$ (+0.0 σ)
$\ln(10^{10} A_s)$	3.0416	$3.041^{+0.040}_{-0.038}$ (−0.0 σ)	z_{re}	7.70	$7.7^{+2.0}_{-2.1}$ (+0.0 σ)	$D_M(0.51)$	1989.0	1988^{+34}_{-34} (−0.0 σ)
n_s	0.9650	$0.965^{+0.012}_{-0.012}$ (+0.1 σ)	$10^9 A_s$	2.094	$2.093^{+0.084}_{-0.079}$ (−0.0 σ)	$H(0.61)$	95.14	$95.16^{+0.73}_{-0.70}$ (+0.1 σ)
y_{cal}	1.0006	$1.0005^{+0.0065}_{-0.0063}$ (−0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8792	$1.879^{+0.030}_{-0.028}$ (−0.2 σ)	$D_M(0.61)$	2314.0	2313^{+37}_{-36} (−0.0 σ)
A_{100}^{PS}	240	243^{+60}_{-60} (−0.7 σ)	D_{40}	1227.5	1228^{+32}_{-32} (−0.2 σ)	$H(2.33)$	236.25	$236.2^{+2.2}_{-2.2}$ (+0.1 σ)
A_{143}^{PS}	40.1	41^{+20}_{-20} (−1.0 σ)	D_{220}	5709	5710^{+100}_{-100} (−0.2 σ)	$D_M(2.33)$	5771.9	5771^{+34}_{-35} (−0.1 σ)
A_{217}^{PS}	100.0	101^{+30}_{-30} (−1.3 σ)	D_{810}	2534.1	2534^{+35}_{-34} (−0.2 σ)	$f\sigma_8(0.15)$	0.4594	$0.459^{+0.020}_{-0.020}$ (+0.0 σ)
A_{217}^{CIB}	45.1	41^{+20}_{-20} (−1.0 σ)	D_{1420}	814.6	815^{+13}_{-13} (−0.1 σ)	$\sigma_8(0.15)$	0.7484	$0.748^{+0.015}_{-0.015}$ (+0.0 σ)
A_{143}^{tSZ}	5.90	< 8.81 (−0.7 σ)	D_{2000}	229.69	$229.7^{+4.6}_{-4.6}$ (−0.1 σ)	$f\sigma_8(0.38)$	0.4769	$0.476^{+0.015}_{-0.016}$ (+0.0 σ)
$r_{143 \times 217}^{PS}$	0.569	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	0.9650	$0.965^{+0.012}_{-0.012}$ (+0.1 σ)	$\sigma_8(0.38)$	0.6630	$0.663^{+0.013}_{-0.013}$ (+0.0 σ)
$r_{143 \times 217}^{CIB}$	0.78	—	Y_P	0.245314	$0.24532^{+0.00019}_{-0.00025}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4750	$0.475^{+0.013}_{-0.014}$ (+0.0 σ)
$\xi^{tSZ \times CIB}$	0.07	—	Y_P^{BBN}	0.246640	$0.24664^{+0.00019}_{-0.00025}$ (+0.1 σ)	$\sigma_8(0.51)$	0.6203	$0.620^{+0.012}_{-0.012}$ (+0.0 σ)
A^{kSZ}	1.3	—	$10^5 D/H$	2.624	$2.62^{+0.10}_{-0.091}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.4697	$0.469^{+0.012}_{-0.012}$ (+0.0 σ)
A_{100}^{dust}	1.01	$1.01^{+0.53}_{-0.51}$	Age/Gyr	13.817	$13.815^{+0.078}_{-0.079}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5901	$0.590^{+0.012}_{-0.011}$ (+0.0 σ)
A_{143}^{dust}	0.991	$0.98^{+0.45}_{-0.45}$	z_*	1090.16	$1090.14^{+0.84}_{-0.82}$ (−0.0 σ)	$f\sigma_8(2.33)$	0.2974	$0.2973^{+0.0063}_{-0.0059}$ (+0.0 σ)
A_{217}^{dust}	0.967	$0.97^{+0.26}_{-0.26}$	r_*	144.63	$144.63^{+0.87}_{-0.87}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3064	$0.3063^{+0.0068}_{-0.0064}$ (+0.0 σ)
$A_{143 \times 217}^{dust}$	1.000	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	1.04112	$1.0411^{+0.0011}_{-0.0011}$ (+0.1 σ)	f_{2000}^{143}	31.1	31^{+8}_{-7} (−0.1 σ)
c_{100}	0.99756	$0.9975^{+0.0028}_{-0.0028}$ (−3.4 σ)	$D_M(z_*)/\text{Gpc}$	13.892	$13.892^{+0.082}_{-0.082}$ (−0.1 σ)	f_{2000}^{217}	107.6	$107.5^{+5.2}_{-5.2}$ (−0.3 σ)
c_{217}	1.00139	$1.0012^{+0.0040}_{-0.0038}$ (+4.7 σ)	z_{drag}	1059.47	$1059.5^{+1.1}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-6} (−0.3 σ)
H_0	67.24	$67.3^{+1.7}_{-1.6}$ (+0.0 σ)	r_{drag}	147.36	$147.36^{+0.93}_{-0.91}$ (−0.1 σ)	$\chi^2_{lensing}$	8.88	9.45 (ν : 0.3) (+0.1 σ)
Ω_Λ	0.6845	$0.685^{+0.022}_{-0.023}$ (−0.0 σ)	k_D	0.14043	$0.1404^{+0.0011}_{-0.0011}$ (+0.1 σ)	χ^2_{small}	396.05	397.0 (ν : 1.5) (+0.0 σ)
Ω_m	0.3155	$0.315^{+0.023}_{-0.022}$ (+0.0 σ)	$100\theta_D$	0.16104	$0.16103^{+0.00067}_{-0.00062}$ (−0.0 σ)	χ^2_{lowl}	23.24	23.30 (ν : 0.5) (−0.2 σ)
$\Omega_m h^2$	0.14265	$0.1426^{+0.0035}_{-0.0034}$ (+0.0 σ)	z_{eq}	3393	3392^{+83}_{-80} (+0.0 σ)	$\chi^2_{CamSpec}$	7050.4	7062.8 (ν : 13.3)
$\Omega_m h^3$	0.09592	$0.0959^{+0.0011}_{-0.0011}$ (+0.1 σ)	k_{eq}	0.010357	$0.01035^{+0.00025}_{-0.00024}$ (+0.0 σ)	χ^2_{JLA}	1035.29	1035.43 (ν : 0.2) (+0.0 σ)
σ_8	0.8104	$0.810^{+0.016}_{-0.016}$ (+0.0 σ)	$100\theta_{eq}$	0.8143	$0.815^{+0.015}_{-0.015}$ (−0.0 σ)	χ^2_{prior}	2.2	7.6 (ν : 6.0) (+0.1 σ)
S_8	0.8310	$0.830^{+0.039}_{-0.038}$ (+0.0 σ)	$100\theta_{s,eq}$	0.4501	$0.4502^{+0.0080}_{-0.0079}$ (−0.0 σ)	χ^2_{CMB}	7478.5	7492.6 (ν : 14.3) (+1157.8 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4552	$0.455^{+0.021}_{-0.021}$ (+0.0 σ)	$H(0.15)$	72.56	$72.6^{+1.4}_{-1.4}$ (+0.0 σ)			

Best-fit $\chi^2_{eff} = 8516.03$; $\Delta\chi^2_{eff} = 6292.15$; $\bar{\chi}^2_{eff} = 8535.63$; $\Delta\bar{\chi}^2_{eff} = 6291.83$; $R - 1 = 0.00582$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.88 (Δ 0.04) small_100x143_offlike5_EE_Aplanck_B: 396.05 (Δ 0.18) commander_dx12_v3_2_29: 23.24 (Δ 0.01) CamSpec like_10.7HM: 7050.35 SN - JLA Pantheon18: 1035.29 (Δ 0.03)

2.118 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_JLA_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00047}_{-0.00046} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+1.9}_{-2.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+25}_{-22} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0027}_{-0.0024} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.056}_{-0.056} \quad (-0.2\sigma)$	$H(0.61)$	$95.48^{+0.53}_{-0.58} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04120^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	z_{re}	$8.0^{+1.9}_{-2.0} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+27}_{-24} \quad (-0.1\sigma)$
τ	$0.058^{+0.020}_{-0.019} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.087}_{-0.080} \quad (-0.1\sigma)$	$H(2.33)$	$235.3^{+1.8}_{-1.6} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.040}_{-0.039} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+29}_{-29} \quad (-0.2\sigma)$
n_{s}	$0.969^{+0.010}_{-0.010} \quad (+0.2\sigma)$	D_{40}	$1221^{+30}_{-30} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.018} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0067}_{-0.0060} \quad (-0.1\sigma)$	D_{220}	$5726^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.015} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.013}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.013} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.6^{+4.0}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00018}_{-0.00020} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.31}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00018}_{-0.00020} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.012} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.088}_{-0.086} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2982^{+0.0060}_{-0.0058} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.784^{+0.069}_{-0.059} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3077^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1089.79^{+0.70}_{-0.68} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.50}$	r_*	$144.95^{+0.66}_{-0.76} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.0^{+5.4}_{-5.0} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.40}_{-0.46}$	$100\theta_*$	$1.04139^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.24}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.919^{+0.065}_{-0.076} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.7 \quad (\nu: 0.7) \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.39}$	z_{drag}	$1059.7^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{small}^2	$397.7 \quad (\nu: 2.5) \quad (+0.0\sigma)$
c_{100}	$0.9976^{+0.0030}_{-0.0027} \quad (-3.3\sigma)$	r_{drag}	$147.63^{+0.70}_{-0.83} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.66 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1403^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.4 \quad (\nu: 14.7)$
H_0	$68.1^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00064}_{-0.00063} \quad (-0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.5 \quad (\nu: 1.7) \quad (-0.1\sigma)$
Ω_{Λ}	$0.696^{+0.014}_{-0.016} \quad (+0.1\sigma)$	z_{eq}	$3356^{+64}_{-58} \quad (-0.0\sigma)$	χ_{JLA}^2	$706.61 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.304^{+0.016}_{-0.014} \quad (-0.1\sigma)$	k_{eq}	$0.01024^{+0.00020}_{-0.00018} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.026 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0027}_{-0.0024} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.010}_{-0.012} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.79 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0055}_{-0.0061} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.85 \quad (\nu: 0.3) \quad (-0.1\sigma)$
σ_8	$0.807^{+0.016}_{-0.017} \quad (-0.1\sigma)$	$H(0.15)$	$73.30^{+0.97}_{-1.0} \quad (+0.1\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 6.3) \quad (+0.0\sigma)$
S_8	$0.813^{+0.030}_{-0.034} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+10}_{-9.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$7494.5 \quad (\nu: 16.4) \quad (+1131.6\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.016}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.28^{+0.75}_{-0.79} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.67 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.015}_{-0.019} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+21}_{-19} \quad (-0.1\sigma)$		
$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.027} \quad (-0.1\sigma)$	$H(0.51)$	$89.92^{+0.62}_{-0.66} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8224.73; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.68; R - 1 = 0.08459$$

2.119 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022236	$0.02224^{+0.00047}_{-0.00048}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	0.9832	$0.983^{+0.023}_{-0.022}$ (−0.0 σ)	$D_M(0.38)$	1529.2	1529^{+21}_{-21} (−0.1 σ)
$\Omega_c h^2$	0.11903	$0.1190^{+0.0027}_{-0.0026}$ (+0.0 σ)	$r_{\text{drag}} h$	99.76	$99.8^{+2.0}_{-2.1}$ (+0.0 σ)	$H(0.51)$	89.68	$89.68^{+0.67}_{-0.67}$ (+0.1 σ)
$100\theta_{\text{MC}}$	1.04107	$1.0410^{+0.0010}_{-0.0011}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.430	$2.432^{+0.055}_{-0.053}$ (−0.1 σ)	$D_M(0.51)$	1981.2	1981^{+25}_{-25} (−0.1 σ)
τ	0.0552	$0.056^{+0.020}_{-0.019}$ (+0.0 σ)	z_{re}	7.79	$7.8^{+1.9}_{-2.0}$ (+0.0 σ)	$H(0.61)$	95.29	$95.29^{+0.58}_{-0.58}$ (+0.1 σ)
$\ln(10^{10} A_s)$	3.0426	$3.044^{+0.038}_{-0.039}$ (−0.1 σ)	$10^9 A_s$	2.096	$2.098^{+0.081}_{-0.080}$ (−0.0 σ)	$D_M(0.61)$	2305.5	2306^{+27}_{-27} (−0.1 σ)
n_s	0.9671	$0.967^{+0.010}_{-0.010}$ (+0.2 σ)	$10^9 A_s e^{-2\tau}$	1.8768	$1.876^{+0.028}_{-0.027}$ (−0.2 σ)	$H(2.33)$	235.80	$235.8^{+1.8}_{-1.7}$ (+0.0 σ)
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0060}$ (−0.0 σ)	D_{40}	1223.7	1224^{+31}_{-31} (−0.3 σ)	$D_M(2.33)$	5765.2	5765^{+30}_{-29} (−0.1 σ)
A_{100}^{PS}	237	242^{+60}_{-60} (−0.7 σ)	D_{220}	5715	5716^{+100}_{-100} (−0.2 σ)	$f\sigma_8(0.15)$	0.4551	$0.455^{+0.016}_{-0.015}$ (−0.0 σ)
A_{143}^{PS}	40.1	41^{+20}_{-20} (−1.0 σ)	D_{810}	2535.2	2534^{+36}_{-33} (−0.2 σ)	$\sigma_8(0.15)$	0.7473	$0.747^{+0.015}_{-0.015}$ (−0.0 σ)
A_{217}^{PS}	100.8	101^{+30}_{-30} (−1.3 σ)	D_{1420}	815.7	815^{+12}_{-13} (−0.1 σ)	$f\sigma_8(0.38)$	0.4736	$0.474^{+0.013}_{-0.013}$ (−0.0 σ)
A_{217}^{CIB}	45.8	41^{+20}_{-20} (−1.1 σ)	D_{2000}	230.13	$230.0^{+4.4}_{-4.4}$ (−0.0 σ)	$\sigma_8(0.38)$	0.6626	$0.663^{+0.013}_{-0.013}$ (−0.0 σ)
A_{143}^{tSZ}	6.62	< 8.81 (−0.7 σ)	$n_{s,0.002}$	0.9671	$0.967^{+0.010}_{-0.010}$ (+0.2 σ)	$f\sigma_8(0.51)$	0.4724	$0.472^{+0.012}_{-0.011}$ (−0.0 σ)
$r_{143 \times 217}^{\text{PS}}$	0.572	$0.65^{+0.31}_{-0.32}$	Y_{P}	0.245341	$0.24534^{+0.00018}_{-0.00022}$ (+0.1 σ)	$\sigma_8(0.51)$	0.6201	$0.620^{+0.012}_{-0.012}$ (−0.0 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.80	—	$Y_{\text{P}}^{\text{BBN}}$	0.246667	$0.24666^{+0.00018}_{-0.00023}$ (+0.1 σ)	$f\sigma_8(0.61)$	0.4675	$0.468^{+0.011}_{-0.010}$ (−0.0 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.04	—	$10^5 \text{D}/\text{H}$	2.611	$2.612^{+0.092}_{-0.086}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5901	$0.590^{+0.012}_{-0.011}$ (−0.0 σ)
A^{kSZ}	0.0	—	Age/Gyr	13.802	$13.803^{+0.069}_{-0.067}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2976	$0.2977^{+0.0060}_{-0.0058}$ (−0.0 σ)
A_{100}^{dust}	1.01	$1.01^{+0.53}_{-0.50}$	z_*	1090.00	$1090.00^{+0.72}_{-0.69}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3069	$0.3069^{+0.0065}_{-0.0063}$ (+0.0 σ)
A_{143}^{dust}	0.988	$0.97^{+0.45}_{-0.44}$	r_*	144.79	$144.80^{+0.70}_{-0.71}$ (−0.1 σ)	f_{2000}^{143}	30.8	30^{+8}_{-7} (−0.1 σ)
A_{217}^{dust}	0.965	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	1.04127	$1.0412^{+0.0010}_{-0.0011}$ (+0.1 σ)	f_{2000}^{217}	107.4	$107.3^{+5.2}_{-5.2}$ (−0.3 σ)
$A_{143 \times 217}^{\text{dust}}$	1.000	$1.03^{+0.42}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	13.905	$13.906^{+0.068}_{-0.071}$ (−0.1 σ)	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-6} (−0.3 σ)
c_{100}	0.99763	$0.9975^{+0.0028}_{-0.0028}$ (−3.4 σ)	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$ (+0.1 σ)	χ^2_{lensing}	9.02	9.41 (ν : 0.4) (+0.2 σ)
c_{217}	1.00136	$1.0012^{+0.0040}_{-0.0038}$ (+4.6 σ)	r_{drag}	147.50	$147.51^{+0.79}_{-0.79}$ (−0.1 σ)	χ^2_{small}	396.2	397.3 (ν : 1.9) (+0.0 σ)
H_0	67.64	$67.6^{+1.2}_{-1.2}$ (+0.1 σ)	k_{D}	0.14034	$0.1403^{+0.0010}_{-0.0011}$ (+0.1 σ)	χ^2_{lowl}	22.86	22.98 (ν : 0.3) (−0.2 σ)
Ω_Λ	0.6898	$0.690^{+0.016}_{-0.017}$ (+0.0 σ)	$100\theta_{\text{D}}$	0.16100	$0.16100^{+0.00065}_{-0.00060}$ (−0.1 σ)	χ^2_{CamSpec}	7051.2	7063.2 (ν : 13.5)
Ω_{m}	0.3102	$0.310^{+0.017}_{-0.016}$ (−0.0 σ)	z_{eq}	3376	3375^{+64}_{-60} (+0.0 σ)	χ^2_{JLA}	1034.99	1035.07 (ν : 0.0) (−0.0 σ)
$\Omega_{\text{m}} h^2$	0.14191	$0.1419^{+0.0027}_{-0.0025}$ (+0.0 σ)	k_{eq}	0.010303	$0.01030^{+0.00019}_{-0.00018}$ (+0.0 σ)	$\chi^2_{6\text{DF}}$	0.022	0.048 (ν : 0.0) (−0.0 σ)
$\Omega_{\text{m}} h^3$	0.09598	$0.0960^{+0.0011}_{-0.0011}$ (+0.1 σ)	$100\theta_{\text{eq}}$	0.8178	$0.818^{+0.011}_{-0.012}$ (−0.0 σ)	χ^2_{MGS}	1.28	1.35 (ν : 0.1) (+0.0 σ)
σ_8	0.8086	$0.809^{+0.016}_{-0.016}$ (−0.0 σ)	$100\theta_{\text{s,eq}}$	0.4518	$0.4519^{+0.0058}_{-0.0060}$ (−0.0 σ)	χ^2_{DR12BAO}	4.18	4.6 (ν : 0.9) (−0.0 σ)
S_8	0.8223	$0.822^{+0.030}_{-0.029}$ (−0.0 σ)	$H(0.15)$	72.90	$72.9^{+1.0}_{-1.1}$ (+0.1 σ)	χ^2_{prior}	2.1	7.6 (ν : 6.0) (+0.1 σ)
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4504	$0.450^{+0.017}_{-0.016}$ (−0.0 σ)	$D_M(0.15)$	641.1	641^{+11}_{-10} (−0.1 σ)	χ^2_{CMB}	7479.3	7492.9 (ν : 14.5) (+1158.9 σ)
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6035	$0.604^{+0.016}_{-0.016}$ (−0.0 σ)	$H(0.38)$	82.98	$82.98^{+0.81}_{-0.80}$ (+0.1 σ)	χ^2_{BAO}	5.48	6.0 (ν : 0.6) (−0.0 σ)

Best-fit $\chi^2_{\text{eff}} = 8521.87$; $\Delta\chi^2_{\text{eff}} = 6292.16$; $\bar{\chi}^2_{\text{eff}} = 8541.50$; $\Delta\bar{\chi}^2_{\text{eff}} = 6291.72$; $R - 1 = 0.00920$
 χ^2_{eff} : BAO - 6DF: 0.02 (Δ 0.01) MGS: 1.28 (Δ -0.06) DR12BAO: 4.18 (Δ 0.15) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.02 (Δ 0.14) small_100x143_offlike5_EE_Aplanck: 396.23 (Δ -0.14) commander_dx12_v3.2_29: 22.86 (Δ 0.04) CamSpec like_10.7HM: 7051.17 SN - JLA Pantheon18: 1034.99 (Δ 0.04)

2.120 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022336	$0.02234^{+0.00047}_{-0.00047}$ $(+0.1\sigma)$	$r_{\text{drag}} h$	100.44	$100.5^{+1.8}_{-2.0}$ $(+0.0\sigma)$	$D_M(0.51)$	1972.8	1972^{+24}_{-22} (-0.1σ)
$\Omega_c h^2$	0.11821	$0.1181^{+0.0026}_{-0.0025}$ $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.423	$2.422^{+0.055}_{-0.053}$ (-0.1σ)	$H(0.61)$	95.46	$95.48^{+0.52}_{-0.57}$ $(+0.1\sigma)$
$100\theta_{\text{MC}}$	1.04119	$1.04120^{+0.00092}_{-0.0010}$ $(+0.1\sigma)$	z_{re}	8.05	$8.1^{+1.8}_{-1.9}$ $(+0.0\sigma)$	$D_M(0.61)$	2296.4	2296^{+26}_{-24} (-0.1σ)
τ	0.0582	$0.058^{+0.020}_{-0.019}$ $(+0.0\sigma)$	$10^9 A_s$	2.106	$2.106^{+0.086}_{-0.079}$ (-0.1σ)	$H(2.33)$	235.37	$235.3^{+1.7}_{-1.6}$ $(+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0473	$3.047^{+0.040}_{-0.038}$ (-0.1σ)	$10^9 A_s e^{-2\tau}$	1.8744	$1.874^{+0.028}_{-0.027}$ (-0.2σ)	$D_M(2.33)$	5757.3	5757^{+29}_{-26} (-0.1σ)
n_s	0.9692	$0.969^{+0.010}_{-0.010}$ $(+0.2\sigma)$	D_{40}	1221.3	1221^{+30}_{-31} (-0.3σ)	$f\sigma_8(0.15)$	0.4513	$0.451^{+0.015}_{-0.016}$ (-0.0σ)
y_{cal}	1.0009	$1.0009^{+0.0064}_{-0.0060}$ (-0.1σ)	D_{220}	5726	5726^{+97}_{-100} (-0.2σ)	$\sigma_8(0.15)$	0.7473	$0.747^{+0.015}_{-0.015}$ (-0.0σ)
A_{100}^{PS}	235	241^{+60}_{-60} (-0.7σ)	D_{810}	2536.3	2535^{+34}_{-33} (-0.2σ)	$f\sigma_8(0.38)$	0.4710	$0.471^{+0.013}_{-0.014}$ (-0.0σ)
A_{143}^{PS}	39.5	40^{+20}_{-20} (-1.0σ)	D_{1420}	816.9	817^{+11}_{-13} (-0.1σ)	$\sigma_8(0.38)$	0.6632	$0.663^{+0.013}_{-0.013}$ (-0.0σ)
A_{217}^{PS}	101.5	102^{+30}_{-30} (-1.2σ)	D_{2000}	230.67	$230.6^{+3.9}_{-4.4}$ (-0.0σ)	$f\sigma_8(0.51)$	0.4704	$0.470^{+0.012}_{-0.012}$ (-0.0σ)
A_{217}^{CIB}	44.8	40^{+20}_{-20} (-1.1σ)	$n_{s,0.002}$	0.9692	$0.969^{+0.010}_{-0.010}$ $(+0.2\sigma)$	$\sigma_8(0.51)$	0.6209	$0.621^{+0.012}_{-0.012}$ (-0.0σ)
A_{143}^{tSZ}	6.49	< 8.84 (-0.7σ)	Y_P	0.245382	$0.24538^{+0.00018}_{-0.00021}$ $(+0.1\sigma)$	$f\sigma_8(0.61)$	0.4660	$0.466^{+0.011}_{-0.012}$ (-0.0σ)
$r_{143 \times 217}^{\text{PS}}$	0.590	$0.66^{+0.31}_{-0.33}$	Y_P^{BBN}	0.246708	$0.24671^{+0.00018}_{-0.00021}$ $(+0.1\sigma)$	$\sigma_8(0.61)$	0.5910	$0.591^{+0.012}_{-0.011}$ (-0.0σ)
$r_{143 \times 217}^{\text{CIB}}$	0.78	—	10^5D/H	2.592	$2.592^{+0.091}_{-0.085}$ (-0.1σ)	$f\sigma_8(2.33)$	0.2983	$0.2982^{+0.0059}_{-0.0058}$ (-0.0σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.09	—	Age/Gyr	13.785	$13.784^{+0.065}_{-0.059}$ (-0.1σ)	$\sigma_8(2.33)$	0.3078	$0.3078^{+0.0064}_{-0.0061}$ (-0.0σ)
A^{kSZ}	0.2	—	z_*	1089.81	$1089.80^{+0.69}_{-0.66}$ (-0.1σ)	f_{2000}^{143}	30.1	30^{+8}_{-7} (-0.2σ)
A_{100}^{dust}	1.01	$1.02^{+0.53}_{-0.50}$	r_*	144.92	$144.94^{+0.67}_{-0.71}$ (-0.1σ)	f_{2000}^{217}	107.0	$107.0^{+5.1}_{-5.0}$ (-0.3σ)
A_{143}^{dust}	0.980	$0.97^{+0.44}_{-0.45}$	$100\theta_*$	1.04138	$1.04139^{+0.00092}_{-0.0010}$ $(+0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.2	32^{+6}_{-6} (-0.3σ)
A_{217}^{dust}	0.968	$0.97^{+0.26}_{-0.27}$	$D_M(z_*)/\text{Gpc}$	13.916	$13.918^{+0.066}_{-0.072}$ (-0.1σ)	χ^2_{lensing}	9.17	$9.6 (\nu: 0.6)$ $(+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.002	$1.02^{+0.43}_{-0.43}$	z_{drag}	1059.74	$1059.7^{+1.0}_{-1.1}$ $(+0.1\sigma)$	χ^2_{small}	396.8	$397.7 (\nu: 2.6)$ $(+0.0\sigma)$
c_{100}	0.99765	$0.9976^{+0.0029}_{-0.0028}$ (-3.3σ)	r_{drag}	147.60	$147.62^{+0.77}_{-0.77}$ (-0.1σ)	χ^2_{lowl}	22.60	$22.66 (\nu: 0.3)$ (-0.2σ)
c_{217}	1.00136	$1.0012^{+0.0040}_{-0.0038}$ $(+4.7\sigma)$	k_D	0.14030	$0.1403^{+0.0010}_{-0.0010}$ $(+0.1\sigma)$	χ^2_{CamSpec}	7052.0	$7064.2 (\nu: 14.4)$
H_0	68.05	$68.1^{+1.1}_{-1.2}$ $(+0.0\sigma)$	$100\theta_D$	0.16090	$0.16091^{+0.00066}_{-0.00059}$ (-0.1σ)	χ^2_{H073p45}	10.58	$10.5 (\nu: 1.6)$ (-0.0σ)
Ω_Λ	0.6951	$0.695^{+0.014}_{-0.016}$ $(+0.0\sigma)$	z_{eq}	3359	3357^{+62}_{-59} $(+0.1\sigma)$	χ^2_{JLA}	1034.807	$1034.87 (\nu: 0.0)$ (-0.0σ)
Ω_m	0.3049	$0.305^{+0.016}_{-0.014}$ (-0.0σ)	k_{eq}	0.010251	$0.01025^{+0.00019}_{-0.00018}$ $(+0.1\sigma)$	$\chi^2_{6\text{DF}}$	0.000	$0.025 (\nu: 0.0)$ (-0.1σ)
$\Omega_m h^2$	0.14119	$0.1411^{+0.0026}_{-0.0025}$ $(+0.1\sigma)$	$100\theta_{\text{eq}}$	0.8213	$0.822^{+0.011}_{-0.011}$ (-0.0σ)	χ^2_{MGS}	1.68	$1.77 (\nu: 0.1)$ $(+0.0\sigma)$
$\Omega_m h^3$	0.09608	$0.0961^{+0.0010}_{-0.0011}$ $(+0.2\sigma)$	$100\theta_{\text{s,eq}}$	0.4536	$0.4538^{+0.0056}_{-0.0059}$ (-0.0σ)	χ^2_{DR12BAO}	3.49	$3.85 (\nu: 0.2)$ (-0.1σ)
σ_8	0.8080	$0.808^{+0.017}_{-0.017}$ (-0.0σ)	$H(0.15)$	73.26	$73.28^{+0.96}_{-1.0}$ $(+0.1\sigma)$	χ^2_{prior}	2.1	$7.5 (\nu: 6.0)$ $(+0.0\sigma)$
S_8	0.8146	$0.814^{+0.029}_{-0.030}$ (-0.0σ)	$D_M(0.15)$	637.5	$637^{+10}_{-9.4}$ (-0.0σ)	χ^2_{CMB}	7480.6	$7494.3 (\nu: 15.8)$ $(+1134.6\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4462	$0.446^{+0.016}_{-0.017}$ (-0.0σ)	$H(0.38)$	83.25	$83.27^{+0.74}_{-0.78}$ $(+0.1\sigma)$	χ^2_{BAO}	5.16	$5.64 (\nu: 0.2)$ (-0.1σ)
$\sigma_8 \Omega_m^{0.25}$	0.6004	$0.600^{+0.016}_{-0.016}$ (-0.0σ)	$D_M(0.38)$	1522.1	1522^{+20}_{-19} (-0.1σ)			
$\sigma_8/h^{0.5}$	0.9795	$0.979^{+0.023}_{-0.024}$ (-0.0σ)	$H(0.51)$	89.90	$89.91^{+0.61}_{-0.65}$ $(+0.1\sigma)$			

Best-fit $\chi^2_{\text{eff}} = 8533.26$; $\Delta\chi^2_{\text{eff}} = 6292.25$; $\bar{\chi}^2_{\text{eff}} = 8552.81$; $\Delta\bar{\chi}^2_{\text{eff}} = 6291.55$; $R - 1 = 0.02978$
 χ^2_{eff} : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.68 (Δ -0.07) DR12BAO: 3.49 (Δ 0.05) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p-teb_consext8: 9.17 (Δ 0.17) small_100x143_offlike5_EE_Aplanck: 396.83 (Δ -0.06) commander_dx12_v3.2_29: 22.60 (Δ -0.00) CamSpec like_10.7HM: 7051.98 Hubble - H073p45: 10.58 (Δ 0.26) SN - JLA Pantheon18: 1034.81 (Δ 0.02)

2.121 base_CamSpecHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02216^{+0.00051}_{-0.00051} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+15}_{-15} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0038}_{-0.0038} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027} \quad (+0.0\sigma)$	$H(0.38)$	$82.7^{+1.1}_{-1.1} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.9^{+3.1}_{-2.9} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1538^{+30}_{-30} \quad (+0.0\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.065}_{-0.064} \quad (-0.1\sigma)$	$H(0.51)$	$89.43^{+0.92}_{-0.86} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.039}_{-0.027} \quad (-0.1\sigma)$	z_{re}	$< 9.41 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1992^{+35}_{-36} \quad (-0.0\sigma)$
n_{s}	$0.964^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.082}_{-0.056} \quad (-0.1\sigma)$	$H(0.61)$	$95.09^{+0.77}_{-0.72} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2317^{+38}_{-39} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1229^{+34}_{-32} \quad (-0.2\sigma)$	$H(2.33)$	$236.4^{+2.4}_{-2.3} \quad (+0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5706^{+110}_{-100} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5774^{+35}_{-36} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2533^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.6\sigma)$	D_{2000}	$229.5^{+4.6}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.017} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24530^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0093} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.627^{+0.099}_{-0.094} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.013} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.821^{+0.080}_{-0.082} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0087} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	z_*	$1090.21^{+0.86}_{-0.86} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0060}_{-0.0044} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.56^{+0.91}_{-0.90} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0067}_{-0.0047} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.086}_{-0.085} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.6^{+5.3}_{-5.2} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.4^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
H_0	$67.1^{+1.8}_{-1.7} \quad (-0.0\sigma)$	r_{drag}	$147.29^{+0.95}_{-0.93} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.49 \quad (\nu: 0.4) \quad (+0.1\sigma)$
Ω_{Λ}	$0.682^{+0.023}_{-0.025} \quad (-0.0\sigma)$	k_{D}	$0.1405^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (+0.0\sigma)$
Ω_{m}	$0.318^{+0.025}_{-0.023} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16105^{+0.00065}_{-0.00063} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1429^{+0.0037}_{-0.0036} \quad (+0.1\sigma)$	z_{eq}	$3401^{+88}_{-87} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.6 \quad (\nu: 13.0)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	k_{eq}	$0.01038^{+0.00027}_{-0.00027} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.811^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.017}_{-0.016} \quad (-0.0\sigma)$	χ_{CMB}^2	$7492.4 \quad (\nu: 13.9) \quad (+1161.4\sigma)$
S_8	$0.835^{+0.042}_{-0.041} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4494^{+0.0086}_{-0.0083} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$H(0.15)$	$72.5^{+1.5}_{-1.5} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7500.01; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.85; R - 1 = 0.00502$$

2.122 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00047}_{-0.00048} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.022} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+22}_{-21} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0028}_{-0.0027} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.1}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.66^{+0.69}_{-0.68} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.055}_{-0.054} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+26}_{-25} \quad (-0.1\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (+0.0\sigma)$	z_{re}	$< 9.54 \quad (+0.0\sigma)$	$H(0.61)$	$95.27^{+0.59}_{-0.59} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.037}_{-0.029} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.080}_{-0.061} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2307^{+28}_{-27} \quad (-0.1\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+1.8}_{-1.7} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0060} \quad (-0.0\sigma)$	D_{40}	$1225^{+31}_{-31} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5766^{+30}_{-30} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.012} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.9^{+4.4}_{-4.5} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_{P}	$0.24533^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0099} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.613^{+0.093}_{-0.086} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0094} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.805^{+0.069}_{-0.068} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0059}_{-0.0047} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.51}$	z_*	$1090.03^{+0.72}_{-0.70} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0063}_{-0.0049} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.44}$	r_*	$144.77^{+0.72}_{-0.73} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.2}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.070}_{-0.071} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.35 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.49^{+0.81}_{-0.80} \quad (-0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.8) \quad (+0.0\sigma)$
H_0	$67.6^{+1.2}_{-1.3} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.04 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00066}_{-0.00060} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.0 \quad (\nu: 13.4)$
Ω_{m}	$0.311^{+0.017}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	$3378^{+65}_{-62} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.056 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0027}_{-0.0026} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00019} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.1) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.016}_{-0.014} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0060}_{-0.0062} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
S_8	$0.824^{+0.032}_{-0.030} \quad (-0.0\sigma)$	$H(0.15)$	$72.9^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{CMB}^2	$7492.6 \quad (\nu: 14.1) \quad (+1168.7\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+11}_{-11} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (-0.0\sigma)$	$H(0.38)$	$82.95^{+0.82}_{-0.83} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7506.32$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.75$; $R - 1 = 0.00854$

2.123 base_CamSpecHM_TT_lowl_lowE_lensing_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02234^{+0.00047}_{-0.00051} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.019}_{-0.023} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-17} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1181^{+0.0037}_{-0.0046} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.027}_{-0.032} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+1.3}_{-1.1} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$100.5^{+3.8}_{-2.9} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+29}_{-34} \quad (-0.0\sigma)$
τ	$0.059^{+0.023}_{-0.017} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.063}_{-0.080} \quad (-0.1\sigma)$	$H(0.51)$	$89.92^{+0.99}_{-0.87} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.048^{+0.038}_{-0.031} \quad (-0.1\sigma)$	z_{re}	$< 10.2 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+34}_{-40} \quad (-0.0\sigma)$
n_{s}	$0.969^{+0.016}_{-0.012} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.107^{+0.081}_{-0.065} \quad (-0.1\sigma)$	$H(0.61)$	$95.48^{+0.76}_{-0.72} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0059} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.873^{+0.029}_{-0.036} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+37}_{-43} \quad (-0.0\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{40}	$1221^{+32}_{-38} \quad (-0.3\sigma)$	$H(2.33)$	$235.3^{+2.3}_{-2.8} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5724^{+99}_{-100} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+35}_{-32} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.020}_{-0.023} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+11}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	D_{2000}	$230.5^{+4.3}_{-4.5} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.019} \quad (-0.0\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.969^{+0.016}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.1\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.014}_{-0.016} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00018}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.011} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.593^{+0.098}_{-0.085} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.012}_{-0.015} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.52}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.784^{+0.078}_{-0.070} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.010} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.43}_{-0.44}$	z_*	$1089.80^{+0.84}_{-0.71} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0058}_{-0.0052} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	r_*	$144.9^{+1.1}_{-0.90} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3079^{+0.0070}_{-0.0055} \quad (-0.0\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.44}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0030}_{-0.0028} \quad (-3.3\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.918^{+0.095}_{-0.085} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.1}_{-5.0} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0037} \quad (+4.8\sigma)$	z_{drag}	$1059.7^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143\times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$68.1^{+2.1}_{-1.7} \quad (+0.0\sigma)$	r_{drag}	$147.6^{+1.1}_{-0.94} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.8 \quad (\nu: 1.0) \quad (+0.3\sigma)$
Ω_{Λ}	$0.695^{+0.027}_{-0.023} \quad (+0.0\sigma)$	k_{D}	$0.1403^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	χ_{small}^2	$397.9 \quad (\nu: 3.4) \quad (+0.0\sigma)$
Ω_{m}	$0.305^{+0.023}_{-0.027} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00065}_{-0.00056} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.67 \quad (\nu: 0.4) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1411^{+0.0036}_{-0.0045} \quad (+0.0\sigma)$	z_{eq}	$3357^{+86}_{-110} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.4 \quad (\nu: 15.2)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	k_{eq}	$0.01024^{+0.00026}_{-0.00033} \quad (+0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.6 \quad (\nu: 3.5) \quad (-0.0\sigma)$
σ_8	$0.808^{+0.017}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.021}_{-0.016} \quad (-0.0\sigma)$	χ_{prior}^2	$7.4 \quad (\nu: 5.9) \quad (+0.0\sigma)$
S_8	$0.814^{+0.040}_{-0.045} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.454^{+0.011}_{-0.0083} \quad (-0.0\sigma)$	χ_{CMB}^2	$7494.7 \quad (\nu: 19.8) \quad (+1063.6\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.022}_{-0.025} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+1.8}_{-1.5} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7512.76$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.70$; $R - 1 = 0.03489$

2.124 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00047}_{-0.00048} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+21}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0027}_{-0.0025} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+1.9}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.90^{+0.63}_{-0.67} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04119^{+0.00093}_{-0.0010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.054}_{-0.054} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1973^{+25}_{-23} \quad (-0.1\sigma)$
τ	$0.059^{+0.019}_{-0.016} \quad (+0.0\sigma)$	z_{re}	$< 9.79 \quad (+0.0\sigma)$	$H(0.61)$	$95.47^{+0.53}_{-0.58} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.048^{+0.040}_{-0.031} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.107^{+0.085}_{-0.064} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+27}_{-25} \quad (-0.1\sigma)$
n_{s}	$0.969^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(2.33)$	$235.4^{+1.8}_{-1.6} \quad (+0.1\sigma)$
y_{cal}	$1.0008^{+0.0064}_{-0.0060} \quad (-0.1\sigma)$	D_{40}	$1222^{+30}_{-31} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+29}_{-26} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5725^{+98}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+34}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	$817^{+11}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.5^{+3.9}_{-4.4} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	Y_{P}	$0.24538^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.011} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.593^{+0.092}_{-0.086} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.010} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.785^{+0.067}_{-0.060} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0059}_{-0.0052} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.53}_{-0.50}$	z_*	$1089.81^{+0.71}_{-0.67} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3078^{+0.0064}_{-0.0054} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	r_*	$144.93^{+0.68}_{-0.72} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.04138^{+0.00093}_{-0.0010} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.2}_{-5.0} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.917^{+0.067}_{-0.073} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0028} \quad (-3.3\sigma)$	z_{drag}	$1059.7^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.6 \quad (\nu: 0.6) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.61^{+0.78}_{-0.76} \quad (-0.1\sigma)$	χ_{small}^2	$397.7 \quad (\nu: 2.6) \quad (+0.0\sigma)$
H_0	$68.1^{+1.2}_{-1.2} \quad (+0.0\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0010} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.69 \quad (\nu: 0.3) \quad (-0.2\sigma)$
Ω_{Λ}	$0.695^{+0.014}_{-0.016} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00066}_{-0.00059} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.1 \quad (\nu: 14.4)$
Ω_{m}	$0.305^{+0.016}_{-0.014} \quad (-0.0\sigma)$	z_{eq}	$3358^{+64}_{-60} \quad (+0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.6 \quad (\nu: 1.7) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0027}_{-0.0025} \quad (+0.0\sigma)$	k_{eq}	$0.01025^{+0.00020}_{-0.00018} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.027 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.011}_{-0.012} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.74 \quad (\nu: 0.1) \quad (+0.0\sigma)$
σ_8	$0.808^{+0.017}_{-0.015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4536^{+0.0057}_{-0.0060} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.90 \quad (\nu: 0.3) \quad (-0.1\sigma)$
S_8	$0.815^{+0.030}_{-0.031} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+1.0}_{-1.1} \quad (+0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 6.0) \quad (+0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$638^{+10}_{-9.6} \quad (-0.0\sigma)$	χ_{CMB}^2	$7494.1 \quad (\nu: 15.7) \quad (+1137.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.25^{+0.76}_{-0.80} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.67 \quad (\nu: 0.2) \quad (-0.1\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7517.92$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.57$; $R - 1 = 0.02825$

2.125 base_CamSpecHM_TT_lowl_lowE_lensing_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00049}_{-0.00051} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.019}_{-0.019} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$644^{+14}_{-14} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1197^{+0.0036}_{-0.0035} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.025}_{-0.026} \quad (-0.0\sigma)$	$H(0.38)$	$82.8^{+1.1}_{-1.0} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.2^{+2.8}_{-2.7} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1535^{+28}_{-28} \quad (-0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.062}_{-0.063} \quad (-0.1\sigma)$	$H(0.51)$	$89.53^{+0.88}_{-0.83} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.038}_{-0.028} \quad (-0.1\sigma)$	z_{re}	$< 9.48 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1988^{+33}_{-33} \quad (-0.0\sigma)$
n_{s}	$0.965^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.081}_{-0.058} \quad (-0.1\sigma)$	$H(0.61)$	$95.17^{+0.72}_{-0.69} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.030}_{-0.028} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2312^{+36}_{-36} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1227^{+32}_{-32} \quad (-0.2\sigma)$	$H(2.33)$	$236.2^{+2.2}_{-2.2} \quad (+0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5710^{+100}_{-100} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5771^{+34}_{-35} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+35}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.020}_{-0.020} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	D_{2000}	$229.7^{+4.6}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.015}_{-0.016} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.011} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24532^{+0.00019}_{-0.00024} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.013}_{-0.014} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00019}_{-0.00024} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0097} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.620^{+0.098}_{-0.090} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.012} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.814^{+0.078}_{-0.078} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0090} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	z_*	$1090.12^{+0.84}_{-0.81} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0060}_{-0.0045} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	r_*	$144.65^{+0.86}_{-0.85} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0066}_{-0.0048} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.081}_{-0.081} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.1}_{-5.1} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0038} \quad (+4.7\sigma)$	z_{drag}	$1059.5^{+1.0}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
H_0	$67.3^{+1.7}_{-1.6} \quad (+0.0\sigma)$	r_{drag}	$147.37^{+0.92}_{-0.89} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.41 \quad (\nu: 0.3) \quad (+0.1\sigma)$
Ω_{Λ}	$0.685^{+0.022}_{-0.023} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.6) \quad (+0.0\sigma)$
Ω_{m}	$0.315^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00066}_{-0.00062} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.29 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0034}_{-0.0033} \quad (+0.0\sigma)$	z_{eq}	$3391^{+82}_{-79} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.8 \quad (\nu: 13.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	k_{eq}	$0.01035^{+0.00025}_{-0.00024} \quad (+0.0\sigma)$	χ_{JLA}^2	$1035.39 \quad (\nu: 0.2) \quad (+0.0\sigma)$
σ_8	$0.810^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.015}_{-0.015} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
S_8	$0.830^{+0.039}_{-0.039} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4504^{+0.0079}_{-0.0078} \quad (-0.0\sigma)$	χ_{CMB}^2	$7492.5 \quad (\nu: 14.2) \quad (+1163.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.021}_{-0.021} \quad (+0.0\sigma)$	$H(0.15)$	$72.6^{+1.4}_{-1.4} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 8535.44$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.83$; $R - 1 = 0.00636$

2.126 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_JLA_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02234^{+0.00047}_{-0.00046} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$100.5^{+1.9}_{-2.0} \quad (+0.1\sigma)$	$D_M(0.51)$	$1972^{+24}_{-22} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1181^{+0.0027}_{-0.0024} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.055}_{-0.052} \quad (-0.2\sigma)$	$H(0.61)$	$95.48^{+0.53}_{-0.58} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04120^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	z_{re}	$< 9.81 \quad (-0.0\sigma)$	$D_M(0.61)$	$2295^{+27}_{-24} \quad (-0.1\sigma)$
τ	$0.059^{+0.019}_{-0.016} \quad (+0.0\sigma)$	$10^9 A_s$	$2.107^{+0.079}_{-0.069} \quad (-0.1\sigma)$	$H(2.33)$	$235.3^{+1.8}_{-1.6} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.048^{+0.037}_{-0.033} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.874^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$D_M(2.33)$	$5757^{+29}_{-29} \quad (-0.1\sigma)$
n_s	$0.9692^{+0.0099}_{-0.010} \quad (+0.2\sigma)$	D_{40}	$1221^{+30}_{-30} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.018} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0067}_{-0.0060} \quad (-0.1\sigma)$	D_{220}	$5726^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.016} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.6^{+4.0}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{s,0.002}$	$0.9692^{+0.0099}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.71 \quad (-0.8\sigma)$	Y_P	$0.24538^{+0.00018}_{-0.00020} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.31}$	Y_P^{BBN}	$0.24671^{+0.00018}_{-0.00020} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$10^5 D/H$	$2.592^{+0.088}_{-0.086} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0059}_{-0.0051} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Age/Gyr	$13.784^{+0.069}_{-0.059} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3078^{+0.0064}_{-0.0055} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1089.79^{+0.70}_{-0.68} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.52}_{-0.50}$	r_*	$144.95^{+0.65}_{-0.73} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.0^{+5.3}_{-5.0} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.41}_{-0.46}$	$100\theta_*$	$1.04139^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.25}$	$D_M(z_*)/\text{Gpc}$	$13.919^{+0.065}_{-0.074} \quad (-0.1\sigma)$	χ_{lensing}^2	$9.6 \quad (\nu: 0.6) \quad (+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.38}$	z_{drag}	$1059.7^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{small}^2	$397.7 \quad (\nu: 2.6) \quad (+0.0\sigma)$
c_{100}	$0.9976^{+0.0030}_{-0.0027} \quad (-3.3\sigma)$	r_{drag}	$147.64^{+0.70}_{-0.76} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.66 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	k_D	$0.1403^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	χ_{CamSpec}^2	$7064.4 \quad (\nu: 14.7)$
H_0	$68.1^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$100\theta_D$	$0.16091^{+0.00064}_{-0.00063} \quad (-0.1\sigma)$	χ_{H073p45}^2	$10.4 \quad (\nu: 1.6) \quad (-0.1\sigma)$
Ω_Λ	$0.696^{+0.014}_{-0.016} \quad (+0.1\sigma)$	z_{eq}	$3356^{+64}_{-58} \quad (-0.0\sigma)$	χ_{JLA}^2	$706.61 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_m	$0.304^{+0.016}_{-0.014} \quad (-0.1\sigma)$	k_{eq}	$0.01024^{+0.00020}_{-0.00018} \quad (-0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.026 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_m h^2$	$0.1411^{+0.0027}_{-0.0024} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.822^{+0.010}_{-0.012} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.80 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_m h^3$	$0.0961^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.4539^{+0.0054}_{-0.0060} \quad (+0.0\sigma)$	χ_{DR12BAO}^2	$3.84 \quad (\nu: 0.2) \quad (-0.1\sigma)$
σ_8	$0.808^{+0.016}_{-0.017} \quad (-0.1\sigma)$	$H(0.15)$	$73.31^{+0.96}_{-1.0} \quad (+0.1\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 6.4) \quad (+0.0\sigma)$
S_8	$0.813^{+0.030}_{-0.034} \quad (-0.1\sigma)$	$D_M(0.15)$	$637^{+10}_{-9.2} \quad (-0.1\sigma)$	χ_{CMB}^2	$7494.4 \quad (\nu: 16.3) \quad (+1137.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.446^{+0.016}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.28^{+0.74}_{-0.79} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.67 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.600^{+0.015}_{-0.019} \quad (-0.1\sigma)$	$D_M(0.38)$	$1521^{+21}_{-19} \quad (-0.1\sigma)$		
$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.027} \quad (-0.1\sigma)$	$H(0.51)$	$89.92^{+0.62}_{-0.66} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 8224.63; \Delta \bar{\chi}_{\text{eff}}^2 = 6291.68; R - 1 = 0.08788$$

2.127 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02224^{+0.00047}_{-0.00048} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+21}_{-21} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0027}_{-0.0026} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.69^{+0.67}_{-0.67} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.054}_{-0.053} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+25}_{-24} \quad (-0.1\sigma)$
τ	$0.057^{+0.018}_{-0.015} \quad (+0.0\sigma)$	z_{re}	$< 9.57 \quad (+0.0\sigma)$	$H(0.61)$	$95.29^{+0.58}_{-0.58} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.037}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.080}_{-0.062} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+27}_{-27} \quad (-0.1\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+1.8}_{-1.7} \quad (+0.0\sigma)$
y_{cal}	$1.0007^{+0.0066}_{-0.0060} \quad (-0.0\sigma)$	D_{40}	$1224^{+31}_{-31} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+30}_{-29} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5715^{+100}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.015} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.012} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.0^{+4.4}_{-4.4} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.011} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_{P}	$0.24534^{+0.00018}_{-0.00022} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00018}_{-0.00022} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.611^{+0.092}_{-0.086} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0095} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.803^{+0.068}_{-0.067} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0059}_{-0.0048} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.50}$	z_*	$1090.00^{+0.71}_{-0.68} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0064}_{-0.0050} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.44}$	r_*	$144.80^{+0.70}_{-0.71} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.2}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.068}_{-0.071} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.6^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.36 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0038} \quad (+4.6\sigma)$	r_{drag}	$147.52^{+0.78}_{-0.79} \quad (-0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (+0.0\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.98 \quad (\nu: 0.3) \quad (-0.2\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.017} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00064}_{-0.00060} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.2 \quad (\nu: 13.5)$
Ω_{m}	$0.310^{+0.017}_{-0.015} \quad (-0.0\sigma)$	z_{eq}	$3374^{+63}_{-60} \quad (+0.0\sigma)$	χ_{JLA}^2	$1035.06 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0027}_{-0.0025} \quad (+0.0\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00018} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.046 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.36 \quad (\nu: 0.1) \quad (+0.0\sigma)$
σ_8	$0.809^{+0.016}_{-0.014} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0058}_{-0.0060} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.9) \quad (-0.0\sigma)$
S_8	$0.822^{+0.030}_{-0.029} \quad (-0.0\sigma)$	$H(0.15)$	$72.9^{+1.0}_{-1.1} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.017}_{-0.016} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+11}_{-10} \quad (-0.1\sigma)$	χ_{CMB}^2	$7492.8 \quad (\nu: 14.3) \quad (+1167.5\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.015} \quad (-0.0\sigma)$	$H(0.38)$	$82.99^{+0.80}_{-0.80} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.0\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 8541.35$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.73$; $R - 1 = 0.00983$

2.128 base_CamSpecHM_TT_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00047}_{-0.00048} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+1.8}_{-2.0} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+24}_{-22} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0026}_{-0.0024} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.055}_{-0.053} \quad (-0.1\sigma)$	$H(0.61)$	$95.48^{+0.52}_{-0.56} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04120^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	z_{re}	$< 9.79 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+26}_{-24} \quad (-0.1\sigma)$
τ	$0.059^{+0.019}_{-0.016} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.107^{+0.084}_{-0.065} \quad (-0.1\sigma)$	$H(2.33)$	$235.3^{+1.7}_{-1.6} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.048^{+0.039}_{-0.031} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+29}_{-26} \quad (-0.1\sigma)$
n_{s}	$0.969^{+0.010}_{-0.010} \quad (+0.2\sigma)$	D_{40}	$1221^{+30}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.015}_{-0.016} \quad (-0.0\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0060} \quad (-0.1\sigma)$	D_{220}	$5726^{+97}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2535^{+34}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$817^{+11}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.6^{+3.9}_{-4.4} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.012}_{-0.012} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	Y_{P}	$0.24538^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00018}_{-0.00021} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.010} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.091}_{-0.085} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0058}_{-0.0052} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.784^{+0.066}_{-0.059} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3079^{+0.0063}_{-0.0054} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1089.80^{+0.69}_{-0.65} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.53}_{-0.50}$	r_*	$144.94^{+0.66}_{-0.70} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.1}_{-5.0} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	$100\theta_*$	$1.04139^{+0.00092}_{-0.0010} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.918^{+0.066}_{-0.071} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.6 \quad (\nu: 0.6) \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.43}$	z_{drag}	$1059.7^{+1.0}_{-1.1} \quad (+0.1\sigma)$	χ_{small}^2	$397.7 \quad (\nu: 2.7) \quad (+0.0\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0028} \quad (-3.3\sigma)$	r_{drag}	$147.63^{+0.76}_{-0.77} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.66 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0038} \quad (+4.7\sigma)$	k_{D}	$0.1403^{+0.0010}_{-0.0010} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.2 \quad (\nu: 14.4)$
H_0	$68.1^{+1.1}_{-1.2} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00066}_{-0.00059} \quad (-0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.5 \quad (\nu: 1.5) \quad (-0.0\sigma)$
Ω_{Λ}	$0.696^{+0.014}_{-0.016} \quad (+0.0\sigma)$	z_{eq}	$3357^{+62}_{-58} \quad (+0.1\sigma)$	χ_{JLA}^2	$1034.87 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.304^{+0.016}_{-0.014} \quad (-0.0\sigma)$	k_{eq}	$0.01024^{+0.00019}_{-0.00018} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.025 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0026}_{-0.0024} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.77 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0010}_{-0.0011} \quad (+0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0056}_{-0.0059} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.84 \quad (\nu: 0.2) \quad (-0.1\sigma)$
σ_8	$0.808^{+0.016}_{-0.015} \quad (-0.0\sigma)$	$H(0.15)$	$73.29^{+0.96}_{-1.0} \quad (+0.1\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 6.1) \quad (+0.0\sigma)$
S_8	$0.814^{+0.029}_{-0.031} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+10}_{-9.4} \quad (-0.0\sigma)$	χ_{CMB}^2	$7494.2 \quad (\nu: 15.7) \quad (+1140.3\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.27^{+0.74}_{-0.77} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.64 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.015}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+20}_{-19} \quad (-0.1\sigma)$		
$\sigma_8/h^{0.5}$	$0.979^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$H(0.51)$	$89.92^{+0.61}_{-0.64} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8552.73; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.56; R - 1 = 0.03088$$

2.129 base_CamSpecHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022277	$0.02229^{+0.00039}_{-0.00039} \quad (-0.5\sigma)$	S_8	0.8292	$0.828^{+0.034}_{-0.031} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	0.4499	$0.4502^{+0.0066}_{-0.0068} \quad (+0.3\sigma)$
$\Omega_c h^2$	0.11981	$0.1197^{+0.0031}_{-0.0030} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4542	$0.454^{+0.018}_{-0.017} \quad (-0.3\sigma)$	$H(0.15)$	72.64	$72.7^{+1.2}_{-1.2} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04085	$1.04087^{+0.00079}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6063	$0.606^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.15)$	643.7	$643^{+12}_{-11} \quad (-0.0\sigma)$
τ	0.0529	$0.054^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9864	$0.986^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$H(0.38)$	82.81	$82.85^{+0.87}_{-0.86} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	3.0402	$3.041^{+0.039}_{-0.038} \quad (-0.3\sigma)$	$r_{drag} h$	99.13	$99.2^{+2.3}_{-2.4} \quad (+0.2\sigma)$	$D_M(0.38)$	1534.4	$1533^{+24}_{-23} \quad (-0.0\sigma)$
n_s	0.9653	$0.966^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.438^{+0.057}_{-0.054} \quad (-0.4\sigma)$	$H(0.51)$	89.56	$89.60^{+0.69}_{-0.68} \quad (-0.1\sigma)$
y_{cal}	1.0006	$1.0005^{+0.0065}_{-0.0066} \quad (-0.0\sigma)$	z_{re}	7.56	$7.6^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$D_M(0.51)$	1987.1	$1986^{+28}_{-27} \quad (-0.0\sigma)$
A_{100}^{PS}	235	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s$	2.091	$2.092^{+0.084}_{-0.079} \quad (-0.3\sigma)$	$H(0.61)$	95.20	$95.23^{+0.56}_{-0.56} \quad (-0.2\sigma)$
A_{143}^{PS}	46.5	$39^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_s e^{-2\tau}$	1.8810	$1.879^{+0.029}_{-0.027} \quad (-0.4\sigma)$	$D_M(0.61)$	2311.9	$2310^{+30}_{-29} \quad (+0.0\sigma)$
A_{217}^{PS}	103.1	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1228.3	$1227^{+31}_{-30} \quad (-0.4\sigma)$	$H(2.33)$	236.34	$236.3^{+1.9}_{-1.8} \quad (-0.4\sigma)$
A_{217}^{CIB}	43.3	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5722	$5720^{+98}_{-98} \quad (-0.4\sigma)$	$D_M(2.33)$	5768.1	$5767^{+27}_{-26} \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.16	$< 8.85 \quad (-0.8\sigma)$	D_{810}	2537.0	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4585	$0.458^{+0.017}_{-0.016} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	0.667	$0.66^{+0.31}_{-0.33}$	D_{1420}	816.1	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7475	$0.747^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	0.85	—	D_{2000}	230.34	$230.3^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4760	$0.476^{+0.014}_{-0.013} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	0.52	—	$n_{s,0.002}$	0.9653	$0.966^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	0.6623	$0.662^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A^{kSZ}	0.8	—	Y_P	0.245358	$0.24536^{+0.00015}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	0.4742	$0.474^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{100}^{dust}	1.00	$1.01^{+0.51}_{-0.51}$	Y_P^{BBN}	0.246684	$0.24669^{+0.00015}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6196	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{dust}	0.978	$0.96^{+0.45}_{-0.45}$	$10^5 D/H$	2.603	$2.600^{+0.075}_{-0.070} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4690	$0.469^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{dust}	0.975	$0.97^{+0.27}_{-0.27}$	Age/Gyr	13.808	$13.805^{+0.062}_{-0.058} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.5895	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	0.996	$1.03^{+0.42}_{-0.42}$	z_*	1090.02	$1089.99^{+0.68}_{-0.64} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.2971	$0.2971^{+0.0061}_{-0.0058} \quad (-0.3\sigma)$
c_{100}	0.99777	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.55	$144.57^{+0.70}_{-0.72} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3061	$0.3062^{+0.0066}_{-0.0062} \quad (-0.2\sigma)$
c_{217}	1.00133	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_*$	1.04104	$1.04106^{+0.00078}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{143}	30.4	$30^{+7}_{-7} \quad (+0.0\sigma)$
c_{TE}	0.9967	$0.997^{+0.013}_{-0.013}$	$D_M(z_*)/\text{Gpc}$	13.885	$13.887^{+0.066}_{-0.067} \quad (+0.6\sigma)$	f_{2000}^{217}	106.92	$106.9^{+4.9}_{-5.0} \quad (-0.1\sigma)$
c_{EE}	0.9925	$0.992^{+0.013}_{-0.013}$	z_{drag}	1059.70	$1059.74^{+0.84}_{-0.83} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.3	$32^{+5}_{-5} \quad (-0.1\sigma)$
H_0	67.32	$67.4^{+1.3}_{-1.4} \quad (+0.1\sigma)$	r_{drag}	147.25	$147.26^{+0.71}_{-0.74} \quad (+0.6\sigma)$	$\chi^2_{lensing}$	8.83	$9.30 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_Λ	0.6851	$0.686^{+0.018}_{-0.019} \quad (+0.2\sigma)$	k_D	0.14063	$0.14063^{+0.00087}_{-0.00085} \quad (-0.8\sigma)$	χ^2_{small}	395.87	$396.9 \quad (\nu: 1.3) \quad (-0.1\sigma)$
Ω_m	0.3149	$0.314^{+0.019}_{-0.018} \quad (-0.2\sigma)$	$100\theta_D$	0.160882	$0.16087^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ^2_{lowl}	23.22	$23.22 \quad (\nu: 0.4) \quad (-0.3\sigma)$
$\Omega_m h^2$	0.14273	$0.1426^{+0.0030}_{-0.0028} \quad (-0.3\sigma)$	z_{eq}	3395	$3393^{+71}_{-67} \quad (-0.3\sigma)$	$\chi^2_{CamSpec}$	11499.6	$11514.1 \quad (\nu: 15.3)$
$\Omega_m h^3$	0.09609	$0.09610^{+0.00080}_{-0.00081} \quad (-0.7\sigma)$	k_{eq}	0.010363	$0.01036^{+0.00022}_{-0.00021} \quad (-0.3\sigma)$	χ^2_{prior}	2.1	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	0.8093	$0.809^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{eq}$	0.8142	$0.815^{+0.013}_{-0.013} \quad (+0.3\sigma)$	χ^2_{CMB}	11927.6	$11943.6 \quad (\nu: 16.5) \quad (+1576.5\sigma)$

Best-fit $\chi^2_{eff} = 11929.66$; $\Delta\chi^2_{eff} = 9155.02$; $\bar{\chi}^2_{eff} = 11951.44$; $\Delta\bar{\chi}^2_{eff} = 9150.75$; $R - 1 = 0.00801$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.83 (Δ -0.04) small_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ -0.18) commander_dx12_v3_2_29: 23.22 (Δ -0.03) CamSpec like_10.7HM_1400_unified: 11499.65

2.130 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00036}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+19}_{-18} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0025}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.73^{+0.56}_{-0.57} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+1.9}_{-1.9} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+22}_{-21} \quad (+0.1\sigma)$
τ	$0.055^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.052}_{-0.052} \quad (-0.4\sigma)$	$H(0.61)$	$95.33^{+0.46}_{-0.48} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.037} \quad (-0.3\sigma)$	z_{re}	$7.8^{+1.9}_{-1.8} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+24}_{-23} \quad (+0.1\sigma)$
n_{s}	$0.9671^{+0.0098}_{-0.0099} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.083}_{-0.077} \quad (-0.3\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+23}_{-22} \quad (+0.4\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+30}_{-29} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5725^{+98}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	D_{2000}	$230.5^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.9671^{+0.0098}_{-0.0099} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0099} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.071}_{-0.064} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0060}_{-0.0056} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.053}_{-0.051} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0065}_{-0.0059} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	z_*	$1089.88^{+0.59}_{-0.55} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	r_*	$144.70^{+0.59}_{-0.60} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	$1.04114^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.058}_{-0.056} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.31 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	$1059.79^{+0.79}_{-0.85} \quad (-0.7\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.38^{+0.63}_{-0.64} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.98 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14054^{+0.00080}_{-0.00078} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.2 \quad (\nu: 15.4)$
H_0	$67.7^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00049}_{-0.00047} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.690^{+0.014}_{-0.015} \quad (+0.1\sigma)$	z_{eq}	$3379^{+56}_{-55} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.31 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.310^{+0.015}_{-0.014} \quad (-0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09611^{+0.00077}_{-0.00080} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0053}_{-0.0053} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.6 \quad (\nu: 16.6) \quad (+1562.8\sigma)$
σ_8	$0.808^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.15)$	$72.93^{+0.91}_{-0.93} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.00 \quad (\nu: 0.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.028}_{-0.025} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.8^{+9.3}_{-8.9} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.38)$	$83.02^{+0.69}_{-0.69} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.40; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.56; R - 1 = 0.01372$$

2.131 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02240^{+0.00036}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.447^{+0.017}_{-0.021} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	$638^{+11}_{-16} \quad (-0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1185^{+0.0030}_{-0.0042} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.601^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	$83.2^{+1.2}_{-0.83} \quad (-0.0\sigma)$
$100\theta_{\text{MC}}$	$1.04105^{+0.00098}_{-0.00080} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.022} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1523^{+23}_{-31} \quad (-0.0\sigma)$
τ	$0.057^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$100.2^{+3.5}_{-2.3} \quad (+0.2\sigma)$	$H(0.51)$	$89.88^{+0.90}_{-0.67} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.046^{+0.040}_{-0.037} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.056}_{-0.052} \quad (-0.3\sigma)$	$D_{\text{M}}(0.51)$	$1974^{+27}_{-37} \quad (-0.0\sigma)$
n_{s}	$0.9685^{+0.0098}_{-0.010} \quad (+0.2\sigma)$	z_{re}	$7.9^{+1.9}_{-1.9} \quad (-0.0\sigma)$	$H(0.61)$	$95.46^{+0.69}_{-0.55} \quad (-0.2\sigma)$
y_{cal}	$1.0009^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	$10^9 A_{\text{s}}$	$2.103^{+0.085}_{-0.077} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2298^{+29}_{-39} \quad (-0.0\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$H(2.33)$	$235.6^{+1.8}_{-2.6} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1223^{+30}_{-29} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5757^{+26}_{-27} \quad (+0.3\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{220}	$5732^{+96}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.016}_{-0.020} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2537^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.8\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.013}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.67^{+0.30}_{-0.35}$	D_{2000}	$230.9^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.9685^{+0.0098}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24540^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24673^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	$10^5 \text{D}/\text{H}$	$2.581^{+0.073}_{-0.064} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.47}$	Age/Gyr	$13.784^{+0.059}_{-0.056} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0058}_{-0.0057} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1089.75^{+0.64}_{-0.61} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0066}_{-0.0060} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.44}_{-0.43}$	r_*	$144.8^{+1.0}_{-0.69} \quad (+0.6\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.4\sigma)$	$100\theta_*$	$1.04123^{+0.00097}_{-0.00080} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.6^{+4.7}_{-5.1} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.907^{+0.086}_{-0.064} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.89^{+0.73}_{-0.84} \quad (-0.7\sigma)$	χ_{lensing}^2	$9.46 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.47^{+0.99}_{-0.72} \quad (+0.7\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 2.3) \quad (-0.0\sigma)$
H_0	$68.0^{+1.9}_{-1.3} \quad (+0.1\sigma)$	k_{D}	$0.14049^{+0.00085}_{-0.00095} \quad (-0.9\sigma)$	χ_{lowl}^2	$22.78 \quad (\nu: 0.3) \quad (-0.3\sigma)$
Ω_{Λ}	$0.694^{+0.025}_{-0.018} \quad (+0.2\sigma)$	$100\theta_{\text{D}}$	$0.16079^{+0.00048}_{-0.00045} \quad (+0.7\sigma)$	χ_{CamSpec}^2	$11515.1 \quad (\nu: 16.8)$
Ω_{m}	$0.306^{+0.018}_{-0.025} \quad (-0.2\sigma)$	z_{eq}	$3366^{+67}_{-97} \quad (-0.4\sigma)$	χ_{H073p45}^2	$11.0 \quad (\nu: 2.1) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1415^{+0.0028}_{-0.0041} \quad (-0.4\sigma)$	k_{eq}	$0.01027^{+0.00021}_{-0.00030} \quad (-0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.09617^{+0.00074}_{-0.00081} \quad (-0.8\sigma)$	$100\theta_{\text{eq}}$	$0.820^{+0.019}_{-0.013} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.8 \quad (\nu: 19.6) \quad (+1491.7\sigma)$
σ_8	$0.808^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4529^{+0.0099}_{-0.0065} \quad (+0.4\sigma)$		
S_8	$0.816^{+0.031}_{-0.039} \quad (-0.3\sigma)$	$H(0.15)$	$73.2^{+1.6}_{-1.1} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11963.63; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.66; R - 1 = 0.02452$$

2.132 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02240^{+0.00034}_{-0.00037} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1523^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1184^{+0.0024}_{-0.0022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$H(0.51)$	$89.90^{+0.57}_{-0.55} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04106^{+0.00081}_{-0.00078} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.3^{+1.8}_{-1.8} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.057^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.053}_{-0.050} \quad (-0.3\sigma)$	$H(0.61)$	$95.47^{+0.46}_{-0.47} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.039}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$7.9^{+1.8}_{-1.8} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2297^{+23}_{-22} \quad (+0.1\sigma)$
n_{s}	$0.9688^{+0.0093}_{-0.0097} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.084}_{-0.076} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.5}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5756^{+23}_{-22} \quad (+0.5\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1223^{+30}_{-28} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5733^{+97}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{2000}	$230.9^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.30}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.9688^{+0.0093}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.010} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.580^{+0.070}_{-0.060} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0058}_{-0.0056} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.783^{+0.052}_{-0.051} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3074^{+0.0063}_{-0.0058} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.47}$	z_*	$1089.73^{+0.57}_{-0.53} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.83^{+0.54}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.7}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.04124^{+0.00081}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.053}_{-0.057} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.45 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.90^{+0.72}_{-0.81} \quad (-0.8\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 2.2) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$147.49^{+0.58}_{-0.62} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.72 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	k_{D}	$0.14048^{+0.00079}_{-0.00073} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.0 \quad (\nu: 16.1)$
H_0	$68.0^{+1.0}_{-1.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00048}_{-0.00044} \quad (+0.7\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.8 \quad (\nu: 1.2) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3364^{+54}_{-50} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.021 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.306^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	$0.01027^{+0.00016}_{-0.00015} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.64 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1414^{+0.0022}_{-0.0021} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.8204^{+0.0097}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.92 \quad (\nu: 0.3) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09617^{+0.00074}_{-0.00081} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4531^{+0.0050}_{-0.0052} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.808^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.15)$	$73.23^{+0.89}_{-0.91} \quad (-0.0\sigma)$	χ_{CMB}^2	$11944.6 \quad (\nu: 17.8) \quad (+1514.6\sigma)$
S_8	$0.815^{+0.027}_{-0.025} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$637.9^{+9.0}_{-8.6} \quad (+0.0\sigma)$	χ_{BAO}^2	$5.58 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$H(0.38)$	$83.24^{+0.67}_{-0.68} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11968.81; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.57; R - 1 = 0.02105$$

2.133 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022311	$0.02231^{+0.00037}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4521	$0.452^{+0.018}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	642.2	$642^{+11}_{-11} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.11940	$0.1194^{+0.0029}_{-0.0028} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6047	$0.605^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	82.92	$82.92^{+0.82}_{-0.82} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	1.04088	$1.04090^{+0.00079}_{-0.00081} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9844	$0.984^{+0.024}_{-0.022} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1531.3	$1531^{+23}_{-22} \quad (-0.0\sigma)$
τ	0.0544	$0.054^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	99.45	$99.4^{+2.2}_{-2.3} \quad (+0.2\sigma)$	$H(0.51)$	89.65	$89.65^{+0.66}_{-0.66} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0418	$3.042^{+0.040}_{-0.038} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.434	$2.435^{+0.055}_{-0.055} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	1983.5	$1984^{+27}_{-25} \quad (+0.0\sigma)$
n_{s}	0.9664	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	z_{re}	7.69	$7.7^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$H(0.61)$	95.27	$95.27^{+0.54}_{-0.54} \quad (-0.2\sigma)$
y_{cal}	1.0006	$1.0006^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	2.094	$2.094^{+0.085}_{-0.079} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2308.0	$2308^{+29}_{-28} \quad (+0.0\sigma)$
A_{100}^{PS}	234	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8785	$1.878^{+0.028}_{-0.027} \quad (-0.4\sigma)$	$H(2.33)$	236.10	$236.1^{+1.8}_{-1.7} \quad (-0.4\sigma)$
A_{143}^{PS}	41.2	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	1225.9	$1226^{+30}_{-29} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	5765.3	$5765^{+26}_{-25} \quad (+0.3\sigma)$
A_{217}^{PS}	102.2	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	5722	$5722^{+98}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4566	$0.457^{+0.017}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{CIB}	44.3	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2535.9	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7473	$0.747^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.54	$< 8.89 \quad (-0.8\sigma)$	D_{1420}	816.2	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.612	$0.66^{+0.31}_{-0.34}$	D_{2000}	230.41	$230.3^{+4.2}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6623	$0.662^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.79	—	$n_{\mathrm{s},0.002}$	0.9664	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	0.4732	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.18	—	Y_{P}	0.245372	$0.24537^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A^{kSZ}	0.1	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246698	$0.24670^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	0.4681	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	2.597	$2.597^{+0.075}_{-0.068} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	0.5897	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{dust}	0.969	$0.96^{+0.44}_{-0.44}$	Age/Gyr	13.802	$13.802^{+0.060}_{-0.056} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2973^{+0.0062}_{-0.0059} \quad (-0.3\sigma)$
A_{217}^{dust}	0.972	$0.97^{+0.28}_{-0.27}$	z_*	1089.94	$1089.95^{+0.65}_{-0.61} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3065	$0.3064^{+0.0066}_{-0.0062} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.006	$1.03^{+0.42}_{-0.42}$	r_*	144.63	$144.62^{+0.68}_{-0.69} \quad (+0.6\sigma)$	f_{2000}^{143}	30.0	$30^{+7}_{-7} \quad (+0.0\sigma)$
c_{100}	0.99767	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	1.04107	$1.04109^{+0.00079}_{-0.00080} \quad (-0.1\sigma)$	f_{2000}^{217}	106.8	$106.8^{+4.9}_{-5.1} \quad (-0.1\sigma)$
c_{217}	1.00131	$1.0011^{+0.0042}_{-0.0041} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.893	$13.891^{+0.065}_{-0.063} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	0.9967	$0.997^{+0.013}_{-0.013}$	z_{drag}	1059.74	$1059.76^{+0.82}_{-0.82} \quad (-0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.86	$9.30 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{EE}	0.9923	$0.992^{+0.013}_{-0.012}$	r_{drag}	147.32	$147.31^{+0.69}_{-0.71} \quad (+0.7\sigma)$	χ_{small}^2	396.07	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
H_0	67.50	$67.5^{+1.3}_{-1.3} \quad (+0.0\sigma)$	k_{D}	0.14058	$0.14060^{+0.00084}_{-0.00082} \quad (-0.8\sigma)$	χ_{lowl}^2	23.03	$23.13 \quad (\nu: 0.3) \quad (-0.3\sigma)$
Ω_{Λ}	0.6876	$0.687^{+0.017}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	0.160852	$0.16086^{+0.00050}_{-0.00048} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11514.2 \quad (\nu: 15.5)$
Ω_{m}	0.3124	$0.313^{+0.019}_{-0.017} \quad (-0.1\sigma)$	z_{eq}	3386	$3387^{+66}_{-64} \quad (-0.4\sigma)$	χ_{JLA}^2	1035.10	$1035.21 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.14235	$0.1424^{+0.0028}_{-0.0027} \quad (-0.4\sigma)$	k_{eq}	0.010336	$0.01034^{+0.00020}_{-0.00020} \quad (-0.4\sigma)$	χ_{prior}^2	2.2	$7.8 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.09609	$0.09611^{+0.00077}_{-0.00080} \quad (-0.8\sigma)$	$100\theta_{\mathrm{eq}}$	0.8159	$0.816^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{CMB}^2	11927.5	$11943.6 \quad (\nu: 16.8) \quad (+1560.3\sigma)$
σ_8	0.8088	$0.809^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4508	$0.4507^{+0.0062}_{-0.0063} \quad (+0.3\sigma)$			
S_8	0.8254	$0.826^{+0.033}_{-0.030} \quad (-0.3\sigma)$	$H(0.15)$	72.79	$72.8^{+1.1}_{-1.1} \quad (+0.0\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12964.78$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.94$; $\bar{\chi}_{\mathrm{eff}}^2 = 12986.66$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.70$; $R - 1 = 0.01285$

χ_{eff}^2 : CMB - smicadx12.Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.86 (Δ 0.09) small_100x143_offlike5.EE_Aplanck.B: 396.07 (Δ -0.09) commander_dx12.v3.2.29: 23.03 (Δ -0.15) CamSpec like_10.7HM_1400_unified: 11499.55 SN - JLA Pantheon18: 1035.10 (Δ -0.08)

2.134 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_JLA_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02241^{+0.00037}_{-0.00036} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.015}_{-0.016} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+18}_{-17} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1183^{+0.0023}_{-0.0022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.023} \quad (-0.2\sigma)$	$H(0.51)$	$89.91^{+0.53}_{-0.55} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04107^{+0.00072}_{-0.00079} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.3^{+1.7}_{-1.8} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.058^{+0.018}_{-0.017} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.054}_{-0.052} \quad (-0.3\sigma)$	$H(0.61)$	$95.48^{+0.46}_{-0.46} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.037}_{-0.035} \quad (-0.2\sigma)$	z_{re}	$8.0^{+1.7}_{-1.8} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2297^{+23}_{-22} \quad (+0.1\sigma)$
n_{s}	$0.9690^{+0.0093}_{-0.0099} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.080}_{-0.074} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.4}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0063}_{-0.0066} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5756^{+23}_{-22} \quad (+0.5\sigma)$
A_{100}^{PS}	$237^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1222^{+30}_{-29} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.013}_{-0.014} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5732^{+92}_{-92} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.015} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+32}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.99 \quad (-0.7\sigma)$	D_{2000}	$231.0^{+4.1}_{-4.0} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.012} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.9690^{+0.0093}_{-0.0099} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00014}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.011} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00014}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.011} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.579^{+0.069}_{-0.066} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0056}_{-0.0054} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.782^{+0.051}_{-0.049} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0060}_{-0.0058} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.42}_{-0.43}$	z_*	$1089.73^{+0.54}_{-0.54} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.25}_{-0.25}$	r_*	$144.84^{+0.53}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.6}_{-5.3} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.45}$	$100\theta_*$	$1.04125^{+0.00069}_{-0.00079} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0025} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.910^{+0.052}_{-0.055} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.46 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0038} \quad (+4.6\sigma)$	z_{drag}	$1059.90^{+0.84}_{-0.80} \quad (-0.8\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.2) \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$147.50^{+0.60}_{-0.61} \quad (+0.8\sigma)$	χ_{lowl}^2	$22.68 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14047^{+0.00080}_{-0.00074} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.3 \quad (\nu: 17.8)$
H_0	$68.0^{+1.0}_{-1.0} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00047}_{-0.00049} \quad (+0.7\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.7 \quad (\nu: 1.2) \quad (+0.0\sigma)$
Ω_{Λ}	$0.694^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3363^{+53}_{-51} \quad (-0.4\sigma)$	χ_{JLA}^2	$706.63 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.306^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	$0.01026^{+0.00016}_{-0.00015} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.021 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1414^{+0.0022}_{-0.0021} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.8206^{+0.0095}_{-0.0099} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.66 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09617^{+0.00076}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4532^{+0.0049}_{-0.0051} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.89 \quad (\nu: 0.2) \quad (-0.1\sigma)$
σ_8	$0.808^{+0.016}_{-0.016} \quad (-0.2\sigma)$	$H(0.15)$	$73.24^{+0.87}_{-0.90} \quad (-0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.6) \quad (-0.9\sigma)$
S_8	$0.815^{+0.026}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$637.7^{+8.9}_{-8.5} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.9 \quad (\nu: 19.5) \quad (+1512.2\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.014}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.25^{+0.64}_{-0.67} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.57 \quad (\nu: 0.1) \quad (-0.1\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12675.57; \Delta\chi_{\mathrm{eff}}^2 = 9150.70; R - 1 = 0.05190$$

2.135 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022352	$0.02234^{+0.00035}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6027	$0.603^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_M(0.38)$	1528.0	$1528^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.11901	$0.1190^{+0.0024}_{-0.0023} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9818	$0.982^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	89.74	$89.75^{+0.55}_{-0.56} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04094	$1.04096^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$r_{drag}h$	99.76	$99.8^{+1.8}_{-1.8} \quad (+0.2\sigma)$	$D_M(0.51)$	1979.7	$1979^{+22}_{-21} \quad (+0.1\sigma)$
τ	0.0546	$0.056^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.427	$2.429^{+0.052}_{-0.051} \quad (-0.4\sigma)$	$H(0.61)$	95.348	$95.35^{+0.46}_{-0.47} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	3.0417	$3.043^{+0.039}_{-0.037} \quad (-0.3\sigma)$	z_{re}	7.70	$7.8^{+1.9}_{-1.8} \quad (-0.1\sigma)$	$D_M(0.61)$	2303.8	$2303^{+23}_{-23} \quad (+0.1\sigma)$
n_s	0.9678	$0.9673^{+0.0096}_{-0.0096} \quad (+0.1\sigma)$	$10^9 A_s$	2.094	$2.098^{+0.084}_{-0.077} \quad (-0.3\sigma)$	$H(2.33)$	235.89	$235.8^{+1.5}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	1.0006	$1.0007^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8776	$1.877^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$D_M(2.33)$	5761.8	$5762^{+23}_{-22} \quad (+0.4\sigma)$
A_{100}^{PS}	232	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.2	$1225^{+30}_{-29} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4544	$0.454^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	47.8	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	5724	$5726^{+98}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7466	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	104.1	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2537.0	$2536^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4730	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{217}^{CIB}	42.7	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	817.1	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6620	$0.662^{+0.013}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.37	$< 8.87 \quad (-0.8\sigma)$	D_{2000}	230.78	$230.5^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4718	$0.472^{+0.011}_{-0.010} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	0.695	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.9678	$0.9673^{+0.0096}_{-0.0096} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6196	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	0.87	—	Y_P	0.245389	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	0.4670	$0.467^{+0.010}_{-0.0098} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	0.64	—	Y_P^{BBN}	0.246715	$0.24671^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	0.5896	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	0.3	—	$10^5 D/H$	2.589	$2.591^{+0.071}_{-0.063} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2975^{+0.0060}_{-0.0055} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	Age/Gyr	13.794	$13.794^{+0.052}_{-0.050} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3066	$0.3068^{+0.0064}_{-0.0058} \quad (-0.2\sigma)$
A_{143}^{dust}	0.980	$0.95^{+0.46}_{-0.43}$	z_*	1089.86	$1089.86^{+0.58}_{-0.53} \quad (+0.4\sigma)$	f_{2000}^{143}	29.8	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	0.979	$0.97^{+0.28}_{-0.27}$	r_*	144.70	$144.72^{+0.57}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	106.5	$106.7^{+4.9}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	0.995	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	1.04113	$1.04115^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99779	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	13.898	$13.900^{+0.057}_{-0.055} \quad (+0.7\sigma)$	$\chi^2_{lensing}$	8.97	$9.32 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{217}	1.00131	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	1059.82	$1059.80^{+0.78}_{-0.86} \quad (-0.8\sigma)$	χ^2_{small}	396.05	$397.1 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	r_{drag}	147.37	$147.40^{+0.61}_{-0.63} \quad (+0.7\sigma)$	χ^2_{lowl}	22.77	$22.94 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	0.9924	$0.992^{+0.013}_{-0.012}$	k_D	0.14056	$0.14052^{+0.00080}_{-0.00077} \quad (-0.9\sigma)$	$\chi^2_{CamSpec}$	11500.2	$11514.3 \quad (\nu: 15.5)$
H_0	67.69	$67.7^{+1.0}_{-1.1} \quad (+0.0\sigma)$	$100\theta_D$	0.160819	$0.16084^{+0.00050}_{-0.00046} \quad (+0.7\sigma)$	χ^2_{JLA}	1034.98	$1035.03 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_Λ	0.6901	$0.690^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	3378	$3377^{+55}_{-53} \quad (-0.4\sigma)$	χ^2_{6DF}	0.022	$0.040 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_m	0.3099	$0.310^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	0.010310	$0.01031^{+0.00017}_{-0.00016} \quad (-0.4\sigma)$	χ^2_{MGS}	1.28	$1.36 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_m h^2$	0.14201	$0.1419^{+0.0023}_{-0.0022} \quad (-0.4\sigma)$	$100\theta_{eq}$	0.8176	$0.8179^{+0.0099}_{-0.010} \quad (+0.3\sigma)$	$\chi^2_{DR12BAO}$	4.23	$4.5 \quad (\nu: 0.7) \quad (-0.1\sigma)$
$\Omega_m h^3$	0.09613	$0.09612^{+0.00076}_{-0.00080} \quad (-0.8\sigma)$	$100\theta_{s,eq}$	0.4516	$0.4518^{+0.0051}_{-0.0052} \quad (+0.4\sigma)$	χ^2_{prior}	2.0	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	0.8078	$0.808^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.15)$	72.96	$72.98^{+0.88}_{-0.91} \quad (-0.0\sigma)$	χ^2_{CMB}	11928.0	$11943.7 \quad (\nu: 16.7) \quad (+1560.4\sigma)$
S_8	0.8210	$0.821^{+0.027}_{-0.025} \quad (-0.3\sigma)$	$D_M(0.15)$	640.5	$640.4^{+9.1}_{-8.6} \quad (+0.0\sigma)$	χ^2_{BAO}	5.53	$5.88 \quad (\nu: 0.4) \quad (-0.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4497	$0.450^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.38)$	83.04	$83.05^{+0.67}_{-0.68} \quad (-0.1\sigma)$			

Best-fit $\chi^2_{eff} = 12970.49$; $\Delta\chi^2_{eff} = 9154.81$; $\bar{\chi}^2_{eff} = 12992.39$; $\Delta\bar{\chi}^2_{eff} = 9150.54$; $R - 1 = 0.01438$
 χ^2_{eff} : BAO - 6DF: 0.02 (Δ 0.00) MGS: 1.28 (Δ 0.00) DR12BAO: 4.23 (Δ -0.01) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.97 (Δ 0.25) small_100x143_offlike5_EE_Aplanck: 396.05 (Δ -0.47) commander_dx12_v3.2_29: 22.77 (Δ -0.11) CamSpec like_10.7HM_1400_unified: 11500.17 SN - JLA Pantheon18: 1034.98 (Δ 0.01)

2.136 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02241^{+0.00033}_{-0.00037} \quad (-0.7\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.600^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1522^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_{\text{c}}h^2$	$0.1183^{+0.0023}_{-0.0022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$H(0.51)$	$89.91^{+0.56}_{-0.54} \quad (-0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04107^{+0.00089}_{-0.00078} \quad (-0.2\sigma)$	$r_{\text{drag}}h$	$100.4^{+1.7}_{-1.8} \quad (+0.2\sigma)$	$D_{\text{M}}(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.057^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.052}_{-0.050} \quad (-0.3\sigma)$	$H(0.61)$	$95.48^{+0.45}_{-0.46} \quad (-0.3\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.046^{+0.039}_{-0.036} \quad (-0.2\sigma)$	z_{re}	$7.9^{+1.8}_{-1.8} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2296^{+22}_{-21} \quad (+0.1\sigma)$
n_{s}	$0.9689^{+0.0094}_{-0.0095} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.104^{+0.084}_{-0.075} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.4}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5756^{+22}_{-22} \quad (+0.5\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1223^{+30}_{-28} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.013}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5733^{+97}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+34}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{2000}	$230.9^{+3.9}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.010} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.67^{+0.30}_{-0.35}$	$n_{\text{s},0.002}$	$0.9689^{+0.0094}_{-0.0095} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24541^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.010} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24674^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.579^{+0.069}_{-0.059} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0058}_{-0.0056} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	Age/Gyr	$13.782^{+0.051}_{-0.050} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3074^{+0.0063}_{-0.0058} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.46}$	z_*	$1089.72^{+0.55}_{-0.52} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.84^{+0.52}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.7}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.04125^{+0.00088}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.4\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.910^{+0.052}_{-0.055} \quad (+0.7\sigma)$	χ_{lensing}^2	$9.47 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.90^{+0.71}_{-0.81} \quad (-0.8\sigma)$	χ_{simall}^2	$397.5 \quad (\nu: 2.3) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$147.50^{+0.57}_{-0.61} \quad (+0.8\sigma)$	χ_{lowl}^2	$22.70 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	k_{D}	$0.14047^{+0.00077}_{-0.00072} \quad (-0.9\sigma)$	χ_{CamSpec}^2	$11515.1 \quad (\nu: 16.1)$
H_0	$68.0^{+1.0}_{-1.0} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.16078^{+0.00048}_{-0.00044} \quad (+0.7\sigma)$	χ_{H073p45}^2	$10.7 \quad (\nu: 1.2) \quad (+0.0\sigma)$
Ω_{Λ}	$0.695^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3363^{+53}_{-49} \quad (-0.4\sigma)$	χ_{JLA}^2	$1034.87 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.305^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	$0.01026^{+0.00016}_{-0.00015} \quad (-0.4\sigma)$	$\chi_{6\text{DF}}^2$	$0.019 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\text{m}}h^2$	$0.1414^{+0.0022}_{-0.0020} \quad (-0.4\sigma)$	$100\theta_{\text{eq}}$	$0.8207^{+0.0094}_{-0.0097} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.67 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\text{m}}h^3$	$0.09617^{+0.00074}_{-0.00081} \quad (-0.8\sigma)$	$100\theta_{\text{s,eq}}$	$0.4532^{+0.0048}_{-0.0050} \quad (+0.4\sigma)$	χ_{DR12BAO}^2	$3.87 \quad (\nu: 0.2) \quad (-0.2\sigma)$
σ_8	$0.807^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.15)$	$73.25^{+0.86}_{-0.89} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.815^{+0.026}_{-0.024} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	$637.7^{+8.8}_{-8.4} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.7 \quad (\nu: 17.8) \quad (+1512.9\sigma)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.446^{+0.014}_{-0.013} \quad (-0.3\sigma)$	$H(0.38)$	$83.26^{+0.65}_{-0.66} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.56 \quad (\nu: 0.1) \quad (-0.1\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 13003.64; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.54; R - 1 = 0.02217$$

2.137 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02230^{+0.00039}_{-0.00040} \quad (-0.5\sigma)$	S_8	$0.828^{+0.034}_{-0.030} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	$0.4503^{+0.0066}_{-0.0067} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1196^{+0.0030}_{-0.0029} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.454^{+0.018}_{-0.017} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.1}_{-1.2} \quad (+0.0\sigma)$
$100\theta_{MC}$	$1.04087^{+0.00078}_{-0.00082} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.15)$	$643^{+12}_{-11} \quad (-0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.022} \quad (-0.3\sigma)$	$H(0.38)$	$82.87^{+0.85}_{-0.85} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.043^{+0.038}_{-0.027} \quad (-0.3\sigma)$	$r_{drag} h$	$99.3^{+2.3}_{-2.3} \quad (+0.2\sigma)$	$D_M(0.38)$	$1533^{+24}_{-23} \quad (-0.0\sigma)$
n_s	$0.966^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.057}_{-0.053} \quad (-0.4\sigma)$	$H(0.51)$	$89.61^{+0.68}_{-0.67} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	$< 9.41 \quad (-0.1\sigma)$	$D_M(0.51)$	$1985^{+28}_{-27} \quad (-0.0\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s$	$2.096^{+0.080}_{-0.057} \quad (-0.3\sigma)$	$H(0.61)$	$95.24^{+0.55}_{-0.56} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.028}_{-0.027} \quad (-0.4\sigma)$	$D_M(0.61)$	$2310^{+30}_{-29} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1227^{+31}_{-30} \quad (-0.4\sigma)$	$H(2.33)$	$236.2^{+1.8}_{-1.8} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5720^{+98}_{-98} \quad (-0.4\sigma)$	$D_M(2.33)$	$5766^{+27}_{-26} \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.8\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.016} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.3^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.966^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.0099} \quad (-0.3\sigma)$
A^{kSZ}	—	Y_P	$0.24537^{+0.00015}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	Y_P^{BBN}	$0.24669^{+0.00015}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0090} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	$10^5 D/H$	$2.599^{+0.076}_{-0.070} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	Age/Gyr	$13.804^{+0.061}_{-0.058} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0084} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.42}_{-0.42}$	z_*	$1089.98^{+0.67}_{-0.63} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0059}_{-0.0042} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.58^{+0.69}_{-0.71} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0064}_{-0.0045} \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_*$	$1.04107^{+0.00078}_{-0.00081} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_M(z_*)/Gpc$	$13.888^{+0.065}_{-0.066} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.9^{+4.9}_{-5.0} \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	z_{drag}	$1059.74^{+0.84}_{-0.84} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
H_0	$67.4^{+1.3}_{-1.4} \quad (+0.1\sigma)$	r_{drag}	$147.27^{+0.71}_{-0.74} \quad (+0.7\sigma)$	$\chi_{lensing}^2$	$9.26 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_Λ	$0.686^{+0.018}_{-0.019} \quad (+0.2\sigma)$	k_D	$0.14062^{+0.00086}_{-0.00084} \quad (-0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
Ω_m	$0.314^{+0.019}_{-0.018} \quad (-0.2\sigma)$	$100\theta_D$	$0.16086^{+0.00049}_{-0.00049} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.21 \quad (\nu: 0.4) \quad (-0.3\sigma)$
$\Omega_m h^2$	$0.1426^{+0.0029}_{-0.0028} \quad (-0.4\sigma)$	z_{eq}	$3391^{+70}_{-66} \quad (-0.4\sigma)$	$\chi_{CamSpec}^2$	$11514.0 \quad (\nu: 15.1)$
$\Omega_m h^3$	$0.09611^{+0.00080}_{-0.00082} \quad (-0.7\sigma)$	k_{eq}	$0.01035^{+0.00021}_{-0.00020} \quad (-0.4\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	$0.810^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$100\theta_{eq}$	$0.815^{+0.013}_{-0.013} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.4 \quad (\nu: 16.0) \quad (+1590.5\sigma)$

$\bar{\chi}_{eff}^2 = 11951.25$; $\Delta\bar{\chi}_{eff}^2 = 9150.75$; $R - 1 = 0.00847$

2.138 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00036}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+19}_{-18} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.021}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$89.73^{+0.56}_{-0.57} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00076}_{-0.00074} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+1.8}_{-1.9} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+22}_{-21} \quad (+0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.051}_{-0.047} \quad (-0.4\sigma)$	$H(0.61)$	$95.34^{+0.47}_{-0.47} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.029} \quad (-0.3\sigma)$	z_{re}	$< 9.52 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+24}_{-23} \quad (+0.1\sigma)$
n_{s}	$0.9671^{+0.0097}_{-0.0098} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.082}_{-0.060} \quad (-0.3\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-22} \quad (+0.4\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+30}_{-29} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5725^{+99}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.8\sigma)$	D_{2000}	$230.5^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.0099} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.9671^{+0.0097}_{-0.0098} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0093} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.0091} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0088} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.071}_{-0.064} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0059}_{-0.0044} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.053}_{-0.051} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0063}_{-0.0047} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	z_*	$1089.88^{+0.59}_{-0.54} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	r_*	$144.70^{+0.59}_{-0.59} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	$1.04114^{+0.00076}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.899^{+0.058}_{-0.056} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.26 \quad (\nu: 0.2) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.79^{+0.79}_{-0.85} \quad (-0.7\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.38^{+0.62}_{-0.64} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.98 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14054^{+0.00080}_{-0.00078} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.2 \quad (\nu: 15.3)$
H_0	$67.7^{+1.0}_{-1.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00050}_{-0.00047} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.045 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.690^{+0.014}_{-0.015} \quad (+0.1\sigma)$	z_{eq}	$3379^{+55}_{-54} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.32 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.310^{+0.015}_{-0.014} \quad (-0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09611^{+0.00077}_{-0.00080} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0052}_{-0.0053} \quad (+0.4\sigma)$	χ_{CMB}^2	$11943.5 \quad (\nu: 16.3) \quad (+1573.2\sigma)$
σ_8	$0.809^{+0.016}_{-0.013} \quad (-0.3\sigma)$	$H(0.15)$	$72.94^{+0.91}_{-0.93} \quad (-0.0\sigma)$	χ_{BAO}^2	$5.97 \quad (\nu: 0.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.027}_{-0.025} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.7^{+9.2}_{-8.9} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.38)$	$83.03^{+0.69}_{-0.69} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.26; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.54; R - 1 = 0.01434$$

2.139 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02240^{+0.00035}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.017}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$638^{+11}_{-16} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1184^{+0.0029}_{-0.0042} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.016}_{-0.017} \quad (-0.3\sigma)$	$H(0.38)$	$83.2^{+1.2}_{-0.82} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04105^{+0.00097}_{-0.00080} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.023}_{-0.020} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1523^{+22}_{-31} \quad (-0.0\sigma)$
τ	$0.058^{+0.019}_{-0.015} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.2^{+3.5}_{-2.3} \quad (+0.2\sigma)$	$H(0.51)$	$89.88^{+0.89}_{-0.66} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.039}_{-0.031} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.055}_{-0.049} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1974^{+26}_{-36} \quad (-0.0\sigma)$
n_{s}	$0.9686^{+0.0097}_{-0.010} \quad (+0.2\sigma)$	z_{re}	$< 9.64 \quad (-0.0\sigma)$	$H(0.61)$	$95.46^{+0.69}_{-0.55} \quad (-0.2\sigma)$
y_{cal}	$1.0009^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.083}_{-0.065} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2298^{+28}_{-39} \quad (-0.0\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$H(2.33)$	$235.6^{+1.8}_{-2.5} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1223^{+30}_{-30} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+26}_{-27} \quad (+0.3\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{220}	$5732^{+96}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.016}_{-0.020} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2537^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.8\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.013}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.35}$	D_{2000}	$230.9^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.9686^{+0.0097}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0098} \quad (-0.2\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00013}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.0095} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.580^{+0.073}_{-0.063} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0093} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.47}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.784^{+0.058}_{-0.056} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0057}_{-0.0047} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1089.75^{+0.64}_{-0.60} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0065}_{-0.0051} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.44}_{-0.42}$	r_*	$144.8^{+1.0}_{-0.69} \quad (+0.6\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.4\sigma)$	$100\theta_*$	$1.04123^{+0.00096}_{-0.00080} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.5^{+4.7}_{-5.1} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.908^{+0.085}_{-0.064} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.89^{+0.72}_{-0.84} \quad (-0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.41 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.47^{+0.99}_{-0.71} \quad (+0.7\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.4) \quad (-0.0\sigma)$
H_0	$68.0^{+1.9}_{-1.3} \quad (+0.1\sigma)$	k_{D}	$0.14049^{+0.00084}_{-0.00094} \quad (-0.9\sigma)$	χ_{lowl}^2	$22.78 \quad (\nu: 0.3) \quad (-0.3\sigma)$
Ω_{Λ}	$0.694^{+0.025}_{-0.018} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00048}_{-0.00045} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.1 \quad (\nu: 16.8)$
Ω_{m}	$0.306^{+0.018}_{-0.025} \quad (-0.2\sigma)$	z_{eq}	$3366^{+66}_{-97} \quad (-0.4\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$11.0 \quad (\nu: 2.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1415^{+0.0028}_{-0.0040} \quad (-0.4\sigma)$	k_{eq}	$0.01027^{+0.00020}_{-0.00029} \quad (-0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09617^{+0.00074}_{-0.00081} \quad (-0.8\sigma)$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.019}_{-0.012} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.7 \quad (\nu: 19.5) \quad (+1497.8\sigma)$
σ_8	$0.808^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4529^{+0.0098}_{-0.0064} \quad (+0.4\sigma)$		
S_8	$0.816^{+0.031}_{-0.039} \quad (-0.3\sigma)$	$H(0.15)$	$73.2^{+1.6}_{-1.1} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11963.51; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.65; R - 1 = 0.02593$$

2.140 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00034}_{-0.00037} \quad (-0.7\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$D_M(0.38)$	$1523^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1184^{+0.0023}_{-0.0022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.022}_{-0.019} \quad (-0.2\sigma)$	$H(0.51)$	$89.90^{+0.57}_{-0.55} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04106^{+0.00090}_{-0.00078} \quad (-0.2\sigma)$	$r_{drag} h$	$100.3^{+1.8}_{-1.8} \quad (+0.2\sigma)$	$D_M(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.058^{+0.019}_{-0.015} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.052}_{-0.047} \quad (-0.3\sigma)$	$H(0.61)$	$95.48^{+0.46}_{-0.46} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.047^{+0.039}_{-0.031} \quad (-0.2\sigma)$	z_{re}	$< 9.64 \quad (-0.0\sigma)$	$D_M(0.61)$	$2297^{+23}_{-22} \quad (+0.1\sigma)$
n_s	$0.9688^{+0.0093}_{-0.0097} \quad (+0.1\sigma)$	$10^9 A_s$	$2.105^{+0.082}_{-0.065} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.5}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_M(2.33)$	$5756^{+23}_{-22} \quad (+0.4\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1223^{+30}_{-28} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5733^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{2000}	$230.9^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.011}_{-0.0094} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	$0.67^{+0.30}_{-0.35}$	$n_{s,0.002}$	$0.9688^{+0.0093}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0099} \quad (-0.2\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P	$0.24541^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.0091} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P^{BBN}	$0.24673^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0094} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.579^{+0.070}_{-0.060} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0057}_{-0.0047} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	Age/Gyr	$13.783^{+0.052}_{-0.051} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0062}_{-0.0050} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.47}$	z_*	$1089.73^{+0.56}_{-0.53} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.83^{+0.53}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.8}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.04124^{+0.00088}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0025} \quad (-3.4\sigma)$	$D_M(z_*)/Gpc$	$13.909^{+0.053}_{-0.056} \quad (+0.7\sigma)$	$\chi_{lensing}^2$	$9.40 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.90^{+0.72}_{-0.81} \quad (-0.8\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 2.3) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$147.49^{+0.58}_{-0.62} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.73 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	k_D	$0.14048^{+0.00079}_{-0.00073} \quad (-0.9\sigma)$	$\chi_{CamSpec}^2$	$11515.0 \quad (\nu: 16.0)$
H_0	$68.0^{+1.0}_{-1.0} \quad (+0.0\sigma)$	$100\theta_D$	$0.16078^{+0.00048}_{-0.00044} \quad (+0.7\sigma)$	$\chi_{H073p45}^2$	$10.8 \quad (\nu: 1.2) \quad (-0.0\sigma)$
Ω_Λ	$0.694^{+0.013}_{-0.014} \quad (+0.2\sigma)$	z_{eq}	$3364^{+54}_{-50} \quad (-0.4\sigma)$	χ_{6DF}^2	$0.021 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_m	$0.306^{+0.014}_{-0.013} \quad (-0.2\sigma)$	k_{eq}	$0.01027^{+0.00016}_{-0.00015} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.65 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_m h^2$	$0.1414^{+0.0022}_{-0.0021} \quad (-0.4\sigma)$	$100\theta_{eq}$	$0.8205^{+0.0097}_{-0.0099} \quad (+0.3\sigma)$	$\chi_{DR12BAO}^2$	$3.91 \quad (\nu: 0.3) \quad (-0.2\sigma)$
$\Omega_m h^3$	$0.09617^{+0.00074}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{s,eq}$	$0.4531^{+0.0050}_{-0.0051} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.808^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$H(0.15)$	$73.23^{+0.88}_{-0.90} \quad (-0.0\sigma)$	χ_{CMB}^2	$11944.5 \quad (\nu: 17.6) \quad (+1524.1\sigma)$
S_8	$0.815^{+0.026}_{-0.024} \quad (-0.3\sigma)$	$D_M(0.15)$	$637.8^{+9.0}_{-8.6} \quad (+0.0\sigma)$	χ_{BAO}^2	$5.58 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.014}_{-0.013} \quad (-0.3\sigma)$	$H(0.38)$	$83.24^{+0.67}_{-0.67} \quad (-0.1\sigma)$		

$$\bar{\chi}_{eff}^2 = 11968.71; \Delta\bar{\chi}_{eff}^2 = 9150.56; R - 1 = 0.02252$$

2.141 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02232^{+0.00038}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.452^{+0.018}_{-0.016} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	$642^{+11}_{-11} \quad (-0.0\sigma)$
$\Omega_{\text{c}}h^2$	$0.1194^{+0.0029}_{-0.0028} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.605^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$82.93^{+0.81}_{-0.82} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04090^{+0.00079}_{-0.00079} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.021} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1531^{+23}_{-22} \quad (-0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.1\sigma)$	$r_{\text{drag}}h$	$99.5^{+2.2}_{-2.3} \quad (+0.2\sigma)$	$H(0.51)$	$89.66^{+0.66}_{-0.66} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.043^{+0.039}_{-0.028} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.055}_{-0.050} \quad (-0.4\sigma)$	$D_{\text{M}}(0.51)$	$1983^{+26}_{-25} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	z_{re}	$< 9.47 \quad (-0.1\sigma)$	$H(0.61)$	$95.28^{+0.54}_{-0.54} \quad (-0.2\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\text{s}}$	$2.097^{+0.082}_{-0.058} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2308^{+28}_{-27} \quad (+0.0\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.878^{+0.028}_{-0.027} \quad (-0.4\sigma)$	$H(2.33)$	$236.1^{+1.7}_{-1.7} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1226^{+31}_{-29} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5765^{+26}_{-25} \quad (+0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5722^{+99}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.016}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.8\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.4^{+4.2}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24537^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0092} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.0098} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.52}$	$10^5 \text{D}/\text{H}$	$2.596^{+0.075}_{-0.068} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0087} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.43}$	Age/Gyr	$13.801^{+0.059}_{-0.056} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0059}_{-0.0043} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	z_*	$1089.94^{+0.65}_{-0.60} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0064}_{-0.0046} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.42}$	r_*	$144.63^{+0.67}_{-0.66} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$100\theta_*$	$1.04109^{+0.00080}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-5.1} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.6\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.892^{+0.064}_{-0.063} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.76^{+0.82}_{-0.82} \quad (-0.7\sigma)$	χ_{lensing}^2	$9.25 \quad (\nu: 0.2) \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.31^{+0.68}_{-0.70} \quad (+0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
H_0	$67.5^{+1.3}_{-1.3} \quad (+0.0\sigma)$	k_{D}	$0.14059^{+0.00083}_{-0.00081} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.12 \quad (\nu: 0.3) \quad (-0.3\sigma)$
Ω_{Λ}	$0.688^{+0.017}_{-0.018} \quad (+0.2\sigma)$	$100\theta_{\text{D}}$	$0.16085^{+0.00049}_{-0.00048} \quad (+0.7\sigma)$	χ_{CamSpec}^2	$11514.1 \quad (\nu: 15.4)$
Ω_{m}	$0.312^{+0.018}_{-0.017} \quad (-0.2\sigma)$	z_{eq}	$3386^{+65}_{-63} \quad (-0.4\sigma)$	χ_{JLA}^2	$1035.20 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\text{m}}h^2$	$0.1424^{+0.0027}_{-0.0026} \quad (-0.4\sigma)$	k_{eq}	$0.01034^{+0.00020}_{-0.00019} \quad (-0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\text{m}}h^3$	$0.09611^{+0.00078}_{-0.00079} \quad (-0.8\sigma)$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.5 \quad (\nu: 16.5) \quad (+1569.6\sigma)$
σ_8	$0.809^{+0.016}_{-0.013} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4508^{+0.0062}_{-0.0062} \quad (+0.3\sigma)$		
S_8	$0.826^{+0.033}_{-0.029} \quad (-0.3\sigma)$	$H(0.15)$	$72.8^{+1.1}_{-1.1} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12986.49; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.67; R - 1 = 0.01335$$

2.142 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_JLA_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02241^{+0.00037}_{-0.00036} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.601^{+0.015}_{-0.014} \quad (-0.2\sigma)$	$D_{\text{M}}(0.38)$	$1522^{+18}_{-17} \quad (+0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1183^{+0.0023}_{-0.0022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$H(0.51)$	$89.91^{+0.53}_{-0.54} \quad (-0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04107^{+0.00072}_{-0.00079} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$100.3^{+1.7}_{-1.8} \quad (+0.2\sigma)$	$D_{\text{M}}(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.058^{+0.018}_{-0.014} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.053}_{-0.044} \quad (-0.3\sigma)$	$H(0.61)$	$95.48^{+0.46}_{-0.46} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.037}_{-0.032} \quad (-0.2\sigma)$	z_{re}	$< 9.62 \quad (-0.0\sigma)$	$D_{\text{M}}(0.61)$	$2297^{+22}_{-22} \quad (+0.1\sigma)$
n_{s}	$0.9691^{+0.0093}_{-0.0099} \quad (+0.2\sigma)$	$10^9 A_{\text{s}}$	$2.106^{+0.078}_{-0.066} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.4}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0063}_{-0.0066} \quad (+0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5756^{+22}_{-22} \quad (+0.5\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1222^{+30}_{-29} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.013}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5732^{+95}_{-93} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+32}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.99 \quad (-0.7\sigma)$	D_{2000}	$231.0^{+4.1}_{-4.0} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.011}_{-0.011} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.67^{+0.31}_{-0.34}$	$n_{\text{s},0.002}$	$0.9691^{+0.0093}_{-0.0099} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.0098} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24541^{+0.00014}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.0093} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24673^{+0.00014}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0094} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.579^{+0.068}_{-0.066} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0055}_{-0.0048} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.45}$	Age/Gyr	$13.782^{+0.051}_{-0.049} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3076^{+0.0058}_{-0.0051} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.42}_{-0.43}$	z_*	$1089.73^{+0.54}_{-0.53} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.25}$	r_*	$144.84^{+0.53}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.6}_{-5.2} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.45}$	$100\theta_*$	$1.04125^{+0.00069}_{-0.00079} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0025} \quad (-3.4\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.910^{+0.052}_{-0.054} \quad (+0.7\sigma)$	χ_{lensing}^2	$9.41 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0038} \quad (+4.6\sigma)$	z_{drag}	$1059.90^{+0.84}_{-0.81} \quad (-0.8\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.3) \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$147.50^{+0.60}_{-0.61} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.69 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14047^{+0.00080}_{-0.00074} \quad (-0.9\sigma)$	χ_{CamSpec}^2	$11515.3 \quad (\nu: 17.9)$
H_0	$68.0^{+1.0}_{-1.0} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.16079^{+0.00047}_{-0.00049} \quad (+0.7\sigma)$	χ_{H073p45}^2	$10.7 \quad (\nu: 1.2) \quad (+0.0\sigma)$
Ω_{Λ}	$0.694^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3363^{+53}_{-51} \quad (-0.4\sigma)$	χ_{JLA}^2	$706.63 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.306^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	$0.01026^{+0.00016}_{-0.00016} \quad (-0.4\sigma)$	$\chi_{6\text{DF}}^2$	$0.020 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1414^{+0.0022}_{-0.0021} \quad (-0.4\sigma)$	$100\theta_{\text{eq}}$	$0.8206^{+0.0098}_{-0.0098} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.66 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\text{m}} h^3$	$0.09617^{+0.00076}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{\text{s,eq}}$	$0.4532^{+0.0051}_{-0.0050} \quad (+0.4\sigma)$	χ_{DR12BAO}^2	$3.89 \quad (\nu: 0.2) \quad (-0.2\sigma)$
σ_8	$0.808^{+0.016}_{-0.015} \quad (-0.2\sigma)$	$H(0.15)$	$73.25^{+0.87}_{-0.89} \quad (-0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.9\sigma)$
S_8	$0.815^{+0.026}_{-0.025} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$637.7^{+8.8}_{-8.4} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.9 \quad (\nu: 19.6) \quad (+1521.7\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.447^{+0.014}_{-0.013} \quad (-0.2\sigma)$	$H(0.38)$	$83.25^{+0.64}_{-0.66} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.57 \quad (\nu: 0.1) \quad (-0.1\sigma)$

$\bar{\chi}_{\text{eff}}^2 = 12675.50$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.72$; $R - 1 = 0.05354$

2.143 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02235^{+0.00035}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.014}_{-0.013} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0023}_{-0.0023} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$89.75^{+0.55}_{-0.55} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04096^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+1.8}_{-1.8} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+21}_{-21} \quad (+0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.051}_{-0.047} \quad (-0.4\sigma)$	$H(0.61)$	$95.36^{+0.46}_{-0.47} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.029} \quad (-0.3\sigma)$	z_{re}	$< 9.54 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+23}_{-22} \quad (+0.1\sigma)$
n_{s}	$0.9674^{+0.0096}_{-0.0096} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.084}_{-0.060} \quad (-0.3\sigma)$	$H(2.33)$	$235.8^{+1.5}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.026} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-22} \quad (+0.4\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+30}_{-29} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5726^{+98}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.8\sigma)$	D_{2000}	$230.6^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.0097} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.9674^{+0.0096}_{-0.0096} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0093} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0089} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0089} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.590^{+0.071}_{-0.063} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0059}_{-0.0044} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.794^{+0.052}_{-0.050} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0062}_{-0.0047} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.43}$	z_*	$1089.86^{+0.58}_{-0.52} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	r_*	$144.73^{+0.57}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.7^{+4.8}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.04115^{+0.00076}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.057}_{-0.056} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.27 \quad (\nu: 0.2) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.80^{+0.78}_{-0.82} \quad (-0.7\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.8) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.40^{+0.61}_{-0.62} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.94 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14052^{+0.00080}_{-0.00077} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.3 \quad (\nu: 15.4)$
H_0	$67.7^{+1.0}_{-1.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00050}_{-0.00046} \quad (+0.7\sigma)$	χ_{JLA}^2	$1035.02 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.691^{+0.013}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3376^{+54}_{-52} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.038 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.309^{+0.014}_{-0.013} \quad (-0.1\sigma)$	k_{eq}	$0.01030^{+0.00017}_{-0.00016} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0023}_{-0.0022} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.8180^{+0.0098}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09612^{+0.00077}_{-0.00080} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0051}_{-0.0051} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.809^{+0.016}_{-0.013} \quad (-0.3\sigma)$	$H(0.15)$	$72.98^{+0.87}_{-0.90} \quad (-0.0\sigma)$	χ_{CMB}^2	$11943.6 \quad (\nu: 16.4) \quad (+1571.1\sigma)$
S_8	$0.821^{+0.027}_{-0.024} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.3^{+9.0}_{-8.6} \quad (+0.0\sigma)$	χ_{BAO}^2	$5.86 \quad (\nu: 0.4) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$H(0.38)$	$83.06^{+0.67}_{-0.68} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12992.25; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.51; R - 1 = 0.01504$$

2.144 base_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_Pantheon18_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02241^{+0.00033}_{-0.00037} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.015}_{-0.012} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1522^{+18}_{-17} \quad (+0.0\sigma)$
$\Omega_{\text{c}} h^2$	$0.1183^{+0.0023}_{-0.0021} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.022}_{-0.019} \quad (-0.2\sigma)$	$H(0.51)$	$89.91^{+0.55}_{-0.54} \quad (-0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04107^{+0.00089}_{-0.00078} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$100.4^{+1.7}_{-1.7} \quad (+0.2\sigma)$	$D_{\text{M}}(0.51)$	$1973^{+21}_{-20} \quad (+0.1\sigma)$
τ	$0.058^{+0.019}_{-0.014} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.052}_{-0.047} \quad (-0.3\sigma)$	$H(0.61)$	$95.49^{+0.48}_{-0.46} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.038}_{-0.032} \quad (-0.2\sigma)$	z_{re}	$< 9.64 \quad (-0.0\sigma)$	$D_{\text{M}}(0.61)$	$2296^{+22}_{-21} \quad (+0.1\sigma)$
n_{s}	$0.9690^{+0.0093}_{-0.0095} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.106^{+0.082}_{-0.066} \quad (-0.2\sigma)$	$H(2.33)$	$235.5^{+1.4}_{-1.4} \quad (-0.5\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.875^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5756^{+22}_{-22} \quad (+0.5\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1223^{+30}_{-28} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.451^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5733^{+97}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+40}_{-40} \quad (-1.2\sigma)$	D_{810}	$2537^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{2000}	$230.9^{+3.9}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.0093} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.67^{+0.30}_{-0.35}$	$n_{\text{s},0.002}$	$0.9690^{+0.0093}_{-0.0095} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0099} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24541^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.010}_{-0.0091} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24674^{+0.00012}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0094} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.578^{+0.069}_{-0.059} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0059}_{-0.0048} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	Age/Gyr	$13.782^{+0.051}_{-0.050} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3076^{+0.0062}_{-0.0051} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.46}$	z_*	$1089.72^{+0.55}_{-0.52} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.84^{+0.53}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+4.7}_{-5.1} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.04125^{+0.00088}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0025} \quad (-3.4\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.911^{+0.052}_{-0.055} \quad (+0.7\sigma)$	χ_{lensing}^2	$9.42 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.91^{+0.71}_{-0.81} \quad (-0.8\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.3) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$147.50^{+0.57}_{-0.61} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.71 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	k_{D}	$0.14047^{+0.00077}_{-0.00074} \quad (-0.9\sigma)$	χ_{CamSpec}^2	$11515.0 \quad (\nu: 16.0)$
H_0	$68.0^{+1.0}_{-1.0} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.16078^{+0.00048}_{-0.00044} \quad (+0.7\sigma)$	χ_{H073p45}^2	$10.7 \quad (\nu: 1.1) \quad (-0.0\sigma)$
Ω_{Λ}	$0.695^{+0.012}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3362^{+52}_{-49} \quad (-0.4\sigma)$	χ_{JLA}^2	$1034.87 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.305^{+0.014}_{-0.012} \quad (-0.1\sigma)$	k_{eq}	$0.01026^{+0.00016}_{-0.00015} \quad (-0.4\sigma)$	$\chi_{6\text{DF}}^2$	$0.019 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1413^{+0.0022}_{-0.0020} \quad (-0.4\sigma)$	$100\theta_{\text{eq}}$	$0.8207^{+0.0094}_{-0.0097} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.67 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\text{m}} h^3$	$0.09617^{+0.00074}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{\text{s,eq}}$	$0.4532^{+0.0048}_{-0.0050} \quad (+0.4\sigma)$	χ_{DR12BAO}^2	$3.86 \quad (\nu: 0.2) \quad (-0.2\sigma)$
σ_8	$0.808^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$H(0.15)$	$73.26^{+0.86}_{-0.88} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.815^{+0.026}_{-0.023} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$637.6^{+8.7}_{-8.3} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.6 \quad (\nu: 17.7) \quad (+1522.6\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.014}_{-0.013} \quad (-0.2\sigma)$	$H(0.38)$	$83.26^{+0.65}_{-0.65} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.55 \quad (\nu: 0.1) \quad (-0.1\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 13003.54; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.53; R - 1 = 0.02380$$

2.145 base_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02208	$0.02210^{+0.00057}_{-0.00055}$	$\sigma_8/h^{0.5}$	0.9900	$0.990^{+0.043}_{-0.041}$	$H(0.15)$	72.29	$72.3^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.1204	$0.1204^{+0.0055}_{-0.0052}$	$r_{\text{drag}} h$	98.58	$98.6^{+4.2}_{-4.1}$	$D_M(0.15)$	647.2	647^{+21}_{-20}
$100\theta_{\text{MC}}$	1.04082	$1.0408^{+0.0013}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.449^{+0.099}_{-0.097}$	$H(0.38)$	82.53	$82.6^{+1.5}_{-1.4}$
τ	0.0511	$0.052^{+0.023}_{-0.021}$	z_{re}	7.41	$7.5^{+2.2}_{-2.4}$	$D_M(0.38)$	1541.5	1541^{+41}_{-40}
$\ln(10^{10} A_s)$	3.0368	$3.038^{+0.046}_{-0.044}$	$10^9 A_s$	2.084	$2.086^{+0.097}_{-0.091}$	$H(0.51)$	89.32	$89.3^{+1.2}_{-1.1}$
n_s	0.9623	$0.962^{+0.015}_{-0.015}$	$10^9 A_s e^{-2\tau}$	1.8816	$1.880^{+0.037}_{-0.034}$	$D_M(0.51)$	1995.6	1995^{+48}_{-46}
y_{cal}	1.0005	$1.0004^{+0.0062}_{-0.0063}$	D_{40}	1232.5	1232^{+40}_{-39}	$H(0.61)$	95.00	$95.02^{+0.93}_{-0.86}$
A_{100}^{PS}	252	255^{+70}_{-70}	D_{220}	5708	5705^{+100}_{-100}	$D_M(0.61)$	2321	2321^{+51}_{-50}
A_{143}^{tSZ}	6.20	< 8.87	D_{810}	2533.2	2531^{+35}_{-34}	$H(2.33)$	236.56	$236.6^{+3.3}_{-3.2}$
A^{kSZ}	0.3	—	D_{1420}	813.1	813^{+13}_{-14}	$D_M(2.33)$	5778.3	5778^{+41}_{-42}
A_{100}^{dust}	0.99	$1.00^{+0.51}_{-0.49}$	D_{2000}	229.01	$228.9^{+4.8}_{-4.8}$	$f\sigma_8(0.15)$	0.4618	$0.462^{+0.033}_{-0.031}$
A_{143}^{power}	12.3	$10.4^{+6.6}_{-5.5}$	$n_{s,0.002}$	0.9623	$0.962^{+0.015}_{-0.015}$	$\sigma_8(0.15)$	0.7476	$0.748^{+0.020}_{-0.019}$
A_{217}^{power}	11.8	$8.2^{+7.1}_{-5.0}$	Y_P	0.245277	$0.24528^{+0.00023}_{-0.00026}$	$f\sigma_8(0.38)$	0.4783	$0.478^{+0.025}_{-0.025}$
$A_{143 \times 217}^{\text{power}}$	8.0	< 10.6	Y_P^{BBN}	0.246603	$0.24660^{+0.00023}_{-0.00026}$	$\sigma_8(0.38)$	0.6618	$0.662^{+0.017}_{-0.016}$
$\gamma_{143}^{\text{power}}$	1.33	> 0.370	10^5D/H	2.640	$2.64^{+0.11}_{-0.11}$	$f\sigma_8(0.51)$	0.4760	$0.476^{+0.022}_{-0.021}$
$\gamma_{217}^{\text{power}}$	1.23	—	Age/Gyr	13.831	$13.830^{+0.093}_{-0.093}$	$\sigma_8(0.51)$	0.6190	$0.619^{+0.015}_{-0.015}$
$\gamma_{143 \times 217}^{\text{power}}$	1.17	—	z_*	1090.33	$1090.3^{+1.1}_{-1.0}$	$f\sigma_8(0.61)$	0.4703	$0.470^{+0.019}_{-0.019}$
c_{100}	0.99810	$0.9978^{+0.0027}_{-0.0028}$	r_*	144.53	$144.5^{+1.2}_{-1.2}$	$\sigma_8(0.61)$	0.5888	$0.589^{+0.014}_{-0.014}$
c_{217}	0.99914	$0.9994^{+0.0043}_{-0.0034}$	$100\theta_*$	1.04103	$1.0410^{+0.0012}_{-0.0012}$	$f\sigma_8(2.33)$	0.2965	$0.2966^{+0.0071}_{-0.0067}$
H_0	66.93	$66.9^{+2.4}_{-2.4}$	$D_M(z_*)/\text{Gpc}$	13.884	$13.88^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	0.3054	$0.3054^{+0.0075}_{-0.0070}$
Ω_Λ	0.6803	$0.680^{+0.032}_{-0.036}$	z_{drag}	1059.28	$1059.3^{+1.2}_{-1.1}$	f_{2000}^{143}	23.8	24^{+8}_{-8}
Ω_m	0.3197	$0.320^{+0.036}_{-0.032}$	r_{drag}	147.29	$147.3^{+1.2}_{-1.2}$	f_{2000}^{217}	17.1	$16.9^{+5.3}_{-5.1}$
$\Omega_m h^2$	0.1432	$0.1432^{+0.0052}_{-0.0050}$	k_D	0.14043	$0.1405^{+0.0013}_{-0.0013}$	$f_{2000}^{143 \times 217}$	11.6	$11.2^{+5.7}_{-5.5}$
$\Omega_m h^3$	0.09582	$0.0958^{+0.0012}_{-0.0011}$	$100\theta_D$	0.16113	$0.16111^{+0.00068}_{-0.00068}$	χ_{simall}^2	395.79	$396.9 (\nu: 1.5)$
σ_8	0.8099	$0.810^{+0.024}_{-0.023}$	z_{eq}	3406	3406^{+120}_{-120}	χ_{lowl}^2	23.70	$23.8 (\nu: 0.9)$
S_8	0.836	$0.836^{+0.065}_{-0.060}$	k_{eq}	0.010396	$0.01040^{+0.00038}_{-0.00036}$	χ_{CamSpec}^2	6704.4	$6716.2 (\nu: 13.3)$
$\sigma_8 \Omega_m^{0.5}$	0.4579	$0.458^{+0.036}_{-0.033}$	$100\theta_{\text{eq}}$	0.8117	$0.812^{+0.023}_{-0.023}$	χ_{prior}^2	1.2	$5.3 (\nu: 4.2)$
$\sigma_8 \Omega_m^{0.25}$	0.6090	$0.609^{+0.031}_{-0.030}$	$100\theta_{s,\text{eq}}$	0.4488	$0.449^{+0.012}_{-0.012}$	χ_{CMB}^2	7123.9	$7137.0 (\nu: 13.6)$

Best-fit $\chi_{\text{eff}}^2 = 7125.11$; $\bar{\chi}_{\text{eff}}^2 = 7142.20$; $R - 1 = 0.00552$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.79 commander_dx12_v3_2_29: 23.70 CamSpec like_10.7cleaned: 6704.43

2.146 base_lensing_lenspriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2788	2628^{+1000}_{-900}	$H(0.38)$	107.7	84^{+30}_{-20}
$\Omega_c h^2$	0.1163	$0.111^{+0.033}_{-0.027}$	D_{1420}	756	819^{+400}_{-300}	$D_M(0.38)$	1121	1585^{+700}_{-500}
$100\theta_{MC}$	1.118	$1.03^{+0.11}_{-0.11}$	D_{2000}	215	264^{+200}_{-100}	$H(0.51)$	112.9	90^{+30}_{-20}
$\ln(10^{10} A_s)$	3.262	$3.13^{+0.33}_{-0.33}$	$n_{s,0.002}$	0.961	$0.960^{+0.050}_{-0.051}$	$D_M(0.51)$	1475	2047^{+900}_{-600}
n_s	0.961	$0.960^{+0.050}_{-0.051}$	Y_P	0.24533	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	117.3	95^{+30}_{-20}
H_0	96.6	—	Y_P^{BBN}	0.24666	$0.24664^{+0.00055}_{-0.00055}$	$D_M(0.61)$	1736	2378^{+1000}_{-700}
Ω_Λ	0.851	$0.66^{+0.22}_{-0.46}$	$10^5 D/H$	2.616	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	243.6	230^{+30}_{-30}
Ω_m	0.149	$0.34^{+0.46}_{-0.22}$	Age/Gyr	11.74	$14.2^{+3.8}_{-3.0}$	$D_M(2.33)$	4847	5909^{+2000}_{-1000}
$\Omega_m h^2$	0.1391	$0.134^{+0.033}_{-0.027}$	z_*	1089.79	$1089.4^{+3.2}_{-2.8}$	$f\sigma_8(0.15)$	0.374	$0.439^{+0.084}_{-0.098}$
$\Omega_m h^3$	0.134	$0.093^{+0.061}_{-0.049}$	r_*	145.5	$147.0^{+8.0}_{-8.4}$	$\sigma_8(0.15)$	0.890	$0.74^{+0.18}_{-0.20}$
σ_8	0.939	$0.80^{+0.18}_{-0.20}$	$100\theta_*$	1.118	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	0.432	$0.453^{+0.045}_{-0.056}$
S_8	0.662	$0.80^{+0.24}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	13.01	$14.3^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	0.817	$0.66^{+0.19}_{-0.21}$
$\sigma_8 \Omega_m^{0.5}$	0.362	$0.44^{+0.13}_{-0.11}$	z_{drag}	1059.28	$1058.9^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	0.453	$0.453^{+0.048}_{-0.054}$
$\sigma_8 \Omega_m^{0.25}$	0.583	$0.589^{+0.050}_{-0.053}$	r_{drag}	148.3	$149.8^{+8.3}_{-8.7}$	$\sigma_8(0.51)$	0.777	$0.62^{+0.19}_{-0.21}$
$\sigma_8/h^{0.5}$	0.955	$0.974^{+0.052}_{-0.062}$	k_D	0.1395	$0.1380^{+0.0096}_{-0.0085}$	$f\sigma_8(0.61)$	0.466	$0.449^{+0.055}_{-0.071}$
$r_{\text{drag}} h$	143.3	103^{+50}_{-40}	$100\theta_D$	0.1731	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	0.748	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	2.492	$2.50^{+0.14}_{-0.14}$	z_{eq}	3309	3189^{+800}_{-600}	$f\sigma_8(2.33)$	0.388	$0.30^{+0.10}_{-0.11}$
z_{re}	7.89	$7.63^{+0.75}_{-0.70}$	k_{eq}	0.01010	$0.0097^{+0.0024}_{-0.0019}$	$\sigma_8(2.33)$	0.419	$0.31^{+0.13}_{-0.12}$
$10^9 A_s$	2.61	$2.32^{+0.88}_{-0.67}$	$100\theta_{\text{eq}}$	0.892	$0.85^{+0.13}_{-0.12}$	χ^2_{lensing}	7.49	$9.6 (\nu: 2.0)$
$10^9 A_s e^{-2\tau}$	2.34	$2.07^{+0.79}_{-0.60}$	$100\theta_{s,\text{eq}}$	0.492	$0.468^{+0.067}_{-0.061}$	χ^2_{prior}	0.00	$2.0 (\nu: 1.9)$
D_{40}	1641	1400^{+600}_{-500}	$H(0.15)$	100.3	74^{+30}_{-30}			
D_{220}	7133	6564^{+3000}_{-2000}	$D_M(0.15)$	457	670^{+400}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 7.49$; $\bar{\chi}^2_{\text{eff}} = 11.58$; $R - 1 = 0.00149$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.49

2.147 base_lensing_lenspriors_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2815	2748^{+700}_{-800}	$H(0.38)$	81.0	82^{+10}_{-10}
$\Omega_c h^2$	0.1091	$0.112^{+0.034}_{-0.025}$	D_{1420}	892	866^{+200}_{-300}	$D_M(0.38)$	1561	1547^{+200}_{-200}
$100\theta_{MC}$	1.027	$1.031^{+0.062}_{-0.058}$	D_{2000}	253	253^{+100}_{-90}	$H(0.51)$	87.4	88^{+10}_{-10}
$\ln(10^{10} A_s)$	3.147	$3.13^{+0.25}_{-0.25}$	$n_{s,0.002}$	0.961	$0.959^{+0.052}_{-0.052}$	$D_M(0.51)$	2024	2007^{+300}_{-300}
n_s	0.961	$0.959^{+0.052}_{-0.052}$	Y_P	0.24533	$0.24532^{+0.00052}_{-0.00054}$	$H(0.61)$	92.8	94^{+10}_{-10}
H_0	66.5	67^{+10}_{-9}	Y_P^{BBN}	0.24665	$0.24664^{+0.00052}_{-0.00054}$	$D_M(0.61)$	2357	2337^{+300}_{-300}
Ω_Λ	0.702	$0.702^{+0.054}_{-0.059}$	$10^5 D/H$	2.618	$2.62^{+0.25}_{-0.22}$	$H(2.33)$	227.7	230^{+30}_{-20}
Ω_m	0.298	$0.298^{+0.059}_{-0.054}$	Age/Gyr	14.19	$14.1^{+1.8}_{-1.7}$	$D_M(2.33)$	5928	5881^{+700}_{-700}
$\Omega_m h^2$	0.1319	$0.134^{+0.033}_{-0.025}$	z_*	1089.15	$1089.4^{+3.3}_{-2.7}$	$f\sigma_8(0.15)$	0.4428	$0.443^{+0.041}_{-0.040}$
$\Omega_m h^3$	0.0877	$0.091^{+0.038}_{-0.027}$	r_*	147.5	$146.9^{+7.5}_{-8.3}$	$\sigma_8(0.15)$	0.741	$0.744^{+0.077}_{-0.074}$
σ_8	0.800	$0.804^{+0.082}_{-0.075}$	$100\theta_*$	1.027	$1.031^{+0.062}_{-0.058}$	$f\sigma_8(0.38)$	0.4638	$0.465^{+0.040}_{-0.038}$
S_8	0.798	$0.799^{+0.078}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	14.36	$14.3^{+1.6}_{-1.6}$	$\sigma_8(0.38)$	0.658	$0.661^{+0.074}_{-0.067}$
$\sigma_8 \Omega_m^{0.5}$	0.4372	$0.438^{+0.043}_{-0.041}$	z_{drag}	1058.75	$1058.9^{+3.7}_{-3.8}$	$f\sigma_8(0.51)$	0.4640	$0.465^{+0.040}_{-0.040}$
$\sigma_8 \Omega_m^{0.25}$	0.592	$0.593^{+0.052}_{-0.050}$	r_{drag}	150.3	$149.7^{+8.0}_{-8.5}$	$\sigma_8(0.51)$	0.617	$0.619^{+0.072}_{-0.064}$
$\sigma_8/h^{0.5}$	0.9815	$0.980^{+0.050}_{-0.048}$	k_D	0.1374	$0.1381^{+0.0091}_{-0.0081}$	$f\sigma_8(0.61)$	0.4601	$0.461^{+0.041}_{-0.040}$
$r_{\text{drag}} h$	99.9	101^{+10}_{-10}	$100\theta_D$	0.1592	$0.1598^{+0.0088}_{-0.0082}$	$\sigma_8(0.61)$	0.587	$0.590^{+0.070}_{-0.062}$
$\langle d^2 \rangle^{1/2}$	2.508	$2.50^{+0.15}_{-0.14}$	z_{eq}	3136	3196^{+800}_{-600}	$f\sigma_8(2.33)$	0.2966	$0.298^{+0.037}_{-0.032}$
z_{re}	7.58	$7.63^{+0.71}_{-0.58}$	k_{eq}	0.00957	$0.0098^{+0.0024}_{-0.0018}$	$\sigma_8(2.33)$	0.3063	$0.308^{+0.040}_{-0.034}$
$10^9 A_s$	2.33	$2.30^{+0.63}_{-0.52}$	$100\theta_{\text{eq}}$	0.852	$0.847^{+0.091}_{-0.094}$	χ^2_{lensing}	7.6	9.6 (ν : 2.0)
$10^9 A_s e^{-2\tau}$	2.08	$2.06^{+0.57}_{-0.47}$	$100\theta_{s,\text{eq}}$	0.4693	$0.467^{+0.046}_{-0.047}$	χ^2_{JLA}	1034.73	1035.7 (ν : 1.0)
D_{40}	1400	1387^{+400}_{-300}	$H(0.15)$	71.5	72^{+10}_{-10}	χ^2_{prior}	0.00	2.0 (ν : 2.0)
D_{220}	6666	6566^{+3000}_{-2000}	$D_M(0.15)$	653	647^{+100}_{-90}			

Best-fit $\chi^2_{\text{eff}} = 1042.33$; $\bar{\chi}^2_{\text{eff}} = 1047.30$; $R - 1 = 0.00566$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.59 SN - JLA Pantheon18: 1034.73

2.148 base_lensing_lenspriors_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2732^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.029}_{-0.023}$	D_{1420}	854^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1572^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	276^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.17^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2033^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00056}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2364^{+1000}_{-700}
Ω_{Λ}	$0.68^{+0.21}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	227^{+30}_{-30}
Ω_{m}	$0.32^{+0.44}_{-0.21}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.2^{+3.9}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5925^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.130^{+0.029}_{-0.024}$	z_{*}	$1089.0^{+2.9}_{-2.6}$	$f\sigma_8(0.15)$	$0.426^{+0.081}_{-0.089}$
$\Omega_{\mathrm{m}}h^3$	$0.091^{+0.057}_{-0.048}$	r_{*}	$148.2^{+7.2}_{-7.6}$	$\sigma_8(0.15)$	$0.74^{+0.17}_{-0.20}$
σ_8	$0.80^{+0.17}_{-0.19}$	$100\theta_{*}$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.444^{+0.039}_{-0.052}$
S_8	$0.78^{+0.23}_{-0.18}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.4^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.18}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.425^{+0.13}_{-0.099}$	z_{drag}	$1058.5^{+3.7}_{-3.7}$	$f\sigma_8(0.51)$	$0.445^{+0.040}_{-0.050}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.578^{+0.042}_{-0.044}$	r_{drag}	$151.0^{+7.4}_{-7.9}$	$\sigma_8(0.51)$	$0.62^{+0.18}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.963^{+0.047}_{-0.056}$	k_{D}	$0.1367^{+0.0086}_{-0.0076}$	$f\sigma_8(0.61)$	$0.443^{+0.047}_{-0.067}$
$r_{\mathrm{drag}}h$	105^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.18}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	z_{eq}	3086^{+700}_{-600}	$f\sigma_8(2.33)$	$0.300^{+0.099}_{-0.11}$
z_{re}	$7.56^{+0.70}_{-0.68}$	k_{eq}	$0.0094^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.13}$
10^9A_{s}	$2.40^{+0.85}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.87^{+0.11}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.15^{+0.76}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.477^{+0.060}_{-0.058}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1464^{+600}_{-500}	$H(0.15)$	75^{+30}_{-30}		
D_{220}	6917^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	663^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 13.89$; $R - 1 = 0.00196$

2.149 base_lensing_lenspriors_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2642^{+1000}_{-1000}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.111^{+0.039}_{-0.030}$	D_{1420}	825^{+400}_{-400}	$D_{\mathrm{M}}(0.38)$	1584^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.12}$	D_{2000}	267^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.14^{+0.36}_{-0.37}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2046^{+900}_{-600}
n_{s}	$0.960^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2377^{+1000}_{-700}
Ω_{Λ}	$0.66^{+0.22}_{-0.47}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	230^{+30}_{-30}
Ω_{m}	$0.34^{+0.47}_{-0.22}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.2^{+3.9}_{-3.1}$	$D_{\mathrm{M}}(2.33)$	5912^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.134^{+0.039}_{-0.030}$	z_{*}	$1089.3^{+3.6}_{-3.2}$	$f\sigma_8(0.15)$	$0.438^{+0.086}_{-0.10}$
$\Omega_{\mathrm{m}}h^3$	$0.093^{+0.064}_{-0.050}$	r_{*}	$147.1^{+8.9}_{-9.8}$	$\sigma_8(0.15)$	$0.74^{+0.18}_{-0.20}$
σ_8	$0.80^{+0.18}_{-0.20}$	$100\theta_{*}$	$1.03^{+0.11}_{-0.12}$	$f\sigma_8(0.38)$	$0.453^{+0.047}_{-0.060}$
S_8	$0.80^{+0.25}_{-0.21}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.3^{+2.5}_{-2.2}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.14}_{-0.11}$	z_{drag}	$1058.8^{+4.0}_{-4.1}$	$f\sigma_8(0.51)$	$0.452^{+0.051}_{-0.055}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.588^{+0.052}_{-0.059}$	r_{drag}	$149.9^{+9.3}_{-10}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.973^{+0.053}_{-0.063}$	k_{D}	$0.138^{+0.011}_{-0.0095}$	$f\sigma_8(0.61)$	$0.449^{+0.059}_{-0.071}$
$r_{\mathrm{drag}}h$	103^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.017}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.17}_{-0.16}$	z_{eq}	3183^{+900}_{-700}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.62^{+0.81}_{-0.78}$	k_{eq}	$0.0097^{+0.0028}_{-0.0022}$	$\sigma_8(2.33)$	$0.31^{+0.13}_{-0.12}$
10^9A_{s}	$2.33^{+0.98}_{-0.74}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.14}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$9.6 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.09^{+0.88}_{-0.66}$	$100\theta_{\mathrm{s,eq}}$	$0.469^{+0.075}_{-0.066}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
D_{40}	1413^{+700}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6635^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	670^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 11.55$; $R - 1 = 0.00268$

2.150 base_lensing_lenspriors_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2593^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.034}_{-0.027}$	D_{1420}	806^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1585^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	259^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.12^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2047^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	96^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2377^{+1000}_{-700}
Ω_{Λ}	$0.65^{+0.23}_{-0.47}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	231^{+30}_{-30}
Ω_{m}	$0.35^{+0.47}_{-0.23}$	Age/Gyr	$14.1^{+3.8}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5896^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.135^{+0.034}_{-0.027}$	z_*	$1089.5^{+3.2}_{-2.8}$	$f\sigma_8(0.15)$	$0.441^{+0.084}_{-0.098}$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.062}_{-0.049}$	r_*	$146.7^{+8.0}_{-8.5}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.20}$
σ_8	$0.80^{+0.18}_{-0.20}$	$100\theta_*$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.455^{+0.044}_{-0.056}$
S_8	$0.81^{+0.24}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.2^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.13}_{-0.11}$	z_{drag}	$1059.0^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.454^{+0.049}_{-0.056}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.049}_{-0.052}$	r_{drag}	$149.4^{+8.3}_{-8.7}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.21}$
$\sigma_8/h^{0.5}$	$0.976^{+0.052}_{-0.061}$	k_{D}	$0.1383^{+0.0098}_{-0.0085}$	$f\sigma_8(0.61)$	$0.451^{+0.056}_{-0.072}$
$r_{\mathrm{drag}}h$	102^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.14}_{-0.14}$	z_{eq}	3220^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.11}_{-0.11}$
z_{re}	$7.66^{+0.75}_{-0.71}$	k_{eq}	$0.0098^{+0.0025}_{-0.0020}$	$\sigma_8(2.33)$	$0.31^{+0.13}_{-0.12}$
10^9A_{s}	$2.29^{+0.86}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.84^{+0.13}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$7.5 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.05^{+0.77}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.465^{+0.067}_{-0.062}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1381^{+600}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6452^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	671^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 9.48$; $R - 1 = 0.00229$

2.151 base_lensing_lenspriors_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0015}$	D_{810}	3025^{+1000}_{-1000}	$H(0.38)$	82^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.099^{+0.033}_{-0.026}$	D_{1420}	964^{+300}_{-400}	$D_{\mathrm{M}}(0.38)$	1600^{+800}_{-600}
$100\theta_{\mathrm{MC}}$	$1.02^{+0.11}_{-0.11}$	D_{2000}	324^{+200}_{-200}	$H(0.51)$	88^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.27^{+0.28}_{-0.37}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.048}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2071^{+900}_{-700}
n_{s}	$0.960^{+0.048}_{-0.050}$	Y_{P}	$0.24530^{+0.00057}_{-0.00066}$	$H(0.61)$	93^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00057}_{-0.00066}$	$D_{\mathrm{M}}(0.61)$	2410^{+1000}_{-800}
Ω_{Λ}	$0.69^{+0.22}_{-0.43}$	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.30}_{-0.24}$	$H(2.33)$	221^{+30}_{-30}
Ω_{m}	$0.31^{+0.43}_{-0.22}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.6^{+4.0}_{-3.5}$	$D_{\mathrm{M}}(2.33)$	6070^{+2000}_{-2000}
$\Omega_{\mathrm{m}}h^2$	$0.122^{+0.033}_{-0.026}$	z_*	$1088.3^{+3.2}_{-2.7}$	$f\sigma_8(0.15)$	$0.419^{+0.093}_{-0.097}$
$\Omega_{\mathrm{m}}h^3$	$0.084^{+0.059}_{-0.046}$	r_*	$150.4^{+8.3}_{-9.0}$	$\sigma_8(0.15)$	$0.74^{+0.18}_{-0.20}$
σ_8	$0.79^{+0.17}_{-0.18}$	$100\theta_*$	$1.02^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.440^{+0.048}_{-0.060}$
S_8	$0.76^{+0.25}_{-0.19}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.8^{+2.5}_{-2.2}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.42^{+0.14}_{-0.11}$	z_{drag}	$1057.9^{+4.0}_{-4.1}$	$f\sigma_8(0.51)$	$0.442^{+0.048}_{-0.051}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.572^{+0.053}_{-0.065}$	r_{drag}	$153.3^{+8.6}_{-9.3}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.968^{+0.065}_{-0.070}$	k_{D}	$0.1344^{+0.0099}_{-0.0083}$	$f\sigma_8(0.61)$	$0.440^{+0.054}_{-0.065}$
$r_{\mathrm{drag}}h$	105^{+50}_{-50}	$100\theta_{\mathrm{D}}$	$0.158^{+0.017}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.19}$
$\langle d^2 \rangle^{1/2}$	$2.58^{+0.16}_{-0.17}$	z_{eq}	2904^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.40^{+0.76}_{-0.73}$	k_{eq}	$0.0089^{+0.0024}_{-0.0019}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.12}$
10^9A_{s}	$2.65^{+0.84}_{-0.84}$	$100\theta_{\mathrm{eq}}$	$0.90^{+0.13}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$11.0 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.38^{+0.75}_{-0.76}$	$100\theta_{\mathrm{s,eq}}$	$0.493^{+0.065}_{-0.069}$	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{40}	1645^{+600}_{-600}	$H(0.15)$	73^{+30}_{-30}		
D_{220}	7958^{+3000}_{-3000}	$D_{\mathrm{M}}(0.15)$	673^{+400}_{-300}		

$\bar{\chi}^2_{\mathrm{eff}} = 13.04$; $R - 1 = 0.02912$

2.152 base_lensing_lenspriors_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2552^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.034}_{-0.027}$	D_{1420}	793^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1582^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	254^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.11^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2043^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00054}_{-0.00055}$	$H(0.61)$	96^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00054}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2372^{+1000}_{-700}
Ω_{Λ}	$0.65^{+0.23}_{-0.48}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	231^{+30}_{-30}
Ω_{m}	$0.35^{+0.47}_{-0.23}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.1^{+3.8}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5890^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.135^{+0.034}_{-0.027}$	z_{*}	$1089.5^{+3.2}_{-2.9}$	$f\sigma_8(0.15)$	$0.437^{+0.083}_{-0.098}$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.062}_{-0.050}$	r_{*}	$146.7^{+8.1}_{-8.5}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.21}$
σ_8	$0.79^{+0.18}_{-0.20}$	$100\theta_{*}$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.451^{+0.044}_{-0.056}$
S_8	$0.80^{+0.24}_{-0.20}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.2^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.65^{+0.19}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.13}_{-0.11}$	z_{drag}	$1058.9^{+3.9}_{-3.8}$	$f\sigma_8(0.51)$	$0.450^{+0.049}_{-0.055}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.586^{+0.050}_{-0.052}$	r_{drag}	$149.5^{+8.4}_{-8.8}$	$\sigma_8(0.51)$	$0.61^{+0.19}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.967^{+0.051}_{-0.060}$	k_{D}	$0.1383^{+0.0098}_{-0.0085}$	$f\sigma_8(0.61)$	$0.447^{+0.056}_{-0.071}$
$r_{\mathrm{drag}}h$	103^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.18}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.13}$	z_{eq}	3219^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.66^{+0.75}_{-0.71}$	k_{eq}	$0.0098^{+0.0025}_{-0.0020}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.12}$
10^9A_{s}	$2.25^{+0.84}_{-0.66}$	$100\theta_{\mathrm{eq}}$	$0.84^{+0.13}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$9.8 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.02^{+0.76}_{-0.59}$	$100\theta_{\mathrm{s,eq}}$	$0.465^{+0.068}_{-0.062}$	χ^2_{prior}	$1.9 (\nu: 1.9)$
D_{40}	1359^{+600}_{-400}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6347^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	669^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 11.76$; $R - 1 = 0.00271$

2.153 base_lensing_lenspriors_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2653^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.108^{+0.029}_{-0.024}$	D_{1420}	828^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1570^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	266^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.14^{+0.30}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	2030^{+900}_{-600}
n_{s}	$0.959^{+0.049}_{-0.051}$	Y_{P}	$0.24530^{+0.00054}_{-0.00054}$	$H(0.61)$	96^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00055}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2360^{+1000}_{-700}
Ω_{Λ}	$0.68^{+0.21}_{-0.45}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	228^{+30}_{-30}
Ω_{m}	$0.32^{+0.45}_{-0.21}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.2^{+3.9}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5907^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.131^{+0.029}_{-0.024}$	z_*	$1089.1^{+2.9}_{-2.7}$	$f\sigma_8(0.15)$	$0.425^{+0.080}_{-0.089}$
$\Omega_{\mathrm{m}}h^3$	$0.092^{+0.058}_{-0.049}$	r_*	$147.8^{+7.2}_{-7.6}$	$\sigma_8(0.15)$	$0.73^{+0.17}_{-0.20}$
σ_8	$0.79^{+0.17}_{-0.20}$	$100\theta_*$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.442^{+0.039}_{-0.051}$
S_8	$0.78^{+0.23}_{-0.18}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.4^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.65^{+0.18}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.424^{+0.13}_{-0.099}$	z_{drag}	$1058.6^{+3.7}_{-3.7}$	$f\sigma_8(0.51)$	$0.443^{+0.041}_{-0.050}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.575^{+0.042}_{-0.044}$	r_{drag}	$150.6^{+7.6}_{-8.0}$	$\sigma_8(0.51)$	$0.62^{+0.18}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.957^{+0.046}_{-0.054}$	k_{D}	$0.1371^{+0.0088}_{-0.0077}$	$f\sigma_8(0.61)$	$0.441^{+0.048}_{-0.067}$
$r_{\mathrm{drag}}h$	105^{+50}_{-50}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.18}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.13}$	z_{eq}	3117^{+700}_{-600}	$f\sigma_8(2.33)$	$0.298^{+0.099}_{-0.11}$
z_{re}	$7.58^{+0.69}_{-0.67}$	k_{eq}	$0.0095^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.13}$
10^9A_{s}	$2.33^{+0.80}_{-0.65}$	$100\theta_{\mathrm{eq}}$	$0.86^{+0.11}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$12.1 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.08^{+0.72}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.475^{+0.060}_{-0.059}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1420^{+500}_{-400}	$H(0.15)$	75^{+30}_{-30}		
D_{220}	6682^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	662^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 14.06$; $R - 1 = 0.00285$

2.154 base_lensing_lenspriors_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2557^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.115^{+0.035}_{-0.027}$	D_{1420}	793^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1582^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.04^{+0.11}_{-0.11}$	D_{2000}	252^{+200}_{-100}	$H(0.51)$	91^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.11^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2041^{+900}_{-600}
n_{s}	$0.960^{+0.051}_{-0.050}$	Y_{P}	$0.24531^{+0.00056}_{-0.00056}$	$H(0.61)$	96^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00057}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2370^{+1000}_{-700}
Ω_{Λ}	$0.65^{+0.23}_{-0.48}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.24}$	$H(2.33)$	233^{+30}_{-30}
Ω_{m}	$0.35^{+0.48}_{-0.23}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.1^{+3.7}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5866^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.138^{+0.035}_{-0.028}$	z_{*}	$1089.7^{+3.4}_{-2.8}$	$f\sigma_8(0.15)$	$0.447^{+0.088}_{-0.10}$
$\Omega_{\mathrm{m}}h^3$	$0.095^{+0.063}_{-0.050}$	r_{*}	$146.0^{+8.1}_{-8.8}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.20}$
σ_8	$0.81^{+0.18}_{-0.19}$	$100\theta_{*}$	$1.04^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.460^{+0.047}_{-0.059}$
S_8	$0.82^{+0.24}_{-0.21}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.1^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.45^{+0.13}_{-0.12}$	z_{drag}	$1059.1^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.458^{+0.050}_{-0.056}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.050}_{-0.055}$	r_{drag}	$148.8^{+8.4}_{-9.0}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.21}$
$\sigma_8/h^{0.5}$	$0.981^{+0.052}_{-0.065}$	k_{D}	$0.1390^{+0.0098}_{-0.0087}$	$f\sigma_8(0.61)$	$0.454^{+0.057}_{-0.073}$
$r_{\mathrm{drag}}h$	102^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.14}_{-0.14}$	z_{eq}	3274^{+800}_{-700}	$f\sigma_8(2.33)$	$0.30^{+0.11}_{-0.11}$
z_{re}	$7.70^{+0.76}_{-0.71}$	k_{eq}	$0.00999^{+0.0026}_{-0.0020}$	$\sigma_8(2.33)$	$0.31^{+0.13}_{-0.12}$
10^9A_{s}	$2.26^{+0.87}_{-0.66}$	$100\theta_{\mathrm{eq}}$	$0.84^{+0.13}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$10.1 (\nu: 1.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.02^{+0.78}_{-0.59}$	$100\theta_{\mathrm{s,eq}}$	$0.461^{+0.068}_{-0.060}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
D_{40}	1357^{+600}_{-400}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6306^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	670^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 12.03$; $R - 1 = 0.00429$

2.155 base_lensing_lenspriors_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2618^{+1000}_{-900}	$H(0.38)$	83^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.111^{+0.033}_{-0.027}$	D_{1420}	816^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1592^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	264^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.13^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2055^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2387^{+1000}_{-700}
Ω_{Λ}	$0.65^{+0.23}_{-0.47}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	230^{+30}_{-30}
Ω_{m}	$0.35^{+0.47}_{-0.23}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.2^{+3.8}_{-3.1}$	$D_{\mathrm{M}}(2.33)$	5923^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.134^{+0.032}_{-0.027}$	z_*	$1089.4^{+3.3}_{-2.9}$	$f\sigma_8(0.15)$	$0.439^{+0.084}_{-0.097}$
$\Omega_{\mathrm{m}}h^3$	$0.092^{+0.062}_{-0.049}$	r_*	$147.0^{+8.1}_{-8.3}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.20}$
σ_8	$0.80^{+0.18}_{-0.19}$	$100\theta_*$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.453^{+0.045}_{-0.054}$
S_8	$0.81^{+0.24}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.3^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.13}_{-0.11}$	z_{drag}	$1058.8^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.452^{+0.048}_{-0.054}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.589^{+0.050}_{-0.052}$	r_{drag}	$149.8^{+8.5}_{-8.6}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.973^{+0.051}_{-0.059}$	k_{D}	$0.1379^{+0.0094}_{-0.0086}$	$f\sigma_8(0.61)$	$0.448^{+0.056}_{-0.071}$
$r_{\mathrm{drag}}h$	102^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.017}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.14}_{-0.14}$	z_{eq}	3187^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.63^{+0.75}_{-0.71}$	k_{eq}	$0.0097^{+0.0024}_{-0.0020}$	$\sigma_8(2.33)$	$0.31^{+0.13}_{-0.12}$
10^9A_{s}	$2.31^{+0.86}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.13}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$9.6 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.07^{+0.77}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.467^{+0.067}_{-0.062}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1396^{+600}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6548^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	673^{+400}_{-200}		

$$\bar{\chi}^2_{\mathrm{eff}} = 11.57; R - 1 = 0.00392$$

2.156 base_lensing_lenspriors_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2731^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.029}_{-0.024}$	D_{1420}	855^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1579^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	277^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.17^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.051}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	2041^{+900}_{-600}
n_{s}	$0.959^{+0.051}_{-0.051}$	Y_{P}	$0.24531^{+0.00056}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00056}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2373^{+1000}_{-700}
Ω_{Λ}	$0.68^{+0.21}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	227^{+30}_{-30}
Ω_{m}	$0.32^{+0.44}_{-0.21}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.3^{+3.9}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5943^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.129^{+0.029}_{-0.024}$	z_{*}	$1088.9^{+2.9}_{-2.6}$	$f\sigma_8(0.15)$	$0.425^{+0.080}_{-0.087}$
$\Omega_{\mathrm{m}}h^3$	$0.090^{+0.057}_{-0.048}$	r_{*}	$148.3^{+7.3}_{-7.6}$	$\sigma_8(0.15)$	$0.74^{+0.18}_{-0.20}$
σ_8	$0.79^{+0.17}_{-0.19}$	$100\theta_{*}$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.443^{+0.038}_{-0.051}$
S_8	$0.78^{+0.23}_{-0.18}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.5^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.18}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.425^{+0.13}_{-0.098}$	z_{drag}	$1058.5^{+3.7}_{-3.7}$	$f\sigma_8(0.51)$	$0.445^{+0.040}_{-0.050}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.577^{+0.041}_{-0.043}$	r_{drag}	$151.1^{+7.5}_{-7.9}$	$\sigma_8(0.51)$	$0.62^{+0.18}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.962^{+0.047}_{-0.054}$	k_{D}	$0.1366^{+0.0086}_{-0.0078}$	$f\sigma_8(0.61)$	$0.442^{+0.047}_{-0.067}$
$r_{\mathrm{drag}}h$	104^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.18}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	z_{eq}	3077^{+700}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.55^{+0.70}_{-0.67}$	k_{eq}	$0.0094^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.12}$
10^9A_{s}	$2.40^{+0.85}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.87^{+0.11}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$12.0 (\nu: 2.1)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.15^{+0.76}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.478^{+0.060}_{-0.058}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1466^{+600}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6931^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	665^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 13.97$; $R - 1 = 0.00539$

2.157 base_lensing_lenspriors_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2645^{+1000}_{-900}	$H(0.38)$	83^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.110^{+0.033}_{-0.026}$	D_{1420}	825^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1588^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	266^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.14^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2051^{+900}_{-600}
n_{s}	$0.960^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2382^{+1000}_{-700}
Ω_{Λ}	$0.66^{+0.22}_{-0.47}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	230^{+30}_{-30}
Ω_{m}	$0.34^{+0.47}_{-0.22}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.2^{+3.8}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5923^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.133^{+0.033}_{-0.026}$	z_{*}	$1089.3^{+3.2}_{-2.8}$	$f\sigma_8(0.15)$	$0.437^{+0.087}_{-0.099}$
$\Omega_{\mathrm{m}}h^3$	$0.092^{+0.061}_{-0.048}$	r_{*}	$147.3^{+7.9}_{-8.3}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.21}$
σ_8	$0.80^{+0.18}_{-0.19}$	$100\theta_{*}$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.452^{+0.046}_{-0.059}$
S_8	$0.80^{+0.25}_{-0.20}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.3^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.14}_{-0.11}$	z_{drag}	$1058.8^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.451^{+0.049}_{-0.053}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.587^{+0.051}_{-0.055}$	r_{drag}	$150.0^{+8.3}_{-8.7}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.972^{+0.055}_{-0.065}$	k_{D}	$0.1377^{+0.0095}_{-0.0085}$	$f\sigma_8(0.61)$	$0.448^{+0.056}_{-0.070}$
$r_{\mathrm{drag}}h$	103^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	z_{eq}	3168^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.10}_{-0.11}$
z_{re}	$7.61^{+0.74}_{-0.70}$	k_{eq}	$0.0097^{+0.0024}_{-0.0019}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.12}$
10^9A_{s}	$2.33^{+0.87}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.13}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$9.6 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.09^{+0.78}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.469^{+0.067}_{-0.063}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1410^{+600}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6626^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	671^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 11.52; R - 1 = 0.00192$

2.158 base_lensing_lenspriors_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2761^{+1000}_{-1000}	$H(0.38)$	84^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.106^{+0.029}_{-0.023}$	D_{1420}	865^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1572^{+800}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.10}_{-0.11}$	D_{2000}	280^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2034^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	95^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00055}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2365^{+1000}_{-700}
Ω_{Λ}	$0.68^{+0.20}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	226^{+30}_{-30}
Ω_{m}	$0.32^{+0.44}_{-0.20}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.3^{+3.9}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5937^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.129^{+0.029}_{-0.023}$	z_{*}	$1088.9^{+2.9}_{-2.6}$	$f\sigma_8(0.15)$	$0.422^{+0.083}_{-0.092}$
$\Omega_{\mathrm{m}}h^3$	$0.090^{+0.056}_{-0.047}$	r_{*}	$148.5^{+7.1}_{-7.6}$	$\sigma_8(0.15)$	$0.74^{+0.17}_{-0.20}$
σ_8	$0.79^{+0.17}_{-0.19}$	$100\theta_{*}$	$1.03^{+0.10}_{-0.11}$	$f\sigma_8(0.38)$	$0.441^{+0.040}_{-0.054}$
S_8	$0.77^{+0.23}_{-0.18}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.5^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.18}_{-0.20}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.42^{+0.13}_{-0.10}$	z_{drag}	$1058.4^{+3.7}_{-3.8}$	$f\sigma_8(0.51)$	$0.443^{+0.041}_{-0.048}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.574^{+0.043}_{-0.046}$	r_{drag}	$151.3^{+7.4}_{-7.9}$	$\sigma_8(0.51)$	$0.62^{+0.18}_{-0.20}$
$\sigma_8/h^{0.5}$	$0.960^{+0.050}_{-0.060}$	k_{D}	$0.1364^{+0.0086}_{-0.0077}$	$f\sigma_8(0.61)$	$0.441^{+0.047}_{-0.065}$
$r_{\mathrm{drag}}h$	105^{+50}_{-50}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.18}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.13}_{-0.14}$	z_{eq}	3057^{+700}_{-600}	$f\sigma_8(2.33)$	$0.300^{+0.098}_{-0.11}$
z_{re}	$7.53^{+0.69}_{-0.68}$	k_{eq}	$0.0093^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.31^{+0.12}_{-0.13}$
10^9A_{s}	$2.42^{+0.84}_{-0.69}$	$100\theta_{\mathrm{eq}}$	$0.87^{+0.12}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 2.1)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.16^{+0.75}_{-0.62}$	$100\theta_{\mathrm{s,eq}}$	$0.480^{+0.062}_{-0.059}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1481^{+600}_{-500}	$H(0.15)$	75^{+30}_{-30}		
D_{220}	7017^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	662^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 13.92$; $R - 1 = 0.00257$

2.159 base_lensing_lenspriors_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2562^{+1000}_{-900}	$H(0.38)$	84^{+30}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.034}_{-0.027}$	D_{1420}	796^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1586^{+700}_{-500}
$100\theta_{\mathrm{MC}}$	$1.03^{+0.11}_{-0.11}$	D_{2000}	255^{+200}_{-100}	$H(0.51)$	90^{+30}_{-20}
$\ln(10^{10}A_{\mathrm{s}})$	$3.11^{+0.33}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2047^{+900}_{-600}
n_{s}	$0.959^{+0.050}_{-0.050}$	Y_{P}	$0.24531^{+0.00055}_{-0.00055}$	$H(0.61)$	96^{+30}_{-20}
H_0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2377^{+1000}_{-700}
Ω_{Λ}	$0.65^{+0.23}_{-0.47}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	232^{+30}_{-30}
Ω_{m}	$0.35^{+0.47}_{-0.23}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.1^{+3.8}_{-3.0}$	$D_{\mathrm{M}}(2.33)$	5891^{+2000}_{-1000}
$\Omega_{\mathrm{m}}h^2$	$0.136^{+0.034}_{-0.027}$	z_*	$1089.5^{+3.2}_{-2.8}$	$f\sigma_8(0.15)$	$0.442^{+0.084}_{-0.098}$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.062}_{-0.050}$	r_*	$146.5^{+8.1}_{-8.5}$	$\sigma_8(0.15)$	$0.74^{+0.19}_{-0.20}$
σ_8	$0.80^{+0.18}_{-0.20}$	$100\theta_*$	$1.03^{+0.11}_{-0.11}$	$f\sigma_8(0.38)$	$0.455^{+0.044}_{-0.055}$
S_8	$0.81^{+0.24}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.2^{+2.4}_{-2.0}$	$\sigma_8(0.38)$	$0.66^{+0.19}_{-0.21}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.44^{+0.13}_{-0.11}$	z_{drag}	$1059.0^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.454^{+0.049}_{-0.056}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.049}_{-0.052}$	r_{drag}	$149.3^{+8.4}_{-8.8}$	$\sigma_8(0.51)$	$0.62^{+0.19}_{-0.21}$
$\sigma_8/h^{0.5}$	$0.974^{+0.052}_{-0.060}$	k_{D}	$0.1385^{+0.0098}_{-0.0086}$	$f\sigma_8(0.61)$	$0.450^{+0.057}_{-0.072}$
$r_{\mathrm{drag}}h$	102^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.160^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	$0.59^{+0.19}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.14}_{-0.14}$	z_{eq}	3236^{+800}_{-600}	$f\sigma_8(2.33)$	$0.30^{+0.11}_{-0.11}$
z_{re}	$7.67^{+0.74}_{-0.71}$	k_{eq}	$0.0099^{+0.0025}_{-0.0020}$	$\sigma_8(2.33)$	$0.31^{+0.13}_{-0.12}$
10^9A_{s}	$2.26^{+0.86}_{-0.67}$	$100\theta_{\mathrm{eq}}$	$0.84^{+0.13}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$8.4 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.03^{+0.77}_{-0.60}$	$100\theta_{\mathrm{s,eq}}$	$0.464^{+0.067}_{-0.061}$	χ^2_{prior}	$2.0 (\nu: 1.9)$
D_{40}	1364^{+600}_{-500}	$H(0.15)$	74^{+30}_{-30}		
D_{220}	6361^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	671^{+400}_{-200}		

$\bar{\chi}^2_{\mathrm{eff}} = 10.40$; $R - 1 = 0.00244$

2.160 base_lensing_lenspriors_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2895	2857^{+1000}_{-900}	$H(0.38)$	84.8	$84.6^{+6.0}_{-5.0}$
$\Omega_c h^2$	0.1100	$0.112^{+0.029}_{-0.022}$	D_{1420}	921	909^{+400}_{-300}	$D_M(0.38)$	1477	1487^{+160}_{-140}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0016}_{-0.0016}$	D_{2000}	258	255^{+100}_{-80}	$H(0.51)$	90.97	$90.9^{+4.6}_{-3.3}$
$\ln(10^{10} A_s)$	3.168	$3.15^{+0.31}_{-0.33}$	$n_{s,0.002}$	0.961	$0.960^{+0.052}_{-0.052}$	$D_M(0.51)$	1921	1932^{+180}_{-170}
n_s	0.961	$0.960^{+0.052}_{-0.052}$	Y_P	0.24533	$0.24532^{+0.00055}_{-0.00055}$	$H(0.61)$	96.15	$96.1^{+3.4}_{-2.4}$
H_0	70.9	70^{+9}_{-10}	Y_P^{BBN}	0.24665	$0.24664^{+0.00056}_{-0.00056}$	$D_M(0.61)$	2242	2253^{+190}_{-180}
Ω_Λ	0.736	$0.723^{+0.099}_{-0.17}$	$10^5 D/H$	2.618	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	229.8	231^{+19}_{-15}
Ω_m	0.264	$0.277^{+0.17}_{-0.099}$	Age/Gyr	13.765	$13.77^{+0.17}_{-0.19}$	$D_M(2.33)$	5742	5742^{+84}_{-110}
$\Omega_m h^2$	0.1329	$0.135^{+0.029}_{-0.022}$	z_*	1089.24	$1089.4^{+2.9}_{-2.4}$	$f\sigma_8(0.15)$	0.432	$0.435^{+0.073}_{-0.072}$
$\Omega_m h^3$	0.0942	$0.0945^{+0.0056}_{-0.0053}$	r_*	147.2	$146.8^{+6.6}_{-7.4}$	$\sigma_8(0.15)$	0.766	$0.761^{+0.058}_{-0.067}$
σ_8	0.824	$0.819^{+0.054}_{-0.059}$	$100\theta_*$	1.04112	$1.0411^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	0.4607	$0.462^{+0.041}_{-0.053}$
S_8	0.773	$0.78^{+0.16}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.14	$14.10^{+0.63}_{-0.71}$	$\sigma_8(0.38)$	0.685	$0.679^{+0.062}_{-0.075}$
$\sigma_8 \Omega_m^{0.5}$	0.423	$0.429^{+0.088}_{-0.076}$	z_{drag}	1058.83	$1058.9^{+3.7}_{-3.7}$	$f\sigma_8(0.51)$	0.4652	$0.465^{+0.031}_{-0.041}$
$\sigma_8 \Omega_m^{0.25}$	0.591	$0.592^{+0.048}_{-0.053}$	r_{drag}	150.0	$149.5^{+6.9}_{-7.7}$	$\sigma_8(0.51)$	0.643	$0.638^{+0.064}_{-0.076}$
$\sigma_8/h^{0.5}$	0.978	$0.978^{+0.054}_{-0.057}$	k_D	0.1377	$0.1382^{+0.0085}_{-0.0073}$	$f\sigma_8(0.61)$	0.4642	$0.463^{+0.026}_{-0.033}$
$r_{\text{drag}} h$	106.4	105^{+20}_{-20}	$100\theta_D$	0.16133	$0.1613^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	0.614	$0.608^{+0.064}_{-0.076}$
$\langle d^2 \rangle^{1/2}$	2.506	$2.50^{+0.13}_{-0.13}$	z_{eq}	3160	3207^{+700}_{-500}	$f\sigma_8(2.33)$	0.3115	$0.308^{+0.038}_{-0.044}$
z_{re}	7.625	$7.66^{+0.53}_{-0.43}$	k_{eq}	0.00964	$0.0098^{+0.0021}_{-0.0016}$	$\sigma_8(2.33)$	0.3237	$0.320^{+0.047}_{-0.051}$
$10^9 A_s$	2.38	$2.35^{+0.83}_{-0.67}$	$100\theta_{\text{eq}}$	0.859	$0.85^{+0.12}_{-0.12}$	χ^2_{lensing}	7.57	$9.6 (\nu: 2.0)$
$10^9 A_s e^{-2\tau}$	2.13	$2.10^{+0.74}_{-0.60}$	$100\theta_{s,\text{eq}}$	0.473	$0.470^{+0.062}_{-0.062}$	χ^2_{prior}	0.0	$3.0 (\nu: 3.2)$
D_{40}	1441	1422^{+500}_{-400}	$H(0.15)$	75.6	$75.2^{+8.1}_{-7.9}$			
D_{220}	6780	6683^{+3000}_{-2000}	$D_M(0.15)$	615	620^{+80}_{-70}			

Best-fit $\chi^2_{\text{eff}} = 7.57$; $\bar{\chi}^2_{\text{eff}} = 12.61$; $R - 1 = 0.00164$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.57

2.161 base_lensing_lenspriors_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0012}$	D_{810}	2676	2678^{+500}_{-400}	$H(0.38)$	83.55	$83.6^{+2.4}_{-2.0}$
$\Omega_c h^2$	0.1158	$0.116^{+0.010}_{-0.010}$	D_{1420}	853	854^{+200}_{-100}	$D_M(0.38)$	1512	1512^{+60}_{-62}
$100\theta_{MC}$	1.04089	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	239.7	240^{+50}_{-40}	$H(0.51)$	90.06	$90.1^{+1.8}_{-1.6}$
$\ln(10^{10} A_s)$	3.096	$3.10^{+0.15}_{-0.14}$	$n_{s,0.002}$	0.9562	$0.956^{+0.047}_{-0.046}$	$D_M(0.51)$	1961	1961^{+69}_{-73}
n_s	0.9562	$0.956^{+0.047}_{-0.046}$	Y_P	0.24533	$0.24532^{+0.00055}_{-0.00053}$	$H(0.61)$	95.52	$95.6^{+1.4}_{-1.3}$
H_0	68.71	$68.7^{+3.9}_{-3.6}$	Y_P^{BBN}	0.24666	$0.24665^{+0.00056}_{-0.00054}$	$D_M(0.61)$	2285	2284^{+73}_{-78}
Ω_Λ	0.706	$0.706^{+0.050}_{-0.056}$	$10^5 D/H$	2.616	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	233.6	$233.6^{+7.0}_{-7.0}$
Ω_m	0.294	$0.294^{+0.056}_{-0.050}$	Age/Gyr	13.796	$13.79^{+0.14}_{-0.14}$	$D_M(2.33)$	5760	5759^{+60}_{-63}
$\Omega_m h^2$	0.1387	$0.139^{+0.011}_{-0.010}$	z_*	1089.75	$1089.8^{+1.8}_{-1.7}$	$f\sigma_8(0.15)$	0.4481	$0.448^{+0.035}_{-0.036}$
$\Omega_m h^3$	0.09528	$0.0953^{+0.0033}_{-0.0033}$	r_*	145.65	$145.7^{+3.1}_{-2.9}$	$\sigma_8(0.15)$	0.7556	$0.755^{+0.041}_{-0.040}$
σ_8	0.8157	$0.815^{+0.042}_{-0.041}$	$100\theta_*$	1.04110	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	0.4705	$0.470^{+0.027}_{-0.028}$
S_8	0.807	$0.806^{+0.070}_{-0.070}$	$D_M(z_*)/\text{Gpc}$	13.990	$13.99^{+0.29}_{-0.28}$	$\sigma_8(0.38)$	0.6718	$0.671^{+0.041}_{-0.039}$
$\sigma_8 \Omega_m^{0.5}$	0.4420	$0.442^{+0.038}_{-0.038}$	z_{drag}	1059.25	$1059.3^{+3.2}_{-3.2}$	$f\sigma_8(0.51)$	0.4713	$0.471^{+0.024}_{-0.024}$
$\sigma_8 \Omega_m^{0.25}$	0.6005	$0.600^{+0.032}_{-0.032}$	r_{drag}	148.40	$148.4^{+3.3}_{-3.3}$	$\sigma_8(0.51)$	0.6295	$0.629^{+0.040}_{-0.038}$
$\sigma_8/h^{0.5}$	0.9840	$0.983^{+0.048}_{-0.047}$	k_D	0.13938	$0.1394^{+0.0041}_{-0.0041}$	$f\sigma_8(0.61)$	0.4677	$0.467^{+0.022}_{-0.023}$
$r_{\text{drag}} h$	102.0	$102.0^{+7.8}_{-7.0}$	$100\theta_D$	0.16111	$0.1611^{+0.0019}_{-0.0018}$	$\sigma_8(0.61)$	0.5995	$0.599^{+0.039}_{-0.037}$
$\langle d^2 \rangle^{1/2}$	2.487	$2.49^{+0.10}_{-0.10}$	z_{eq}	3298	3299^{+250}_{-250}	$f\sigma_8(2.33)$	0.3030	$0.303^{+0.022}_{-0.020}$
z_{re}	7.719	$7.72^{+0.33}_{-0.30}$	k_{eq}	0.01007	$0.01007^{+0.00077}_{-0.00076}$	$\sigma_8(2.33)$	0.3132	$0.313^{+0.025}_{-0.023}$
$10^9 A_s$	2.212	$2.21^{+0.35}_{-0.29}$	$100\theta_{\text{eq}}$	0.8319	$0.832^{+0.049}_{-0.044}$	χ^2_{lensing}	7.88	9.2 (ν : 1.2)
$10^9 A_s e^{-2\tau}$	1.981	$1.98^{+0.31}_{-0.26}$	$100\theta_{s,\text{eq}}$	0.4592	$0.459^{+0.026}_{-0.023}$	χ^2_{JLA}	1034.79	1035.7 (ν : 0.9)
D_{40}	1333	1335^{+200}_{-200}	$H(0.15)$	73.79	$73.8^{+3.3}_{-3.0}$	χ^2_{prior}	0.0	2.9 (ν : 3.0)
D_{220}	6178	6189^{+1000}_{-1000}	$D_M(0.15)$	632.2	632^{+30}_{-31}			

Best-fit $\chi^2_{\text{eff}} = 1042.71$; $\bar{\chi}^2_{\text{eff}} = 1047.77$; $R - 1 = 0.00295$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.88 SN - JLA Pantheon18: 1034.79

2.162 base_lensing_lenspriors_theta_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2982^{+1000}_{-900}	$H(0.38)$	$85.5^{+5.4}_{-4.7}$
$\Omega_{\mathrm{c}}h^2$	$0.108^{+0.024}_{-0.019}$	D_{1420}	945^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1462^{+140}_{-120}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	265^{+100}_{-80}	$H(0.51)$	$91.5^{+4.3}_{-3.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.29}_{-0.30}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	1902^{+160}_{-150}
n_{s}	$0.959^{+0.052}_{-0.051}$	Y_{P}	$0.24531^{+0.00055}_{-0.00058}$	$H(0.61)$	$96.6^{+3.4}_{-2.4}$
H_0	72^{+8}_{-9}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2221^{+170}_{-160}
Ω_{Λ}	$0.745^{+0.081}_{-0.13}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	228^{+16}_{-12}
Ω_{m}	$0.255^{+0.13}_{-0.081}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.17}_{-0.18}$	$D_{\mathrm{M}}(2.33)$	5729^{+85}_{-100}
$\Omega_{\mathrm{m}}h^2$	$0.131^{+0.024}_{-0.019}$	z_*	$1089.0^{+2.6}_{-2.1}$	$f\sigma_8(0.15)$	$0.420^{+0.061}_{-0.060}$
$\Omega_{\mathrm{m}}h^3$	$0.0937^{+0.0051}_{-0.0048}$	r_*	$147.9^{+5.8}_{-6.4}$	$\sigma_8(0.15)$	$0.763^{+0.054}_{-0.062}$
σ_8	$0.819^{+0.050}_{-0.055}$	$100\theta_*$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.451^{+0.037}_{-0.044}$
S_8	$0.75^{+0.13}_{-0.11}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.21^{+0.56}_{-0.61}$	$\sigma_8(0.38)$	$0.683^{+0.059}_{-0.067}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.412^{+0.071}_{-0.062}$	z_{drag}	$1058.6^{+3.6}_{-3.6}$	$f\sigma_8(0.51)$	$0.456^{+0.027}_{-0.036}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.580^{+0.040}_{-0.045}$	r_{drag}	$150.7^{+6.2}_{-6.6}$	$\sigma_8(0.51)$	$0.643^{+0.061}_{-0.068}$
$\sigma_8/h^{0.5}$	$0.965^{+0.047}_{-0.050}$	k_{D}	$0.1370^{+0.0073}_{-0.0065}$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.029}$
$r_{\mathrm{drag}}h$	109^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	$0.614^{+0.061}_{-0.068}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.13}_{-0.13}$	z_{eq}	3104^{+600}_{-500}	$f\sigma_8(2.33)$	$0.312^{+0.036}_{-0.039}$
z_{re}	$7.59^{+0.46}_{-0.38}$	k_{eq}	$0.0095^{+0.0017}_{-0.0014}$	$\sigma_8(2.33)$	$0.326^{+0.045}_{-0.046}$
10^9A_{s}	$2.44^{+0.80}_{-0.65}$	$100\theta_{\mathrm{eq}}$	$0.87^{+0.11}_{-0.10}$	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.18^{+0.71}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.481^{+0.056}_{-0.055}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1497^{+500}_{-400}	$H(0.15)$	$76.6^{+7.3}_{-7.1}$		
D_{220}	7076^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	607^{+70}_{-60}		

$\bar{\chi}^2_{\mathrm{eff}} = 14.87; R - 1 = 0.00258$

2.163 base_lensing_lenspriors_theta_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2872^{+1000}_{-1000}	$H(0.38)$	$84.7^{+6.7}_{-5.4}$
$\Omega_{\mathrm{c}}h^2$	$0.112^{+0.033}_{-0.025}$	D_{1420}	913^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1487^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	256^{+100}_{-90}	$H(0.51)$	$90.9^{+5.2}_{-3.6}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.38}_{-0.37}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	1931^{+200}_{-180}
n_{s}	$0.960^{+0.052}_{-0.051}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$H(0.61)$	$96.2^{+3.8}_{-2.6}$
H_0	70^{+10}_{-10}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2252^{+210}_{-200}
Ω_{Λ}	$0.72^{+0.11}_{-0.19}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	231^{+22}_{-17}
Ω_{m}	$0.28^{+0.19}_{-0.11}$	Age/Gyr	$13.76^{+0.18}_{-0.21}$	$D_{\mathrm{M}}(2.33)$	5741^{+86}_{-120}
$\Omega_{\mathrm{m}}h^2$	$0.135^{+0.033}_{-0.026}$	z_{*}	$1089.4^{+3.1}_{-2.6}$	$f\sigma_8(0.15)$	$0.435^{+0.079}_{-0.077}$
$\Omega_{\mathrm{m}}h^3$	$0.0945^{+0.0062}_{-0.0060}$	r_{*}	$146.8^{+7.7}_{-8.3}$	$\sigma_8(0.15)$	$0.761^{+0.064}_{-0.073}$
σ_8	$0.819^{+0.058}_{-0.064}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.461^{+0.043}_{-0.057}$
S_8	$0.78^{+0.18}_{-0.15}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.10^{+0.73}_{-0.79}$	$\sigma_8(0.38)$	$0.679^{+0.072}_{-0.081}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.428^{+0.097}_{-0.081}$	z_{drag}	$1058.9^{+3.8}_{-3.8}$	$f\sigma_8(0.51)$	$0.464^{+0.031}_{-0.045}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.051}_{-0.059}$	r_{drag}	$149.6^{+7.9}_{-8.6}$	$\sigma_8(0.51)$	$0.638^{+0.074}_{-0.083}$
$\sigma_8/h^{0.5}$	$0.977^{+0.053}_{-0.059}$	k_{D}	$0.1382^{+0.0096}_{-0.0083}$	$f\sigma_8(0.61)$	$0.462^{+0.026}_{-0.036}$
$r_{\mathrm{drag}}h$	105^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.608^{+0.075}_{-0.083}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.16}_{-0.15}$	z_{eq}	3206^{+800}_{-600}	$f\sigma_8(2.33)$	$0.309^{+0.044}_{-0.048}$
z_{re}	$7.66^{+0.58}_{-0.45}$	k_{eq}	$0.0098^{+0.0024}_{-0.0019}$	$\sigma_8(2.33)$	$0.321^{+0.055}_{-0.056}$
10^9A_{s}	$2.36^{+1.0}_{-0.75}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.14}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$9.5 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.11^{+0.94}_{-0.67}$	$100\theta_{\mathrm{s,eq}}$	$0.471^{+0.074}_{-0.069}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1432^{+700}_{-500}	$H(0.15)$	75^{+9}_{-9}		
D_{220}	6733^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	620^{+90}_{-80}		

$\bar{\chi}^2_{\mathrm{eff}} = 12.57$; $R - 1 = 0.00195$

2.164 base_lensing_lenspriors_theta_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2814^{+1000}_{-900}	$H(0.38)$	$84.3^{+6.0}_{-4.9}$
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.029}_{-0.022}$	D_{1420}	896^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1495^{+160}_{-140}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	252^{+100}_{-80}	$H(0.51)$	$90.7^{+4.7}_{-3.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.13^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	1941^{+180}_{-170}
n_{s}	$0.959^{+0.052}_{-0.051}$	Y_{P}	$0.24531^{+0.00055}_{-0.00056}$	$H(0.61)$	$96.0^{+3.3}_{-2.3}$
H_0	70^{+10}_{-9}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2262^{+190}_{-180}
Ω_{Λ}	$0.72^{+0.10}_{-0.17}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	232^{+19}_{-15}
Ω_{m}	$0.28^{+0.17}_{-0.10}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.17}_{-0.20}$	$D_{\mathrm{M}}(2.33)$	5746^{+80}_{-110}
$\Omega_{\mathrm{m}}h^2$	$0.136^{+0.029}_{-0.023}$	z_{*}	$1089.5^{+2.9}_{-2.5}$	$f\sigma_8(0.15)$	$0.439^{+0.073}_{-0.072}$
$\Omega_{\mathrm{m}}h^3$	$0.0947^{+0.0057}_{-0.0052}$	r_{*}	$146.4^{+6.7}_{-7.4}$	$\sigma_8(0.15)$	$0.760^{+0.059}_{-0.068}$
σ_8	$0.818^{+0.055}_{-0.059}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.464^{+0.040}_{-0.052}$
S_8	$0.79^{+0.16}_{-0.14}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.07^{+0.64}_{-0.72}$	$\sigma_8(0.38)$	$0.677^{+0.064}_{-0.075}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.433^{+0.089}_{-0.077}$	z_{drag}	$1059.0^{+3.7}_{-3.8}$	$f\sigma_8(0.51)$	$0.466^{+0.030}_{-0.040}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.047}_{-0.053}$	r_{drag}	$149.2^{+7.0}_{-7.7}$	$\sigma_8(0.51)$	$0.635^{+0.065}_{-0.075}$
$\sigma_8/h^{0.5}$	$0.980^{+0.052}_{-0.057}$	k_{D}	$0.1386^{+0.0083}_{-0.0074}$	$f\sigma_8(0.61)$	$0.464^{+0.025}_{-0.032}$
$r_{\mathrm{drag}}h$	104^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.606^{+0.066}_{-0.075}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.13}_{-0.13}$	z_{eq}	3236^{+700}_{-500}	$f\sigma_8(2.33)$	$0.307^{+0.038}_{-0.043}$
z_{re}	$7.68^{+0.53}_{-0.44}$	k_{eq}	$0.0099^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.319^{+0.048}_{-0.051}$
10^9A_{s}	$2.31^{+0.84}_{-0.66}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.12}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$7.5 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.07^{+0.76}_{-0.59}$	$100\theta_{\mathrm{s,eq}}$	$0.467^{+0.063}_{-0.061}$	χ^2_{prior}	$3.0 (\nu: 3.3)$
D_{40}	1400^{+500}_{-400}	$H(0.15)$	75^{+8}_{-8}		
D_{220}	6561^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	624^{+80}_{-70}		

$\bar{\chi}^2_{\mathrm{eff}} = 10.53$; $R - 1 = 0.00161$

2.165 base_lensing_lenspriors_theta_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{810}	3350^{+1000}_{-1000}	$H(0.38)$	$87.2^{+6.2}_{-6.0}$
$\Omega_{\mathrm{c}}h^2$	$0.102^{+0.028}_{-0.020}$	D_{1420}	1056^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1423^{+200}_{-100}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	295^{+100}_{-90}	$H(0.51)$	$92.8^{+5.0}_{-4.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.29^{+0.32}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.052}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	1857^{+190}_{-150}
n_{s}	$0.961^{+0.052}_{-0.050}$	Y_{P}	$0.24531^{+0.00054}_{-0.00053}$	$H(0.61)$	$97.6^{+4.0}_{-3.2}$
H_0	75^{+9}_{-10}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2172^{+200}_{-170}
Ω_{Λ}	$0.772^{+0.087}_{-0.13}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	224^{+19}_{-13}
Ω_{m}	$0.228^{+0.13}_{-0.087}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.70^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(2.33)$	5701^{+110}_{-110}
$\Omega_{\mathrm{m}}h^2$	$0.125^{+0.028}_{-0.020}$	z_{*}	$1088.5^{+2.9}_{-2.1}$	$f\sigma_8(0.15)$	$0.405^{+0.081}_{-0.076}$
$\Omega_{\mathrm{m}}h^3$	$0.0925^{+0.0058}_{-0.0052}$	r_{*}	$149.7^{+6.5}_{-7.6}$	$\sigma_8(0.15)$	$0.781^{+0.056}_{-0.063}$
σ_8	$0.834^{+0.053}_{-0.056}$	$100\theta_{*}$	$1.0411^{+0.0017}_{-0.0015}$	$f\sigma_8(0.38)$	$0.442^{+0.052}_{-0.062}$
S_8	$0.72^{+0.17}_{-0.14}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.38^{+0.63}_{-0.73}$	$\sigma_8(0.38)$	$0.703^{+0.065}_{-0.068}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.396^{+0.091}_{-0.077}$	z_{drag}	$1058.1^{+3.7}_{-3.4}$	$f\sigma_8(0.51)$	$0.452^{+0.040}_{-0.052}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.574^{+0.055}_{-0.060}$	r_{drag}	$152.5^{+6.9}_{-7.9}$	$\sigma_8(0.51)$	$0.663^{+0.066}_{-0.070}$
$\sigma_8/h^{0.5}$	$0.967^{+0.063}_{-0.062}$	k_{D}	$0.1352^{+0.0084}_{-0.0069}$	$f\sigma_8(0.61)$	$0.455^{+0.035}_{-0.044}$
$r_{\mathrm{drag}}h$	114^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1617^{+0.0019}_{-0.0020}$	$\sigma_8(0.61)$	$0.634^{+0.067}_{-0.071}$
$\langle d^2 \rangle^{1/2}$	$2.57^{+0.13}_{-0.16}$	z_{eq}	2960^{+700}_{-500}	$f\sigma_8(2.33)$	$0.324^{+0.039}_{-0.042}$
z_{re}	$7.49^{+0.51}_{-0.37}$	k_{eq}	$0.0090^{+0.0020}_{-0.0015}$	$\sigma_8(2.33)$	$0.341^{+0.048}_{-0.051}$
10^9A_{s}	$2.72^{+0.92}_{-0.83}$	$100\theta_{\mathrm{eq}}$	$0.91^{+0.13}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$10.7 (\nu: 1.7)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.44^{+0.83}_{-0.75}$	$100\theta_{\mathrm{s,eq}}$	$0.498^{+0.066}_{-0.068}$	χ^2_{prior}	$3.1 (\nu: 3.1)$
D_{40}	1698^{+600}_{-600}	$H(0.15)$	$78.8^{+8.1}_{-8.8}$		
D_{220}	8124^{+3000}_{-3000}	$D_{\mathrm{M}}(0.15)$	588^{+80}_{-60}		

$\bar{\chi}^2_{\mathrm{eff}} = 13.85; R - 1 = 0.02914$

2.166 base_lensing_lenspriors_theta_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2768^{+1000}_{-800}	$H(0.38)$	$84.3^{+6.0}_{-4.9}$
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.029}_{-0.022}$	D_{1420}	882^{+300}_{-300}	$D_{\mathrm{M}}(0.38)$	1494^{+160}_{-140}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	247^{+100}_{-70}	$H(0.51)$	$90.7^{+4.6}_{-3.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.12^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	1940^{+180}_{-170}
n_{s}	$0.960^{+0.051}_{-0.052}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$H(0.61)$	$96.0^{+3.4}_{-2.3}$
H_0	70^{+10}_{-10}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2262^{+190}_{-180}
Ω_{Λ}	$0.72^{+0.10}_{-0.17}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	232^{+19}_{-15}
Ω_{m}	$0.28^{+0.17}_{-0.10}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.17}_{-0.20}$	$D_{\mathrm{M}}(2.33)$	5746^{+82}_{-110}
$\Omega_{\mathrm{m}}h^2$	$0.136^{+0.029}_{-0.023}$	z_{*}	$1089.5^{+2.9}_{-2.5}$	$f\sigma_8(0.15)$	$0.435^{+0.074}_{-0.073}$
$\Omega_{\mathrm{m}}h^3$	$0.0947^{+0.0057}_{-0.0053}$	r_{*}	$146.5^{+6.7}_{-7.6}$	$\sigma_8(0.15)$	$0.753^{+0.057}_{-0.065}$
σ_8	$0.811^{+0.052}_{-0.057}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.460^{+0.040}_{-0.053}$
S_8	$0.78^{+0.17}_{-0.14}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.07^{+0.65}_{-0.73}$	$\sigma_8(0.38)$	$0.671^{+0.061}_{-0.072}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.429^{+0.091}_{-0.078}$	z_{drag}	$1059.0^{+3.6}_{-3.7}$	$f\sigma_8(0.51)$	$0.462^{+0.030}_{-0.042}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.589^{+0.048}_{-0.056}$	r_{drag}	$149.2^{+7.1}_{-7.8}$	$\sigma_8(0.51)$	$0.630^{+0.063}_{-0.074}$
$\sigma_8/h^{0.5}$	$0.971^{+0.051}_{-0.058}$	k_{D}	$0.1385^{+0.0083}_{-0.0075}$	$f\sigma_8(0.61)$	$0.460^{+0.025}_{-0.034}$
$r_{\mathrm{drag}}h$	104^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	$0.601^{+0.064}_{-0.074}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.12}_{-0.12}$	z_{eq}	3235^{+700}_{-500}	$f\sigma_8(2.33)$	$0.304^{+0.038}_{-0.042}$
z_{re}	$7.68^{+0.54}_{-0.44}$	k_{eq}	$0.0099^{+0.0021}_{-0.0016}$	$\sigma_8(2.33)$	$0.316^{+0.047}_{-0.049}$
10^9A_{s}	$2.27^{+0.81}_{-0.64}$	$100\theta_{\mathrm{eq}}$	$0.85^{+0.12}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$9.8 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.04^{+0.73}_{-0.57}$	$100\theta_{\mathrm{s,eq}}$	$0.467^{+0.063}_{-0.061}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1375^{+500}_{-400}	$H(0.15)$	$74.8^{+8.3}_{-7.7}$		
D_{220}	6450^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	624^{+80}_{-70}		

$\bar{\chi}^2_{\mathrm{eff}} = 12.85; R - 1 = 0.00230$

2.167 base_lensing_lenspriors_theta_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2887^{+1000}_{-800}	$H(0.38)$	$85.2^{+5.4}_{-4.6}$
$\Omega_{\mathrm{c}}h^2$	$0.109^{+0.024}_{-0.019}$	D_{1420}	916^{+300}_{-300}	$D_{\mathrm{M}}(0.38)$	1469^{+140}_{-120}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	256^{+90}_{-70}	$H(0.51)$	$91.3^{+4.3}_{-3.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.16^{+0.30}_{-0.30}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	1911^{+160}_{-150}
n_{s}	$0.959^{+0.052}_{-0.052}$	Y_{P}	$0.24531^{+0.00056}_{-0.00056}$	$H(0.61)$	$96.5^{+3.4}_{-2.3}$
H_0	72^{+8}_{-8}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2230^{+170}_{-160}
Ω_{Λ}	$0.739^{+0.084}_{-0.13}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.24}$	$H(2.33)$	229^{+16}_{-13}
Ω_{m}	$0.261^{+0.13}_{-0.084}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.75^{+0.17}_{-0.18}$	$D_{\mathrm{M}}(2.33)$	5733^{+83}_{-100}
$\Omega_{\mathrm{m}}h^2$	$0.132^{+0.024}_{-0.019}$	z_{*}	$1089.1^{+2.6}_{-2.2}$	$f\sigma_8(0.15)$	$0.420^{+0.061}_{-0.060}$
$\Omega_{\mathrm{m}}h^3$	$0.0939^{+0.0051}_{-0.0048}$	r_{*}	$147.6^{+5.8}_{-6.4}$	$\sigma_8(0.15)$	$0.755^{+0.054}_{-0.059}$
σ_8	$0.811^{+0.050}_{-0.053}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.449^{+0.037}_{-0.045}$
S_8	$0.75^{+0.13}_{-0.12}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.18^{+0.56}_{-0.61}$	$\sigma_8(0.38)$	$0.676^{+0.057}_{-0.065}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.412^{+0.071}_{-0.063}$	z_{drag}	$1058.7^{+3.6}_{-3.6}$	$f\sigma_8(0.51)$	$0.454^{+0.027}_{-0.036}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.578^{+0.041}_{-0.046}$	r_{drag}	$150.4^{+6.3}_{-6.6}$	$\sigma_8(0.51)$	$0.635^{+0.060}_{-0.066}$
$\sigma_8/h^{0.5}$	$0.959^{+0.045}_{-0.049}$	k_{D}	$0.1373^{+0.0073}_{-0.0066}$	$f\sigma_8(0.61)$	$0.454^{+0.023}_{-0.029}$
$r_{\mathrm{drag}}h$	108^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1614^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	$0.606^{+0.060}_{-0.067}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.12}_{-0.12}$	z_{eq}	3132^{+600}_{-500}	$f\sigma_8(2.33)$	$0.308^{+0.035}_{-0.039}$
z_{re}	$7.61^{+0.47}_{-0.39}$	k_{eq}	$0.0096^{+0.0018}_{-0.0014}$	$\sigma_8(2.33)$	$0.321^{+0.044}_{-0.046}$
10^9A_{s}	$2.36^{+0.79}_{-0.62}$	$100\theta_{\mathrm{eq}}$	$0.87^{+0.11}_{-0.10}$	$\chi^2_{\mathrm{lensing}}$	$12.1 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.12^{+0.71}_{-0.56}$	$100\theta_{\mathrm{s,eq}}$	$0.478^{+0.056}_{-0.055}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1445^{+500}_{-400}	$H(0.15)$	$76.2^{+7.3}_{-7.1}$		
D_{220}	6820^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	611^{+70}_{-60}		

$\bar{\chi}^2_{\mathrm{eff}} = 15.12; R - 1 = 0.00542$

2.168 base_lensing_lenspriors_theta_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2761^{+1000}_{-800}	$H(0.38)$	$83.9^{+6.1}_{-4.7}$
$\Omega_c h^2$	$0.115^{+0.029}_{-0.024}$	D_{1420}	881^{+400}_{-300}	$D_M(0.38)$	1507^{+160}_{-150}
$100\theta_{MC}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	247^{+100}_{-70}	$H(0.51)$	$90.4^{+4.7}_{-3.2}$
$\ln(10^{10} A_s)$	$3.12^{+0.32}_{-0.32}$	$n_{s,0.002}$	$0.960^{+0.052}_{-0.051}$	$D_M(0.51)$	1955^{+180}_{-170}
n_s	$0.960^{+0.052}_{-0.051}$	Y_P	$0.24532^{+0.00055}_{-0.00054}$	$H(0.61)$	$95.8^{+3.4}_{-2.2}$
H_0	69^{+10}_{-9}	Y_P^{BBN}	$0.24664^{+0.00055}_{-0.00055}$	$D_M(0.61)$	2277^{+190}_{-190}
Ω_Λ	$0.71^{+0.11}_{-0.17}$	$10^5 D/H$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	233^{+19}_{-16}
Ω_m	$0.29^{+0.17}_{-0.11}$	Age/Gyr	$13.78^{+0.16}_{-0.20}$	$D_M(2.33)$	5752^{+76}_{-110}
$\Omega_m h^2$	$0.138^{+0.030}_{-0.024}$	z_*	$1089.7^{+2.9}_{-2.6}$	$f\sigma_8(0.15)$	$0.447^{+0.071}_{-0.077}$
$\Omega_m h^3$	$0.0951^{+0.0056}_{-0.0054}$	r_*	$145.9^{+7.0}_{-7.4}$	$\sigma_8(0.15)$	$0.759^{+0.059}_{-0.067}$
σ_8	$0.819^{+0.055}_{-0.059}$	$100\theta_*$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.470^{+0.041}_{-0.055}$
S_8	$0.81^{+0.16}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	$14.01^{+0.67}_{-0.70}$	$\sigma_8(0.38)$	$0.675^{+0.064}_{-0.075}$
$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.088}_{-0.083}$	z_{drag}	$1059.2^{+3.6}_{-3.8}$	$f\sigma_8(0.51)$	$0.470^{+0.031}_{-0.042}$
$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.048}_{-0.056}$	r_{drag}	$148.6^{+7.3}_{-7.7}$	$\sigma_8(0.51)$	$0.633^{+0.066}_{-0.077}$
$\sigma_8/h^{0.5}$	$0.986^{+0.056}_{-0.060}$	k_D	$0.1392^{+0.0086}_{-0.0076}$	$f\sigma_8(0.61)$	$0.467^{+0.026}_{-0.033}$
$r_{\text{drag}} h$	103^{+20}_{-20}	$100\theta_D$	$0.1612^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.603^{+0.066}_{-0.077}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.13}_{-0.13}$	z_{eq}	3287^{+700}_{-600}	$f\sigma_8(2.33)$	$0.305^{+0.039}_{-0.044}$
z_{re}	$7.71^{+0.53}_{-0.46}$	k_{eq}	$0.0100^{+0.0022}_{-0.0018}$	$\sigma_8(2.33)$	$0.316^{+0.049}_{-0.050}$
$10^9 A_s$	$2.27^{+0.84}_{-0.64}$	$100\theta_{\text{eq}}$	$0.84^{+0.13}_{-0.11}$	χ^2_{lensing}	$10.1 (\nu: 1.9)$
$10^9 A_s e^{-2\tau}$	$2.04^{+0.75}_{-0.57}$	$100\theta_{s,\text{eq}}$	$0.462^{+0.066}_{-0.060}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1367^{+500}_{-400}	$H(0.15)$	74^{+8}_{-8}		
D_{220}	6389^{+3000}_{-2000}	$D_M(0.15)$	630^{+80}_{-70}		

$\bar{\chi}^2_{\text{eff}} = 13.09; R - 1 = 0.00194$

2.169 base_lensing_lenspriors_theta_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2862^{+1000}_{-900}	$H(0.38)$	$84.6^{+6.0}_{-4.9}$
$\Omega_c h^2$	$0.112^{+0.029}_{-0.022}$	D_{1420}	910^{+400}_{-300}	$D_M(0.38)$	1486^{+160}_{-140}
$100\theta_{MC}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	256^{+100}_{-80}	$H(0.51)$	$90.9^{+4.7}_{-3.3}$
$\ln(10^{10} A_s)$	$3.15^{+0.32}_{-0.33}$	$n_{s,0.002}$	$0.960^{+0.052}_{-0.052}$	$D_M(0.51)$	1931^{+180}_{-170}
n_s	$0.960^{+0.052}_{-0.052}$	Y_P	$0.24532^{+0.00055}_{-0.00056}$	$H(0.61)$	$96.2^{+3.4}_{-2.4}$
H_0	70^{+9}_{-10}	Y_P^{BBN}	$0.24664^{+0.00055}_{-0.00057}$	$D_M(0.61)$	2252^{+190}_{-180}
Ω_Λ	$0.72^{+0.10}_{-0.17}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	231^{+19}_{-15}
Ω_m	$0.28^{+0.17}_{-0.10}$	Age/Gyr	$13.77^{+0.17}_{-0.19}$	$D_M(2.33)$	5742^{+83}_{-110}
$\Omega_m h^2$	$0.135^{+0.029}_{-0.022}$	z_*	$1089.4^{+2.9}_{-2.4}$	$f\sigma_8(0.15)$	$0.435^{+0.073}_{-0.071}$
$\Omega_m h^3$	$0.0945^{+0.0056}_{-0.0052}$	r_*	$146.8^{+6.6}_{-7.3}$	$\sigma_8(0.15)$	$0.761^{+0.057}_{-0.066}$
σ_8	$0.819^{+0.053}_{-0.058}$	$100\theta_*$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.461^{+0.041}_{-0.052}$
S_8	$0.78^{+0.16}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$14.10^{+0.63}_{-0.70}$	$\sigma_8(0.38)$	$0.679^{+0.063}_{-0.074}$
$\sigma_8 \Omega_m^{0.5}$	$0.428^{+0.088}_{-0.075}$	z_{drag}	$1058.9^{+3.6}_{-3.8}$	$f\sigma_8(0.51)$	$0.464^{+0.031}_{-0.041}$
$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.049}_{-0.053}$	r_{drag}	$149.6^{+6.9}_{-7.5}$	$\sigma_8(0.51)$	$0.638^{+0.064}_{-0.075}$
$\sigma_8/h^{0.5}$	$0.977^{+0.052}_{-0.057}$	k_D	$0.1382^{+0.0084}_{-0.0073}$	$f\sigma_8(0.61)$	$0.463^{+0.026}_{-0.033}$
$r_{\text{drag}} h$	105^{+20}_{-20}	$100\theta_D$	$0.1613^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.608^{+0.064}_{-0.075}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.13}_{-0.13}$	z_{eq}	3203^{+700}_{-500}	$f\sigma_8(2.33)$	$0.309^{+0.038}_{-0.043}$
z_{re}	$7.66^{+0.52}_{-0.42}$	k_{eq}	$0.0098^{+0.0021}_{-0.0016}$	$\sigma_8(2.33)$	$0.321^{+0.049}_{-0.050}$
$10^9 A_s$	$2.35^{+0.85}_{-0.67}$	$100\theta_{\text{eq}}$	$0.85^{+0.12}_{-0.12}$	χ^2_{lensing}	$9.6 (\nu: 2.0)$
$10^9 A_s e^{-2\tau}$	$2.10^{+0.77}_{-0.60}$	$100\theta_{s,\text{eq}}$	$0.470^{+0.063}_{-0.062}$	χ^2_{prior}	$3.0 (\nu: 3.3)$
D_{40}	1425^{+500}_{-400}	$H(0.15)$	$75.3^{+8.2}_{-7.9}$		
D_{220}	6697^{+3000}_{-2000}	$D_M(0.15)$	620^{+80}_{-70}		

$$\bar{\chi}^2_{\text{eff}} = 12.59; R - 1 = 0.00106$$

2.170 base_lensing_lenspriors_theta_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2998^{+1000}_{-900}	$H(0.38)$	$85.6^{+5.4}_{-4.7}$
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.023}_{-0.018}$	D_{1420}	950^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1459^{+140}_{-120}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	266^{+100}_{-80}	$H(0.51)$	$91.6^{+4.3}_{-3.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.29}_{-0.30}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	1899^{+160}_{-140}
n_{s}	$0.959^{+0.052}_{-0.052}$	Y_{P}	$0.24531^{+0.00054}_{-0.00059}$	$H(0.61)$	$96.7^{+3.4}_{-2.4}$
H_0	72^{+8}_{-9}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2218^{+170}_{-160}
Ω_{Λ}	$0.747^{+0.079}_{-0.13}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	228^{+16}_{-12}
Ω_{m}	$0.253^{+0.13}_{-0.079}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.17}_{-0.18}$	$D_{\mathrm{M}}(2.33)$	5727^{+85}_{-100}
$\Omega_{\mathrm{m}}h^2$	$0.130^{+0.024}_{-0.018}$	z_{*}	$1089.0^{+2.5}_{-2.1}$	$f\sigma_8(0.15)$	$0.418^{+0.060}_{-0.058}$
$\Omega_{\mathrm{m}}h^3$	$0.0936^{+0.0049}_{-0.0047}$	r_{*}	$148.1^{+5.6}_{-6.3}$	$\sigma_8(0.15)$	$0.763^{+0.055}_{-0.062}$
σ_8	$0.819^{+0.050}_{-0.054}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.449^{+0.037}_{-0.043}$
S_8	$0.75^{+0.13}_{-0.11}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.22^{+0.54}_{-0.60}$	$\sigma_8(0.38)$	$0.684^{+0.059}_{-0.066}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.410^{+0.070}_{-0.060}$	z_{drag}	$1058.6^{+3.6}_{-3.7}$	$f\sigma_8(0.51)$	$0.455^{+0.028}_{-0.035}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.579^{+0.040}_{-0.045}$	r_{drag}	$150.9^{+6.0}_{-6.5}$	$\sigma_8(0.51)$	$0.643^{+0.061}_{-0.067}$
$\sigma_8/h^{0.5}$	$0.964^{+0.047}_{-0.051}$	k_{D}	$0.1369^{+0.0072}_{-0.0064}$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.029}$
$r_{\mathrm{drag}}h$	109^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	$0.614^{+0.062}_{-0.067}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.13}_{-0.13}$	z_{eq}	3093^{+600}_{-400}	$f\sigma_8(2.33)$	$0.313^{+0.036}_{-0.038}$
z_{re}	$7.58^{+0.45}_{-0.38}$	k_{eq}	$0.0094^{+0.0017}_{-0.0013}$	$\sigma_8(2.33)$	$0.326^{+0.045}_{-0.046}$
10^9A_{s}	$2.45^{+0.80}_{-0.64}$	$100\theta_{\mathrm{eq}}$	$0.88^{+0.11}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.19^{+0.71}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.482^{+0.055}_{-0.055}$	χ^2_{prior}	$3.0 (\nu: 3.3)$
D_{40}	1506^{+500}_{-400}	$H(0.15)$	$76.7^{+7.2}_{-7.1}$		
D_{220}	7122^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	606^{+70}_{-60}		

$\bar{\chi}^2_{\mathrm{eff}} = 14.92; R - 1 = 0.00317$

2.171 base_lensing_lenspriors_theta_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2878^{+1000}_{-900}	$H(0.38)$	$84.8^{+6.0}_{-5.1}$
$\Omega_{\mathrm{c}}h^2$	$0.111^{+0.029}_{-0.022}$	D_{1420}	915^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1483^{+160}_{-140}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	257^{+100}_{-80}	$H(0.51)$	$91.0^{+4.7}_{-3.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	1927^{+180}_{-170}
n_{s}	$0.960^{+0.052}_{-0.051}$	Y_{P}	$0.24531^{+0.00055}_{-0.00056}$	$H(0.61)$	$96.2^{+3.4}_{-2.5}$
H_0	71^{+9}_{-10}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2247^{+190}_{-180}
Ω_{Λ}	$0.727^{+0.098}_{-0.17}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	231^{+19}_{-15}
Ω_{m}	$0.273^{+0.17}_{-0.098}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.76^{+0.17}_{-0.20}$	$D_{\mathrm{M}}(2.33)$	5740^{+84}_{-110}
$\Omega_{\mathrm{m}}h^2$	$0.134^{+0.029}_{-0.022}$	z_{*}	$1089.3^{+2.9}_{-2.4}$	$f\sigma_8(0.15)$	$0.432^{+0.075}_{-0.073}$
$\Omega_{\mathrm{m}}h^3$	$0.0943^{+0.0055}_{-0.0053}$	r_{*}	$147.0^{+6.6}_{-7.3}$	$\sigma_8(0.15)$	$0.761^{+0.057}_{-0.066}$
σ_8	$0.819^{+0.053}_{-0.058}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.459^{+0.044}_{-0.054}$
S_8	$0.78^{+0.16}_{-0.14}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.12^{+0.63}_{-0.70}$	$\sigma_8(0.38)$	$0.680^{+0.062}_{-0.073}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.426^{+0.090}_{-0.077}$	z_{drag}	$1058.9^{+3.6}_{-3.8}$	$f\sigma_8(0.51)$	$0.463^{+0.032}_{-0.043}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.590^{+0.051}_{-0.056}$	r_{drag}	$149.8^{+7.0}_{-7.6}$	$\sigma_8(0.51)$	$0.638^{+0.063}_{-0.075}$
$\sigma_8/h^{0.5}$	$0.975^{+0.056}_{-0.062}$	k_{D}	$0.1380^{+0.0083}_{-0.0073}$	$f\sigma_8(0.61)$	$0.461^{+0.028}_{-0.036}$
$r_{\mathrm{drag}}h$	106^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.609^{+0.064}_{-0.075}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.13}_{-0.13}$	z_{eq}	3188^{+700}_{-500}	$f\sigma_8(2.33)$	$0.309^{+0.038}_{-0.043}$
z_{re}	$7.65^{+0.53}_{-0.42}$	k_{eq}	$0.0097^{+0.0021}_{-0.0016}$	$\sigma_8(2.33)$	$0.321^{+0.048}_{-0.050}$
10^9A_{s}	$2.36^{+0.85}_{-0.67}$	$100\theta_{\mathrm{eq}}$	$0.86^{+0.12}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$9.5 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.12^{+0.76}_{-0.60}$	$100\theta_{\mathrm{s,eq}}$	$0.472^{+0.063}_{-0.062}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1436^{+500}_{-500}	$H(0.15)$	$75.5^{+8.1}_{-8.0}$		
D_{220}	6754^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	618^{+80}_{-70}		

$$\bar{\chi}^2_{\mathrm{eff}} = 12.55; R - 1 = 0.00157$$

2.172 base_lensing_lenspriors_theta_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	3015^{+1000}_{-900}	$H(0.38)$	$85.8^{+5.4}_{-4.8}$
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.024}_{-0.019}$	D_{1420}	955^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1455^{+140}_{-120}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	267^{+100}_{-80}	$H(0.51)$	$91.8^{+4.3}_{-3.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.20^{+0.29}_{-0.30}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	1894^{+160}_{-140}
n_{s}	$0.959^{+0.052}_{-0.051}$	Y_{P}	$0.24531^{+0.00055}_{-0.00059}$	$H(0.61)$	$96.8^{+3.4}_{-2.5}$
H_0	72^{+8}_{-9}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2212^{+170}_{-160}
Ω_{Λ}	$0.750^{+0.081}_{-0.13}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	228^{+16}_{-12}
Ω_{m}	$0.250^{+0.13}_{-0.081}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.18}_{-0.18}$	$D_{\mathrm{M}}(2.33)$	5724^{+87}_{-100}
$\Omega_{\mathrm{m}}h^2$	$0.129^{+0.024}_{-0.019}$	z_{*}	$1088.9^{+2.5}_{-2.1}$	$f\sigma_8(0.15)$	$0.415^{+0.063}_{-0.059}$
$\Omega_{\mathrm{m}}h^3$	$0.0935^{+0.0050}_{-0.0048}$	r_{*}	$148.2^{+5.8}_{-6.4}$	$\sigma_8(0.15)$	$0.763^{+0.054}_{-0.060}$
σ_8	$0.818^{+0.050}_{-0.054}$	$100\theta_{*}$	$1.0411^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.447^{+0.039}_{-0.046}$
S_8	$0.74^{+0.13}_{-0.11}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.24^{+0.55}_{-0.61}$	$\sigma_8(0.38)$	$0.684^{+0.058}_{-0.065}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.407^{+0.072}_{-0.061}$	z_{drag}	$1058.5^{+3.5}_{-3.5}$	$f\sigma_8(0.51)$	$0.454^{+0.030}_{-0.037}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.576^{+0.043}_{-0.047}$	r_{drag}	$151.1^{+6.1}_{-6.6}$	$\sigma_8(0.51)$	$0.644^{+0.060}_{-0.066}$
$\sigma_8/h^{0.5}$	$0.961^{+0.049}_{-0.052}$	k_{D}	$0.1367^{+0.0073}_{-0.0063}$	$f\sigma_8(0.61)$	$0.454^{+0.025}_{-0.031}$
$r_{\mathrm{drag}}h$	110^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	$0.615^{+0.060}_{-0.067}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.12}_{-0.13}$	z_{eq}	3077^{+600}_{-500}	$f\sigma_8(2.33)$	$0.313^{+0.035}_{-0.038}$
z_{re}	$7.57^{+0.45}_{-0.37}$	k_{eq}	$0.0094^{+0.0017}_{-0.0014}$	$\sigma_8(2.33)$	$0.327^{+0.044}_{-0.045}$
10^9A_{s}	$2.46^{+0.80}_{-0.65}$	$100\theta_{\mathrm{eq}}$	$0.88^{+0.11}_{-0.11}$	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.21^{+0.72}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.484^{+0.056}_{-0.056}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1517^{+500}_{-400}	$H(0.15)$	$77.0^{+7.3}_{-7.2}$		
D_{220}	7184^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	604^{+70}_{-60}		

$\bar{\chi}^2_{\mathrm{eff}} = 14.89$; $R - 1 = 0.00293$

2.173 base_lensing_lenspriors_theta_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2779^{+1000}_{-900}	$H(0.38)$	$84.2^{+5.9}_{-4.8}$
$\Omega_c h^2$	$0.114^{+0.029}_{-0.023}$	D_{1420}	886^{+300}_{-300}	$D_M(0.38)$	1498^{+160}_{-140}
$100\theta_{MC}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	249^{+100}_{-80}	$H(0.51)$	$90.6^{+4.6}_{-3.2}$
$\ln(10^{10} A_s)$	$3.12^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.959^{+0.052}_{-0.052}$	$D_M(0.51)$	1945^{+180}_{-170}
n_s	$0.959^{+0.052}_{-0.052}$	Y_P	$0.24531^{+0.00054}_{-0.00056}$	$H(0.61)$	$95.9^{+3.3}_{-2.3}$
H_0	70^{+9}_{-9}	Y_P^{BBN}	$0.24664^{+0.00055}_{-0.00056}$	$D_M(0.61)$	2267^{+190}_{-180}
Ω_Λ	$0.71^{+0.11}_{-0.17}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	232^{+19}_{-15}
Ω_m	$0.29^{+0.17}_{-0.11}$	Age/Gyr	$13.78^{+0.17}_{-0.20}$	$D_M(2.33)$	5748^{+80}_{-110}
$\Omega_m h^2$	$0.137^{+0.029}_{-0.023}$	z_*	$1089.6^{+2.9}_{-2.5}$	$f\sigma_8(0.15)$	$0.440^{+0.072}_{-0.073}$
$\Omega_m h^3$	$0.0948^{+0.0057}_{-0.0053}$	r_*	$146.3^{+6.7}_{-7.4}$	$\sigma_8(0.15)$	$0.757^{+0.058}_{-0.067}$
σ_8	$0.816^{+0.053}_{-0.059}$	$100\theta_*$	$1.0411^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.464^{+0.040}_{-0.053}$
S_8	$0.79^{+0.16}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$14.05^{+0.64}_{-0.72}$	$\sigma_8(0.38)$	$0.675^{+0.063}_{-0.074}$
$\sigma_8 \Omega_m^{0.5}$	$0.434^{+0.089}_{-0.078}$	z_{drag}	$1059.1^{+3.6}_{-3.7}$	$f\sigma_8(0.51)$	$0.466^{+0.030}_{-0.040}$
$\sigma_8 \Omega_m^{0.25}$	$0.595^{+0.047}_{-0.053}$	r_{drag}	$149.0^{+7.0}_{-7.7}$	$\sigma_8(0.51)$	$0.633^{+0.064}_{-0.075}$
$\sigma_8/h^{0.5}$	$0.979^{+0.052}_{-0.057}$	k_D	$0.1388^{+0.0084}_{-0.0073}$	$f\sigma_8(0.61)$	$0.464^{+0.026}_{-0.032}$
$r_{\text{drag}} h$	104^{+20}_{-20}	$100\theta_D$	$0.1612^{+0.0022}_{-0.0020}$	$\sigma_8(0.61)$	$0.603^{+0.065}_{-0.075}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.13}_{-0.13}$	z_{eq}	3252^{+700}_{-500}	$f\sigma_8(2.33)$	$0.305^{+0.038}_{-0.043}$
z_{re}	$7.69^{+0.53}_{-0.44}$	k_{eq}	$0.0099^{+0.0021}_{-0.0017}$	$\sigma_8(2.33)$	$0.317^{+0.047}_{-0.050}$
$10^9 A_s$	$2.29^{+0.82}_{-0.65}$	$100\theta_{\text{eq}}$	$0.84^{+0.12}_{-0.12}$	χ^2_{lensing}	$8.4 (\nu: 2.0)$
$10^9 A_s e^{-2\tau}$	$2.05^{+0.73}_{-0.58}$	$100\theta_{s,\text{eq}}$	$0.465^{+0.063}_{-0.060}$	χ^2_{prior}	$3.0 (\nu: 3.2)$
D_{40}	1380^{+500}_{-400}	$H(0.15)$	$74.6^{+8.2}_{-7.7}$		
D_{220}	6464^{+3000}_{-2000}	$D_M(0.15)$	626^{+80}_{-70}		

$\bar{\chi}^2_{\text{eff}} = 11.47; R - 1 = 0.00170$

2.174 base_lensing_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	847	835^{+200}_{-300}	$H(0.51)$	89.3	$89.6^{+6.9}_{-5.5}$
$\Omega_c h^2$	0.1156	$0.117^{+0.035}_{-0.026}$	D_{2000}	238	237^{+90}_{-70}	$D_M(0.51)$	1984	1978^{+110}_{-120}
$100\theta_{MC}$	1.0379	$1.040^{+0.041}_{-0.038}$	$n_{s,0.002}$	0.955	$0.956^{+0.051}_{-0.051}$	$H(0.61)$	94.8	$95.2^{+7.7}_{-6.2}$
$\ln(10^{10} A_s)$	3.090	$3.08^{+0.26}_{-0.27}$	Y_P	0.24532	$0.24531^{+0.00054}_{-0.00056}$	$D_M(0.61)$	2310	2303^{+130}_{-140}
n_s	0.955	$0.956^{+0.051}_{-0.051}$	Y_P^{BBN}	0.24665	$0.24663^{+0.00054}_{-0.00057}$	$H(2.33)$	233.2	234^{+30}_{-20}
H_0	67.75	$67.9^{+3.4}_{-3.1}$	$10^5 D/H$	2.621	$2.62^{+0.26}_{-0.23}$	$D_M(2.33)$	5800	5781^{+420}_{-460}
Ω_Λ	0.6983	$0.697^{+0.040}_{-0.049}$	Age/Gyr	13.89	$13.8^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	0.4501	$0.452^{+0.048}_{-0.046}$
Ω_m	0.3017	$0.303^{+0.049}_{-0.040}$	z_*	1089.77	$1089.9^{+3.2}_{-2.7}$	$\sigma_8(0.15)$	0.7493	$0.750^{+0.043}_{-0.043}$
$\Omega_m h^2$	0.1385	$0.140^{+0.035}_{-0.026}$	r_*	145.7	$145.4^{+7.4}_{-8.5}$	$f\sigma_8(0.38)$	0.4707	$0.472^{+0.040}_{-0.039}$
$\Omega_m h^3$	0.0938	$0.095^{+0.029}_{-0.020}$	$100\theta_*$	1.0381	$1.040^{+0.041}_{-0.038}$	$\sigma_8(0.38)$	0.6653	$0.666^{+0.037}_{-0.037}$
σ_8	0.8098	$0.811^{+0.048}_{-0.049}$	$D_M(z_*)/\text{Gpc}$	14.04	$14.0^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	0.4704	$0.471^{+0.036}_{-0.036}$
S_8	0.812	$0.815^{+0.096}_{-0.087}$	z_{drag}	1059.17	$1059.3^{+3.9}_{-3.9}$	$\sigma_8(0.51)$	0.6230	$0.624^{+0.034}_{-0.034}$
$\sigma_8 \Omega_m^{0.5}$	0.445	$0.447^{+0.052}_{-0.048}$	r_{drag}	148.5	$148.1^{+7.7}_{-8.7}$	$f\sigma_8(0.61)$	0.4663	$0.467^{+0.034}_{-0.033}$
$\sigma_8 \Omega_m^{0.25}$	0.6001	$0.602^{+0.050}_{-0.048}$	k_D	0.1393	$0.1397^{+0.0098}_{-0.0081}$	$\sigma_8(0.61)$	0.5931	$0.594^{+0.033}_{-0.032}$
$\sigma_8/h^{0.5}$	0.984	$0.984^{+0.050}_{-0.051}$	$100\theta_D$	0.1607	$0.1609^{+0.0057}_{-0.0051}$	$f\sigma_8(2.33)$	0.2995	$0.300^{+0.016}_{-0.016}$
$r_{\text{drag}} h$	100.59	$100.6^{+3.1}_{-3.2}$	z_{eq}	3293	3333^{+800}_{-600}	$\sigma_8(2.33)$	0.3092	$0.309^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	2.487	$2.48^{+0.14}_{-0.13}$	k_{eq}	0.01005	$0.0102^{+0.0026}_{-0.0019}$	χ^2_{lensing}	7.9	9.9 ($\nu: 2.6$)
z_{re}	7.72	$7.74^{+0.67}_{-0.56}$	$100\theta_{\text{eq}}$	0.830	$0.827^{+0.099}_{-0.10}$	$\chi^2_{6\text{DF}}$	0.000	0.062 ($\nu: 0.0$)
$10^9 A_s$	2.20	$2.19^{+0.64}_{-0.53}$	$100\theta_{s,\text{eq}}$	0.458	$0.457^{+0.050}_{-0.052}$	χ^2_{MGS}	1.75	1.85 ($\nu: 0.3$)
$10^9 A_s e^{-2\tau}$	1.97	$1.96^{+0.57}_{-0.48}$	$H(0.15)$	72.88	$73.1^{+4.2}_{-3.6}$	χ^2_{DR12BAO}	3.62	4.5 ($\nu: 1.3$)
D_{40}	1325	1317^{+400}_{-300}	$D_M(0.15)$	640.6	639^{+31}_{-33}	χ^2_{prior}	0.05	2.0 ($\nu: 2.1$)
D_{220}	6146	6116^{+2000}_{-2000}	$H(0.38)$	82.7	$83.0^{+5.8}_{-4.7}$	χ^2_{BAO}	5.37	6.4 ($\nu: 1.5$)
D_{810}	2656	2630^{+800}_{-800}	$D_M(0.38)$	1530	1526^{+81}_{-86}			

Best-fit $\chi^2_{\text{eff}} = 13.31$; $\bar{\chi}^2_{\text{eff}} = 18.39$; $R - 1 = 0.00184$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.62 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.88

2.175 base_lensing_lenspriors_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	859	844^{+200}_{-200}	$H(0.51)$	89.1	$89.4^{+5.5}_{-5.0}$
$\Omega_c h^2$	0.1143	$0.116^{+0.026}_{-0.022}$	D_{2000}	241	239^{+70}_{-60}	$D_M(0.51)$	1988	1981^{+100}_{-100}
$100\theta_{MC}$	1.0362	$1.038^{+0.033}_{-0.032}$	$n_{s,0.002}$	0.9567	$0.956^{+0.050}_{-0.050}$	$H(0.61)$	94.5	$94.9^{+6.2}_{-5.5}$
$\ln(10^{10} A_s)$	3.104	$3.09^{+0.22}_{-0.22}$	Y_P	0.24532	$0.24531^{+0.00054}_{-0.00056}$	$D_M(0.61)$	2315	2307^{+120}_{-120}
n_s	0.9567	$0.956^{+0.050}_{-0.050}$	Y_P^{BBN}	0.24664	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	232.1	233^{+20}_{-18}
H_0	67.67	$67.9^{+3.1}_{-3.0}$	$10^5 D/H$	2.622	$2.62^{+0.26}_{-0.23}$	$D_M(2.33)$	5819	5796^{+370}_{-370}
Ω_Λ	0.7006	$0.699^{+0.033}_{-0.036}$	Age/Gyr	13.93	$13.88^{+0.89}_{-0.89}$	$f\sigma_8(0.15)$	0.4485	$0.450^{+0.041}_{-0.039}$
Ω_m	0.2994	$0.301^{+0.036}_{-0.033}$	z_*	1089.65	$1089.8^{+2.6}_{-2.4}$	$\sigma_8(0.15)$	0.7492	$0.750^{+0.043}_{-0.043}$
$\Omega_m h^2$	0.1371	$0.139^{+0.026}_{-0.022}$	r_*	146.1	$145.7^{+6.3}_{-6.6}$	$f\sigma_8(0.38)$	0.4695	$0.471^{+0.035}_{-0.035}$
$\Omega_m h^3$	0.0928	$0.094^{+0.022}_{-0.018}$	$100\theta_*$	1.0364	$1.038^{+0.033}_{-0.032}$	$\sigma_8(0.38)$	0.6655	$0.666^{+0.038}_{-0.037}$
σ_8	0.8095	$0.810^{+0.048}_{-0.048}$	$D_M(z_*)/\text{Gpc}$	14.10	$14.0^{+1.1}_{-1.0}$	$f\sigma_8(0.51)$	0.4695	$0.471^{+0.033}_{-0.033}$
S_8	0.809	$0.812^{+0.079}_{-0.075}$	z_{drag}	1059.06	$1059.2^{+3.6}_{-3.7}$	$\sigma_8(0.51)$	0.6233	$0.624^{+0.035}_{-0.034}$
$\sigma_8 \Omega_m^{0.5}$	0.4429	$0.445^{+0.043}_{-0.041}$	r_{drag}	148.9	$148.4^{+6.6}_{-6.9}$	$f\sigma_8(0.61)$	0.4656	$0.466^{+0.031}_{-0.031}$
$\sigma_8 \Omega_m^{0.25}$	0.5988	$0.600^{+0.044}_{-0.044}$	k_D	0.1389	$0.1394^{+0.0078}_{-0.0070}$	$\sigma_8(0.61)$	0.5935	$0.594^{+0.033}_{-0.032}$
$\sigma_8/h^{0.5}$	0.984	$0.984^{+0.051}_{-0.051}$	$100\theta_D$	0.16048	$0.1608^{+0.0046}_{-0.0045}$	$f\sigma_8(2.33)$	0.2997	$0.300^{+0.017}_{-0.016}$
$r_{\text{drag}} h$	100.73	$100.7^{+2.8}_{-2.7}$	z_{eq}	3261	3304^{+600}_{-500}	$\sigma_8(2.33)$	0.3096	$0.310^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	2.493	$2.49^{+0.12}_{-0.12}$	k_{eq}	0.00995	$0.0101^{+0.0019}_{-0.0016}$	χ^2_{lensing}	7.78	9.6 (ν : 1.8)
z_{re}	7.69	$7.72^{+0.53}_{-0.49}$	$100\theta_{\text{eq}}$	0.835	$0.831^{+0.083}_{-0.078}$	χ^2_{JLA}	1034.73	1035.12 (ν : 0.1)
$10^9 A_s$	2.228	$2.21^{+0.54}_{-0.44}$	$100\theta_{s,\text{eq}}$	0.4608	$0.459^{+0.043}_{-0.041}$	$\chi^2_{6\text{DF}}$	0.002	0.050 (ν : 0.0)
$10^9 A_s e^{-2\tau}$	1.996	$1.98^{+0.48}_{-0.39}$	$H(0.15)$	72.76	$73.0^{+3.7}_{-3.4}$	χ^2_{MGS}	1.82	1.90 (ν : 0.2)
D_{40}	1343	1328^{+300}_{-300}	$D_M(0.15)$	641.5	640^{+30}_{-30}	χ^2_{DR12BAO}	3.68	4.5 (ν : 1.2)
D_{220}	6262	6181^{+2000}_{-2000}	$H(0.38)$	82.54	$82.9^{+4.8}_{-4.3}$	χ^2_{prior}	0.03	2.0 (ν : 1.9)
D_{810}	2696	2656^{+600}_{-600}	$D_M(0.38)$	1533	1528^{+75}_{-75}	χ^2_{BAO}	5.50	6.4 (ν : 1.3)

Best-fit $\chi^2_{\text{eff}} = 1048.05$; $\bar{\chi}^2_{\text{eff}} = 1053.10$; $R - 1 = 0.00233$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.68 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.78 SN - JLA Pantheon18: 1034.73

2.176 base_lensing_lenspriors_BAO_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	863^{+200}_{-200}	$H(0.51)$	$88.5^{+5.5}_{-4.9}$
$\Omega_c h^2$	$0.111^{+0.027}_{-0.021}$	D_{2000}	246^{+90}_{-60}	$D_M(0.51)$	1998^{+100}_{-99}
$100\theta_{MC}$	$1.032^{+0.035}_{-0.033}$	$n_{s,0.002}$	$0.954^{+0.051}_{-0.052}$	$H(0.61)$	$93.8^{+6.2}_{-5.5}$
$\ln(10^{10} A_s)$	$3.12^{+0.24}_{-0.25}$	Y_P	$0.24531^{+0.00054}_{-0.00055}$	$D_M(0.61)$	2328^{+120}_{-120}
n_s	$0.954^{+0.051}_{-0.052}$	Y_P^{BBN}	$0.24663^{+0.00054}_{-0.00055}$	$H(2.33)$	230^{+21}_{-18}
H_0	$67.4^{+3.0}_{-2.9}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$D_M(2.33)$	5868^{+380}_{-380}
Ω_Λ	$0.705^{+0.034}_{-0.041}$	Age/Gyr	$14.05^{+0.92}_{-0.93}$	$f\sigma_8(0.15)$	$0.439^{+0.038}_{-0.036}$
Ω_m	$0.295^{+0.041}_{-0.034}$	z_*	$1089.4^{+2.7}_{-2.5}$	$\sigma_8(0.15)$	$0.739^{+0.036}_{-0.039}$
$\Omega_m h^2$	$0.134^{+0.027}_{-0.021}$	r_*	$147.0^{+6.3}_{-7.0}$	$f\sigma_8(0.38)$	$0.460^{+0.032}_{-0.032}$
$\Omega_m h^3$	$0.091^{+0.022}_{-0.017}$	$100\theta_*$	$1.032^{+0.035}_{-0.033}$	$\sigma_8(0.38)$	$0.657^{+0.032}_{-0.034}$
σ_8	$0.797^{+0.040}_{-0.043}$	$D_M(z_*)/\text{Gpc}$	$14.2^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.461^{+0.029}_{-0.030}$
S_8	$0.790^{+0.075}_{-0.069}$	z_{drag}	$1058.9^{+3.5}_{-3.7}$	$\sigma_8(0.51)$	$0.615^{+0.030}_{-0.031}$
$\sigma_8 \Omega_m^{0.5}$	$0.433^{+0.041}_{-0.038}$	r_{drag}	$149.7^{+6.6}_{-7.3}$	$f\sigma_8(0.61)$	$0.457^{+0.027}_{-0.027}$
$\sigma_8 \Omega_m^{0.25}$	$0.587^{+0.039}_{-0.039}$	k_D	$0.1380^{+0.0080}_{-0.0070}$	$\sigma_8(0.61)$	$0.586^{+0.029}_{-0.030}$
$\sigma_8/h^{0.5}$	$0.971^{+0.044}_{-0.047}$	$100\theta_D$	$0.1599^{+0.0048}_{-0.0046}$	$f\sigma_8(2.33)$	$0.296^{+0.015}_{-0.015}$
$r_{\text{drag}} h$	$101.0^{+3.1}_{-3.0}$	z_{eq}	3190^{+600}_{-500}	$\sigma_8(2.33)$	$0.306^{+0.016}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.13}_{-0.13}$	k_{eq}	$0.0097^{+0.0020}_{-0.0015}$	χ^2_{lensing}	$12.1 (\nu: 2.5)$
z_{re}	$7.63^{+0.56}_{-0.51}$	$100\theta_{\text{eq}}$	$0.848^{+0.087}_{-0.086}$	$\chi^2_{6\text{DF}}$	$0.063 (\nu: 0.0)$
$10^9 A_s$	$2.27^{+0.62}_{-0.50}$	$100\theta_{s,\text{eq}}$	$0.467^{+0.044}_{-0.044}$	χ^2_{MGS}	$2.02 (\nu: 0.3)$
$10^9 A_s e^{-2\tau}$	$2.03^{+0.55}_{-0.45}$	$H(0.15)$	$72.4^{+3.6}_{-3.3}$	χ^2_{DR12BAO}	$4.9 (\nu: 1.3)$
D_{40}	1382^{+400}_{-300}	$D_M(0.15)$	644^{+29}_{-29}	χ^2_{prior}	$2.1 (\nu: 2.2)$
D_{220}	6502^{+2000}_{-2000}	$H(0.38)$	$82.1^{+4.7}_{-4.3}$	χ^2_{BAO}	$6.9 (\nu: 1.4)$
D_{810}	2733^{+700}_{-700}	$D_M(0.38)$	1541^{+74}_{-74}		

$$\bar{\chi}^2_{\text{eff}} = 21.15; R - 1 = 0.00403$$

2.177 base_lensing_lenspriors_BAO_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	819^{+300}_{-300}	$H(0.51)$	$90.0^{+8.8}_{-6.2}$
$\Omega_c h^2$	$0.119^{+0.046}_{-0.029}$	D_{2000}	233^{+100}_{-90}	$D_M(0.51)$	1972^{+120}_{-140}
$100\theta_{MC}$	$1.042^{+0.050}_{-0.042}$	$n_{s,0.002}$	$0.956^{+0.052}_{-0.052}$	$H(0.61)$	$95.6^{+10}_{-7.0}$
$\ln(10^{10} A_s)$	$3.06^{+0.30}_{-0.33}$	Y_P	$0.24531^{+0.00054}_{-0.00056}$	$D_M(0.61)$	2295^{+140}_{-170}
n_s	$0.956^{+0.052}_{-0.052}$	Y_P^{BBN}	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	236^{+30}_{-20}
H_0	$68.1^{+4.1}_{-3.3}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$D_M(2.33)$	5754^{+470}_{-570}
Ω_Λ	$0.694^{+0.044}_{-0.058}$	Age/Gyr	$13.8^{+1.1}_{-1.4}$	$f\sigma_8(0.15)$	$0.454^{+0.059}_{-0.050}$
Ω_m	$0.306^{+0.058}_{-0.044}$	z_*	$1090.1^{+4.0}_{-3.1}$	$\sigma_8(0.15)$	$0.751^{+0.045}_{-0.045}$
$\Omega_m h^2$	$0.142^{+0.047}_{-0.029}$	r_*	$144.9^{+8.2}_{-11}$	$f\sigma_8(0.38)$	$0.474^{+0.048}_{-0.042}$
$\Omega_m h^3$	$0.097^{+0.039}_{-0.023}$	$100\theta_*$	$1.042^{+0.050}_{-0.042}$	$\sigma_8(0.38)$	$0.667^{+0.037}_{-0.038}$
σ_8	$0.813^{+0.051}_{-0.050}$	$D_M(z_*)/\text{Gpc}$	$13.9^{+1.4}_{-1.7}$	$f\sigma_8(0.51)$	$0.473^{+0.042}_{-0.038}$
S_8	$0.821^{+0.12}_{-0.096}$	z_{drag}	$1059.4^{+4.2}_{-4.0}$	$\sigma_8(0.51)$	$0.624^{+0.035}_{-0.035}$
$\sigma_8 \Omega_m^{0.5}$	$0.449^{+0.064}_{-0.053}$	r_{drag}	$147.6^{+8.5}_{-11}$	$f\sigma_8(0.61)$	$0.469^{+0.038}_{-0.035}$
$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.059}_{-0.052}$	k_D	$0.140^{+0.013}_{-0.0090}$	$\sigma_8(0.61)$	$0.594^{+0.033}_{-0.033}$
$\sigma_8/h^{0.5}$	$0.985^{+0.052}_{-0.052}$	$100\theta_D$	$0.1613^{+0.0069}_{-0.0059}$	$f\sigma_8(2.33)$	$0.300^{+0.017}_{-0.016}$
$r_{\text{drag}} h$	$100.5^{+3.2}_{-3.3}$	z_{eq}	3383^{+1000}_{-700}	$\sigma_8(2.33)$	$0.309^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.16}_{-0.16}$	k_{eq}	$0.0103^{+0.0034}_{-0.0021}$	χ^2_{lensing}	$10.1 (\nu: 2.9)$
z_{re}	$7.78^{+0.81}_{-0.64}$	$100\theta_{\text{eq}}$	$0.82^{+0.11}_{-0.12}$	$\chi^2_{6\text{DF}}$	$0.064 (\nu: 0.0)$
$10^9 A_s$	$2.16^{+0.73}_{-0.62}$	$100\theta_{s,\text{eq}}$	$0.454^{+0.056}_{-0.064}$	χ^2_{MGS}	$1.81 (\nu: 0.3)$
$10^9 A_s e^{-2\tau}$	$1.93^{+0.66}_{-0.56}$	$H(0.15)$	$73.3^{+5.1}_{-4.0}$	χ^2_{DR12BAO}	$4.4 (\nu: 1.3)$
D_{40}	1294^{+500}_{-400}	$D_M(0.15)$	637^{+34}_{-39}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	5984^{+3000}_{-2000}	$H(0.38)$	$83.4^{+7.4}_{-5.3}$	χ^2_{BAO}	$6.2 (\nu: 1.6)$
D_{810}	2581^{+900}_{-900}	$D_M(0.38)$	1521^{+89}_{-100}		

$$\bar{\chi}^2_{\text{eff}} = 18.35; R - 1 = 0.00540$$

2.178 base_lensing_lenspriors_BAO_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	825^{+200}_{-300}	$H(0.51)$	$89.9^{+7.2}_{-5.6}$
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.036}_{-0.026}$	D_{2000}	234^{+90}_{-70}	$D_{\mathrm{M}}(0.51)$	1973^{+110}_{-120}
$100\theta_{\mathrm{MC}}$	$1.041^{+0.042}_{-0.038}$	$n_{\mathrm{s},0.002}$	$0.955^{+0.052}_{-0.051}$	$H(0.61)$	$95.5^{+8.1}_{-6.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.07^{+0.26}_{-0.28}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2297^{+130}_{-150}
n_{s}	$0.955^{+0.052}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	235^{+30}_{-20}
H_0	$68.1^{+3.5}_{-3.1}$	$10^5D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5761^{+420}_{-470}
Ω_{Λ}	$0.695^{+0.040}_{-0.050}$	Age/Gyr	$13.8^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.454^{+0.050}_{-0.045}$
Ω_{m}	$0.305^{+0.050}_{-0.040}$	z_*	$1090.0^{+3.3}_{-2.7}$	$\sigma_8(0.15)$	$0.752^{+0.044}_{-0.043}$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.036}_{-0.026}$	r_*	$145.0^{+7.4}_{-8.6}$	$f\sigma_8(0.38)$	$0.474^{+0.041}_{-0.040}$
$\Omega_{\mathrm{m}}h^3$	$0.096^{+0.030}_{-0.021}$	$100\theta_*$	$1.042^{+0.042}_{-0.038}$	$\sigma_8(0.38)$	$0.667^{+0.037}_{-0.037}$
σ_8	$0.813^{+0.049}_{-0.049}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.9^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	$0.473^{+0.037}_{-0.036}$
S_8	$0.820^{+0.098}_{-0.087}$	z_{drag}	$1059.4^{+3.9}_{-3.8}$	$\sigma_8(0.51)$	$0.625^{+0.035}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.054}_{-0.047}$	r_{drag}	$147.8^{+7.7}_{-9.0}$	$f\sigma_8(0.61)$	$0.469^{+0.034}_{-0.033}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.051}_{-0.048}$	k_{D}	$0.140^{+0.010}_{-0.0081}$	$\sigma_8(0.61)$	$0.595^{+0.033}_{-0.032}$
$\sigma_8/h^{0.5}$	$0.986^{+0.051}_{-0.051}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0058}_{-0.0051}$	$f\sigma_8(2.33)$	$0.300^{+0.017}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.5^{+3.2}_{-3.2}$	z_{eq}	3367^{+900}_{-600}	$\sigma_8(2.33)$	$0.310^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.14}_{-0.14}$	k_{eq}	$0.0103^{+0.0026}_{-0.0019}$	$\chi^2_{\mathrm{lensing}}$	$7.8 (\nu: 2.6)$
z_{re}	$7.77^{+0.68}_{-0.56}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.099}_{-0.10}$	$\chi^2_{6\mathrm{DF}}$	$0.061 (\nu: 0.0)$
10^9A_{s}	$2.17^{+0.63}_{-0.54}$	$100\theta_{\mathrm{s,eq}}$	$0.454^{+0.050}_{-0.053}$	χ^2_{MGS}	$1.82 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.94^{+0.57}_{-0.49}$	$H(0.15)$	$73.3^{+4.4}_{-3.6}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.3)$
D_{40}	1301^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	638^{+32}_{-34}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	6015^{+2000}_{-2000}	$H(0.38)$	$83.3^{+6.1}_{-4.8}$	χ^2_{BAO}	$6.3 (\nu: 1.5)$
D_{810}	2598^{+800}_{-800}	$D_{\mathrm{M}}(0.38)$	1523^{+81}_{-89}		

$$\bar{\chi}^2_{\mathrm{eff}} = 16.15; R - 1 = 0.00217$$

2.179 base_lensing_lenspriors_BAO_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0014}_{-0.0013}$	D_{1420}	918^{+200}_{-300}	$H(0.51)$	$87.6^{+6.6}_{-5.4}$
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.033}_{-0.023}$	D_{2000}	266^{+100}_{-80}	$D_{\mathrm{M}}(0.51)$	2015^{+100}_{-120}
$100\theta_{\mathrm{MC}}$	$1.025^{+0.042}_{-0.038}$	$n_{\mathrm{s},0.002}$	$0.955^{+0.055}_{-0.054}$	$H(0.61)$	$92.8^{+7.5}_{-6.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.25}_{-0.29}$	Y_{P}	$0.24531^{+0.00057}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2348^{+130}_{-140}
n_{s}	$0.955^{+0.055}_{-0.054}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00058}_{-0.00056}$	$H(2.33)$	226^{+30}_{-20}
H_0	$67.0^{+3.4}_{-2.7}$	$10^5D/H$	$2.62^{+0.26}_{-0.24}$	$D_{\mathrm{M}}(2.33)$	5937^{+430}_{-470}
Ω_{Λ}	$0.712^{+0.035}_{-0.049}$	Age/Gyr	$14.2^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.437^{+0.050}_{-0.053}$
Ω_{m}	$0.288^{+0.049}_{-0.035}$	z_*	$1089.0^{+3.2}_{-2.7}$	$\sigma_8(0.15)$	$0.744^{+0.046}_{-0.054}$
$\Omega_{\mathrm{m}}h^2$	$0.130^{+0.033}_{-0.023}$	r_*	$148.2^{+7.1}_{-8.5}$	$f\sigma_8(0.38)$	$0.460^{+0.043}_{-0.050}$
$\Omega_{\mathrm{m}}h^3$	$0.087^{+0.026}_{-0.018}$	$100\theta_*$	$1.025^{+0.042}_{-0.037}$	$\sigma_8(0.38)$	$0.662^{+0.038}_{-0.045}$
σ_8	$0.803^{+0.052}_{-0.061}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.5^{+1.3}_{-1.4}$	$f\sigma_8(0.51)$	$0.462^{+0.039}_{-0.046}$
S_8	$0.787^{+0.098}_{-0.099}$	z_{drag}	$1058.5^{+3.8}_{-3.8}$	$\sigma_8(0.51)$	$0.621^{+0.035}_{-0.042}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.431^{+0.054}_{-0.054}$	r_{drag}	$151.0^{+7.4}_{-8.8}$	$f\sigma_8(0.61)$	$0.459^{+0.036}_{-0.043}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.588^{+0.053}_{-0.061}$	k_{D}	$0.1368^{+0.0095}_{-0.0075}$	$\sigma_8(0.61)$	$0.591^{+0.033}_{-0.040}$
$\sigma_8/h^{0.5}$	$0.980^{+0.053}_{-0.062}$	$100\theta_{\mathrm{D}}$	$0.1591^{+0.0058}_{-0.0048}$	$f\sigma_8(2.33)$	$0.299^{+0.017}_{-0.021}$
$r_{\mathrm{drag}}h$	$101.2^{+2.9}_{-3.2}$	z_{eq}	3088^{+800}_{-600}	$\sigma_8(2.33)$	$0.310^{+0.017}_{-0.021}$
$\langle d^2 \rangle^{1/2}$	$2.55^{+0.13}_{-0.16}$	k_{eq}	$0.0094^{+0.0024}_{-0.0017}$	$\chi^2_{\mathrm{lensing}}$	$11.5 (\nu: 2.8)$
z_{re}	$7.54^{+0.65}_{-0.54}$	$100\theta_{\mathrm{eq}}$	$0.864^{+0.098}_{-0.11}$	$\chi^2_{6\mathrm{DF}}$	$0.071 (\nu: 0.0)$
10^9A_{s}	$2.43^{+0.68}_{-0.63}$	$100\theta_{\mathrm{s,eq}}$	$0.476^{+0.050}_{-0.055}$	χ^2_{MGS}	$2.12 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.18^{+0.61}_{-0.57}$	$H(0.15)$	$71.9^{+4.2}_{-3.4}$	$\chi^2_{\mathrm{DR12BAO}}$	$5.2 (\nu: 1.5)$
D_{40}	1493^{+400}_{-400}	$D_{\mathrm{M}}(0.15)$	648^{+30}_{-34}	χ^2_{prior}	$2.1 (\nu: 2.3)$
D_{220}	7122^{+3000}_{-2000}	$H(0.38)$	$81.3^{+5.7}_{-4.5}$	χ^2_{BAO}	$7.4 (\nu: 1.6)$
D_{810}	2923^{+700}_{-800}	$D_{\mathrm{M}}(0.38)$	1552^{+76}_{-88}		

$$\bar{\chi}^2_{\mathrm{eff}} = 21.02; R - 1 = 0.01428$$

2.180 base_lensing_lenspriors_BAO_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	812^{+200}_{-300}	$H(0.51)$	$89.9^{+7.0}_{-5.7}$
$\Omega_c h^2$	$0.119^{+0.035}_{-0.026}$	D_{2000}	231^{+80}_{-70}	$D_M(0.51)$	1974^{+110}_{-120}
$100\theta_{MC}$	$1.041^{+0.041}_{-0.038}$	$n_{s,0.002}$	$0.956^{+0.052}_{-0.052}$	$H(0.61)$	$95.5^{+7.9}_{-6.3}$
$\ln(10^{10} A_s)$	$3.05^{+0.26}_{-0.28}$	Y_P	$0.24531^{+0.00053}_{-0.00056}$	$D_M(0.61)$	2298^{+130}_{-140}
n_s	$0.956^{+0.052}_{-0.052}$	Y_P^{BBN}	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	235^{+30}_{-20}
H_0	$68.0^{+3.5}_{-3.2}$	$10^5 D/H$	$2.62^{+0.26}_{-0.22}$	$D_M(2.33)$	5763^{+420}_{-460}
Ω_Λ	$0.695^{+0.040}_{-0.051}$	Age/Gyr	$13.8^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.450^{+0.049}_{-0.046}$
Ω_m	$0.305^{+0.051}_{-0.040}$	z_*	$1090.0^{+3.3}_{-2.8}$	$\sigma_8(0.15)$	$0.745^{+0.043}_{-0.046}$
$\Omega_m h^2$	$0.141^{+0.035}_{-0.026}$	r_*	$145.1^{+7.3}_{-8.5}$	$f\sigma_8(0.38)$	$0.470^{+0.041}_{-0.039}$
$\Omega_m h^3$	$0.096^{+0.030}_{-0.020}$	$100\theta_*$	$1.041^{+0.041}_{-0.038}$	$\sigma_8(0.38)$	$0.661^{+0.036}_{-0.038}$
σ_8	$0.806^{+0.048}_{-0.052}$	$D_M(z_*)/\text{Gpc}$	$13.9^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	$0.469^{+0.036}_{-0.036}$
S_8	$0.812^{+0.098}_{-0.088}$	z_{drag}	$1059.4^{+3.9}_{-3.9}$	$\sigma_8(0.51)$	$0.619^{+0.033}_{-0.035}$
$\sigma_8 \Omega_m^{0.5}$	$0.445^{+0.054}_{-0.048}$	r_{drag}	$147.8^{+7.6}_{-8.8}$	$f\sigma_8(0.61)$	$0.465^{+0.034}_{-0.034}$
$\sigma_8 \Omega_m^{0.25}$	$0.599^{+0.051}_{-0.049}$	k_D	$0.1400^{+0.0099}_{-0.0081}$	$\sigma_8(0.61)$	$0.589^{+0.032}_{-0.033}$
$\sigma_8/h^{0.5}$	$0.977^{+0.048}_{-0.052}$	$100\theta_D$	$0.1611^{+0.0057}_{-0.0052}$	$f\sigma_8(2.33)$	$0.298^{+0.016}_{-0.017}$
$r_{\text{drag}} h$	$100.5^{+3.1}_{-3.2}$	z_{eq}	3363^{+800}_{-600}	$\sigma_8(2.33)$	$0.307^{+0.016}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.46^{+0.13}_{-0.13}$	k_{eq}	$0.0103^{+0.0026}_{-0.0019}$	χ^2_{lensing}	$10.1 (\nu: 2.6)$
z_{re}	$7.77^{+0.68}_{-0.57}$	$100\theta_{\text{eq}}$	$0.823^{+0.098}_{-0.10}$	$\chi^2_{6\text{DF}}$	$0.060 (\nu: 0.0)$
$10^9 A_s$	$2.13^{+0.61}_{-0.52}$	$100\theta_{s,\text{eq}}$	$0.455^{+0.050}_{-0.052}$	χ^2_{MGS}	$1.83 (\nu: 0.3)$
$10^9 A_s e^{-2\tau}$	$1.91^{+0.54}_{-0.47}$	$H(0.15)$	$73.3^{+4.4}_{-3.8}$	χ^2_{DR12BAO}	$4.4 (\nu: 1.3)$
D_{40}	1280^{+400}_{-300}	$D_M(0.15)$	638^{+32}_{-34}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	5922^{+2000}_{-2000}	$H(0.38)$	$83.3^{+6.0}_{-4.9}$	χ^2_{BAO}	$6.3 (\nu: 1.5)$
D_{810}	2558^{+700}_{-800}	$D_M(0.38)$	1523^{+83}_{-89}		

$\bar{\chi}^2_{\text{eff}} = 18.42; R - 1 = 0.00341$

2.181 base_lensing_lenspriors_BAO_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	842^{+200}_{-200}	$H(0.51)$	$88.7^{+5.7}_{-5.0}$
$\Omega_{\mathrm{c}}h^2$	$0.113^{+0.028}_{-0.021}$	D_{2000}	239^{+90}_{-60}	$D_{\mathrm{M}}(0.51)$	1994^{+100}_{-100}
$100\theta_{\mathrm{MC}}$	$1.033^{+0.035}_{-0.033}$	$n_{\mathrm{s},0.002}$	$0.954^{+0.053}_{-0.052}$	$H(0.61)$	$94.1^{+6.3}_{-5.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.09^{+0.23}_{-0.25}$	Y_{P}	$0.24531^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2322^{+120}_{-120}
n_{s}	$0.954^{+0.053}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00054}$	$H(2.33)$	231^{+22}_{-18}
H_0	$67.6^{+3.0}_{-3.0}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$D_{\mathrm{M}}(2.33)$	5849^{+380}_{-390}
Ω_{Λ}	$0.704^{+0.035}_{-0.041}$	Age/Gyr	$14.01^{+0.92}_{-0.94}$	$f\sigma_8(0.15)$	$0.437^{+0.039}_{-0.036}$
Ω_{m}	$0.296^{+0.041}_{-0.035}$	z_{*}	$1089.5^{+2.8}_{-2.5}$	$\sigma_8(0.15)$	$0.734^{+0.036}_{-0.042}$
$\Omega_{\mathrm{m}}h^2$	$0.135^{+0.028}_{-0.021}$	r_{*}	$146.6^{+6.3}_{-7.2}$	$f\sigma_8(0.38)$	$0.458^{+0.032}_{-0.033}$
$\Omega_{\mathrm{m}}h^3$	$0.092^{+0.023}_{-0.017}$	$100\theta_{*}$	$1.033^{+0.035}_{-0.033}$	$\sigma_8(0.38)$	$0.652^{+0.031}_{-0.036}$
σ_8	$0.793^{+0.040}_{-0.046}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.2^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.459^{+0.029}_{-0.030}$
S_8	$0.788^{+0.075}_{-0.070}$	z_{drag}	$1059.0^{+3.5}_{-3.7}$	$\sigma_8(0.51)$	$0.611^{+0.029}_{-0.032}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.431^{+0.041}_{-0.039}$	r_{drag}	$149.4^{+6.5}_{-7.5}$	$f\sigma_8(0.61)$	$0.455^{+0.027}_{-0.028}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.585^{+0.040}_{-0.040}$	k_{D}	$0.1383^{+0.0082}_{-0.0070}$	$\sigma_8(0.61)$	$0.582^{+0.028}_{-0.031}$
$\sigma_8/h^{0.5}$	$0.964^{+0.042}_{-0.047}$	$100\theta_{\mathrm{D}}$	$0.1601^{+0.0048}_{-0.0046}$	$f\sigma_8(2.33)$	$0.294^{+0.014}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.9^{+3.0}_{-3.0}$	z_{eq}	3219^{+700}_{-500}	$\sigma_8(2.33)$	$0.304^{+0.015}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.12}_{-0.12}$	k_{eq}	$0.0098^{+0.0020}_{-0.0016}$	$\chi^2_{\mathrm{lensing}}$	$12.3 (\nu: 2.4)$
z_{re}	$7.65^{+0.56}_{-0.52}$	$100\theta_{\mathrm{eq}}$	$0.843^{+0.083}_{-0.088}$	$\chi^2_{6\mathrm{DF}}$	$0.062 (\nu: 0.0)$
$10^9 A_{\mathrm{s}}$	$2.21^{+0.57}_{-0.49}$	$100\theta_{\mathrm{s,eq}}$	$0.465^{+0.042}_{-0.045}$	χ^2_{MGS}	$1.99 (\nu: 0.3)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.98^{+0.51}_{-0.44}$	$H(0.15)$	$72.6^{+3.6}_{-3.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.8 (\nu: 1.3)$
D_{40}	1342^{+300}_{-300}	$D_{\mathrm{M}}(0.15)$	643^{+31}_{-29}	χ^2_{prior}	$2.1 (\nu: 2.2)$
D_{220}	6298^{+2000}_{-2000}	$H(0.38)$	$82.3^{+4.8}_{-4.3}$	χ^2_{BAO}	$6.8 (\nu: 1.4)$
D_{810}	2662^{+700}_{-700}	$D_{\mathrm{M}}(0.38)$	1537^{+76}_{-75}		

$$\bar{\chi}^2_{\mathrm{eff}} = 21.20; R - 1 = 0.00647$$

2.182 base_lensing_lenspriors_BAO_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	812^{+200}_{-300}	$H(0.51)$	$90.5^{+7.7}_{-5.9}$
$\Omega_{\mathrm{c}}h^2$	$0.122^{+0.040}_{-0.027}$	D_{2000}	230^{+90}_{-80}	$D_{\mathrm{M}}(0.51)$	1964^{+110}_{-130}
$100\theta_{\mathrm{MC}}$	$1.045^{+0.046}_{-0.039}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.052}_{-0.051}$	$H(0.61)$	$96.1^{+8.6}_{-6.6}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.06^{+0.27}_{-0.30}$	Y_{P}	$0.24531^{+0.00054}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2286^{+140}_{-150}
n_{s}	$0.956^{+0.052}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00057}$	$H(2.33)$	238^{+30}_{-20}
H_0	$68.3^{+3.6}_{-3.1}$	$10^5D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5720^{+440}_{-490}
Ω_{Λ}	$0.691^{+0.043}_{-0.052}$	Age/Gyr	$13.7^{+1.1}_{-1.2}$	$f\sigma_8(0.15)$	$0.461^{+0.054}_{-0.049}$
Ω_{m}	$0.309^{+0.052}_{-0.043}$	z_*	$1090.3^{+3.8}_{-2.8}$	$\sigma_8(0.15)$	$0.758^{+0.046}_{-0.045}$
$\Omega_{\mathrm{m}}h^2$	$0.144^{+0.041}_{-0.028}$	r_*	$144.3^{+7.7}_{-9.4}$	$f\sigma_8(0.38)$	$0.480^{+0.044}_{-0.042}$
$\Omega_{\mathrm{m}}h^3$	$0.099^{+0.033}_{-0.022}$	$100\theta_*$	$1.045^{+0.046}_{-0.039}$	$\sigma_8(0.38)$	$0.672^{+0.039}_{-0.038}$
σ_8	$0.820^{+0.051}_{-0.051}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.8^{+1.3}_{-1.4}$	$f\sigma_8(0.51)$	$0.479^{+0.039}_{-0.039}$
S_8	$0.833^{+0.11}_{-0.093}$	z_{drag}	$1059.6^{+4.0}_{-3.9}$	$\sigma_8(0.51)$	$0.629^{+0.037}_{-0.035}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.059}_{-0.051}$	r_{drag}	$147.0^{+8.0}_{-9.5}$	$f\sigma_8(0.61)$	$0.474^{+0.034}_{-0.036}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.055}_{-0.052}$	k_{D}	$0.141^{+0.010}_{-0.0085}$	$\sigma_8(0.61)$	$0.599^{+0.035}_{-0.033}$
$\sigma_8/h^{0.5}$	$0.993^{+0.054}_{-0.052}$	$100\theta_{\mathrm{D}}$	$0.1616^{+0.0062}_{-0.0053}$	$f\sigma_8(2.33)$	$0.302^{+0.018}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.3^{+3.2}_{-3.2}$	z_{eq}	3437^{+1000}_{-700}	$\sigma_8(2.33)$	$0.312^{+0.018}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.14}_{-0.14}$	k_{eq}	$0.0105^{+0.0030}_{-0.0020}$	$\chi^2_{\mathrm{lensing}}$	$10.4 (\nu: 2.7)$
z_{re}	$7.82^{+0.77}_{-0.58}$	$100\theta_{\mathrm{eq}}$	$0.81^{+0.10}_{-0.11}$	$\chi^2_{6\mathrm{DF}}$	$0.063 (\nu: 0.0)$
10^9A_{s}	$2.13^{+0.64}_{-0.56}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.052}_{-0.057}$	χ^2_{MGS}	$1.74 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.91^{+0.57}_{-0.50}$	$H(0.15)$	$73.6^{+4.7}_{-3.8}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.2 (\nu: 1.3)$
D_{40}	1274^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	635^{+32}_{-35}	χ^2_{prior}	$2.1 (\nu: 2.0)$
D_{220}	5855^{+2000}_{-2000}	$H(0.38)$	$83.8^{+6.5}_{-5.0}$	χ^2_{BAO}	$6.0 (\nu: 1.5)$
D_{810}	2554^{+800}_{-800}	$D_{\mathrm{M}}(0.38)$	1516^{+83}_{-93}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.54; R - 1 = 0.00374$

2.183 base_lensing_lenspriors_BAO_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	835^{+200}_{-300}	$H(0.51)$	$89.6^{+6.9}_{-5.5}$
$\Omega_{\mathrm{c}}h^2$	$0.117^{+0.035}_{-0.025}$	D_{2000}	238^{+90}_{-70}	$D_{\mathrm{M}}(0.51)$	1979^{+110}_{-120}
$100\theta_{\mathrm{MC}}$	$1.039^{+0.041}_{-0.038}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.051}_{-0.052}$	$H(0.61)$	$95.1^{+7.8}_{-6.2}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.08^{+0.26}_{-0.28}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2304^{+130}_{-140}
n_{s}	$0.956^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	234^{+30}_{-20}
H_0	$67.9^{+3.4}_{-3.1}$	$10^5D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5784^{+420}_{-460}
Ω_{Λ}	$0.697^{+0.039}_{-0.049}$	Age/Gyr	$13.8^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.451^{+0.048}_{-0.045}$
Ω_{m}	$0.303^{+0.049}_{-0.039}$	z_*	$1089.9^{+3.2}_{-2.7}$	$\sigma_8(0.15)$	$0.750^{+0.044}_{-0.044}$
$\Omega_{\mathrm{m}}h^2$	$0.140^{+0.035}_{-0.025}$	r_*	$145.4^{+7.2}_{-8.6}$	$f\sigma_8(0.38)$	$0.471^{+0.041}_{-0.039}$
$\Omega_{\mathrm{m}}h^3$	$0.095^{+0.029}_{-0.020}$	$100\theta_*$	$1.040^{+0.041}_{-0.038}$	$\sigma_8(0.38)$	$0.666^{+0.037}_{-0.038}$
σ_8	$0.811^{+0.049}_{-0.049}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.0^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	$0.471^{+0.037}_{-0.036}$
S_8	$0.814^{+0.096}_{-0.086}$	z_{drag}	$1059.3^{+3.9}_{-3.8}$	$\sigma_8(0.51)$	$0.623^{+0.035}_{-0.035}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.053}_{-0.047}$	r_{drag}	$148.2^{+7.5}_{-8.8}$	$f\sigma_8(0.61)$	$0.467^{+0.033}_{-0.033}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.051}_{-0.048}$	k_{D}	$0.1396^{+0.0098}_{-0.0080}$	$\sigma_8(0.61)$	$0.593^{+0.033}_{-0.032}$
$\sigma_8/h^{0.5}$	$0.984^{+0.051}_{-0.051}$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0056}_{-0.0051}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.6^{+3.1}_{-3.2}$	z_{eq}	3329^{+800}_{-600}	$\sigma_8(2.33)$	$0.309^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.13}$	k_{eq}	$0.0102^{+0.0026}_{-0.0018}$	$\chi^2_{\mathrm{lensing}}$	$9.9 (\nu: 2.6)$
z_{re}	$7.74^{+0.66}_{-0.56}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.096}_{-0.10}$	$\chi^2_{6\mathrm{DF}}$	$0.061 (\nu: 0.0)$
10^9A_{s}	$2.19^{+0.65}_{-0.54}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.049}_{-0.052}$	χ^2_{MGS}	$1.86 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.96^{+0.58}_{-0.48}$	$H(0.15)$	$73.1^{+4.3}_{-3.6}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.5 (\nu: 1.3)$
D_{40}	1319^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	639^{+31}_{-33}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	6124^{+2000}_{-2000}	$H(0.38)$	$83.0^{+5.9}_{-4.7}$	χ^2_{BAO}	$6.4 (\nu: 1.5)$
D_{810}	2633^{+800}_{-800}	$D_{\mathrm{M}}(0.38)$	1526^{+81}_{-87}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.36; R - 1 = 0.00214$

2.184 base_lensing_lenspriors_BAO_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	866^{+200}_{-200}	$H(0.51)$	$88.4^{+5.5}_{-4.9}$
$\Omega_c h^2$	$0.111^{+0.027}_{-0.021}$	D_{2000}	247^{+90}_{-60}	$D_M(0.51)$	2000^{+99}_{-99}
$100\theta_{MC}$	$1.031^{+0.034}_{-0.032}$	$n_{s,0.002}$	$0.954^{+0.051}_{-0.052}$	$H(0.61)$	$93.7^{+6.2}_{-5.4}$
$\ln(10^{10} A_s)$	$3.12^{+0.24}_{-0.25}$	Y_P	$0.24531^{+0.00054}_{-0.00055}$	$D_M(0.61)$	2330^{+120}_{-120}
n_s	$0.954^{+0.051}_{-0.052}$	Y_P^{BBN}	$0.24663^{+0.00054}_{-0.00055}$	$H(2.33)$	229^{+21}_{-18}
H_0	$67.4^{+3.0}_{-2.8}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$D_M(2.33)$	5876^{+370}_{-380}
Ω_Λ	$0.706^{+0.034}_{-0.041}$	Age/Gyr	$14.07^{+0.91}_{-0.93}$	$f\sigma_8(0.15)$	$0.437^{+0.038}_{-0.036}$
Ω_m	$0.294^{+0.041}_{-0.034}$	z_*	$1089.3^{+2.7}_{-2.5}$	$\sigma_8(0.15)$	$0.738^{+0.036}_{-0.040}$
$\Omega_m h^2$	$0.134^{+0.027}_{-0.021}$	r_*	$147.1^{+6.3}_{-7.0}$	$f\sigma_8(0.38)$	$0.459^{+0.032}_{-0.031}$
$\Omega_m h^3$	$0.090^{+0.022}_{-0.017}$	$100\theta_*$	$1.031^{+0.034}_{-0.032}$	$\sigma_8(0.38)$	$0.656^{+0.032}_{-0.036}$
σ_8	$0.796^{+0.040}_{-0.043}$	$D_M(z_*)/\text{Gpc}$	$14.3^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.460^{+0.029}_{-0.029}$
S_8	$0.788^{+0.074}_{-0.068}$	z_{drag}	$1058.8^{+3.5}_{-3.7}$	$\sigma_8(0.51)$	$0.614^{+0.030}_{-0.033}$
$\sigma_8 \Omega_m^{0.5}$	$0.432^{+0.041}_{-0.037}$	r_{drag}	$149.9^{+6.6}_{-7.2}$	$f\sigma_8(0.61)$	$0.456^{+0.027}_{-0.028}$
$\sigma_8 \Omega_m^{0.25}$	$0.586^{+0.039}_{-0.038}$	k_D	$0.1379^{+0.0079}_{-0.0071}$	$\sigma_8(0.61)$	$0.585^{+0.029}_{-0.031}$
$\sigma_8/h^{0.5}$	$0.970^{+0.044}_{-0.047}$	$100\theta_D$	$0.1598^{+0.0048}_{-0.0045}$	$f\sigma_8(2.33)$	$0.296^{+0.015}_{-0.016}$
$r_{\text{drag}} h$	$101.0^{+3.1}_{-3.0}$	z_{eq}	3178^{+600}_{-500}	$\sigma_8(2.33)$	$0.306^{+0.016}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.13}_{-0.13}$	k_{eq}	$0.0097^{+0.0020}_{-0.0015}$	χ^2_{lensing}	$12.2 (\nu: 2.5)$
z_{re}	$7.62^{+0.56}_{-0.51}$	$100\theta_{\text{eq}}$	$0.850^{+0.087}_{-0.086}$	$\chi^2_{6\text{DF}}$	$0.064 (\nu: 0.0)$
$10^9 A_s$	$2.28^{+0.61}_{-0.50}$	$100\theta_{s,\text{eq}}$	$0.468^{+0.044}_{-0.044}$	χ^2_{MGS}	$2.03 (\nu: 0.3)$
$10^9 A_s e^{-2\tau}$	$2.04^{+0.55}_{-0.45}$	$H(0.15)$	$72.4^{+3.5}_{-3.3}$	χ^2_{DR12BAO}	$4.9 (\nu: 1.3)$
D_{40}	1388^{+400}_{-300}	$D_M(0.15)$	645^{+29}_{-29}	χ^2_{prior}	$2.1 (\nu: 2.2)$
D_{220}	6540^{+2000}_{-2000}	$H(0.38)$	$82.0^{+4.7}_{-4.2}$	χ^2_{BAO}	$7.0 (\nu: 1.5)$
D_{810}	2744^{+700}_{-700}	$D_M(0.38)$	1542^{+74}_{-74}		

$$\bar{\chi}^2_{\text{eff}} = 21.26; R - 1 = 0.00444$$

2.185 base_lensing_lenspriors_BAO_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	838^{+200}_{-300}	$H(0.51)$	$89.5^{+6.9}_{-5.6}$
$\Omega_{\mathrm{c}}h^2$	$0.117^{+0.035}_{-0.025}$	D_{2000}	238^{+90}_{-70}	$D_{\mathrm{M}}(0.51)$	1981^{+110}_{-120}
$100\theta_{\mathrm{MC}}$	$1.039^{+0.041}_{-0.038}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.052}_{-0.052}$	$H(0.61)$	$95.0^{+7.8}_{-6.2}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.09^{+0.27}_{-0.28}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2306^{+130}_{-140}
n_{s}	$0.956^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	234^{+30}_{-20}
H_0	$67.9^{+3.4}_{-3.0}$	$10^5D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5792^{+420}_{-460}
Ω_{Λ}	$0.698^{+0.039}_{-0.049}$	Age/Gyr	$13.9^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.450^{+0.050}_{-0.046}$
Ω_{m}	$0.302^{+0.049}_{-0.039}$	z_*	$1089.8^{+3.2}_{-2.7}$	$\sigma_8(0.15)$	$0.749^{+0.046}_{-0.046}$
$\Omega_{\mathrm{m}}h^2$	$0.139^{+0.035}_{-0.025}$	r_*	$145.6^{+7.2}_{-8.6}$	$f\sigma_8(0.38)$	$0.470^{+0.043}_{-0.040}$
$\Omega_{\mathrm{m}}h^3$	$0.095^{+0.029}_{-0.020}$	$100\theta_*$	$1.039^{+0.041}_{-0.038}$	$\sigma_8(0.38)$	$0.665^{+0.039}_{-0.040}$
σ_8	$0.809^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.0^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	$0.470^{+0.038}_{-0.037}$
S_8	$0.812^{+0.099}_{-0.088}$	z_{drag}	$1059.2^{+3.9}_{-3.8}$	$\sigma_8(0.51)$	$0.623^{+0.036}_{-0.037}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.054}_{-0.048}$	r_{drag}	$148.3^{+7.6}_{-8.8}$	$f\sigma_8(0.61)$	$0.466^{+0.035}_{-0.035}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.053}_{-0.049}$	k_{D}	$0.1395^{+0.0099}_{-0.0080}$	$\sigma_8(0.61)$	$0.593^{+0.034}_{-0.035}$
$\sigma_8/h^{0.5}$	$0.982^{+0.054}_{-0.054}$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0056}_{-0.0052}$	$f\sigma_8(2.33)$	$0.299^{+0.017}_{-0.017}$
$r_{\mathrm{drag}}h$	$100.6^{+3.1}_{-3.2}$	z_{eq}	3316^{+800}_{-600}	$\sigma_8(2.33)$	$0.309^{+0.018}_{-0.018}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.13}$	k_{eq}	$0.0101^{+0.0026}_{-0.0018}$	$\chi^2_{\mathrm{lensing}}$	$9.9 (\nu: 2.7)$
z_{re}	$7.73^{+0.65}_{-0.56}$	$100\theta_{\mathrm{eq}}$	$0.830^{+0.096}_{-0.10}$	$\chi^2_{6\mathrm{DF}}$	$0.061 (\nu: 0.0)$
10^9A_{s}	$2.20^{+0.65}_{-0.54}$	$100\theta_{\mathrm{s,eq}}$	$0.458^{+0.049}_{-0.053}$	χ^2_{MGS}	$1.87 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.97^{+0.59}_{-0.48}$	$H(0.15)$	$73.0^{+4.2}_{-3.7}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.5 (\nu: 1.3)$
D_{40}	1324^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	640^{+31}_{-33}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	6160^{+2000}_{-2000}	$H(0.38)$	$82.9^{+5.9}_{-4.8}$	χ^2_{BAO}	$6.5 (\nu: 1.5)$
D_{810}	2642^{+800}_{-800}	$D_{\mathrm{M}}(0.38)$	1528^{+81}_{-87}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.40; R - 1 = 0.00240$

2.186 base_lensing_lenspriors_BAO_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	868^{+200}_{-200}	$H(0.51)$	$88.2^{+5.5}_{-4.9}$
$\Omega_{\mathrm{c}} h^2$	$0.110^{+0.027}_{-0.021}$	D_{2000}	248^{+90}_{-60}	$D_{\mathrm{M}}(0.51)$	2003^{+99}_{-99}
$100\theta_{\mathrm{MC}}$	$1.030^{+0.034}_{-0.033}$	$n_{\mathrm{s},0.002}$	$0.955^{+0.051}_{-0.052}$	$H(0.61)$	$93.6^{+6.2}_{-5.4}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.24}_{-0.25}$	Y_{P}	$0.24531^{+0.00054}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2333^{+120}_{-120}
n_{s}	$0.955^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00055}$	$H(2.33)$	229^{+21}_{-18}
H_0	$67.3^{+3.0}_{-2.8}$	$10^5 D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5885^{+380}_{-380}
Ω_{Λ}	$0.707^{+0.034}_{-0.041}$	Age/Gyr	$14.10^{+0.91}_{-0.93}$	$f\sigma_8(0.15)$	$0.436^{+0.039}_{-0.037}$
Ω_{m}	$0.293^{+0.041}_{-0.034}$	z_*	$1089.3^{+2.7}_{-2.5}$	$\sigma_8(0.15)$	$0.736^{+0.038}_{-0.043}$
$\Omega_{\mathrm{m}} h^2$	$0.133^{+0.027}_{-0.021}$	r_*	$147.3^{+6.4}_{-7.0}$	$f\sigma_8(0.38)$	$0.458^{+0.033}_{-0.032}$
$\Omega_{\mathrm{m}} h^3$	$0.090^{+0.022}_{-0.017}$	$100\theta_*$	$1.030^{+0.034}_{-0.033}$	$\sigma_8(0.38)$	$0.655^{+0.033}_{-0.037}$
σ_8	$0.795^{+0.042}_{-0.048}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.3^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.459^{+0.030}_{-0.031}$
S_8	$0.785^{+0.077}_{-0.071}$	z_{drag}	$1058.8^{+3.5}_{-3.7}$	$\sigma_8(0.51)$	$0.613^{+0.031}_{-0.034}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.430^{+0.042}_{-0.039}$	r_{drag}	$150.1^{+6.7}_{-7.2}$	$f\sigma_8(0.61)$	$0.455^{+0.028}_{-0.030}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.584^{+0.041}_{-0.041}$	k_{D}	$0.1377^{+0.0079}_{-0.0072}$	$\sigma_8(0.61)$	$0.584^{+0.030}_{-0.032}$
$\sigma_8/h^{0.5}$	$0.968^{+0.046}_{-0.049}$	$100\theta_{\mathrm{D}}$	$0.1597^{+0.0048}_{-0.0046}$	$f\sigma_8(2.33)$	$0.295^{+0.015}_{-0.017}$
$r_{\mathrm{drag}} h$	$101.0^{+3.1}_{-3.0}$	z_{eq}	3162^{+600}_{-500}	$\sigma_8(2.33)$	$0.305^{+0.016}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.13}_{-0.13}$	k_{eq}	$0.0097^{+0.0020}_{-0.0016}$	$\chi^2_{\mathrm{lensing}}$	$12.2 (\nu: 2.5)$
z_{re}	$7.61^{+0.55}_{-0.51}$	$100\theta_{\mathrm{eq}}$	$0.852^{+0.087}_{-0.087}$	$\chi^2_{6\mathrm{DF}}$	$0.065 (\nu: 0.0)$
$10^9 A_{\mathrm{s}}$	$2.28^{+0.61}_{-0.50}$	$100\theta_{\mathrm{s,eq}}$	$0.469^{+0.045}_{-0.045}$	χ^2_{MGS}	$2.05 (\nu: 0.3)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$2.05^{+0.54}_{-0.45}$	$H(0.15)$	$72.3^{+3.5}_{-3.2}$	$\chi^2_{\mathrm{DR12BAO}}$	$5.0 (\nu: 1.4)$
D_{40}	1394^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	645^{+29}_{-29}	χ^2_{prior}	$2.1 (\nu: 2.2)$
D_{220}	6581^{+2000}_{-2000}	$H(0.38)$	$81.9^{+4.7}_{-4.2}$	χ^2_{BAO}	$7.1 (\nu: 1.5)$
D_{810}	2752^{+700}_{-700}	$D_{\mathrm{M}}(0.38)$	1544^{+74}_{-74}		

$$\bar{\chi}^2_{\mathrm{eff}} = 21.32; R - 1 = 0.00478$$

2.187 base_lensing_lenspriors_BAO_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	817^{+200}_{-300}	$H(0.51)$	$90.1^{+7.2}_{-5.7}$
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.036}_{-0.026}$	D_{2000}	232^{+90}_{-80}	$D_{\mathrm{M}}(0.51)$	1971^{+110}_{-120}
$100\theta_{\mathrm{MC}}$	$1.042^{+0.043}_{-0.038}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.052}_{-0.051}$	$H(0.61)$	$95.6^{+8.1}_{-6.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.06^{+0.26}_{-0.28}$	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2294^{+130}_{-150}
n_{s}	$0.956^{+0.052}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00054}_{-0.00056}$	$H(2.33)$	236^{+30}_{-20}
H_0	$68.1^{+3.6}_{-3.1}$	$10^5D/H$	$2.62^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5751^{+420}_{-470}
Ω_{Λ}	$0.694^{+0.040}_{-0.050}$	Age/Gyr	$13.8^{+1.0}_{-1.1}$	$f\sigma_8(0.15)$	$0.454^{+0.050}_{-0.046}$
Ω_{m}	$0.306^{+0.050}_{-0.040}$	z_*	$1090.1^{+3.3}_{-2.7}$	$\sigma_8(0.15)$	$0.751^{+0.044}_{-0.044}$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.036}_{-0.026}$	r_*	$144.8^{+7.3}_{-8.6}$	$f\sigma_8(0.38)$	$0.474^{+0.042}_{-0.040}$
$\Omega_{\mathrm{m}}h^3$	$0.097^{+0.031}_{-0.021}$	$100\theta_*$	$1.042^{+0.043}_{-0.038}$	$\sigma_8(0.38)$	$0.666^{+0.038}_{-0.037}$
σ_8	$0.812^{+0.050}_{-0.049}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.9^{+1.2}_{-1.3}$	$f\sigma_8(0.51)$	$0.473^{+0.037}_{-0.036}$
S_8	$0.820^{+0.099}_{-0.087}$	z_{drag}	$1059.4^{+3.9}_{-3.8}$	$\sigma_8(0.51)$	$0.624^{+0.035}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.054}_{-0.048}$	r_{drag}	$147.6^{+7.7}_{-8.9}$	$f\sigma_8(0.61)$	$0.469^{+0.034}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.052}_{-0.049}$	k_{D}	$0.140^{+0.010}_{-0.0082}$	$\sigma_8(0.61)$	$0.594^{+0.033}_{-0.032}$
$\sigma_8/h^{0.5}$	$0.984^{+0.052}_{-0.051}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0059}_{-0.0052}$	$f\sigma_8(2.33)$	$0.300^{+0.017}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.5^{+3.2}_{-3.2}$	z_{eq}	3383^{+900}_{-600}	$\sigma_8(2.33)$	$0.309^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.13}_{-0.14}$	k_{eq}	$0.0103^{+0.0026}_{-0.0019}$	$\chi^2_{\mathrm{lensing}}$	$8.8 (\nu: 2.7)$
z_{re}	$7.78^{+0.69}_{-0.56}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.099}_{-0.10}$	$\chi^2_{6\mathrm{DF}}$	$0.060 (\nu: 0.0)$
10^9A_{s}	$2.15^{+0.62}_{-0.53}$	$100\theta_{\mathrm{s,eq}}$	$0.453^{+0.050}_{-0.053}$	χ^2_{MGS}	$1.80 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.92^{+0.56}_{-0.48}$	$H(0.15)$	$73.3^{+4.4}_{-3.7}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 1.3)$
D_{40}	1287^{+400}_{-300}	$D_{\mathrm{M}}(0.15)$	637^{+32}_{-34}	χ^2_{prior}	$2.0 (\nu: 2.1)$
D_{220}	5941^{+2000}_{-2000}	$H(0.38)$	$83.4^{+6.1}_{-4.9}$	χ^2_{BAO}	$6.2 (\nu: 1.5)$
D_{810}	2573^{+800}_{-800}	$D_{\mathrm{M}}(0.38)$	1521^{+81}_{-90}		

$\bar{\chi}^2_{\mathrm{eff}} = 17.02; R - 1 = 0.00221$

2.188 base_lensing_lenspriors_BAO_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	831	831^{+100}_{-90}	$H(0.51)$	89.79	$89.8^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11776	$0.1178^{+0.0044}_{-0.0043}$	D_{2000}	233.6	234^{+30}_{-30}	$D_M(0.51)$	1974.6	1974^{+36}_{-35}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	$n_{s,0.002}$	0.9545	$0.955^{+0.048}_{-0.046}$	$H(0.61)$	95.34	$95.3^{+1.0}_{-1.0}$
$\ln(10^{10} A_s)$	3.072	$3.071^{+0.089}_{-0.090}$	Y_P	0.24533	$0.24532^{+0.00055}_{-0.00054}$	$D_M(0.61)$	2298.7	2299^{+40}_{-38}
n_s	0.9545	$0.955^{+0.048}_{-0.046}$	Y_P^{BBN}	0.24666	$0.24665^{+0.00055}_{-0.00054}$	$H(2.33)$	234.92	$234.9^{+3.4}_{-3.4}$
H_0	68.01	$68.0^{+1.7}_{-1.7}$	$10^5 D/H$	2.616	$2.62^{+0.25}_{-0.23}$	$D_M(2.33)$	5765	5765^{+57}_{-57}
Ω_Λ	0.6960	$0.696^{+0.022}_{-0.023}$	Age/Gyr	13.805	$13.80^{+0.13}_{-0.13}$	$f\sigma_8(0.15)$	0.4531	$0.453^{+0.024}_{-0.024}$
Ω_m	0.3040	$0.304^{+0.023}_{-0.022}$	z_*	1089.93	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	0.7514	$0.751^{+0.037}_{-0.036}$
$\Omega_m h^2$	0.14061	$0.1406^{+0.0047}_{-0.0047}$	r_*	145.14	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	0.4732	$0.473^{+0.024}_{-0.023}$
$\Omega_m h^3$	0.09563	$0.0956^{+0.0028}_{-0.0027}$	$100\theta_*$	1.04110	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	0.6669	$0.667^{+0.034}_{-0.032}$
σ_8	0.8124	$0.812^{+0.040}_{-0.039}$	$D_M(z_*)/\text{Gpc}$	13.941	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	0.4727	$0.473^{+0.023}_{-0.023}$
S_8	0.8178	$0.818^{+0.046}_{-0.046}$	z_{drag}	1059.40	$1059.4^{+3.0}_{-3.1}$	$\sigma_8(0.51)$	0.6245	$0.624^{+0.032}_{-0.031}$
$\sigma_8 \Omega_m^{0.5}$	0.4479	$0.448^{+0.025}_{-0.025}$	r_{drag}	147.87	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	0.4683	$0.468^{+0.023}_{-0.022}$
$\sigma_8 \Omega_m^{0.25}$	0.6032	$0.603^{+0.030}_{-0.029}$	k_D	0.13993	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	0.5944	$0.594^{+0.031}_{-0.029}$
$\sigma_8/h^{0.5}$	0.9851	$0.985^{+0.048}_{-0.047}$	$100\theta_D$	0.16105	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	0.3000	$0.300^{+0.016}_{-0.015}$
$r_{\text{drag}} h$	100.56	$100.6^{+3.0}_{-2.9}$	z_{eq}	3345	3345^{+110}_{-110}	$\sigma_8(2.33)$	0.3096	$0.310^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	2.480	$2.48^{+0.10}_{-0.10}$	k_{eq}	0.010209	$0.01021^{+0.00035}_{-0.00034}$	χ^2_{lensing}	8.10	9.3 (ν : 1.2)
z_{re}	7.753	$7.75^{+0.30}_{-0.27}$	$100\theta_{\text{eq}}$	0.8232	$0.823^{+0.020}_{-0.019}$	$\chi^2_{6\text{DF}}$	0.000	0.055 (ν : 0.0)
$10^9 A_s$	2.159	$2.16^{+0.20}_{-0.19}$	$100\theta_{s,\text{eq}}$	0.4547	$0.455^{+0.011}_{-0.010}$	χ^2_{MGS}	1.75	1.84 (ν : 0.2)
$10^9 A_s e^{-2\tau}$	1.934	$1.93^{+0.18}_{-0.17}$	$H(0.15)$	73.20	$73.2^{+1.5}_{-1.5}$	χ^2_{DR12BAO}	3.43	4.3 (ν : 0.9)
D_{40}	1300	1299^{+200}_{-100}	$D_M(0.15)$	638.0	638^{+15}_{-14}	χ^2_{prior}	0.1	2.9 (ν : 2.7)
D_{220}	5991	5987^{+590}_{-560}	$H(0.38)$	83.16	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	5.17	6.2 (ν : 1.0)
D_{810}	2605	2605^{+270}_{-250}	$D_M(0.38)$	1523.4	1523^{+31}_{-29}			

Best-fit $\chi^2_{\text{eff}} = 13.35$; $\bar{\chi}^2_{\text{eff}} = 18.35$; $R - 1 = 0.00243$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 8.10

2.189 base_lensing_lenspriors_BAO_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	834	833^{+100}_{-90}	$H(0.51)$	89.82	$89.8^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11761	$0.1176^{+0.0041}_{-0.0040}$	D_{2000}	234.4	234^{+30}_{-30}	$D_M(0.51)$	1973.4	1974^{+34}_{-32}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	$n_{s,0.002}$	0.9547	$0.955^{+0.048}_{-0.046}$	$H(0.61)$	95.36	$95.4^{+1.0}_{-0.99}$
$\ln(10^{10} A_s)$	3.075	$3.073^{+0.088}_{-0.087}$	Y_P	0.24533	$0.24532^{+0.00055}_{-0.00053}$	$D_M(0.61)$	2297.4	2298^{+38}_{-35}
n_s	0.9547	$0.955^{+0.048}_{-0.046}$	Y_P^{BBN}	0.24666	$0.24665^{+0.00055}_{-0.00053}$	$H(2.33)$	234.82	$234.8^{+3.2}_{-3.2}$
H_0	68.07	$68.1^{+1.5}_{-1.6}$	$10^5 D/H$	2.615	$2.62^{+0.25}_{-0.23}$	$D_M(2.33)$	5765	5765^{+56}_{-57}
Ω_Λ	0.6968	$0.697^{+0.020}_{-0.022}$	Age/Gyr	13.803	$13.80^{+0.13}_{-0.13}$	$f\sigma_8(0.15)$	0.4530	$0.453^{+0.024}_{-0.024}$
Ω_m	0.3032	$0.303^{+0.022}_{-0.020}$	z_*	1089.90	$1089.9^{+1.6}_{-1.5}$	$\sigma_8(0.15)$	0.7522	$0.752^{+0.037}_{-0.035}$
$\Omega_m h^2$	0.14047	$0.1405^{+0.0045}_{-0.0044}$	r_*	145.17	$145.2^{+1.5}_{-1.6}$	$f\sigma_8(0.38)$	0.4733	$0.473^{+0.024}_{-0.023}$
$\Omega_m h^3$	0.09561	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	1.04111	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	0.6677	$0.667^{+0.034}_{-0.032}$
σ_8	0.8131	$0.812^{+0.040}_{-0.038}$	$D_M(z_*)/\text{Gpc}$	13.944	$13.94^{+0.15}_{-0.16}$	$f\sigma_8(0.51)$	0.4728	$0.472^{+0.023}_{-0.022}$
S_8	0.8174	$0.817^{+0.045}_{-0.045}$	z_{drag}	1059.40	$1059.4^{+3.0}_{-3.0}$	$\sigma_8(0.51)$	0.6252	$0.625^{+0.032}_{-0.030}$
$\sigma_8 \Omega_m^{0.5}$	0.4477	$0.447^{+0.025}_{-0.025}$	r_{drag}	147.90	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	0.4685	$0.468^{+0.023}_{-0.022}$
$\sigma_8 \Omega_m^{0.25}$	0.6034	$0.603^{+0.030}_{-0.029}$	k_D	0.13990	$0.1399^{+0.0030}_{-0.0028}$	$\sigma_8(0.61)$	0.5952	$0.595^{+0.030}_{-0.029}$
$\sigma_8/h^{0.5}$	0.9856	$0.985^{+0.049}_{-0.046}$	$100\theta_D$	0.16105	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	0.3004	$0.300^{+0.016}_{-0.015}$
$r_{\text{drag}} h$	100.67	$100.7^{+2.8}_{-2.7}$	z_{eq}	3341	3342^{+110}_{-110}	$\sigma_8(2.33)$	0.3101	$0.310^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	2.482	$2.48^{+0.10}_{-0.10}$	k_{eq}	0.010198	$0.01020^{+0.00033}_{-0.00032}$	χ^2_{lensing}	8.08	$9.3 (\nu: 1.2)$
z_{re}	7.747	$7.75^{+0.29}_{-0.26}$	$100\theta_{\text{eq}}$	0.8239	$0.824^{+0.018}_{-0.018}$	χ^2_{JLA}	1034.77	$1034.91 (\nu: 0.0)$
$10^9 A_s$	2.166	$2.16^{+0.20}_{-0.18}$	$100\theta_{s,\text{eq}}$	0.4550	$0.4550^{+0.0099}_{-0.0096}$	$\chi^2_{6\text{DF}}$	0.002	$0.049 (\nu: 0.0)$
$10^9 A_s e^{-2\tau}$	1.940	$1.94^{+0.18}_{-0.16}$	$H(0.15)$	73.25	$73.2^{+1.4}_{-1.4}$	χ^2_{MGS}	1.82	$1.89 (\nu: 0.2)$
D_{40}	1304	1301^{+200}_{-100}	$D_M(0.15)$	637.5	638^{+14}_{-13}	χ^2_{DR12BAO}	3.39	$4.1 (\nu: 0.6)$
D_{220}	6012	5999^{+580}_{-530}	$H(0.38)$	83.20	$83.2^{+1.1}_{-1.1}$	χ^2_{prior}	0.1	$2.9 (\nu: 2.7)$
D_{810}	2614	2610^{+270}_{-240}	$D_M(0.38)$	1522.4	1522^{+29}_{-27}	χ^2_{BAO}	5.21	$6.1 (\nu: 0.8)$

Best-fit $\chi^2_{\text{eff}} = 1048.13$; $\bar{\chi}^2_{\text{eff}} = 1053.13$; $R - 1 = 0.00215$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.39 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 8.08 SN - JLA Pantheon18: 1034.77

2.190 base_lensing_lenspriors_BAO_theta_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	814^{+89}_{-83}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1176^{+0.0044}_{-0.0041}$	D_{2000}	228^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1973^{+36}_{-33}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.949^{+0.046}_{-0.045}$	$H(0.61)$	$95.4^{+1.0}_{-0.98}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.054^{+0.085}_{-0.083}$	Y_{P}	$0.24533^{+0.00055}_{-0.00052}$	$D_{\mathrm{M}}(0.61)$	2297^{+39}_{-37}
n_{s}	$0.949^{+0.046}_{-0.045}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00052}$	$H(2.33)$	$234.8^{+3.3}_{-3.2}$
H_0	$68.1^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.24}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5764^{+55}_{-58}
Ω_{Λ}	$0.697^{+0.021}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.447^{+0.022}_{-0.022}$
Ω_{m}	$0.303^{+0.023}_{-0.021}$	z_*	$1089.9^{+1.6}_{-1.5}$	$\sigma_8(0.15)$	$0.743^{+0.034}_{-0.034}$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0048}_{-0.0046}$	r_*	$145.2^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.467^{+0.021}_{-0.021}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.659^{+0.031}_{-0.030}$
σ_8	$0.803^{+0.036}_{-0.036}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.467^{+0.021}_{-0.020}$
S_8	$0.807^{+0.042}_{-0.041}$	z_{drag}	$1059.4^{+3.1}_{-2.9}$	$\sigma_8(0.51)$	$0.617^{+0.029}_{-0.028}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.023}_{-0.022}$	r_{drag}	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	$0.462^{+0.020}_{-0.020}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.027}_{-0.026}$	k_{D}	$0.1399^{+0.0030}_{-0.0028}$	$\sigma_8(0.61)$	$0.588^{+0.028}_{-0.027}$
$\sigma_8/h^{0.5}$	$0.973^{+0.043}_{-0.042}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.297^{+0.015}_{-0.014}$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9}$	z_{eq}	3341^{+110}_{-110}	$\sigma_8(2.33)$	$0.306^{+0.016}_{-0.015}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.10}_{-0.096}$	k_{eq}	$0.01020^{+0.00035}_{-0.00033}$	$\chi^2_{\mathrm{lensing}}$	$12.5 (\nu: 1.6)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.057 (\nu: 0.0)$
10^9A_{s}	$2.12^{+0.19}_{-0.17}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.93 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.90^{+0.17}_{-0.15}$	$H(0.15)$	$73.3^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.2 (\nu: 0.8)$
D_{40}	1294^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-14}	χ^2_{prior}	$3.1 (\nu: 3.0)$
D_{220}	5927^{+580}_{-530}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2557^{+250}_{-220}	$D_{\mathrm{M}}(0.38)$	1522^{+30}_{-28}		

$$\bar{\chi}^2_{\mathrm{eff}} = 21.73; R - 1 = 0.00232$$

2.191 base_lensing_lenspriors_BAO_theta_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	831^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0045}_{-0.0043}$	D_{2000}	234^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1975^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.049}_{-0.047}$	$H(0.61)$	$95.3^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.070^{+0.091}_{-0.090}$	Y_{P}	$0.24532^{+0.00055}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2299^{+40}_{-37}
n_{s}	$0.956^{+0.049}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5765^{+57}_{-57}
Ω_{Λ}	$0.696^{+0.022}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.453^{+0.024}_{-0.024}$
Ω_{m}	$0.304^{+0.023}_{-0.022}$	z_*	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.751^{+0.037}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0048}_{-0.0047}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.473^{+0.024}_{-0.023}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.667^{+0.034}_{-0.032}$
σ_8	$0.812^{+0.040}_{-0.038}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.473^{+0.023}_{-0.023}$
S_8	$0.818^{+0.046}_{-0.046}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$\sigma_8(0.51)$	$0.624^{+0.032}_{-0.030}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.025}_{-0.025}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.468^{+0.023}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.030}_{-0.029}$	k_{D}	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.594^{+0.031}_{-0.029}$
$\sigma_8/h^{0.5}$	$0.985^{+0.049}_{-0.046}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.6^{+3.0}_{-3.0}$	z_{eq}	3346^{+110}_{-110}	$\sigma_8(2.33)$	$0.310^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.11}_{-0.11}$	k_{eq}	$0.01021^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	$9.2 (\nu: 1.1)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.16^{+0.20}_{-0.19}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.83 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.93^{+0.18}_{-0.17}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1293^{+200}_{-200}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	5970^{+620}_{-570}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2602^{+270}_{-250}	$D_{\mathrm{M}}(0.38)$	1524^{+30}_{-28}		

$$\bar{\chi}^2_{\mathrm{eff}} = 18.27; R - 1 = 0.00270$$

2.192 base_lensing_lenspriors_BAO_theta_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	833^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0045}_{-0.0043}$	D_{2000}	234^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1975^{+37}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.047}_{-0.046}$	$H(0.61)$	$95.3^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.072^{+0.091}_{-0.089}$	Y_{P}	$0.24532^{+0.00055}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2299^{+40}_{-37}
n_{s}	$0.956^{+0.047}_{-0.046}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5765^{+57}_{-57}
Ω_{Λ}	$0.696^{+0.022}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.454^{+0.025}_{-0.025}$
Ω_{m}	$0.304^{+0.023}_{-0.022}$	z_*	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.752^{+0.037}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0048}_{-0.0047}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.474^{+0.024}_{-0.023}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0027}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.667^{+0.034}_{-0.032}$
σ_8	$0.813^{+0.040}_{-0.038}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.473^{+0.023}_{-0.023}$
S_8	$0.819^{+0.046}_{-0.046}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$\sigma_8(0.51)$	$0.625^{+0.032}_{-0.030}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.025}_{-0.025}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.469^{+0.023}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.030}_{-0.029}$	k_{D}	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.595^{+0.031}_{-0.029}$
$\sigma_8/h^{0.5}$	$0.986^{+0.049}_{-0.047}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.6^{+3.0}_{-3.0}$	z_{eq}	3346^{+110}_{-110}	$\sigma_8(2.33)$	$0.310^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.10}$	k_{eq}	$0.01021^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	$7.0 (\nu: 1.1)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.16^{+0.20}_{-0.19}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.011}_{-0.010}$	χ^2_{MGS}	$1.82 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.94^{+0.18}_{-0.17}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1298^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	5988^{+600}_{-550}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2608^{+270}_{-240}	$D_{\mathrm{M}}(0.38)$	1524^{+30}_{-28}		

$$\bar{\chi}^2_{\mathrm{eff}} = 16.09; R - 1 = 0.00233$$

2.193 base_lensing_lenspriors_BAO_theta_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	837^{+100}_{-100}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1176^{+0.0043}_{-0.0045}$	D_{2000}	235^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1973^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.948^{+0.048}_{-0.047}$	$H(0.61)$	$95.4^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.08^{+0.10}_{-0.10}$	Y_{P}	$0.24533^{+0.00055}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2297^{+39}_{-37}
n_{s}	$0.948^{+0.048}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00053}$	$H(2.33)$	$234.8^{+3.3}_{-3.5}$
H_0	$68.1^{+1.7}_{-1.7}$	$10^5\mathrm{D}/\mathrm{H}$	$2.61^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5764^{+56}_{-56}
Ω_{Λ}	$0.697^{+0.022}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.13}$	$f\sigma_8(0.15)$	$0.453^{+0.027}_{-0.026}$
Ω_{m}	$0.303^{+0.023}_{-0.022}$	z_*	$1089.9^{+1.6}_{-1.5}$	$\sigma_8(0.15)$	$0.753^{+0.042}_{-0.040}$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0048}_{-0.0049}$	r_*	$145.2^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.474^{+0.026}_{-0.025}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0027}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.669^{+0.038}_{-0.036}$
σ_8	$0.814^{+0.045}_{-0.042}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.473^{+0.026}_{-0.025}$
S_8	$0.818^{+0.050}_{-0.049}$	z_{drag}	$1059.4^{+3.1}_{-2.9}$	$\sigma_8(0.51)$	$0.626^{+0.036}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.028}_{-0.027}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.469^{+0.026}_{-0.025}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.033}_{-0.032}$	k_{D}	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.596^{+0.034}_{-0.032}$
$\sigma_8/h^{0.5}$	$0.987^{+0.054}_{-0.052}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.301^{+0.018}_{-0.016}$
$r_{\mathrm{drag}}h$	$100.7^{+3.1}_{-2.9}$	z_{eq}	3341^{+110}_{-120}	$\sigma_8(2.33)$	$0.311^{+0.019}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.11}_{-0.12}$	k_{eq}	$0.01020^{+0.00035}_{-0.00036}$	$\chi^2_{\mathrm{lensing}}$	$12.9 (\nu: 1.8)$
z_{re}	$7.74^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.020}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.057 (\nu: 0.0)$
$10^9 A_{\mathrm{s}}$	$2.18^{+0.24}_{-0.21}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.011}_{-0.010}$	χ^2_{MGS}	$1.93 (\nu: 0.3)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.96^{+0.21}_{-0.19}$	$H(0.15)$	$73.3^{+1.5}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.2 (\nu: 0.8)$
D_{40}	1334^{+200}_{-200}	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-14}	χ^2_{prior}	$3.2 (\nu: 3.1)$
D_{220}	6104^{+700}_{-600}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.1)$
D_{810}	2631^{+300}_{-300}	$D_{\mathrm{M}}(0.38)$	1522^{+30}_{-29}		

$\bar{\chi}^2_{\mathrm{eff}} = 22.40; R - 1 = 0.00650$

2.194 base_lensing_lenspriors_BAO_theta_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	819^{+90}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0045}_{-0.0042}$	D_{2000}	230^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1975^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.048}_{-0.047}$	$H(0.61)$	$95.3^{+1.0}_{-0.99}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.055^{+0.086}_{-0.084}$	Y_{P}	$0.24532^{+0.00056}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2299^{+39}_{-37}
n_{s}	$0.956^{+0.048}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.2}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5765^{+55}_{-58}
Ω_{Λ}	$0.696^{+0.021}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.450^{+0.024}_{-0.023}$
Ω_{m}	$0.304^{+0.023}_{-0.021}$	z_*	$1089.9^{+1.6}_{-1.5}$	$\sigma_8(0.15)$	$0.746^{+0.036}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.1406^{+0.0048}_{-0.0045}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.469^{+0.023}_{-0.023}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.662^{+0.033}_{-0.032}$
σ_8	$0.806^{+0.039}_{-0.038}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.15}_{-0.16}$	$f\sigma_8(0.51)$	$0.469^{+0.022}_{-0.022}$
S_8	$0.811^{+0.046}_{-0.045}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$\sigma_8(0.51)$	$0.620^{+0.031}_{-0.030}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.025}_{-0.024}$	r_{drag}	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	$0.465^{+0.022}_{-0.021}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.599^{+0.029}_{-0.028}$	k_{D}	$0.1399^{+0.0031}_{-0.0028}$	$\sigma_8(0.61)$	$0.590^{+0.030}_{-0.029}$
$\sigma_8/h^{0.5}$	$0.977^{+0.047}_{-0.045}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.298^{+0.015}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.6^{+3.0}_{-2.9}$	z_{eq}	3345^{+110}_{-110}	$\sigma_8(2.33)$	$0.307^{+0.016}_{-0.015}$
$\langle d^2 \rangle^{1/2}$	$2.457^{+0.097}_{-0.093}$	k_{eq}	$0.01021^{+0.00035}_{-0.00033}$	$\chi^2_{\mathrm{lensing}}$	$9.3 (\nu: 1.1)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.12^{+0.19}_{-0.17}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.84 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.90^{+0.17}_{-0.15}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1275^{+140}_{-130}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.8 (\nu: 2.6)$
D_{220}	5886^{+560}_{-520}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2565^{+250}_{-230}	$D_{\mathrm{M}}(0.38)$	1523^{+30}_{-28}		

$$\bar{\chi}^2_{\mathrm{eff}} = 18.37; R - 1 = 0.00253$$

2.195 base_lensing_lenspriors_BAO_theta_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	803^{+87}_{-82}	$H(0.51)$	$89.8^{+1.1}_{-1.0}$
$\Omega_c h^2$	$0.1176^{+0.0044}_{-0.0040}$	D_{2000}	225^{+30}_{-30}	$D_M(0.51)$	1973^{+35}_{-33}
$100\theta_{MC}$	$1.0409^{+0.0015}_{-0.0016}$	$n_{s,0.002}$	$0.950^{+0.047}_{-0.046}$	$H(0.61)$	$95.4^{+1.1}_{-0.96}$
$\ln(10^{10} A_s)$	$3.040^{+0.082}_{-0.085}$	Y_P	$0.24532^{+0.00056}_{-0.00052}$	$D_M(0.61)$	2297^{+38}_{-36}
n_s	$0.950^{+0.047}_{-0.046}$	Y_P^{BBN}	$0.24665^{+0.00056}_{-0.00052}$	$H(2.33)$	$234.8^{+3.3}_{-3.1}$
H_0	$68.1^{+1.6}_{-1.6}$	$10^5 D/H$	$2.62^{+0.24}_{-0.23}$	$D_M(2.33)$	5764^{+54}_{-58}
Ω_Λ	$0.697^{+0.021}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.444^{+0.022}_{-0.021}$
Ω_m	$0.303^{+0.023}_{-0.021}$	z_*	$1089.9^{+1.6}_{-1.6}$	$\sigma_8(0.15)$	$0.738^{+0.033}_{-0.035}$
$\Omega_m h^2$	$0.1404^{+0.0048}_{-0.0044}$	r_*	$145.2^{+1.5}_{-1.6}$	$f\sigma_8(0.38)$	$0.464^{+0.021}_{-0.021}$
$\Omega_m h^3$	$0.0956^{+0.0028}_{-0.0025}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0016}$	$\sigma_8(0.38)$	$0.655^{+0.030}_{-0.032}$
σ_8	$0.797^{+0.035}_{-0.037}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.15}_{-0.16}$	$f\sigma_8(0.51)$	$0.464^{+0.020}_{-0.020}$
S_8	$0.801^{+0.041}_{-0.039}$	z_{drag}	$1059.4^{+3.1}_{-2.9}$	$\sigma_8(0.51)$	$0.613^{+0.029}_{-0.030}$
$\sigma_8 \Omega_m^{0.5}$	$0.439^{+0.022}_{-0.021}$	r_{drag}	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	$0.459^{+0.020}_{-0.020}$
$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.026}_{-0.026}$	k_D	$0.1399^{+0.0029}_{-0.0027}$	$\sigma_8(0.61)$	$0.584^{+0.028}_{-0.028}$
$\sigma_8/h^{0.5}$	$0.966^{+0.042}_{-0.043}$	$100\theta_D$	$0.1611^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.295^{+0.014}_{-0.014}$
$r_{\text{drag}} h$	$100.7^{+2.9}_{-2.8}$	z_{eq}	3341^{+110}_{-100}	$\sigma_8(2.33)$	$0.304^{+0.015}_{-0.015}$
$\langle d^2 \rangle^{1/2}$	$2.448^{+0.092}_{-0.092}$	k_{eq}	$0.01020^{+0.00035}_{-0.00032}$	χ^2_{lensing}	$12.3 (\nu: 1.5)$
z_{re}	$7.75^{+0.29}_{-0.28}$	$100\theta_{\text{eq}}$	$0.824^{+0.019}_{-0.019}$	$\chi^2_{6\text{DF}}$	$0.056 (\nu: 0.0)$
$10^9 A_s$	$2.09^{+0.18}_{-0.17}$	$100\theta_{s,\text{eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.92 (\nu: 0.3)$
$10^9 A_s e^{-2\tau}$	$1.87^{+0.16}_{-0.15}$	$H(0.15)$	$73.3^{+1.4}_{-1.5}$	χ^2_{DR12BAO}	$4.2 (\nu: 0.8)$
D_{40}	1273^{+140}_{-140}	$D_M(0.15)$	637^{+14}_{-13}	χ^2_{prior}	$3.0 (\nu: 2.8)$
D_{220}	5834^{+550}_{-490}	$H(0.38)$	$83.2^{+1.2}_{-1.1}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2522^{+240}_{-230}	$D_M(0.38)$	1522^{+29}_{-27}		

$$\bar{\chi}^2_{\text{eff}} = 21.52; R - 1 = 0.00519$$

2.196 base_lensing_lenspriors_BAO_theta_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	841^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1179^{+0.0044}_{-0.0043}$	D_{2000}	236^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1975^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.958^{+0.048}_{-0.046}$	$H(0.61)$	$95.3^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.080^{+0.091}_{-0.090}$	Y_{P}	$0.24531^{+0.00055}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2299^{+40}_{-37}
n_{s}	$0.958^{+0.048}_{-0.046}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00054}$	$H(2.33)$	$235.0^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5766^{+57}_{-57}
Ω_{Λ}	$0.695^{+0.022}_{-0.024}$	Age/Gyr	$13.81^{+0.14}_{-0.13}$	$f\sigma_8(0.15)$	$0.456^{+0.026}_{-0.025}$
Ω_{m}	$0.305^{+0.024}_{-0.022}$	z_*	$1090.0^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.756^{+0.039}_{-0.037}$
$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0047}_{-0.0047}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.476^{+0.025}_{-0.024}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0027}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.671^{+0.035}_{-0.033}$
σ_8	$0.817^{+0.042}_{-0.039}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.476^{+0.024}_{-0.023}$
S_8	$0.823^{+0.047}_{-0.047}$	z_{drag}	$1059.4^{+3.0}_{-3.0}$	$\sigma_8(0.51)$	$0.628^{+0.033}_{-0.031}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.026}_{-0.026}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.471^{+0.024}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.032}_{-0.030}$	k_{D}	$0.1399^{+0.0031}_{-0.0029}$	$\sigma_8(0.61)$	$0.598^{+0.031}_{-0.030}$
$\sigma_8/h^{0.5}$	$0.991^{+0.051}_{-0.048}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.302^{+0.016}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.5^{+3.0}_{-3.0}$	z_{eq}	3347^{+110}_{-110}	$\sigma_8(2.33)$	$0.311^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.10}$	k_{eq}	$0.01022^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	$9.4 (\nu: 1.1)$
z_{re}	$7.76^{+0.30}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.18^{+0.21}_{-0.19}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.80 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.95^{+0.18}_{-0.17}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1303^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	6024^{+600}_{-550}	$H(0.38)$	$83.1^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2631^{+270}_{-250}	$D_{\mathrm{M}}(0.38)$	1524^{+30}_{-28}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.45; R - 1 = 0.00265$

2.197 base_lensing_lenspriors_BAO_theta_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	831^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_c h^2$	$0.1178^{+0.0045}_{-0.0043}$	D_{2000}	234^{+30}_{-30}	$D_M(0.51)$	1974^{+37}_{-33}
$100\theta_{MC}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{s,0.002}$	$0.955^{+0.048}_{-0.046}$	$H(0.61)$	$95.4^{+1.0}_{-0.99}$
$\ln(10^{10} A_s)$	$3.071^{+0.091}_{-0.088}$	Y_P	$0.24532^{+0.00055}_{-0.00053}$	$D_M(0.61)$	2298^{+40}_{-37}
n_s	$0.955^{+0.048}_{-0.046}$	Y_P^{BBN}	$0.24665^{+0.00056}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5 D/H$	$2.62^{+0.25}_{-0.23}$	$D_M(2.33)$	5765^{+56}_{-57}
Ω_Λ	$0.696^{+0.022}_{-0.024}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.453^{+0.024}_{-0.024}$
Ω_m	$0.304^{+0.024}_{-0.022}$	z_*	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.751^{+0.037}_{-0.035}$
$\Omega_m h^2$	$0.1406^{+0.0048}_{-0.0047}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.473^{+0.024}_{-0.023}$
$\Omega_m h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.667^{+0.034}_{-0.032}$
σ_8	$0.812^{+0.039}_{-0.038}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.472^{+0.023}_{-0.022}$
S_8	$0.817^{+0.046}_{-0.046}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$\sigma_8(0.51)$	$0.624^{+0.032}_{-0.031}$
$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.025}_{-0.025}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.468^{+0.023}_{-0.022}$
$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.030}_{-0.029}$	k_D	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.594^{+0.031}_{-0.029}$
$\sigma_8/h^{0.5}$	$0.984^{+0.049}_{-0.046}$	$100\theta_D$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.015}$
$r_{\text{drag}} h$	$100.6^{+3.0}_{-3.0}$	z_{eq}	3345^{+120}_{-110}	$\sigma_8(2.33)$	$0.309^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.10}$	k_{eq}	$0.01021^{+0.00035}_{-0.00034}$	χ^2_{lensing}	$9.3 (\nu: 1.2)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\text{eq}}$	$0.823^{+0.020}_{-0.019}$	$\chi^2_{6\text{DF}}$	$0.055 (\nu: 0.0)$
$10^9 A_s$	$2.16^{+0.20}_{-0.18}$	$100\theta_{s,\text{eq}}$	$0.455^{+0.011}_{-0.010}$	χ^2_{MGS}	$1.84 (\nu: 0.2)$
$10^9 A_s e^{-2\tau}$	$1.93^{+0.18}_{-0.16}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	χ^2_{DR12BAO}	$4.3 (\nu: 0.9)$
D_{40}	1298^{+200}_{-100}	$D_M(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	5984^{+590}_{-560}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2604^{+270}_{-240}	$D_M(0.38)$	1523^{+31}_{-28}		

$$\bar{\chi}^2_{\text{eff}} = 18.35; R - 1 = 0.00361$$

2.198 base_lensing_lenspriors_BAO_theta_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	813^{+88}_{-81}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0045}_{-0.0041}$	D_{2000}	228^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1973^{+36}_{-33}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	$n_{\mathrm{s},0.002}$	$0.948^{+0.046}_{-0.045}$	$H(0.61)$	$95.4^{+1.1}_{-0.98}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.053^{+0.083}_{-0.082}$	Y_{P}	$0.24533^{+0.00056}_{-0.00052}$	$D_{\mathrm{M}}(0.61)$	2297^{+39}_{-36}
n_{s}	$0.948^{+0.046}_{-0.045}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00056}_{-0.00052}$	$H(2.33)$	$234.8^{+3.3}_{-3.2}$
H_0	$68.1^{+1.6}_{-1.7}$	$10^5D/H$	$2.61^{+0.24}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5764^{+55}_{-58}
Ω_{Λ}	$0.697^{+0.021}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.446^{+0.022}_{-0.022}$
Ω_{m}	$0.303^{+0.023}_{-0.021}$	z_*	$1089.9^{+1.6}_{-1.6}$	$\sigma_8(0.15)$	$0.742^{+0.034}_{-0.032}$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0048}_{-0.0045}$	r_*	$145.2^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.467^{+0.021}_{-0.020}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.659^{+0.031}_{-0.029}$
σ_8	$0.802^{+0.036}_{-0.034}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.15}_{-0.16}$	$f\sigma_8(0.51)$	$0.466^{+0.021}_{-0.020}$
S_8	$0.806^{+0.042}_{-0.041}$	z_{drag}	$1059.4^{+3.1}_{-2.9}$	$\sigma_8(0.51)$	$0.617^{+0.029}_{-0.028}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.023}_{-0.022}$	r_{drag}	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	$0.462^{+0.020}_{-0.019}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.026}_{-0.026}$	k_{D}	$0.1399^{+0.0030}_{-0.0028}$	$\sigma_8(0.61)$	$0.587^{+0.028}_{-0.026}$
$\sigma_8/h^{0.5}$	$0.972^{+0.043}_{-0.041}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.296^{+0.014}_{-0.014}$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9}$	z_{eq}	3340^{+120}_{-110}	$\sigma_8(2.33)$	$0.306^{+0.015}_{-0.015}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.10}_{-0.096}$	k_{eq}	$0.01020^{+0.00035}_{-0.00033}$	$\chi^2_{\mathrm{lensing}}$	$12.6 (\nu: 1.7)$
z_{re}	$7.74^{+0.29}_{-0.28}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.019}_{-0.020}$	$\chi^2_{6\mathrm{DF}}$	$0.057 (\nu: 0.0)$
10^9A_{s}	$2.12^{+0.18}_{-0.17}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.93 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.90^{+0.16}_{-0.15}$	$H(0.15)$	$73.3^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.2 (\nu: 0.8)$
D_{40}	1295^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-13}	χ^2_{prior}	$3.1 (\nu: 3.0)$
D_{220}	5923^{+570}_{-540}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2555^{+240}_{-220}	$D_{\mathrm{M}}(0.38)$	1522^{+30}_{-27}		

$$\bar{\chi}^2_{\mathrm{eff}} = 21.94; R - 1 = 0.00291$$

2.199 base_lensing_lenspriors_BAO_theta_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	830^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1177^{+0.0045}_{-0.0042}$	D_{2000}	233^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1974^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.955^{+0.048}_{-0.047}$	$H(0.61)$	$95.4^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.070^{+0.091}_{-0.090}$	Y_{P}	$0.24532^{+0.00055}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2298^{+40}_{-37}
n_{s}	$0.955^{+0.048}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5765^{+56}_{-57}
Ω_{Λ}	$0.696^{+0.022}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.452^{+0.025}_{-0.025}$
Ω_{m}	$0.304^{+0.023}_{-0.022}$	z_*	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.751^{+0.039}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	$0.1406^{+0.0047}_{-0.0046}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.473^{+0.025}_{-0.024}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.666^{+0.035}_{-0.033}$
σ_8	$0.811^{+0.041}_{-0.039}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.472^{+0.024}_{-0.023}$
S_8	$0.817^{+0.047}_{-0.047}$	z_{drag}	$1059.4^{+3.0}_{-3.0}$	$\sigma_8(0.51)$	$0.624^{+0.033}_{-0.031}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.026}_{-0.026}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.468^{+0.024}_{-0.023}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.031}_{-0.030}$	k_{D}	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.594^{+0.031}_{-0.030}$
$\sigma_8/h^{0.5}$	$0.984^{+0.051}_{-0.048}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.6^{+3.0}_{-3.0}$	z_{eq}	3345^{+110}_{-110}	$\sigma_8(2.33)$	$0.309^{+0.018}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.099}$	k_{eq}	$0.01021^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	$9.3 (\nu: 1.2)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.15^{+0.20}_{-0.19}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.85 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.93^{+0.18}_{-0.17}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1297^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	5978^{+590}_{-550}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2600^{+270}_{-250}	$D_{\mathrm{M}}(0.38)$	1523^{+30}_{-28}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.40; R - 1 = 0.00218$

2.200 base_lensing_lenspriors_BAO_theta_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	811^{+90}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.0}$
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0044}_{-0.0041}$	D_{2000}	227^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1973^{+36}_{-33}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	$n_{\mathrm{s},0.002}$	$0.948^{+0.047}_{-0.046}$	$H(0.61)$	$95.4^{+1.1}_{-0.97}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.051^{+0.086}_{-0.083}$	Y_{P}	$0.24533^{+0.00055}_{-0.00052}$	$D_{\mathrm{M}}(0.61)$	2297^{+39}_{-37}
n_{s}	$0.948^{+0.047}_{-0.046}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00052}$	$H(2.33)$	$234.8^{+3.4}_{-3.2}$
H_0	$68.1^{+1.6}_{-1.7}$	$10^5D/H$	$2.61^{+0.24}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5764^{+55}_{-58}
Ω_{Λ}	$0.697^{+0.021}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.446^{+0.023}_{-0.022}$
Ω_{m}	$0.303^{+0.023}_{-0.021}$	z_*	$1089.9^{+1.6}_{-1.5}$	$\sigma_8(0.15)$	$0.741^{+0.035}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0048}_{-0.0046}$	r_*	$145.2^{+1.5}_{-1.6}$	$f\sigma_8(0.38)$	$0.466^{+0.022}_{-0.022}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0016}$	$\sigma_8(0.38)$	$0.658^{+0.032}_{-0.033}$
σ_8	$0.801^{+0.037}_{-0.037}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.15}_{-0.16}$	$f\sigma_8(0.51)$	$0.466^{+0.022}_{-0.022}$
S_8	$0.805^{+0.044}_{-0.041}$	z_{drag}	$1059.4^{+3.1}_{-2.9}$	$\sigma_8(0.51)$	$0.616^{+0.030}_{-0.031}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.024}_{-0.023}$	r_{drag}	$147.9^{+1.9}_{-2.0}$	$f\sigma_8(0.61)$	$0.461^{+0.021}_{-0.021}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.028}_{-0.028}$	k_{D}	$0.1399^{+0.0030}_{-0.0028}$	$\sigma_8(0.61)$	$0.586^{+0.029}_{-0.030}$
$\sigma_8/h^{0.5}$	$0.971^{+0.045}_{-0.045}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0018}_{-0.0018}$	$f\sigma_8(2.33)$	$0.296^{+0.015}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9}$	z_{eq}	3340^{+110}_{-110}	$\sigma_8(2.33)$	$0.306^{+0.016}_{-0.015}$
$\langle d^2 \rangle^{1/2}$	$2.46^{+0.10}_{-0.095}$	k_{eq}	$0.01019^{+0.00035}_{-0.00033}$	$\chi^2_{\mathrm{lensing}}$	$12.8 (\nu: 1.7)$
z_{re}	$7.74^{+0.29}_{-0.28}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.057 (\nu: 0.0)$
10^9A_{s}	$2.11^{+0.19}_{-0.17}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.95 (\nu: 0.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.89^{+0.17}_{-0.15}$	$H(0.15)$	$73.3^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.2 (\nu: 0.8)$
D_{40}	1291^{+100}_{-100}	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-13}	χ^2_{prior}	$3.1 (\nu: 3.0)$
D_{220}	5911^{+580}_{-530}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.1)$
D_{810}	2548^{+250}_{-230}	$D_{\mathrm{M}}(0.38)$	1522^{+30}_{-28}		

$$\bar{\chi}^2_{\mathrm{eff}} = 22.09; R - 1 = 0.00237$$

2.201 base_lensing_lenspriors_BAO_theta_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{1420}	830^{+100}_{-90}	$H(0.51)$	$89.8^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0045}_{-0.0042}$	D_{2000}	233^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1975^{+36}_{-34}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	$0.956^{+0.048}_{-0.047}$	$H(0.61)$	$95.3^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.068^{+0.090}_{-0.089}$	Y_{P}	$0.24532^{+0.00055}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2299^{+40}_{-37}
n_{s}	$0.956^{+0.048}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00053}$	$H(2.33)$	$234.9^{+3.4}_{-3.3}$
H_0	$68.0^{+1.6}_{-1.7}$	$10^5D/H$	$2.62^{+0.25}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5765^{+57}_{-58}
Ω_{Λ}	$0.696^{+0.022}_{-0.023}$	Age/Gyr	$13.80^{+0.13}_{-0.14}$	$f\sigma_8(0.15)$	$0.453^{+0.024}_{-0.025}$
Ω_{m}	$0.304^{+0.023}_{-0.022}$	z_*	$1089.9^{+1.7}_{-1.5}$	$\sigma_8(0.15)$	$0.751^{+0.037}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0048}_{-0.0046}$	r_*	$145.1^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	$0.473^{+0.024}_{-0.023}$
$\Omega_{\mathrm{m}}h^3$	$0.0956^{+0.0028}_{-0.0026}$	$100\theta_*$	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	$0.666^{+0.034}_{-0.032}$
σ_8	$0.812^{+0.040}_{-0.038}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.472^{+0.023}_{-0.022}$
S_8	$0.817^{+0.045}_{-0.046}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$\sigma_8(0.51)$	$0.624^{+0.032}_{-0.031}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.025}_{-0.025}$	r_{drag}	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	$0.468^{+0.023}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.030}_{-0.029}$	k_{D}	$0.1399^{+0.0030}_{-0.0029}$	$\sigma_8(0.61)$	$0.594^{+0.031}_{-0.029}$
$\sigma_8/h^{0.5}$	$0.984^{+0.049}_{-0.046}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	$0.300^{+0.016}_{-0.015}$
$r_{\mathrm{drag}}h$	$100.5^{+3.0}_{-3.0}$	z_{eq}	3346^{+110}_{-110}	$\sigma_8(2.33)$	$0.309^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.10}_{-0.099}$	k_{eq}	$0.01021^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	$7.9 (\nu: 1.1)$
z_{re}	$7.75^{+0.29}_{-0.27}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.019}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
10^9A_{s}	$2.15^{+0.20}_{-0.18}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.010}_{-0.010}$	χ^2_{MGS}	$1.82 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.93^{+0.18}_{-0.16}$	$H(0.15)$	$73.2^{+1.4}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 0.9)$
D_{40}	1291^{+200}_{-100}	$D_{\mathrm{M}}(0.15)$	638^{+15}_{-14}	χ^2_{prior}	$2.9 (\nu: 2.7)$
D_{220}	5961^{+590}_{-540}	$H(0.38)$	$83.2^{+1.2}_{-1.2}$	χ^2_{BAO}	$6.2 (\nu: 1.0)$
D_{810}	2598^{+270}_{-250}	$D_{\mathrm{M}}(0.38)$	1524^{+30}_{-28}		

$\bar{\chi}^2_{\mathrm{eff}} = 16.94; R - 1 = 0.00237$

2.202 base_lensing_lenspriors_pttagr2

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	3632	3282^{+2000}_{-1000}	$H(0.38)$	109.4	84^{+30}_{-30}
$\Omega_c h^2$	0.0991	$0.094^{+0.026}_{-0.021}$	D_{1420}	1013	1046^{+500}_{-400}	$D_M(0.38)$	1094	1556^{+800}_{-500}
$100\theta_{MC}$	1.107	$1.02^{+0.10}_{-0.12}$	D_{2000}	287	344^{+200}_{-100}	$H(0.51)$	113.8	89^{+30}_{-30}
$\ln(10^{10} A_s)$	3.465	$3.34^{+0.33}_{-0.36}$	$n_{s,0.002}$	0.959	$0.959^{+0.051}_{-0.051}$	$D_M(0.51)$	1444	2019^{+1000}_{-600}
n_s	0.959	$0.959^{+0.051}_{-0.051}$	Y_P	0.24532	$0.24531^{+0.00055}_{-0.00056}$	$H(0.61)$	117.7	94^{+20}_{-20}
H_0	99.9	—	Y_P^{BBN}	0.24665	$0.24664^{+0.00055}_{-0.00056}$	$D_M(0.61)$	1703	2353^{+1000}_{-700}
Ω_Λ	0.878	$0.72^{+0.18}_{-0.41}$	$10^5 D/H$	2.621	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	232.0	217^{+30}_{-30}
Ω_m	0.122	$0.28^{+0.41}_{-0.18}$	Age/Gyr	11.92	$14.5^{+4.1}_{-2.9}$	$D_M(2.33)$	4894	6028^{+2000}_{-1000}
$\Omega_m h^2$	0.1219	$0.117^{+0.026}_{-0.021}$	z_*	1088.25	$1087.7^{+2.7}_{-2.5}$	$f\sigma_8(0.15)$	0.333	$0.399^{+0.093}_{-0.089}$
$\Omega_m h^3$	0.1218	$0.084^{+0.049}_{-0.045}$	r_*	150.4	$151.9^{+7.2}_{-7.3}$	$\sigma_8(0.15)$	0.881	$0.74^{+0.16}_{-0.20}$
σ_8	0.924	$0.80^{+0.15}_{-0.19}$	$100\theta_*$	1.107	$1.02^{+0.10}_{-0.12}$	$f\sigma_8(0.38)$	0.393	$0.426^{+0.043}_{-0.059}$
S_8	0.589	$0.72^{+0.24}_{-0.17}$	$D_M(z_*)/\text{Gpc}$	13.58	$15.0^{+2.6}_{-2.0}$	$\sigma_8(0.38)$	0.815	$0.67^{+0.17}_{-0.20}$
$\sigma_8 \Omega_m^{0.5}$	0.323	$0.396^{+0.13}_{-0.095}$	z_{drag}	1057.95	$1057.6^{+3.5}_{-3.7}$	$f\sigma_8(0.51)$	0.4177	$0.431^{+0.039}_{-0.044}$
$\sigma_8 \Omega_m^{0.25}$	0.5460	$0.557^{+0.043}_{-0.050}$	r_{drag}	153.2	$154.9^{+7.5}_{-7.6}$	$\sigma_8(0.51)$	0.778	$0.63^{+0.17}_{-0.20}$
$\sigma_8/h^{0.5}$	0.924	$0.954^{+0.056}_{-0.070}$	k_D	0.1345	$0.1329^{+0.0079}_{-0.0073}$	$f\sigma_8(0.61)$	0.4326	$0.432^{+0.041}_{-0.055}$
$r_{\text{drag}} h$	153.0	110^{+40}_{-50}	$100\theta_D$	0.1720	$0.158^{+0.016}_{-0.018}$	$\sigma_8(0.61)$	0.751	$0.60^{+0.17}_{-0.20}$
$\langle d^2 \rangle^{1/2}$	2.597	$2.61^{+0.17}_{-0.16}$	z_{eq}	2898	2778^{+600}_{-500}	$f\sigma_8(2.33)$	0.392	$0.307^{+0.094}_{-0.11}$
z_{re}	7.60	$7.31^{+0.65}_{-0.66}$	k_{eq}	0.00884	$0.0085^{+0.0019}_{-0.0016}$	$\sigma_8(2.33)$	0.432	$0.32^{+0.12}_{-0.13}$
$10^9 A_s$	3.20	$2.84^{+1.1}_{-0.87}$	$100\theta_{\text{eq}}$	0.975	$0.93^{+0.13}_{-0.12}$	χ^2_{lensing}	15.57	$18.0 (\nu: 2.0)$
$10^9 A_s e^{-2\tau}$	2.87	$2.55^{+0.95}_{-0.78}$	$100\theta_{s,\text{eq}}$	0.535	$0.509^{+0.067}_{-0.065}$	χ^2_{prior}	0.00	$2.0 (\nu: 2.0)$
D_{40}	2108	1794^{+800}_{-600}	$H(0.15)$	103.0	75^{+30}_{-30}			
D_{220}	9493	8741^{+4000}_{-3000}	$D_M(0.15)$	444	651^{+400}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 15.57$; $\bar{\chi}^2_{\text{eff}} = 20.05$; $R - 1 = 0.00735$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmargd: 15.57

2.203 base_lensing_lenspriors_pttagr2_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	3672	3627^{+1000}_{-1000}	$H(0.38)$	89.1	$88.9^{+6.5}_{-6.0}$
$\Omega_c h^2$	0.0943	$0.096^{+0.023}_{-0.018}$	D_{1420}	1150	1137^{+400}_{-400}	$D_M(0.38)$	1376	1384^{+150}_{-120}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0016}$	D_{2000}	320	317^{+100}_{-100}	$H(0.51)$	94.3	$94.2^{+5.4}_{-4.6}$
$\ln(10^{10} A_s)$	3.389	$3.37^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.960	$0.959^{+0.052}_{-0.050}$	$D_M(0.51)$	1801	1811^{+170}_{-150}
n_s	0.960	$0.959^{+0.052}_{-0.050}$	Y_P	0.24532	$0.24532^{+0.00054}_{-0.00059}$	$H(0.61)$	98.76	$98.7^{+4.6}_{-3.6}$
H_0	77.7	77^{+9}_{-10}	Y_P^{BBN}	0.24665	$0.24665^{+0.00054}_{-0.00059}$	$D_M(0.61)$	2112	2122^{+190}_{-170}
Ω_Λ	0.806	$0.798^{+0.066}_{-0.11}$	$10^5 D/H$	2.618	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	219.5	220^{+15}_{-11}
Ω_m	0.194	$0.202^{+0.11}_{-0.066}$	Age/Gyr	13.645	$13.65^{+0.21}_{-0.23}$	$D_M(2.33)$	5668	5670^{+110}_{-140}
$\Omega_m h^2$	0.1171	$0.119^{+0.024}_{-0.018}$	z_*	1087.78	$1087.9^{+2.6}_{-2.2}$	$f\sigma_8(0.15)$	0.380	$0.383^{+0.068}_{-0.064}$
$\Omega_m h^3$	0.0910	$0.0913^{+0.0051}_{-0.0049}$	r_*	151.8	$151.4^{+5.9}_{-6.7}$	$\sigma_8(0.15)$	0.788	$0.784^{+0.053}_{-0.056}$
σ_8	0.837	$0.834^{+0.051}_{-0.051}$	$100\theta_*$	1.04114	$1.0411^{+0.0015}_{-0.0016}$	$f\sigma_8(0.38)$	0.424	$0.425^{+0.047}_{-0.054}$
S_8	0.674	$0.68^{+0.13}_{-0.12}$	$D_M(z_*)/\text{Gpc}$	14.58	$14.54^{+0.56}_{-0.64}$	$\sigma_8(0.38)$	0.714	$0.710^{+0.054}_{-0.063}$
$\sigma_8 \Omega_m^{0.5}$	0.369	$0.373^{+0.072}_{-0.063}$	z_{drag}	1057.61	$1057.7^{+3.4}_{-3.7}$	$f\sigma_8(0.51)$	0.4377	$0.438^{+0.037}_{-0.047}$
$\sigma_8 \Omega_m^{0.25}$	0.5559	$0.557^{+0.047}_{-0.051}$	r_{drag}	154.7	$154.3^{+6.3}_{-6.9}$	$\sigma_8(0.51)$	0.676	$0.671^{+0.056}_{-0.064}$
$\sigma_8/h^{0.5}$	0.950	$0.950^{+0.056}_{-0.061}$	k_D	0.1330	$0.1335^{+0.0072}_{-0.0064}$	$f\sigma_8(0.61)$	0.4436	$0.443^{+0.031}_{-0.040}$
$r_{\text{drag}} h$	120.1	119^{+20}_{-20}	$100\theta_D$	0.16199	$0.1619^{+0.0021}_{-0.0020}$	$\sigma_8(0.61)$	0.648	$0.643^{+0.056}_{-0.066}$
$\langle d^2 \rangle^{1/2}$	2.607	$2.60^{+0.15}_{-0.16}$	z_{eq}	2784	2819^{+600}_{-400}	$f\sigma_8(2.33)$	0.3330	$0.330^{+0.033}_{-0.039}$
z_{re}	7.362	$7.38^{+0.46}_{-0.39}$	k_{eq}	0.00850	$0.0086^{+0.0017}_{-0.0013}$	$\sigma_8(2.33)$	0.3524	$0.350^{+0.044}_{-0.049}$
$10^9 A_s$	2.96	$2.93^{+1.0}_{-0.86}$	$100\theta_{\text{eq}}$	0.946	$0.94^{+0.12}_{-0.12}$	χ^2_{lensing}	15.8	$17.9 (\nu: 2.1)$
$10^9 A_s e^{-2\tau}$	2.65	$2.62^{+0.93}_{-0.77}$	$100\theta_{s,\text{eq}}$	0.518	$0.515^{+0.063}_{-0.064}$	χ^2_{prior}	0.0	$3.0 (\nu: 3.0)$
D_{40}	1891	1868^{+700}_{-600}	$H(0.15)$	81.5	$81.1^{+8.2}_{-8.3}$			
D_{220}	9125	9009^{+4000}_{-3000}	$D_M(0.15)$	566	570^{+70}_{-60}			

Best-fit $\chi^2_{\text{eff}} = 15.83$; $\bar{\chi}^2_{\text{eff}} = 20.91$; $R - 1 = 0.00715$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmargd: 15.83

2.204 base_lensing_lenspriors_pttagr2_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.0222^{+0.0013}_{-0.0013}$	D_{1420}	973	967^{+200}_{-200}	$H(0.51)$	85.6	$85.9^{+5.3}_{-4.9}$
$\Omega_c h^2$	0.0976	$0.099^{+0.024}_{-0.020}$	D_{2000}	287	290^{+100}_{-90}	$D_M(0.51)$	2048	2044^{+100}_{-100}
$100\theta_{MC}$	1.0117	$1.013^{+0.034}_{-0.035}$	$n_{s,0.002}$	0.954	$0.954^{+0.052}_{-0.051}$	$H(0.61)$	90.6	$90.9^{+5.9}_{-5.4}$
$\ln(10^{10} A_s)$	3.266	$3.26^{+0.26}_{-0.25}$	Y_P	0.24532	$0.24532^{+0.00057}_{-0.00056}$	$D_M(0.61)$	2389	2383^{+120}_{-120}
n_s	0.954	$0.954^{+0.052}_{-0.051}$	Y_P^{BBN}	0.24665	$0.24664^{+0.00057}_{-0.00056}$	$H(2.33)$	218.4	219^{+20}_{-18}
H_0	66.26	$66.4^{+2.9}_{-2.8}$	$10^5 D/H$	2.620	$2.62^{+0.26}_{-0.24}$	$D_M(2.33)$	6085	6069^{+400}_{-390}
Ω_Λ	0.7257	$0.725^{+0.033}_{-0.037}$	Age/Gyr	14.58	$14.54^{+0.98}_{-0.95}$	$f\sigma_8(0.15)$	0.4189	$0.419^{+0.039}_{-0.039}$
Ω_m	0.2743	$0.275^{+0.037}_{-0.033}$	z_*	1088.10	$1088.2^{+2.6}_{-2.3}$	$\sigma_8(0.15)$	0.7302	$0.730^{+0.040}_{-0.041}$
$\Omega_m h^2$	0.1204	$0.122^{+0.024}_{-0.021}$	r_*	150.8	$150.5^{+6.7}_{-6.8}$	$f\sigma_8(0.38)$	0.4447	$0.445^{+0.034}_{-0.035}$
$\Omega_m h^3$	0.0798	$0.081^{+0.019}_{-0.016}$	$100\theta_*$	1.0120	$1.013^{+0.034}_{-0.035}$	$\sigma_8(0.38)$	0.6514	$0.651^{+0.036}_{-0.036}$
σ_8	0.7861	$0.786^{+0.044}_{-0.045}$	$D_M(z_*)/\text{Gpc}$	14.90	$14.9^{+1.2}_{-1.1}$	$f\sigma_8(0.51)$	0.4477	$0.448^{+0.032}_{-0.032}$
S_8	0.752	$0.753^{+0.075}_{-0.075}$	z_{drag}	1057.84	$1057.9^{+3.6}_{-3.7}$	$\sigma_8(0.51)$	0.6114	$0.611^{+0.033}_{-0.033}$
$\sigma_8 \Omega_m^{0.5}$	0.4117	$0.412^{+0.041}_{-0.041}$	r_{drag}	153.7	$153.4^{+7.0}_{-7.1}$	$f\sigma_8(0.61)$	0.4459	$0.446^{+0.030}_{-0.030}$
$\sigma_8 \Omega_m^{0.25}$	0.5689	$0.569^{+0.042}_{-0.042}$	k_D	0.1340	$0.1343^{+0.0075}_{-0.0072}$	$\sigma_8(0.61)$	0.5829	$0.583^{+0.032}_{-0.031}$
$\sigma_8/h^{0.5}$	0.9658	$0.965^{+0.048}_{-0.051}$	$100\theta_D$	0.15731	$0.1575^{+0.0048}_{-0.0045}$	$f\sigma_8(2.33)$	0.2956	$0.295^{+0.016}_{-0.016}$
$r_{\text{drag}} h$	101.82	$101.8^{+3.0}_{-2.9}$	z_{eq}	2862	2889^{+600}_{-500}	$\sigma_8(2.33)$	0.3065	$0.306^{+0.017}_{-0.017}$
$\langle d^2 \rangle^{1/2}$	2.585	$2.58^{+0.16}_{-0.17}$	k_{eq}	0.00873	$0.0088^{+0.0018}_{-0.0015}$	χ^2_{lensing}	16.4	18.4 ($\nu: 2.6$)
z_{re}	7.36	$7.37^{+0.54}_{-0.48}$	$100\theta_{\text{eq}}$	0.900	$0.897^{+0.099}_{-0.090}$	$\chi^2_{6\text{DF}}$	0.051	0.11 ($\nu: 0.0$)
$10^9 A_s$	2.62	$2.61^{+0.77}_{-0.59}$	$100\theta_{s,\text{eq}}$	0.4937	$0.492^{+0.050}_{-0.046}$	χ^2_{MGS}	2.35	2.43 ($\nu: 0.3$)
$10^9 A_s e^{-2\tau}$	2.35	$2.34^{+0.69}_{-0.53}$	$H(0.15)$	70.83	$71.0^{+3.4}_{-3.2}$	χ^2_{DR12BAO}	5.16	6.0 ($\nu: 1.5$)
D_{40}	1640	1633^{+500}_{-400}	$D_M(0.15)$	657.1	656^{+29}_{-29}	χ^2_{prior}	0.09	2.1 ($\nu: 2.2$)
D_{220}	7982	7943^{+3000}_{-2000}	$H(0.38)$	79.69	$79.9^{+4.6}_{-4.2}$	χ^2_{BAO}	7.56	8.6 ($\nu: 1.7$)
D_{810}	3143	3114^{+700}_{-700}	$D_M(0.38)$	1576	1573^{+75}_{-75}			

Best-fit $\chi^2_{\text{eff}} = 24.05$; $\bar{\chi}^2_{\text{eff}} = 29.10$; $R - 1 = 0.00706$

χ^2_{eff} : BAO - 6DF: 0.05 MGS: 2.35 DR12BAO: 5.16 CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmarged: 16.40

2.205 base_lensing_lenspriors_pttagr2_BAO_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02225	$0.0223^{+0.0013}_{-0.0013}$	D_{1420}	812	812^{+100}_{-90}	$H(0.51)$	89.87	$89.9^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	0.11724	$0.1173^{+0.0045}_{-0.0044}$	D_{2000}	226.8	227^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	1970.9	1970^{+36}_{-37}
$100\theta_{\mathrm{MC}}$	1.04081	$1.0409^{+0.0015}_{-0.0015}$	$n_{\mathrm{s},0.002}$	0.9377	$0.938^{+0.046}_{-0.047}$	$H(0.61)$	95.40	$95.4^{+1.0}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	3.062	$3.061^{+0.099}_{-0.097}$	Y_{P}	0.24535	$0.24535^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2294.8	2294^{+39}_{-40}
n_{s}	0.9377	$0.938^{+0.046}_{-0.047}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24667	$0.24667^{+0.00054}_{-0.00056}$	$H(2.33)$	234.61	$234.6^{+3.4}_{-3.4}$
H_0	68.20	$68.2^{+1.8}_{-1.7}$	$10^5\mathrm{D}/\mathrm{H}$	2.608	$2.61^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(2.33)$	5763	5761^{+59}_{-57}
Ω_{Λ}	0.6987	$0.699^{+0.022}_{-0.023}$	Age/Gyr	13.801	$13.80^{+0.14}_{-0.13}$	$f\sigma_8(0.15)$	0.4450	$0.445^{+0.024}_{-0.025}$
Ω_{m}	0.3013	$0.301^{+0.023}_{-0.022}$	z_{\ast}	1089.83	$1089.8^{+1.8}_{-1.5}$	$\sigma_8(0.15)$	0.7411	$0.741^{+0.038}_{-0.037}$
$\Omega_{\mathrm{m}}h^2$	0.14014	$0.1402^{+0.0049}_{-0.0047}$	r_{\ast}	145.24	$145.2^{+1.6}_{-1.6}$	$f\sigma_8(0.38)$	0.4654	$0.465^{+0.023}_{-0.024}$
$\Omega_{\mathrm{m}}h^3$	0.09557	$0.0957^{+0.0028}_{-0.0027}$	$100\theta_{\ast}$	1.04101	$1.0411^{+0.0015}_{-0.0015}$	$\sigma_8(0.38)$	0.6581	$0.658^{+0.034}_{-0.033}$
σ_8	0.8010	$0.801^{+0.040}_{-0.039}$	$D_{\mathrm{M}}(z_{\ast})/\mathrm{Gpc}$	13.952	$13.95^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	0.4652	$0.465^{+0.022}_{-0.023}$
S_8	0.8027	$0.802^{+0.046}_{-0.046}$	z_{drag}	1059.47	$1059.5^{+3.0}_{-3.1}$	$\sigma_8(0.51)$	0.6163	$0.616^{+0.033}_{-0.031}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4396	$0.439^{+0.025}_{-0.025}$	r_{drag}	147.96	$147.9^{+2.0}_{-2.0}$	$f\sigma_8(0.61)$	0.4611	$0.461^{+0.022}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5934	$0.593^{+0.029}_{-0.030}$	k_{D}	0.13987	$0.1399^{+0.0029}_{-0.0029}$	$\sigma_8(0.61)$	0.5867	$0.587^{+0.032}_{-0.030}$
$\sigma_8/h^{0.5}$	0.9699	$0.969^{+0.047}_{-0.048}$	$100\theta_{\mathrm{D}}$	0.16099	$0.1610^{+0.0020}_{-0.0017}$	$f\sigma_8(2.33)$	0.2962	$0.296^{+0.016}_{-0.016}$
$r_{\mathrm{drag}}h$	100.91	$101.0^{+3.0}_{-3.0}$	z_{eq}	3333	3334^{+120}_{-110}	$\sigma_8(2.33)$	0.3059	$0.306^{+0.017}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	2.496	$2.50^{+0.12}_{-0.12}$	k_{eq}	0.010174	$0.01018^{+0.00035}_{-0.00034}$	$\chi^2_{\mathrm{lensing}}$	21.7	23 (ν : 3.4)
z_{re}	7.732	$7.73^{+0.32}_{-0.28}$	$100\theta_{\mathrm{eq}}$	0.8254	$0.825^{+0.020}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	0.008	0.066 (ν : 0.0)
10^9A_{s}	2.136	$2.14^{+0.22}_{-0.20}$	$100\theta_{\mathrm{s,eq}}$	0.4558	$0.456^{+0.011}_{-0.010}$	χ^2_{MGS}	1.97	2.07 (ν : 0.3)
$10^9A_{\mathrm{s}}e^{-2\tau}$	1.914	$1.91^{+0.20}_{-0.18}$	$H(0.15)$	73.36	$73.4^{+1.6}_{-1.5}$	$\chi^2_{\mathrm{DR12BAO}}$	3.37	4.3 (ν : 0.8)
D_{40}	1335	1335^{+200}_{-200}	$D_{\mathrm{M}}(0.15)$	636.4	636^{+14}_{-15}	χ^2_{prior}	1.3	4.1 (ν : 4.9)
D_{220}	6040	6041^{+700}_{-600}	$H(0.38)$	83.27	$83.3^{+1.3}_{-1.2}$	χ^2_{BAO}	5.34	6.4 (ν : 1.4)
D_{810}	2567	2567^{+300}_{-300}	$D_{\mathrm{M}}(0.38)$	1520.2	1519^{+30}_{-31}			

Best-fit $\chi^2_{\mathrm{eff}} = 28.33$; $\bar{\chi}^2_{\mathrm{eff}} = 33.48$; $R - 1 = 0.01261$

χ^2_{eff} : BAO - 6DF: 0.01 MGS: 1.97 DR12BAO: 3.37 CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmarged: 21.72

2.206 base_lensing_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.259	$0.28^{+0.14}_{-0.11}$	$\Omega_{\mathrm{b}}h^2$	0.0276	$0.026^{+0.025}_{-0.017}$	S_8	0.779	$0.78^{+0.12}_{-0.13}$
Ω_{b}	0.0541	—	$\Omega_{\mathrm{c}}h^2$	0.104	$0.112^{+0.061}_{-0.045}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.427	$0.427^{+0.065}_{-0.072}$
H_0	71.5	—	Ω_{Λ}	0.741	$0.72^{+0.11}_{-0.14}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.598	$0.591^{+0.051}_{-0.051}$
10^9A_{s}	2.73	$2.47^{+1.2}_{-0.93}$	$\ln(10^{10}A_{\mathrm{s}})$	3.308	$3.19^{+0.42}_{-0.42}$	$\chi^2_{\mathrm{lensing}}$	7.4	9.6 (ν : 2.1)
n_{s}	1.037	—	σ_8	0.839	$0.82^{+0.12}_{-0.10}$			

Best-fit $\chi^2_{\mathrm{eff}} = 7.38$; $\bar{\chi}^2_{\mathrm{eff}} = 9.64$; $R - 1 = 0.01504$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.38

2.207 base_lensing_DESpriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.336	$0.302^{+0.066}_{-0.053}$	$\Omega_{\mathrm{c}}h^2$	0.120	$0.122^{+0.068}_{-0.048}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.591	$0.598^{+0.051}_{-0.050}$
Ω_{b}	0.0373	—	Ω_{Λ}	0.664	$0.698^{+0.053}_{-0.066}$	$\chi^2_{\mathrm{lensing}}$	8.2	9.9 (ν : 2.3)
H_0	63.6	—	$\ln(10^{10}A_{\mathrm{s}})$	2.925	$3.07^{+0.46}_{-0.35}$	$\chi^2_{6\mathrm{DF}}$	0.047	0.08 (ν : 0.0)
10^9A_{s}	1.86	$2.18^{+1.1}_{-0.71}$	σ_8	0.776	$0.808^{+0.070}_{-0.060}$	χ^2_{MGS}	1.16	1.87 (ν : 0.3)
n_{s}	0.870	—	S_8	0.822	$0.810^{+0.094}_{-0.087}$	$\chi^2_{\mathrm{DR12BAO}}$	2.43	4.7 (ν : 1.5)
$\Omega_{\mathrm{b}}h^2$	0.0151	$0.025^{+0.028}_{-0.016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4502	$0.443^{+0.052}_{-0.048}$	χ^2_{BAO}	3.6	6.6 (ν : 2.0)

Best-fit $\chi^2_{\mathrm{eff}} = 11.80$; $\bar{\chi}^2_{\mathrm{eff}} = 16.52$; $R - 1 = 0.00617$

χ^2_{eff} : BAO - 6DF: 0.05 MGS: 1.16 DR12BAO: 2.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 8.16

2.208 base_lensing_DESpriors_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.239	$0.30^{+0.18}_{-0.15}$	$\Omega_{\text{b}}h^2$	0.02224	$0.0222^{+0.0013}_{-0.0013}$	S_8	0.762	$0.80^{+0.14}_{-0.14}$
Ω_{b}	0.0445	—	$\Omega_{\text{c}}h^2$	0.0966	$0.108^{+0.042}_{-0.030}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.417	$0.437^{+0.078}_{-0.076}$
H_0	70.7	67^{+20}_{-10}	Ω_{Λ}	0.761	$0.70^{+0.15}_{-0.18}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.597	$0.593^{+0.052}_{-0.051}$
$10^9 A_{\text{s}}$	2.89	$2.46^{+1.1}_{-0.89}$	$\ln(10^{10} A_{\text{s}})$	3.364	$3.18^{+0.39}_{-0.44}$	χ^2_{lensing}	7.4	$9.6 (\nu: 2.1)$
n_{s}	1.036	—	σ_8	0.854	$0.81^{+0.14}_{-0.11}$	χ^2_{prior}	0.01	$1.0 (\nu: 1.1)$

Best-fit $\chi^2_{\text{eff}} = 7.37$; $\bar{\chi}^2_{\text{eff}} = 10.57$; $R - 1 = 0.00800$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.36

2.209 base_lensing_DESpriors_CookeDH_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.328	$0.306^{+0.055}_{-0.053}$	Ω_{Λ}	0.672	$0.694^{+0.053}_{-0.055}$	$\chi^2_{6\text{DF}}$	0.028	$0.070 (\nu: 0.0)$
Ω_{b}	0.0462	$0.0480^{+0.0055}_{-0.0050}$	$\ln(10^{10} A_{\text{s}})$	2.890	$3.06^{+0.40}_{-0.32}$	χ^2_{MGS}	1.28	$1.79 (\nu: 0.3)$
H_0	69.24	$68.0^{+3.8}_{-3.5}$	σ_8	0.783	$0.807^{+0.064}_{-0.056}$	χ^2_{DR12BAO}	2.67	$4.5 (\nu: 1.6)$
$10^9 A_{\text{s}}$	1.80	$2.17^{+1.0}_{-0.62}$	S_8	0.819	$0.813^{+0.091}_{-0.089}$	χ^2_{prior}	0.01	$0.99 (\nu: 1.0)$
n_{s}	0.870	—	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4487	$0.446^{+0.050}_{-0.049}$	χ^2_{BAO}	3.98	$6.4 (\nu: 1.9)$
$\Omega_{\text{b}}h^2$	0.02215	$0.0222^{+0.0013}_{-0.0013}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.593	$0.599^{+0.051}_{-0.050}$			
$\Omega_{\text{c}}h^2$	0.1345	$0.119^{+0.040}_{-0.034}$	χ^2_{lensing}	8.0	$9.8 (\nu: 2.3)$			

Best-fit $\chi^2_{\text{eff}} = 11.99$; $\bar{\chi}^2_{\text{eff}} = 17.15$; $R - 1 = 0.00446$

χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.28 DR12BAO: 2.67 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 8.00

2.210 base_plikHM_TT

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02256	$0.02242^{+0.00076}_{-0.00072}$	$\sigma_8 \Omega_m^{0.5}$	0.4799	$0.478^{+0.037}_{-0.037}$	$100\theta_{\text{eq}}$	0.8255	$0.821^{+0.030}_{-0.030}$
$\Omega_c h^2$	0.1172	$0.1182^{+0.0072}_{-0.0067}$	$\sigma_8 \Omega_m^{0.25}$	0.6495	$0.643^{+0.042}_{-0.046}$	$100\theta_{\text{s,eq}}$	0.4556	$0.454^{+0.015}_{-0.015}$
$100\theta_{\text{MC}}$	1.04130	$1.0411^{+0.0014}_{-0.0014}$	$\sigma_8/h^{0.5}$	1.061	$1.049^{+0.068}_{-0.075}$	$H(0.15)$	73.77	$73.3^{+2.8}_{-2.7}$
τ	0.147	$0.127^{+0.086}_{-0.098}$	$r_{\text{drag}} h$	101.3	$100.5^{+5.6}_{-5.5}$	$D_{\text{M}}(0.15)$	632.6	637^{+28}_{-26}
$\ln(10^{10} A_{\text{s}})$	3.222	$3.18^{+0.16}_{-0.19}$	$\langle d^2 \rangle^{1/2}$	2.618	$2.59^{+0.16}_{-0.18}$	$H(0.38)$	83.65	$83.3^{+2.1}_{-2.0}$
n_{s}	0.9756	$0.971^{+0.022}_{-0.021}$	z_{re}	15.4	$13.8^{+5.8}_{-8.8}$	$D_{\text{M}}(0.38)$	1512	1521^{+56}_{-53}
A_{217}^{CIB}	42.9	46^{+20}_{-20}	$10^9 A_{\text{s}}$	2.508	$2.42^{+0.42}_{-0.41}$	$H(0.51)$	90.23	$90.0^{+1.7}_{-1.5}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	$10^9 A_{\text{s}} e^{-2\tau}$	1.8692	$1.873^{+0.042}_{-0.041}$	$D_{\text{M}}(0.51)$	1961	1971^{+65}_{-63}
A_{143}^{tSZ}	6.81	$5.5^{+4.2}_{-4.8}$	D_{40}	1254.8	1255^{+52}_{-46}	$H(0.61)$	95.75	$95.5^{+1.4}_{-1.2}$
A_{100}^{PS}	240	254^{+70}_{-70}	D_{220}	5725	5725^{+110}_{-100}	$D_{\text{M}}(0.61)$	2283	2295^{+70}_{-68}
A_{143}^{PS}	49.8	44^{+20}_{-20}	D_{810}	2530.1	2529^{+37}_{-36}	$H(2.33)$	234.93	$235.4^{+4.2}_{-3.9}$
$A_{143 \times 217}^{\text{PS}}$	57.4	42^{+20}_{-20}	D_{1420}	816.4	814^{+13}_{-13}	$D_{\text{M}}(2.33)$	5744	5754^{+56}_{-60}
A_{217}^{PS}	123.1	115^{+20}_{-30}	D_{2000}	232.9	$231.5^{+5.5}_{-5.5}$	$f\sigma_8(0.15)$	0.4860	$0.483^{+0.036}_{-0.036}$
A^{kSZ}	0.0	—	$n_{\text{s},0.002}$	0.9756	$0.971^{+0.022}_{-0.021}$	$\sigma_8(0.15)$	0.814	$0.801^{+0.059}_{-0.064}$
A_{100}^{dustTT}	8.63	$8.7^{+4.7}_{-4.7}$	Y_{P}	0.245465	$0.24541^{+0.00033}_{-0.00033}$	$f\sigma_8(0.38)$	0.5092	$0.504^{+0.034}_{-0.036}$
A_{143}^{dustTT}	10.54	$10.5^{+4.7}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.246791	$0.24674^{+0.00033}_{-0.00033}$	$\sigma_8(0.38)$	0.723	$0.711^{+0.055}_{-0.059}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.0^{+8.4}_{-8.4}$	$10^5 \text{D}/\text{H}$	2.552	$2.58^{+0.14}_{-0.14}$	$f\sigma_8(0.51)$	0.5094	$0.504^{+0.033}_{-0.036}$
A_{217}^{dustTT}	95.9	94^{+20}_{-20}	Age/Gyr	13.755	$13.78^{+0.12}_{-0.13}$	$\sigma_8(0.51)$	0.677	$0.665^{+0.053}_{-0.057}$
c_{100}	0.99971	$0.9996^{+0.0016}_{-0.0016}$	z_*	1089.44	$1089.7^{+1.4}_{-1.4}$	$f\sigma_8(0.61)$	0.5052	$0.499^{+0.033}_{-0.036}$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	r_*	145.02	$144.9^{+1.5}_{-1.5}$	$\sigma_8(0.61)$	0.645	$0.633^{+0.051}_{-0.055}$
y_{cal}	1.0001	$1.0002^{+0.0064}_{-0.0064}$	$100\theta_*$	1.04147	$1.0413^{+0.0014}_{-0.0013}$	$f\sigma_8(2.33)$	0.3258	$0.320^{+0.027}_{-0.029}$
H_0	68.64	$68.1^{+3.2}_{-3.2}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.925	$13.91^{+0.13}_{-0.14}$	$\sigma_8(2.33)$	0.3365	$0.330^{+0.029}_{-0.031}$
Ω_{Λ}	0.7020	$0.695^{+0.039}_{-0.046}$	z_{drag}	1060.16	$1059.9^{+1.5}_{-1.4}$	f_{2000}^{143}	25.7	28^{+9}_{-9}
Ω_{m}	0.2980	$0.305^{+0.046}_{-0.039}$	r_{drag}	147.63	$147.5^{+1.4}_{-1.4}$	$f_{2000}^{143 \times 217}$	29.7	31^{+7}_{-7}
$\Omega_{\text{m}} h^2$	0.1404	$0.1412^{+0.0067}_{-0.0063}$	k_{D}	0.14044	$0.1404^{+0.0014}_{-0.0014}$	f_{2000}^{217}	104.3	$105.8^{+6.1}_{-5.9}$
$\Omega_{\text{m}} h^3$	0.09635	$0.0962^{+0.0013}_{-0.0012}$	$100\theta_{\text{D}}$	0.16065	$0.16080^{+0.00078}_{-0.00078}$	χ_{plik}^2	752.7	$767.4 (\nu: 15.2)$
σ_8	0.879	$0.866^{+0.061}_{-0.067}$	z_{eq}	3339	3360^{+160}_{-150}	χ_{prior}^2	0.98	$7.1 (\nu: 6.4)$
S_8	0.876	$0.872^{+0.068}_{-0.068}$	k_{eq}	0.010192	$0.01025^{+0.00049}_{-0.00046}$			

Best-fit $\chi_{\text{eff}}^2 = 753.73$; $\bar{\chi}_{\text{eff}}^2 = 774.46$; $R - 1 = 0.00674$
 χ_{eff}^2 : CMB - plik_rd12_HM_v22_TT: 752.75

2.211 base_plikHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02250	$0.02238^{+0.00070}_{-0.00068}$	$\sigma_8 \Omega_m^{0.25}$	0.6370	$0.630^{+0.040}_{-0.043}$	$H(0.15)$	73.68	$73.3^{+2.6}_{-2.5}$
$\Omega_c h^2$	0.1173	$0.1181^{+0.0064}_{-0.0061}$	$\sigma_8/h^{0.5}$	1.041	$1.028^{+0.064}_{-0.069}$	$D_M(0.15)$	633.5	637^{+25}_{-24}
$100\theta_{MC}$	1.04124	$1.0411^{+0.0013}_{-0.0013}$	$r_{drag} h$	101.2	$100.6^{+5.1}_{-5.0}$	$H(0.38)$	83.57	$83.3^{+1.9}_{-1.8}$
τ	0.126	$0.108^{+0.080}_{-0.085}$	$\langle d^2 \rangle^{1/2}$	2.564	$2.54^{+0.15}_{-0.17}$	$D_M(0.38)$	1514	1521^{+50}_{-49}
$\ln(10^{10} A_s)$	3.180	$3.15^{+0.15}_{-0.16}$	z_{re}	13.8	$12.3^{+5.7}_{-8.1}$	$H(0.51)$	90.16	$90.0^{+1.5}_{-1.4}$
n_s	0.9756	$0.971^{+0.020}_{-0.019}$	$10^9 A_s$	2.405	$2.33^{+0.37}_{-0.35}$	$D_M(0.51)$	1963	1971^{+59}_{-58}
y_{cal}	1.0001	$1.0003^{+0.0064}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.8693	$1.872^{+0.039}_{-0.038}$	$H(0.61)$	95.68	$95.5^{+1.3}_{-1.1}$
A_{217}^{CIB}	42.8	46^{+20}_{-20}	D_{40}	1238.9	1240^{+42}_{-41}	$D_M(0.61)$	2286	2295^{+63}_{-63}
$\xi^{tSZ \times CIB}$	0.99	—	D_{220}	5715	5718^{+110}_{-110}	$H(2.33)$	234.92	$235.3^{+3.8}_{-3.6}$
A_{143}^{tSZ}	6.86	$5.5^{+4.2}_{-4.9}$	D_{810}	2531.7	2531^{+37}_{-36}	$D_M(2.33)$	5748	5755^{+52}_{-55}
A_{100}^{PS}	240	254^{+70}_{-70}	D_{1420}	817.1	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4770	$0.473^{+0.034}_{-0.036}$
A_{143}^{PS}	50.5	44^{+20}_{-20}	D_{2000}	232.6	$231.4^{+5.4}_{-5.4}$	$\sigma_8(0.15)$	0.797	$0.785^{+0.054}_{-0.057}$
$A_{143 \times 217}^{PS}$	58.0	42^{+20}_{-20}	$n_{s,0.002}$	0.9756	$0.971^{+0.020}_{-0.019}$	$f\sigma_8(0.38)$	0.4994	$0.494^{+0.032}_{-0.034}$
A_{217}^{PS}	123.8	115^{+30}_{-30}	Y_P	0.245443	$0.24540^{+0.00030}_{-0.00031}$	$\sigma_8(0.38)$	0.708	$0.697^{+0.050}_{-0.052}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246770	$0.24672^{+0.00030}_{-0.00031}$	$f\sigma_8(0.51)$	0.4995	$0.494^{+0.031}_{-0.034}$
A_{100}^{dustTT}	8.74	$8.8^{+4.7}_{-4.7}$	$10^5 D/H$	2.563	$2.58^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	0.6634	$0.652^{+0.048}_{-0.049}$
A_{143}^{dustTT}	10.66	$10.5^{+4.6}_{-4.7}$	Age/Gyr	13.764	$13.78^{+0.12}_{-0.12}$	$f\sigma_8(0.61)$	0.4953	$0.489^{+0.031}_{-0.033}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.1^{+8.4}_{-8.6}$	z_*	1089.53	$1089.7^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.6316	$0.621^{+0.046}_{-0.048}$
A_{217}^{dustTT}	96.2	94^{+20}_{-20}	r_*	145.04	$144.9^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.3190	$0.313^{+0.024}_{-0.025}$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04141	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.3295	$0.323^{+0.026}_{-0.026}$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.927	$13.92^{+0.13}_{-0.13}$	f_{2000}^{143}	26.1	28^{+9}_{-9}
H_0	68.53	$68.1^{+3.0}_{-2.9}$	z_{drag}	1060.05	$1059.8^{+1.4}_{-1.3}$	$f_{2000}^{143 \times 217}$	30.1	31^{+6}_{-6}
Ω_Λ	0.7010	$0.696^{+0.036}_{-0.041}$	r_{drag}	147.67	$147.6^{+1.3}_{-1.4}$	f_{2000}^{217}	104.7	$106.1^{+5.8}_{-5.7}$
Ω_m	0.2990	$0.304^{+0.041}_{-0.036}$	k_D	0.14035	$0.1403^{+0.0014}_{-0.0014}$	χ_{lowl}^2	24.89	$25.0 (\nu: 1.5)$
$\Omega_m h^2$	0.1404	$0.1411^{+0.0060}_{-0.0058}$	$100\theta_D$	0.16072	$0.16084^{+0.00077}_{-0.00074}$	χ_{plik}^2	753.5	$768.0 (\nu: 16.1)$
$\Omega_m h^3$	0.09623	$0.0961^{+0.0012}_{-0.0012}$	z_{eq}	3340	3356^{+140}_{-140}	χ_{prior}^2	1.1	$7.2 (\nu: 6.5)$
σ_8	0.861	$0.849^{+0.057}_{-0.060}$	k_{eq}	0.010195	$0.01024^{+0.00044}_{-0.00042}$	χ_{CMB}^2	778.4	$793.0 (\nu: 15.1)$
S_8	0.860	$0.854^{+0.065}_{-0.067}$	$100\theta_{eq}$	0.8251	$0.822^{+0.028}_{-0.027}$			
$\sigma_8 \Omega_m^{0.5}$	0.4710	$0.468^{+0.036}_{-0.037}$	$100\theta_{s,eq}$	0.4555	$0.454^{+0.014}_{-0.014}$			

Best-fit $\chi_{\text{eff}}^2 = 779.48$; $\bar{\chi}_{\text{eff}}^2 = 800.20$; $R - 1 = 0.00744$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 24.89 plik_rd12_HM_v22_TT: 753.54

2.212 base_plikHM_TT_lowl_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02243	$0.02237^{+0.00055}_{-0.00055}$	$\sigma_8/h^{0.5}$	1.036	$1.028^{+0.065}_{-0.071}$	$H(0.38)$	83.37	$83.3^{+1.0}_{-0.98}$
$\Omega_c h^2$	0.11792	$0.1182^{+0.0033}_{-0.0033}$	$r_{\text{drag}} h$	100.68	$100.5^{+2.7}_{-2.6}$	$D_M(0.38)$	1519.1	1522^{+26}_{-26}
$100\theta_{\text{MC}}$	1.04117	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.554	$2.54^{+0.15}_{-0.17}$	$H(0.51)$	90.00	$89.91^{+0.85}_{-0.81}$
τ	0.116	$0.107^{+0.065}_{-0.076}$	z_{re}	13.1	$12.3^{+4.8}_{-7.2}$	$D_M(0.51)$	1969.2	1972^{+31}_{-31}
$\ln(10^{10} A_s)$	3.163	$3.14^{+0.13}_{-0.15}$	$10^9 A_s$	2.363	$2.32^{+0.32}_{-0.32}$	$H(0.61)$	95.55	$95.48^{+0.73}_{-0.69}$
n_s	0.9735	$0.971^{+0.013}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8728	$1.873^{+0.030}_{-0.030}$	$D_M(0.61)$	2292.5	2296^{+33}_{-34}
y_{cal}	1.0003	$1.0003^{+0.0063}_{-0.0065}$	D_{40}	1238.1	1240^{+42}_{-38}	$H(2.33)$	235.27	$235.4^{+2.1}_{-2.1}$
A_{217}^{CIB}	43.1	46^{+20}_{-20}	D_{220}	5715	5718^{+110}_{-100}	$D_M(2.33)$	5752.9	5757^{+35}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	D_{810}	2533.5	2531^{+35}_{-35}	$f\sigma_8(0.15)$	0.4767	$0.474^{+0.032}_{-0.035}$
A_{143}^{tSZ}	6.73	$5.5^{+4.5}_{-4.5}$	D_{1420}	817.0	815^{+13}_{-13}	$\sigma_8(0.15)$	0.792	$0.784^{+0.051}_{-0.056}$
A_{100}^{PS}	242	254^{+70}_{-70}	D_{2000}	232.25	$231.3^{+4.8}_{-4.9}$	$f\sigma_8(0.38)$	0.4981	$0.494^{+0.032}_{-0.035}$
A_{143}^{PS}	52.4	45^{+20}_{-20}	$n_{\text{s},0.002}$	0.9735	$0.971^{+0.013}_{-0.012}$	$\sigma_8(0.38)$	0.7029	$0.696^{+0.045}_{-0.049}$
$A_{143 \times 217}^{\text{PS}}$	59.3	42^{+20}_{-20}	Y_{P}	0.245419	$0.24539^{+0.00022}_{-0.00024}$	$f\sigma_8(0.51)$	0.4977	$0.494^{+0.032}_{-0.034}$
A_{217}^{PS}	124.6	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	0.246745	$0.24672^{+0.00022}_{-0.00024}$	$\sigma_8(0.51)$	0.6582	$0.652^{+0.043}_{-0.046}$
A^{kSZ}	0.0	—	$10^5 \text{D}/\text{H}$	2.575	$2.59^{+0.10}_{-0.10}$	$f\sigma_8(0.61)$	0.4931	$0.489^{+0.031}_{-0.034}$
A_{100}^{dustTT}	8.74	$8.8^{+4.6}_{-4.6}$	Age/Gyr	13.775	$13.784^{+0.079}_{-0.079}$	$\sigma_8(0.61)$	0.6265	$0.620^{+0.041}_{-0.044}$
A_{143}^{dustTT}	10.65	$10.5^{+4.6}_{-4.7}$	z_*	1089.66	$1089.76^{+0.84}_{-0.84}$	$f\sigma_8(2.33)$	0.3163	$0.313^{+0.021}_{-0.023}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.1^{+8.4}_{-8.6}$	r_*	144.92	$144.91^{+0.82}_{-0.82}$	$\sigma_8(2.33)$	0.3265	$0.323^{+0.022}_{-0.024}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	$100\theta_*$	1.04135	$1.0413^{+0.0011}_{-0.0011}$	f_{2000}^{143}	26.8	28^{+8}_{-8}
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.917	$13.916^{+0.080}_{-0.078}$	$f_{2000}^{143 \times 217}$	30.7	31^{+6}_{-6}
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.93	$1059.8^{+1.2}_{-1.2}$	f_{2000}^{217}	105.2	$106.2^{+5.5}_{-5.3}$
H_0	68.22	$68.1^{+1.6}_{-1.5}$	r_{drag}	147.58	$147.58^{+0.91}_{-0.87}$	χ_{lowl}^2	24.68	$24.9 (\nu: 1.4)$
Ω_Λ	0.6970	$0.695^{+0.019}_{-0.021}$	k_{D}	0.14040	$0.1404^{+0.0011}_{-0.0012}$	χ_{plik}^2	753.8	$767.3 (\nu: 15.1)$
Ω_{m}	0.3030	$0.305^{+0.021}_{-0.019}$	$100\theta_{\text{D}}$	0.16078	$0.16085^{+0.00070}_{-0.00069}$	$\chi_{6\text{DF}}^2$	0.002	$0.043 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14100	$0.1412^{+0.0032}_{-0.0032}$	z_{eq}	3354	3359^{+77}_{-76}	χ_{MGS}^2	1.82	$1.75 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	0.09619	$0.0961^{+0.0012}_{-0.0012}$	k_{eq}	0.010237	$0.01025^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	3.40	$4.2 (\nu: 0.6)$
σ_8	0.856	$0.848^{+0.055}_{-0.059}$	$100\theta_{\text{eq}}$	0.8224	$0.821^{+0.015}_{-0.014}$	χ_{prior}^2	1.0	$7.2 (\nu: 6.5)$
S_8	0.860	$0.855^{+0.058}_{-0.063}$	$100\theta_{\text{s,eq}}$	0.4541	$0.4536^{+0.0075}_{-0.0073}$	χ_{BAO}^2	5.22	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4711	$0.468^{+0.032}_{-0.034}$	$H(0.15)$	73.41	$73.3^{+1.4}_{-1.3}$	χ_{CMB}^2	778.5	$792.3 (\nu: 13.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6350	$0.630^{+0.041}_{-0.044}$	$D_M(0.15)$	636.1	637^{+13}_{-13}			

Best-fit $\chi_{\text{eff}}^2 = 784.78$; $\bar{\chi}_{\text{eff}}^2 = 805.42$; $R - 1 = 0.01210$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.40 CMB - commander_dx12_v3.2.29: 24.68 plik_rd12_HM_v22_TT: 753.84

2.213 base_plikHM_TT_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00069}_{-0.00066}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.631^{+0.040}_{-0.039}$	$H(0.15)$	$73.4^{+2.5}_{-2.4}$
$\Omega_{\mathrm{c}}h^2$	$0.1180^{+0.0062}_{-0.0061}$	$\sigma_8/h^{0.5}$	$1.029^{+0.063}_{-0.061}$	$D_{\mathrm{M}}(0.15)$	637^{+24}_{-24}
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}}h$	$100.6^{+5.1}_{-4.9}$	$H(0.38)$	$83.3^{+1.9}_{-1.7}$
τ	$0.110^{+0.075}_{-0.069}$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.15}_{-0.15}$	$D_{\mathrm{M}}(0.38)$	1520^{+48}_{-49}
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.15}_{-0.12}$	z_{re}	< 17.5	$H(0.51)$	$90.0^{+1.5}_{-1.4}$
n_{s}	$0.972^{+0.020}_{-0.019}$	$10^9 A_{\mathrm{s}}$	$2.34^{+0.35}_{-0.30}$	$D_{\mathrm{M}}(0.51)$	1971^{+57}_{-57}
y_{cal}	$1.0003^{+0.0064}_{-0.0065}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.872^{+0.038}_{-0.038}$	$H(0.61)$	$95.5^{+1.3}_{-1.1}$
A_{217}^{CIB}	46^{+20}_{-20}	D_{40}	1240^{+42}_{-41}	$D_{\mathrm{M}}(0.61)$	2294^{+61}_{-62}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5718^{+110}_{-110}	$H(2.33)$	$235.3^{+3.7}_{-3.6}$
A_{143}^{tSZ}	$5.5^{+4.2}_{-4.9}$	D_{810}	2531^{+36}_{-37}	$D_{\mathrm{M}}(2.33)$	5755^{+50}_{-55}
A_{100}^{PS}	254^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.15)$	$0.474^{+0.034}_{-0.035}$
A_{143}^{PS}	44^{+20}_{-20}	D_{2000}	$231.4^{+5.4}_{-5.3}$	$\sigma_8(0.15)$	$0.786^{+0.053}_{-0.046}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.972^{+0.020}_{-0.019}$	$f\sigma_8(0.38)$	$0.495^{+0.031}_{-0.032}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24540^{+0.00029}_{-0.00030}$	$\sigma_8(0.38)$	$0.698^{+0.049}_{-0.041}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00029}_{-0.00030}$	$f\sigma_8(0.51)$	$0.494^{+0.031}_{-0.030}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.8}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.13}_{-0.12}$	$\sigma_8(0.51)$	$0.653^{+0.047}_{-0.039}$
$A_{143}^{\mathrm{dustTT}}$	$10.5^{+4.6}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.78^{+0.11}_{-0.12}$	$f\sigma_8(0.61)$	$0.490^{+0.030}_{-0.029}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.0^{+8.4}_{-8.6}$	z_{*}	$1089.7^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	$0.622^{+0.045}_{-0.038}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	r_{*}	$144.9^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	$0.314^{+0.023}_{-0.021}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{*}$	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	$0.324^{+0.025}_{-0.022}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.92^{+0.13}_{-0.13}$	f_{2000}^{143}	28^{+9}_{-9}
H_0	$68.2^{+2.9}_{-2.8}$	z_{drag}	$1059.8^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	31^{+6}_{-6}
Ω_{Λ}	$0.696^{+0.036}_{-0.039}$	r_{drag}	$147.6^{+1.3}_{-1.3}$	f_{2000}^{217}	$106.0^{+5.6}_{-5.7}$
Ω_{m}	$0.304^{+0.039}_{-0.036}$	k_{D}	$0.1403^{+0.0014}_{-0.0014}$	χ_{lowl}^2	$25.0 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1410^{+0.0059}_{-0.0057}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00075}_{-0.00073}$	χ_{plik}^2	$767.9 (\nu: 15.7)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0012}_{-0.0012}$	z_{eq}	3355^{+140}_{-140}	χ_{prior}^2	$7.2 (\nu: 6.5)$
σ_8	$0.850^{+0.056}_{-0.049}$	k_{eq}	$0.01024^{+0.00043}_{-0.00042}$	χ_{CMB}^2	$792.9 (\nu: 14.8)$
S_8	$0.855^{+0.065}_{-0.065}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.027}_{-0.026}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.468^{+0.036}_{-0.036}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.454^{+0.014}_{-0.014}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 800.08; R - 1 = 0.00767$

2.214 base_plikHM_TT_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00055}_{-0.00055}$	$\sigma_8/h^{0.5}$	$1.029^{+0.064}_{-0.059}$	$H(0.38)$	$83.3^{+1.0}_{-0.97}$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0033}_{-0.0033}$	$r_{\mathrm{drag}} h$	$100.5^{+2.7}_{-2.6}$	$D_{\mathrm{M}}(0.38)$	1522^{+26}_{-26}
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.15}_{-0.14}$	$H(0.51)$	$89.92^{+0.85}_{-0.81}$
τ	$0.108^{+0.064}_{-0.061}$	z_{re}	$12.4^{+4.7}_{-5.5}$	$D_{\mathrm{M}}(0.51)$	1972^{+30}_{-31}
$\ln(10^{10} A_{\mathrm{s}})$	$3.15^{+0.13}_{-0.12}$	$10^9 A_{\mathrm{s}}$	$2.33^{+0.31}_{-0.27}$	$H(0.61)$	$95.48^{+0.73}_{-0.69}$
n_{s}	$0.971^{+0.013}_{-0.012}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.873^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(0.61)$	2296^{+33}_{-34}
y_{cal}	$1.0003^{+0.0063}_{-0.0065}$	D_{40}	1240^{+42}_{-37}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
A_{217}^{CIB}	46^{+20}_{-20}	D_{220}	5718^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5756^{+35}_{-35}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2531^{+34}_{-35}	$f\sigma_8(0.15)$	$0.474^{+0.031}_{-0.029}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.5}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.785^{+0.050}_{-0.046}$
A_{100}^{PS}	254^{+70}_{-70}	D_{2000}	$231.3^{+4.7}_{-5.0}$	$f\sigma_8(0.38)$	$0.495^{+0.032}_{-0.029}$
A_{143}^{PS}	45^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.971^{+0.013}_{-0.012}$	$\sigma_8(0.38)$	$0.697^{+0.045}_{-0.041}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24539^{+0.00022}_{-0.00024}$	$f\sigma_8(0.51)$	$0.494^{+0.031}_{-0.029}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00022}_{-0.00024}$	$\sigma_8(0.51)$	$0.652^{+0.042}_{-0.039}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.10}_{-0.099}$	$f\sigma_8(0.61)$	$0.490^{+0.031}_{-0.028}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.6}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.783^{+0.079}_{-0.079}$	$\sigma_8(0.61)$	$0.621^{+0.040}_{-0.037}$
$A_{143}^{\mathrm{dustTT}}$	$10.5^{+4.6}_{-4.7}$	z_*	$1089.76^{+0.83}_{-0.83}$	$f\sigma_8(2.33)$	$0.313^{+0.021}_{-0.019}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.1^{+8.4}_{-8.6}$	r_*	$144.91^{+0.83}_{-0.82}$	$\sigma_8(2.33)$	$0.323^{+0.022}_{-0.020}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011}$	f_{2000}^{143}	28^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.080}_{-0.078}$	$f_{2000}^{143 \times 217}$	31^{+6}_{-6}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	$1059.8^{+1.2}_{-1.2}$	f_{2000}^{217}	$106.2^{+5.4}_{-5.2}$
H_0	$68.1^{+1.5}_{-1.5}$	r_{drag}	$147.58^{+0.91}_{-0.87}$	χ_{lowl}^2	$25.0 (\nu: 1.4)$
Ω_{Λ}	$0.695^{+0.019}_{-0.020}$	k_{D}	$0.1404^{+0.0011}_{-0.0012}$	χ_{plik}^2	$767.2 (\nu: 14.7)$
Ω_{m}	$0.305^{+0.020}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00071}_{-0.00069}$	$\chi_{6\mathrm{DF}}^2$	$0.043 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0032}_{-0.0032}$	z_{eq}	3358^{+77}_{-76}	χ_{MGS}^2	$1.76 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0012}_{-0.0012}$	k_{eq}	$0.01025^{+0.00023}_{-0.00023}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.2 (\nu: 0.6)$
σ_8	$0.849^{+0.054}_{-0.050}$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.015}_{-0.014}$	χ_{prior}^2	$7.2 (\nu: 6.5)$
S_8	$0.856^{+0.058}_{-0.054}$	$100\theta_{\mathrm{s,eq}}$	$0.4536^{+0.0075}_{-0.0073}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.032}_{-0.030}$	$H(0.15)$	$73.3^{+1.4}_{-1.3}$	χ_{CMB}^2	$792.2 (\nu: 13.6)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.631^{+0.040}_{-0.037}$	$D_{\mathrm{M}}(0.15)$	637^{+13}_{-13}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 805.33; R - 1 = 0.01264$$

2.215 base_plikHM_TT_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02207	$0.02205^{+0.00056}_{-0.00055}$	$\sigma_8 \Omega_m^{0.25}$	0.6170	$0.617^{+0.031}_{-0.030}$	$H(0.15)$	71.88	$71.8^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.1217	$0.1218^{+0.0058}_{-0.0055}$	$\sigma_8/h^{0.5}$	1.0009	$1.001^{+0.042}_{-0.041}$	$D_M(0.15)$	651.4	652^{+22}_{-21}
$100\theta_{MC}$	1.04068	$1.0406^{+0.0012}_{-0.0012}$	$r_{drag} h$	97.64	$97.6^{+4.2}_{-4.2}$	$H(0.38)$	82.26	$82.2^{+1.5}_{-1.4}$
τ	0.0520	$0.051^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.474	$2.48^{+0.10}_{-0.097}$	$D_M(0.38)$	1549.8	1551^{+42}_{-41}
$\ln(10^{10} A_s)$	3.0431	$3.042^{+0.044}_{-0.044}$	z_{re}	7.54	$7.5^{+2.1}_{-2.4}$	$H(0.51)$	89.13	$89.1^{+1.2}_{-1.1}$
n_s	0.9600	$0.959^{+0.015}_{-0.016}$	$10^9 A_s$	2.097	$2.096^{+0.094}_{-0.090}$	$D_M(0.51)$	2005.2	2007^{+49}_{-48}
y_{cal}	1.0002	$1.0004^{+0.0065}_{-0.0067}$	$10^9 A_s e^{-2\tau}$	1.8898	$1.891^{+0.037}_{-0.036}$	$H(0.61)$	94.86	$94.84^{+0.94}_{-0.85}$
A_{217}^{CIB}	49.7	48^{+20}_{-20}	D_{40}	1239.9	1243^{+41}_{-40}	$D_M(0.61)$	2331	2333^{+52}_{-52}
$\xi^{tSZ \times CIB}$	0.22	—	D_{220}	5713	5718^{+110}_{-110}	$H(2.33)$	237.38	$237.4^{+3.5}_{-3.4}$
A_{143}^{tSZ}	7.0	—	D_{810}	2538.0	2537^{+36}_{-36}	$D_M(2.33)$	5783.3	5785^{+41}_{-42}
A_{100}^{PS}	257	266^{+70}_{-70}	D_{1420}	814.2	813^{+13}_{-14}	$f\sigma_8(0.15)$	0.4700	$0.470^{+0.033}_{-0.032}$
A_{143}^{PS}	49.6	50^{+20}_{-20}	D_{2000}	229.46	$229.1^{+4.8}_{-4.9}$	$\sigma_8(0.15)$	0.7523	$0.752^{+0.020}_{-0.019}$
$A_{143 \times 217}^{PS}$	45.1	44^{+20}_{-20}	$n_{s,0.002}$	0.9600	$0.959^{+0.015}_{-0.016}$	$f\sigma_8(0.38)$	0.4848	$0.485^{+0.025}_{-0.025}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	Y_P	0.245272	$0.24525^{+0.00023}_{-0.00026}$	$\sigma_8(0.38)$	0.6651	$0.665^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246598	$0.24658^{+0.00023}_{-0.00026}$	$f\sigma_8(0.51)$	0.4816	$0.482^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.79	$8.8^{+4.6}_{-4.8}$	$10^5 D/H$	2.642	$2.65^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6218	$0.621^{+0.015}_{-0.014}$
A_{143}^{dustTT}	10.79	$10.7^{+4.6}_{-4.7}$	Age/Gyr	13.842	$13.845^{+0.093}_{-0.094}$	$f\sigma_8(0.61)$	0.4753	$0.475^{+0.019}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.4}_{-8.6}$	z_*	1090.45	$1090.5^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.014}_{-0.013}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	r_*	144.22	$144.2^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	0.2975	$0.2972^{+0.0069}_{-0.0066}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04089	$1.0409^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3060	$0.3057^{+0.0073}_{-0.0070}$
c_{217}	0.99828	$0.9983^{+0.0016}_{-0.0017}$	$D_M(z_*)/\text{Gpc}$	13.855	$13.85^{+0.12}_{-0.11}$	f_{2000}^{143}	31.2	32^{+8}_{-8}
H_0	66.43	$66.4^{+2.4}_{-2.4}$	z_{drag}	1059.36	$1059.3^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	33.8	34^{+5}_{-5}
Ω_Λ	0.6727	$0.672^{+0.033}_{-0.038}$	r_{drag}	146.97	$147.0^{+1.3}_{-1.2}$	f_{2000}^{217}	108.16	$108.6^{+4.9}_{-4.8}$
Ω_m	0.3273	$0.328^{+0.038}_{-0.033}$	k_D	0.14076	$0.1407^{+0.0013}_{-0.0014}$	χ_{simall}^2	395.90	$397.0 (\nu: 1.5)$
$\Omega_m h^2$	0.1444	$0.1445^{+0.0055}_{-0.0052}$	$100\theta_D$	0.16109	$0.16112^{+0.00070}_{-0.00067}$	χ_{plik}^2	758.3	$771.1 (\nu: 14.3)$
$\Omega_m h^3$	0.09595	$0.0959^{+0.0012}_{-0.0012}$	z_{eq}	3436	3438^{+130}_{-120}	χ_{prior}^2	1.4	$7.3 (\nu: 6.9)$
σ_8	0.8158	$0.815^{+0.023}_{-0.023}$	k_{eq}	0.010487	$0.01049^{+0.00040}_{-0.00038}$	χ_{CMB}^2	1154.2	$1168.0 (\nu: 15.2)$
S_8	0.852	$0.853^{+0.066}_{-0.062}$	$100\theta_{eq}$	0.8063	$0.806^{+0.023}_{-0.023}$			
$\sigma_8 \Omega_m^{0.5}$	0.4667	$0.467^{+0.036}_{-0.034}$	$100\theta_{s,eq}$	0.4459	$0.446^{+0.012}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 1155.55$; $\bar{\chi}_{\text{eff}}^2 = 1175.37$; $R - 1 = 0.00555$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.90 plik_rd12_HM_v22_TT: 758.28

2.216 base_plikHM_TTTEEE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022555	$0.02253^{+0.00042}_{-0.00045}$	$\Omega_m h^2$	0.14173	$0.1418^{+0.0039}_{-0.0038}$	z_{eq}	3372	3373^{+94}_{-91}
$\Omega_c h^2$	0.11853	$0.1186^{+0.0043}_{-0.0041}$	$\Omega_m h^3$	0.09649	$0.09646^{+0.00076}_{-0.00074}$	k_{eq}	0.010290	$0.01030^{+0.00029}_{-0.00028}$
$100\theta_{\text{MC}}$	1.04109	$1.04108^{+0.00082}_{-0.00084}$	σ_8	0.8637	$0.860^{+0.049}_{-0.050}$	$100\theta_{\text{eq}}$	0.8195	$0.819^{+0.018}_{-0.018}$
τ	0.123	$0.120^{+0.064}_{-0.069}$	S_8	0.8720	$0.870^{+0.050}_{-0.049}$	$100\theta_{\text{s,eq}}$	0.4525	$0.4523^{+0.0091}_{-0.0091}$
$\ln(10^{10} A_s)$	3.179	$3.17^{+0.12}_{-0.13}$	$\sigma_8 \Omega_m^{0.5}$	0.4776	$0.476^{+0.027}_{-0.027}$	$H(0.15)$	73.30	$73.3^{+1.6}_{-1.6}$
n_s	0.9715	$0.970^{+0.014}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	0.6423	$0.640^{+0.034}_{-0.034}$	$D_M(0.15)$	637.2	638^{+16}_{-16}
A_{217}^{CIB}	42.8	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	1.047	$1.043^{+0.056}_{-0.056}$	$H(0.38)$	83.33	$83.3^{+1.2}_{-1.2}$
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	$r_{\text{drag}} h$	100.26	$100.2^{+3.3}_{-3.2}$	$D_M(0.38)$	1521.1	1522^{+33}_{-31}
A_{143}^{tSZ}	6.83	> 1.26	$\langle d^2 \rangle^{1/2}$	2.585	$2.58^{+0.13}_{-0.13}$	$H(0.51)$	89.99	$89.97^{+0.95}_{-0.93}$
A_{100}^{PS}	241	251^{+70}_{-70}	z_{re}	13.7	$13.3^{+4.5}_{-5.9}$	$D_M(0.51)$	1971.3	1972^{+38}_{-37}
A_{143}^{PS}	50.2	43^{+20}_{-20}	$10^9 A_s$	2.402	$2.39^{+0.31}_{-0.30}$	$H(0.61)$	95.58	$95.55^{+0.76}_{-0.74}$
$A_{143 \times 217}^{\text{PS}}$	57.9	42^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8762	$1.876^{+0.032}_{-0.033}$	$D_M(0.61)$	2294.6	2296^{+41}_{-40}
A_{217}^{PS}	124.0	116^{+30}_{-30}	D_{40}	1249.1	1252^{+40}_{-37}	$H(2.33)$	235.79	$235.8^{+2.5}_{-2.4}$
A^{kSZ}	0.00	< 8.80	D_{220}	5733	5737^{+98}_{-99}	$D_M(2.33)$	5750.2	5751^{+33}_{-33}
A_{100}^{dustTT}	8.56	$8.7^{+4.8}_{-4.7}$	D_{810}	2533.8	2532^{+35}_{-37}	$f\sigma_8(0.15)$	0.4830	$0.482^{+0.027}_{-0.026}$
A_{143}^{dustTT}	10.70	$10.5^{+4.6}_{-4.7}$	D_{1420}	817.0	816^{+12}_{-12}	$\sigma_8(0.15)$	0.7987	$0.796^{+0.046}_{-0.047}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.1^{+8.4}_{-8.4}$	D_{2000}	232.62	$232.0^{+4.2}_{-4.4}$	$f\sigma_8(0.38)$	0.5039	$0.502^{+0.027}_{-0.026}$
A_{217}^{dustTT}	95.3	93^{+20}_{-20}	$n_{\text{s},0.002}$	0.9715	$0.970^{+0.014}_{-0.014}$	$\sigma_8(0.38)$	0.7087	$0.706^{+0.042}_{-0.043}$
A_{100}^{dustTE}	0.112	$0.113^{+0.098}_{-0.094}$	Y_{P}	0.245464	$0.24546^{+0.00017}_{-0.00018}$	$f\sigma_8(0.51)$	0.5031	$0.501^{+0.027}_{-0.027}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.076}$	$Y_{\text{P}}^{\text{BBN}}$	0.246791	$0.24678^{+0.00017}_{-0.00018}$	$\sigma_8(0.51)$	0.6635	$0.661^{+0.040}_{-0.041}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	$10^5 D/H$	2.552	$2.557^{+0.084}_{-0.076}$	$f\sigma_8(0.61)$	0.4983	$0.497^{+0.027}_{-0.027}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.13}$	Age/Gyr	13.768	$13.771^{+0.074}_{-0.072}$	$\sigma_8(0.61)$	0.6315	$0.629^{+0.038}_{-0.039}$
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.21}$	z_*	1089.56	$1089.60^{+0.87}_{-0.81}$	$f\sigma_8(2.33)$	0.3187	$0.317^{+0.020}_{-0.020}$
A_{217}^{dustTE}	2.07	$2.06^{+0.70}_{-0.69}$	r_*	144.67	$144.66^{+0.88}_{-0.87}$	$\sigma_8(2.33)$	0.3288	$0.327^{+0.021}_{-0.022}$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04125	$1.04124^{+0.00081}_{-0.00082}$	f_{2000}^{143}	25.9	27^{+8}_{-8}
c_{217}	0.99812	$0.9981^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.894	$13.893^{+0.081}_{-0.081}$	$f_{2000}^{143 \times 217}$	29.9	30^{+5}_{-5}
y_{cal}	0.99995	$1.0001^{+0.0064}_{-0.0067}$	z_{drag}	1060.28	$1060.21^{+0.79}_{-0.85}$	f_{2000}^{217}	104.56	$105.3^{+5.1}_{-4.9}$
H_0	68.08	$68.0^{+1.9}_{-1.9}$	r_{drag}	147.27	$147.28^{+0.85}_{-0.83}$	χ_{plik}^2	2337.1	$2353.9 (\nu: 16.5)$
Ω_Λ	0.6942	$0.693^{+0.024}_{-0.026}$	k_{D}	0.14081	$0.14079^{+0.00082}_{-0.00085}$	χ_{prior}^2	1.3	$11.2 (\nu: 9.5)$
Ω_m	0.3058	$0.307^{+0.026}_{-0.024}$	$100\theta_{\text{D}}$	0.160577	$0.16061^{+0.00049}_{-0.00045}$			

Best-fit $\chi_{\text{eff}}^2 = 2338.36$; $\bar{\chi}_{\text{eff}}^2 = 2365.14$; $R - 1 = 0.00675$
 χ_{eff}^2 : CMB - plik_rd12_HM_v22b_TTTEEE: 2337.05

2.217 base_plikHM_TTTEEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022555	$0.02251^{+0.00041}_{-0.00042}$	$\Omega_m h^3$	0.09646	$0.09641^{+0.00073}_{-0.00078}$	$100\theta_{\text{eq}}$	0.8205	$0.820^{+0.017}_{-0.017}$
$\Omega_c h^2$	0.11829	$0.1185^{+0.0040}_{-0.0039}$	σ_8	0.8551	$0.848^{+0.047}_{-0.049}$	$100\theta_{\text{s,eq}}$	0.4530	$0.4526^{+0.0086}_{-0.0087}$
$100\theta_{\text{MC}}$	1.04110	$1.04108^{+0.00083}_{-0.00085}$	S_8	0.8614	$0.857^{+0.048}_{-0.050}$	$H(0.15)$	73.38	$73.3^{+1.5}_{-1.6}$
τ	0.114	$0.106^{+0.063}_{-0.067}$	$\sigma_8 \Omega_m^{0.5}$	0.4718	$0.469^{+0.026}_{-0.027}$	$D_{\text{M}}(0.15)$	636.4	637^{+16}_{-15}
$\ln(10^{10} A_s)$	3.160	$3.14^{+0.12}_{-0.13}$	$\sigma_8 \Omega_m^{0.25}$	0.6352	$0.631^{+0.033}_{-0.035}$	$H(0.38)$	83.38	$83.3^{+1.1}_{-1.1}$
n_s	0.9730	$0.971^{+0.014}_{-0.013}$	$\sigma_8/h^{0.5}$	1.036	$1.028^{+0.053}_{-0.056}$	$D_{\text{M}}(0.38)$	1519.6	1522^{+31}_{-30}
y_{cal}	1.0002	$1.0003^{+0.0063}_{-0.0063}$	$r_{\text{drag}} h$	100.44	$100.3^{+3.1}_{-3.1}$	$H(0.51)$	90.03	$89.97^{+0.91}_{-0.88}$
A_{217}^{CIB}	42.5	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.554	$2.54^{+0.12}_{-0.13}$	$D_{\text{M}}(0.51)$	1969.6	1972^{+36}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	z_{re}	12.9	$12.2^{+4.6}_{-6.2}$	$H(0.61)$	95.60	$95.55^{+0.73}_{-0.69}$
A_{143}^{tSZ}	6.85	> 1.25	$10^9 A_s$	2.356	$2.32^{+0.29}_{-0.28}$	$D_{\text{M}}(0.61)$	2292.8	2295^{+39}_{-38}
A_{100}^{PS}	239	251^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8754	$1.875^{+0.031}_{-0.030}$	$H(2.33)$	235.64	$235.7^{+2.4}_{-2.3}$
A_{143}^{PS}	49.7	43^{+20}_{-20}	D_{40}	1239.7	1241^{+36}_{-35}	$D_{\text{M}}(2.33)$	5749.3	5752^{+31}_{-32}
$A_{143 \times 217}^{\text{PS}}$	57.7	42^{+20}_{-20}	D_{220}	5728	5731^{+100}_{-99}	$f\sigma_8(0.15)$	0.4773	$0.474^{+0.026}_{-0.027}$
A_{217}^{PS}	124.3	116^{+20}_{-30}	D_{810}	2535.6	2534^{+34}_{-34}	$\sigma_8(0.15)$	0.7909	$0.785^{+0.045}_{-0.047}$
A^{kSZ}	0.00	< 8.89	D_{1420}	818.3	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4983	$0.495^{+0.026}_{-0.027}$
A_{100}^{dustTT}	8.68	$8.8^{+4.8}_{-4.7}$	D_{2000}	232.84	$232.0^{+4.1}_{-4.3}$	$\sigma_8(0.38)$	0.7019	$0.696^{+0.041}_{-0.042}$
A_{143}^{dustTT}	10.72	$10.6^{+4.6}_{-4.5}$	$n_{\text{s},0.002}$	0.9730	$0.971^{+0.014}_{-0.013}$	$f\sigma_8(0.51)$	0.4977	$0.494^{+0.026}_{-0.027}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.2^{+8.6}_{-8.4}$	Y_{P}	0.245464	$0.24545^{+0.00016}_{-0.00017}$	$\sigma_8(0.51)$	0.6572	$0.652^{+0.039}_{-0.040}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246791	$0.24678^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	0.4930	$0.489^{+0.026}_{-0.027}$
A_{100}^{dustTE}	0.113	$0.113^{+0.098}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.552	$2.560^{+0.078}_{-0.074}$	$\sigma_8(0.61)$	0.6255	$0.620^{+0.037}_{-0.038}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.076}_{-0.074}$	Age/Gyr	13.766	$13.772^{+0.070}_{-0.070}$	$f\sigma_8(2.33)$	0.3157	$0.313^{+0.019}_{-0.020}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	z_*	1089.54	$1089.61^{+0.80}_{-0.77}$	$\sigma_8(2.33)$	0.3258	$0.323^{+0.021}_{-0.021}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	r_*	144.73	$144.71^{+0.84}_{-0.86}$	f_{2000}^{143}	25.7	27^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04127	$1.04125^{+0.00082}_{-0.00083}$	$f_{2000}^{143 \times 217}$	29.8	30^{+5}_{-5}
A_{217}^{dustTE}	2.06	$2.07^{+0.71}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.900	$13.897^{+0.078}_{-0.078}$	f_{2000}^{217}	104.53	$105.4^{+5.0}_{-4.9}$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.24	$1060.16^{+0.80}_{-0.84}$	χ_{lowl}^2	24.77	$25.0 (\nu: 1.0)$
c_{217}	0.99812	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	147.34	$147.33^{+0.82}_{-0.83}$	χ_{plik}^2	2337.6	$2354.2 (\nu: 17.3)$
H_0	68.17	$68.1^{+1.8}_{-1.8}$	k_{D}	0.14075	$0.14073^{+0.00084}_{-0.00086}$	χ_{prior}^2	1.3	$11.3 (\nu: 10.0)$
Ω_{Λ}	0.6955	$0.694^{+0.023}_{-0.025}$	$100\theta_{\text{D}}$	0.160589	$0.16064^{+0.00046}_{-0.00045}$	χ_{CMB}^2	2362.3	$2379.2 (\nu: 16.7)$
Ω_{m}	0.3045	$0.306^{+0.025}_{-0.023}$	z_{eq}	3366	3370^{+90}_{-86}			
$\Omega_{\text{m}} h^2$	0.14149	$0.1417^{+0.0038}_{-0.0036}$	k_{eq}	0.010273	$0.01029^{+0.00028}_{-0.00026}$			

Best-fit $\chi_{\text{eff}}^2 = 2363.64$; $\bar{\chi}_{\text{eff}}^2 = 2390.54$; $R - 1 = 0.00817$

χ_{eff}^2 : CMB - commander_dx12_v3.2.29: 24.77 plik_rd12_HM_v22b_TTTEEE: 2337.58

2.218 base_plikHM_TTTEEE_lowl_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022555	$0.02252^{+0.00036}_{-0.00036}$	σ_8	0.8549	$0.849^{+0.046}_{-0.049}$	$H(0.15)$	73.39	$73.3^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11828	$0.1184^{+0.0028}_{-0.0028}$	S_8	0.8611	$0.856^{+0.046}_{-0.047}$	$D_M(0.15)$	636.4	637^{+10}_{-11}
$100\theta_{MC}$	1.04110	$1.04110^{+0.00075}_{-0.00077}$	$\sigma_8 \Omega_m^{0.5}$	0.4716	$0.469^{+0.025}_{-0.026}$	$H(0.38)$	83.38	$83.34^{+0.81}_{-0.78}$
τ	0.114	$0.107^{+0.054}_{-0.062}$	$\sigma_8 \Omega_m^{0.25}$	0.6350	$0.631^{+0.033}_{-0.035}$	$D_M(0.38)$	1519.5	1521^{+21}_{-21}
$\ln(10^{10} A_s)$	3.159	$3.15^{+0.11}_{-0.12}$	$\sigma_8/h^{0.5}$	1.035	$1.029^{+0.054}_{-0.057}$	$H(0.51)$	90.03	$89.99^{+0.66}_{-0.62}$
n_s	0.9728	$0.971^{+0.011}_{-0.011}$	$r_{drag} h$	100.45	$100.4^{+2.2}_{-2.1}$	$D_M(0.51)$	1969.5	1971^{+25}_{-25}
y_{cal}	0.99998	$1.0003^{+0.0063}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	2.554	$2.54^{+0.13}_{-0.14}$	$H(0.61)$	95.60	$95.57^{+0.54}_{-0.52}$
A_{217}^{CIB}	42.4	45^{+20}_{-20}	z_{re}	12.91	$12.3^{+4.1}_{-5.6}$	$D_M(0.61)$	2292.7	2294^{+27}_{-27}
$\xi^{tSZ \times CIB}$	1.00	—	$10^9 A_s$	2.355	$2.32^{+0.26}_{-0.27}$	$H(2.33)$	235.63	$235.7^{+1.7}_{-1.7}$
A_{143}^{tSZ}	6.90	> 1.17	$10^9 A_s e^{-2\tau}$	1.8744	$1.875^{+0.029}_{-0.028}$	$D_M(2.33)$	5749.3	5751^{+25}_{-24}
A_{100}^{PS}	238	251^{+70}_{-70}	D_{40}	1239.8	1241^{+36}_{-34}	$f\sigma_8(0.15)$	0.4771	$0.474^{+0.025}_{-0.026}$
A_{143}^{PS}	50.0	43^{+20}_{-20}	D_{220}	5726	5731^{+100}_{-100}	$\sigma_8(0.15)$	0.7907	$0.785^{+0.043}_{-0.046}$
$A_{143 \times 217}^{PS}$	57.8	42^{+20}_{-20}	D_{810}	2534.3	2534^{+34}_{-34}	$f\sigma_8(0.38)$	0.4981	$0.495^{+0.026}_{-0.027}$
A_{217}^{PS}	124.3	116^{+20}_{-30}	D_{1420}	817.7	817^{+12}_{-12}	$\sigma_8(0.38)$	0.7017	$0.697^{+0.038}_{-0.041}$
A^{kSZ}	0.00	< 8.79	D_{2000}	232.67	$232.1^{+4.0}_{-4.1}$	$f\sigma_8(0.51)$	0.4975	$0.494^{+0.026}_{-0.028}$
A_{100}^{dustTT}	8.67	$8.8^{+4.7}_{-4.7}$	$n_{s,0.002}$	0.9728	$0.971^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6570	$0.652^{+0.036}_{-0.039}$
A_{143}^{dustTT}	10.75	$10.6^{+4.4}_{-4.4}$	Y_P	0.245464	$0.24545^{+0.00014}_{-0.00014}$	$f\sigma_8(0.61)$	0.4929	$0.490^{+0.026}_{-0.027}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.2^{+8.7}_{-8.5}$	Y_P^{BBN}	0.246791	$0.24678^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.6254	$0.621^{+0.034}_{-0.037}$
A_{217}^{dustTT}	95.9	94^{+20}_{-20}	$10^5 D/H$	2.552	$2.559^{+0.067}_{-0.065}$	$f\sigma_8(2.33)$	0.3156	$0.313^{+0.017}_{-0.019}$
A_{100}^{dustTE}	0.113	$0.114^{+0.097}_{-0.093}$	Age/Gyr	13.766	$13.770^{+0.055}_{-0.054}$	$\sigma_8(2.33)$	0.3257	$0.323^{+0.018}_{-0.020}$
$A_{100 \times 143}^{dustTE}$	0.133	$0.135^{+0.076}_{-0.075}$	z_*	1089.54	$1089.59^{+0.60}_{-0.60}$	f_{2000}^{143}	25.8	27^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.487	$0.48^{+0.22}_{-0.21}$	r_*	144.74	$144.73^{+0.63}_{-0.63}$	$f_{2000}^{143 \times 217}$	29.8	30^{+5}_{-5}
A_{143}^{dustTE}	0.220	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	1.04127	$1.04127^{+0.00074}_{-0.00076}$	f_{2000}^{217}	104.50	$105.4^{+4.9}_{-4.8}$
$A_{143 \times 217}^{dustTE}$	0.661	$0.66^{+0.20}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	13.900	$13.900^{+0.060}_{-0.061}$	χ_{lowl}^2	24.83	$24.9 (\nu: 1.0)$
A_{217}^{dustTE}	2.07	$2.07^{+0.71}_{-0.69}$	z_{drag}	1060.24	$1060.17^{+0.76}_{-0.77}$	χ_{plik}^2	2337.4	$2353.9 (\nu: 16.5)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.34	$147.35^{+0.64}_{-0.65}$	χ_{6DF}^2	0.000	$0.030 (\nu: 0.0)$
c_{217}	0.99813	$0.9981^{+0.0016}_{-0.0016}$	k_D	0.14074	$0.14071^{+0.00076}_{-0.00073}$	χ_{MGS}^2	1.68	$1.68 (\nu: 0.1)$
H_0	68.18	$68.1^{+1.3}_{-1.2}$	$100\theta_D$	0.160588	$0.16063^{+0.00045}_{-0.00044}$	$\chi_{DR12BAO}^2$	3.53	$4.05 (\nu: 0.4)$
Ω_Λ	0.6956	$0.695^{+0.016}_{-0.017}$	z_{eq}	3365	3367^{+62}_{-62}	χ_{prior}^2	1.4	$11.3 (\nu: 9.6)$
Ω_m	0.3044	$0.305^{+0.017}_{-0.016}$	k_{eq}	0.010272	$0.01028^{+0.00019}_{-0.00019}$	χ_{BAO}^2	5.21	$5.77 (\nu: 0.3)$
$\Omega_m h^2$	0.14148	$0.1416^{+0.0026}_{-0.0026}$	$100\theta_{eq}$	0.8206	$0.820^{+0.012}_{-0.012}$	χ_{CMB}^2	2362.3	$2378.8 (\nu: 15.8)$
$\Omega_m h^3$	0.09645	$0.09641^{+0.00074}_{-0.00078}$	$100\theta_{s,eq}$	0.4530	$0.4529^{+0.0062}_{-0.0060}$			

Best-fit $\chi_{\text{eff}}^2 = 2368.86$; $\bar{\chi}_{\text{eff}}^2 = 2395.83$; $R - 1 = 0.01077$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.53 CMB - commander_dx12_v3.2.29: 24.83 plik_rd12_HM_v22b_TTTEEE: 2337.43

2.219 base_plikHM_TTTEEE_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02252^{+0.00041}_{-0.00041}$	$\Omega_{\mathrm{m}}h^3$	$0.09641^{+0.00073}_{-0.00077}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.017}_{-0.017}$
$\Omega_{\mathrm{c}}h^2$	$0.1185^{+0.0040}_{-0.0038}$	σ_8	$0.849^{+0.047}_{-0.043}$	$100\theta_{\mathrm{s,eq}}$	$0.4526^{+0.0086}_{-0.0086}$
$100\theta_{\mathrm{MC}}$	$1.04109^{+0.00083}_{-0.00085}$	S_8	$0.857^{+0.048}_{-0.048}$	$H(0.15)$	$73.3^{+1.5}_{-1.5}$
τ	$0.106^{+0.062}_{-0.058}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.026}_{-0.026}$	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-15}
$\ln(10^{10}A_{\mathrm{s}})$	$3.14^{+0.12}_{-0.11}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.631^{+0.032}_{-0.032}$	$H(0.38)$	$83.3^{+1.1}_{-1.1}$
n_{s}	$0.971^{+0.014}_{-0.013}$	$\sigma_8/h^{0.5}$	$1.029^{+0.053}_{-0.051}$	$D_{\mathrm{M}}(0.38)$	1521^{+31}_{-30}
y_{cal}	$1.0003^{+0.0063}_{-0.0063}$	$r_{\mathrm{drag}}h$	$100.3^{+3.1}_{-3.1}$	$H(0.51)$	$89.98^{+0.91}_{-0.87}$
A_{217}^{CIB}	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.12}_{-0.12}$	$D_{\mathrm{M}}(0.51)$	1972^{+36}_{-35}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	$12.2^{+4.6}_{-5.2}$	$H(0.61)$	$95.56^{+0.73}_{-0.69}$
A_{143}^{tSZ}	> 1.25	$10^9 A_{\mathrm{s}}$	$2.32^{+0.29}_{-0.25}$	$D_{\mathrm{M}}(0.61)$	2295^{+39}_{-38}
A_{100}^{PS}	251^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.875^{+0.031}_{-0.030}$	$H(2.33)$	$235.7^{+2.3}_{-2.3}$
A_{143}^{PS}	43^{+20}_{-20}	D_{40}	1241^{+36}_{-35}	$D_{\mathrm{M}}(2.33)$	5752^{+31}_{-32}
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5731^{+100}_{-99}	$f\sigma_8(0.15)$	$0.475^{+0.026}_{-0.026}$
A_{217}^{PS}	116^{+20}_{-30}	D_{810}	2534^{+34}_{-34}	$\sigma_8(0.15)$	$0.785^{+0.044}_{-0.040}$
A^{kSZ}	< 8.89	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.38)$	$0.495^{+0.025}_{-0.025}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.8}_{-4.7}$	D_{2000}	$232.1^{+4.1}_{-4.2}$	$\sigma_8(0.38)$	$0.696^{+0.041}_{-0.037}$
$A_{143}^{\mathrm{dustTT}}$	$10.6^{+4.6}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.971^{+0.014}_{-0.013}$	$f\sigma_8(0.51)$	$0.494^{+0.025}_{-0.025}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.2^{+8.6}_{-8.4}$	Y_{P}	$0.24545^{+0.00016}_{-0.00016}$	$\sigma_8(0.51)$	$0.652^{+0.039}_{-0.035}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00017}_{-0.00016}$	$f\sigma_8(0.61)$	$0.490^{+0.025}_{-0.024}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.098}_{-0.095}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.560^{+0.076}_{-0.074}$	$\sigma_8(0.61)$	$0.621^{+0.037}_{-0.033}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.076}_{-0.074}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.771^{+0.069}_{-0.069}$	$f\sigma_8(2.33)$	$0.313^{+0.019}_{-0.017}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.61^{+0.78}_{-0.76}$	$\sigma_8(2.33)$	$0.323^{+0.020}_{-0.018}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	r_*	$144.71^{+0.84}_{-0.86}$	f_{2000}^{143}	27^{+8}_{-7}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	$1.04126^{+0.00081}_{-0.00083}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.71}_{-0.70}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.078}_{-0.078}$	f_{2000}^{217}	$105.4^{+5.0}_{-4.9}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.16^{+0.80}_{-0.80}$	χ_{lowl}^2	$25.0 (\nu: 1.0)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	$147.33^{+0.81}_{-0.82}$	χ_{plik}^2	$2354.2 (\nu: 17.0)$
H_0	$68.1^{+1.8}_{-1.8}$	k_{D}	$0.14072^{+0.00084}_{-0.00085}$	χ_{prior}^2	$11.3 (\nu: 10.0)$
Ω_{Λ}	$0.694^{+0.023}_{-0.025}$	$100\theta_{\mathrm{D}}$	$0.16063^{+0.00046}_{-0.00045}$	χ_{CMB}^2	$2379.2 (\nu: 16.5)$
Ω_{m}	$0.306^{+0.025}_{-0.023}$	z_{eq}	3370^{+89}_{-86}		
$\Omega_{\mathrm{m}}h^2$	$0.1417^{+0.0037}_{-0.0036}$	k_{eq}	$0.01028^{+0.00027}_{-0.00026}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2390.49; R - 1 = 0.00813$$

2.220 base_plikHM_TTTEEE_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02252^{+0.00036}_{-0.00036}$	σ_8	$0.849^{+0.046}_{-0.043}$	$H(0.15)$	$73.3^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1184^{+0.0028}_{-0.0028}$	S_8	$0.856^{+0.046}_{-0.046}$	$D_{\mathrm{M}}(0.15)$	637^{+10}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04110^{+0.00075}_{-0.00077}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.025}_{-0.025}$	$H(0.38)$	$83.34^{+0.81}_{-0.77}$
τ	$0.107^{+0.054}_{-0.057}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.631^{+0.032}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1521^{+21}_{-21}
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.11}_{-0.11}$	$\sigma_8/h^{0.5}$	$1.029^{+0.054}_{-0.051}$	$H(0.51)$	$90.00^{+0.66}_{-0.62}$
n_{s}	$0.971^{+0.011}_{-0.011}$	$r_{\mathrm{drag}}h$	$100.4^{+2.2}_{-2.1}$	$D_{\mathrm{M}}(0.51)$	1971^{+25}_{-25}
y_{cal}	$1.0003^{+0.0064}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.13}_{-0.12}$	$H(0.61)$	$95.57^{+0.54}_{-0.51}$
A_{217}^{CIB}	45^{+20}_{-20}	z_{re}	$12.3^{+4.1}_{-5.0}$	$D_{\mathrm{M}}(0.61)$	2294^{+27}_{-27}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.33^{+0.26}_{-0.24}$	$H(2.33)$	$235.7^{+1.7}_{-1.7}$
A_{143}^{tSZ}	> 1.17	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.029}_{-0.028}$	$D_{\mathrm{M}}(2.33)$	5751^{+24}_{-24}
A_{100}^{PS}	251^{+70}_{-70}	D_{40}	1241^{+36}_{-35}	$f\sigma_8(0.15)$	$0.474^{+0.025}_{-0.025}$
A_{143}^{PS}	43^{+20}_{-20}	D_{220}	5731^{+100}_{-100}	$\sigma_8(0.15)$	$0.785^{+0.043}_{-0.041}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2533^{+34}_{-34}	$f\sigma_8(0.38)$	$0.495^{+0.026}_{-0.025}$
A_{217}^{PS}	116^{+20}_{-30}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.697^{+0.038}_{-0.037}$
A^{kSZ}	< 8.79	D_{2000}	$232.1^{+4.0}_{-4.1}$	$f\sigma_8(0.51)$	$0.494^{+0.026}_{-0.024}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.7}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.971^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.652^{+0.036}_{-0.035}$
$A_{143}^{\mathrm{dustTT}}$	$10.6^{+4.4}_{-4.4}$	Y_{P}	$0.24545^{+0.00014}_{-0.00014}$	$f\sigma_8(0.61)$	$0.490^{+0.026}_{-0.024}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.2^{+8.7}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.621^{+0.034}_{-0.033}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.558^{+0.067}_{-0.065}$	$f\sigma_8(2.33)$	$0.313^{+0.017}_{-0.017}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.097}_{-0.093}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.055}_{-0.054}$	$\sigma_8(2.33)$	$0.323^{+0.018}_{-0.018}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.076}_{-0.075}$	z_*	$1089.59^{+0.60}_{-0.60}$	f_{2000}^{143}	27^{+7}_{-7}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.21}$	r_*	$144.73^{+0.62}_{-0.63}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.04127^{+0.00074}_{-0.00076}$	f_{2000}^{217}	$105.4^{+4.9}_{-4.8}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.059}_{-0.060}$	χ_{lowl}^2	$24.9 (\nu: 1.0)$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.71}_{-0.69}$	z_{drag}	$1060.17^{+0.76}_{-0.77}$	χ_{plik}^2	$2353.8 (\nu: 16.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.35^{+0.64}_{-0.65}$	$\chi_{6\mathrm{DF}}^2$	$0.030 (\nu: 0.0)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	k_{D}	$0.14071^{+0.00076}_{-0.00073}$	χ_{MGS}^2	$1.69 (\nu: 0.1)$
H_0	$68.1^{+1.3}_{-1.2}$	$100\theta_{\mathrm{D}}$	$0.16063^{+0.00045}_{-0.00044}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.05 (\nu: 0.4)$
Ω_{Λ}	$0.695^{+0.016}_{-0.017}$	z_{eq}	3367^{+62}_{-62}	χ_{prior}^2	$11.3 (\nu: 9.6)$
Ω_{m}	$0.305^{+0.017}_{-0.016}$	k_{eq}	$0.01028^{+0.00019}_{-0.00019}$	χ_{BAO}^2	$5.77 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1416^{+0.0026}_{-0.0026}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.012}_{-0.012}$	χ_{CMB}^2	$2378.8 (\nu: 15.6)$
$\Omega_{\mathrm{m}}h^3$	$0.09641^{+0.00073}_{-0.00078}$	$100\theta_{\mathrm{s,eq}}$	$0.4529^{+0.0062}_{-0.0060}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2395.80; R - 1 = 0.01085$$

2.221 base_plikHM_TTTEEE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022348	$0.02233^{+0.00039}_{-0.00038}$	$\Omega_m h^3$	0.09636	$0.09634^{+0.00076}_{-0.00074}$	$100\theta_{\text{eq}}$	0.8107	$0.811^{+0.016}_{-0.015}$
$\Omega_c h^2$	0.12060	$0.1207^{+0.0036}_{-0.0036}$	σ_8	0.8136	$0.814^{+0.020}_{-0.019}$	$100\theta_{\text{s,eq}}$	0.4481	$0.4480^{+0.0080}_{-0.0076}$
$100\theta_{\text{MC}}$	1.04086	$1.04086^{+0.00081}_{-0.00079}$	S_8	0.8387	$0.840^{+0.042}_{-0.042}$	$H(0.15)$	72.47	$72.4^{+1.4}_{-1.3}$
τ	0.0540	$0.055^{+0.022}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4594	$0.460^{+0.023}_{-0.023}$	$D_{\text{M}}(0.15)$	645.5	646^{+13}_{-14}
$\ln(10^{10} A_s)$	3.0460	$3.047^{+0.045}_{-0.041}$	$\sigma_8 \Omega_m^{0.25}$	0.6113	$0.612^{+0.022}_{-0.022}$	$H(0.38)$	82.72	$82.7^{+1.0}_{-0.91}$
n_s	0.9638	$0.963^{+0.012}_{-0.012}$	$\sigma_8/h^{0.5}$	0.9931	$0.994^{+0.031}_{-0.031}$	$D_{\text{M}}(0.38)$	1537.7	1538^{+26}_{-27}
y_{cal}	1.0008	$1.0006^{+0.0063}_{-0.0064}$	$r_{\text{drag}} h$	98.62	$98.6^{+2.8}_{-2.7}$	$H(0.51)$	89.52	$89.50^{+0.79}_{-0.72}$
A_{217}^{CIB}	47.5	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.456	$2.460^{+0.075}_{-0.076}$	$D_{\text{M}}(0.51)$	1990.8	1992^{+30}_{-32}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.43	—	z_{re}	7.66	$7.7^{+2.1}_{-2.1}$	$H(0.61)$	95.20	$95.18^{+0.63}_{-0.57}$
A_{143}^{tSZ}	7.1	—	$10^9 A_s$	2.103	$2.105^{+0.096}_{-0.085}$	$D_{\text{M}}(0.61)$	2315.6	2316^{+33}_{-35}
A_{100}^{PS}	252	261^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8879	$1.887^{+0.030}_{-0.031}$	$H(2.33)$	236.93	$237.0^{+2.2}_{-2.2}$
A_{143}^{PS}	48.5	47^{+20}_{-20}	D_{40}	1235.0	1238^{+34}_{-34}	$D_{\text{M}}(2.33)$	5766.7	5767^{+27}_{-28}
$A_{143 \times 217}^{\text{PS}}$	48.0	42^{+20}_{-20}	D_{220}	5738	5739^{+98}_{-100}	$f\sigma_8(0.15)$	0.4634	$0.464^{+0.021}_{-0.022}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	D_{810}	2542.6	2540^{+34}_{-35}	$\sigma_8(0.15)$	0.7510	$0.751^{+0.018}_{-0.017}$
A^{kSZ}	0.0	—	D_{1420}	818.0	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.4801	$0.480^{+0.018}_{-0.018}$
A_{100}^{dustTT}	8.79	$8.8^{+4.7}_{-4.7}$	D_{2000}	231.10	$230.6^{+4.0}_{-4.1}$	$\sigma_8(0.38)$	0.6649	$0.665^{+0.015}_{-0.014}$
A_{143}^{dustTT}	10.98	$10.9^{+4.6}_{-4.5}$	$n_{\text{s},0.002}$	0.9638	$0.963^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.4779	$0.478^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.5}_{-8.5}$	Y_{P}	0.245387	$0.24538^{+0.00014}_{-0.00016}$	$\sigma_8(0.51)$	0.6219	$0.622^{+0.014}_{-0.013}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246713	$0.24670^{+0.00015}_{-0.00016}$	$f\sigma_8(0.61)$	0.4723	$0.472^{+0.014}_{-0.014}$
A_{100}^{dustTE}	0.115	$0.115^{+0.10}_{-0.095}$	$10^5 \text{D}/\text{H}$	2.590	$2.593^{+0.073}_{-0.070}$	$\sigma_8(0.61)$	0.5916	$0.592^{+0.014}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.077}$	Age/Gyr	13.804	$13.806^{+0.061}_{-0.062}$	$f\sigma_8(2.33)$	0.2980	$0.2979^{+0.0069}_{-0.0062}$
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.22}_{-0.22}$	z_*	1090.00	$1090.03^{+0.71}_{-0.71}$	$\sigma_8(2.33)$	0.3069	$0.3068^{+0.0072}_{-0.0064}$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	r_*	144.29	$144.29^{+0.81}_{-0.79}$	f_{2000}^{143}	29.3	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.21}_{-0.20}$	$100\theta_*$	1.04104	$1.04104^{+0.00080}_{-0.00078}$	$f_{2000}^{143 \times 217}$	32.33	33^{+5}_{-5}
A_{217}^{dustTE}	2.09	$2.09^{+0.70}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.861	$13.860^{+0.074}_{-0.073}$	f_{2000}^{217}	106.90	$107.4^{+4.6}_{-4.5}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.93	$1059.90^{+0.76}_{-0.76}$	χ_{small}^2	396.06	$397.2 (\nu: 2.1)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	146.96	$146.96^{+0.78}_{-0.78}$	χ_{plik}^2	2344.5	$2359.4 (\nu: 16.6)$
H_0	67.11	$67.1^{+1.6}_{-1.5}$	k_{D}	0.14099	$0.14098^{+0.00083}_{-0.00084}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.0)$
Ω_{Λ}	0.6811	$0.681^{+0.022}_{-0.022}$	$100\theta_{\text{D}}$	0.160761	$0.16078^{+0.00047}_{-0.00045}$	χ_{CMB}^2	2740.5	$2756.7 (\nu: 16.8)$
Ω_{m}	0.3189	$0.319^{+0.022}_{-0.022}$	z_{eq}	3416	3417^{+81}_{-82}			
$\Omega_{\text{m}} h^2$	0.14359	$0.1436^{+0.0034}_{-0.0034}$	k_{eq}	0.010426	$0.01043^{+0.00025}_{-0.00025}$			

Best-fit $\chi_{\text{eff}}^2 = 2742.24$; $\bar{\chi}_{\text{eff}}^2 = 2768.16$; $R - 1 = 0.00605$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 plik_rd12_HM_v22b_TTTEEE: 2344.46

2.222 base_CamSpecHM_TT

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02257	$0.02248^{+0.00075}_{-0.00072} (+0.2\sigma)$	S_8	0.875	$0.871^{+0.068}_{-0.066} (-0.0\sigma)$	k_{eq}	0.010181	$0.01023^{+0.00050}_{-0.00046} (-0.1\sigma)$
$\Omega_c h^2$	0.1170	$0.1178^{+0.0074}_{-0.0068} (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4793	$0.477^{+0.037}_{-0.036} (-0.0\sigma)$	$100\theta_{\text{eq}}$	0.8263	$0.823^{+0.031}_{-0.031} (+0.2\sigma)$
$100\theta_{\text{MC}}$	1.04136	$1.0413^{+0.0015}_{-0.0014} (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6493	$0.644^{+0.042}_{-0.046} (+0.1\sigma)$	$100\theta_{\text{s,eq}}$	0.4560	$0.454^{+0.016}_{-0.016} (+0.2\sigma)$
τ	0.149	$0.134^{+0.087}_{-0.10} (+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.061	$1.051^{+0.068}_{-0.076} (+0.1\sigma)$	$H(0.15)$	73.86	$73.5^{+2.8}_{-2.8} (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.224	$3.20^{+0.16}_{-0.19} (+0.2\sigma)$	$r_{\text{drag}} h$	101.5	$100.9^{+5.7}_{-5.8} (+0.2\sigma)$	$D_M(0.15)$	631.8	$635^{+29}_{-27} (-0.2\sigma)$
n_s	0.9767	$0.973^{+0.023}_{-0.022} (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.615	$2.60^{+0.15}_{-0.18} (+0.1\sigma)$	$H(0.38)$	83.71	$83.5^{+2.1}_{-2.1} (+0.2\sigma)$
A_{100}^{PS}	218	$232^{+70}_{-70} (-0.8\sigma)$	z_{re}	15.5	$14.3^{+5.8}_{-8.8} (+0.2\sigma)$	$D_M(0.38)$	1510	$1517^{+58}_{-54} (-0.2\sigma)$
A_{143}^{PS}	45.5	$35^{+20}_{-20} (-1.0\sigma)$	$10^9 A_s$	2.512	$2.45^{+0.43}_{-0.43} (+0.2\sigma)$	$H(0.51)$	90.29	$90.1^{+1.7}_{-1.6} (+0.2\sigma)$
A_{217}^{PS}	108.9	$104^{+30}_{-30} (-1.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8666	$1.869^{+0.043}_{-0.041} (-0.2\sigma)$	$D_M(0.51)$	1959	$1966^{+67}_{-64} (-0.2\sigma)$
A_{217}^{CIB}	37.5	$37^{+20}_{-20} (-1.2\sigma)$	D_{40}	1251.9	$1253^{+49}_{-44} (-0.1\sigma)$	$H(0.61)$	95.79	$95.6^{+1.4}_{-1.3} (+0.2\sigma)$
A_{143}^{tSZ}	6.29	$< 8.86 (-0.7\sigma)$	D_{220}	5717	$5717^{+110}_{-110} (-0.2\sigma)$	$D_M(0.61)$	2281	$2289^{+72}_{-69} (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.787	> 0.357	D_{810}	2527.8	$2527^{+38}_{-36} (-0.2\sigma)$	$H(2.33)$	234.84	$235.2^{+4.3}_{-3.9} (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.78	—	D_{1420}	816.1	$814^{+14}_{-13} (+0.0\sigma)$	$D_M(2.33)$	5742	$5749^{+59}_{-60} (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.99	—	D_{2000}	232.9	$231.9^{+5.7}_{-5.6} (+0.2\sigma)$	$f\sigma_8(0.15)$	0.4855	$0.483^{+0.035}_{-0.036} (+0.0\sigma)$
A^{kSZ}	0.0	—	$n_{\text{s},0.002}$	0.9767	$0.973^{+0.023}_{-0.022} (+0.3\sigma)$	$\sigma_8(0.15)$	0.814	$0.804^{+0.059}_{-0.066} (+0.2\sigma)$
A_{100}^{dust}	0.99	$0.998^{+0.51}_{-0.50}$	Y_{P}	0.245470	$0.24543^{+0.00033}_{-0.00032} (+0.2\sigma)$	$f\sigma_8(0.38)$	0.5089	$0.505^{+0.033}_{-0.036} (+0.1\sigma)$
A_{143}^{dust}	0.958	$0.95^{+0.46}_{-0.45}$	$Y_{\text{P}}^{\text{BBN}}$	0.246797	$0.24676^{+0.00033}_{-0.00032} (+0.2\sigma)$	$\sigma_8(0.38)$	0.724	$0.714^{+0.055}_{-0.061} (+0.2\sigma)$
A_{217}^{dust}	0.992	$0.98^{+0.27}_{-0.27}$	10^5D/H	2.549	$2.57^{+0.14}_{-0.13} (-0.2\sigma)$	$f\sigma_8(0.51)$	0.5093	$0.505^{+0.033}_{-0.036} (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.017	$1.02^{+0.42}_{-0.41}$	Age/Gyr	13.751	$13.77^{+0.13}_{-0.13} (-0.2\sigma)$	$\sigma_8(0.51)$	0.678	$0.669^{+0.053}_{-0.059} (+0.2\sigma)$
y_{cal}	1.0001	$1.0002^{+0.0066}_{-0.0064} (+0.0\sigma)$	z_*	1089.41	$1089.6^{+1.5}_{-1.4} (-0.2\sigma)$	$f\sigma_8(0.61)$	0.5052	$0.500^{+0.033}_{-0.037} (+0.1\sigma)$
c_{100}	0.99785	$0.9975^{+0.0027}_{-0.0028} (-3.4\sigma)$	r_*	145.05	$144.9^{+1.5}_{-1.5} (+0.1\sigma)$	$\sigma_8(0.61)$	0.646	$0.637^{+0.052}_{-0.056} (+0.2\sigma)$
c_{217}	1.00088	$1.0009^{+0.0040}_{-0.0040} (+4.3\sigma)$	$100\theta_*$	1.04153	$1.0414^{+0.0014}_{-0.0014} (+0.2\sigma)$	$f\sigma_8(2.33)$	0.3261	$0.322^{+0.027}_{-0.030} (+0.2\sigma)$
H_0	68.73	$68.4^{+3.3}_{-3.3} (+0.2\sigma)$	$D_M(z_*)/\text{Gpc}$	13.927	$13.92^{+0.13}_{-0.14} (+0.1\sigma)$	$\sigma_8(2.33)$	0.3370	$0.332^{+0.030}_{-0.032} (+0.2\sigma)$
Ω_Λ	0.7031	$0.698^{+0.040}_{-0.047} (+0.2\sigma)$	z_{drag}	1060.20	$1060.0^{+1.4}_{-1.4} (+0.2\sigma)$	f_{2000}^{143}	25.9	$27^{+10}_{-9} (-0.3\sigma)$
Ω_m	0.2969	$0.302^{+0.047}_{-0.040} (-0.2\sigma)$	r_{drag}	147.66	$147.6^{+1.4}_{-1.4} (+0.1\sigma)$	f_{2000}^{217}	103.7	$104.9^{+6.4}_{-6.3} (-0.4\sigma)$
$\Omega_m h^2$	0.1402	$0.1409^{+0.0068}_{-0.0063} (-0.1\sigma)$	k_{D}	0.14042	$0.1404^{+0.0014}_{-0.0014} (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	29.0	$30^{+7}_{-7} (-0.4\sigma)$
$\Omega_m h^3$	0.09638	$0.0963^{+0.0013}_{-0.0012} (+0.2\sigma)$	$100\theta_{\text{D}}$	0.16065	$0.16074^{+0.00078}_{-0.00077} (-0.2\sigma)$	χ_{CamSpec}^2	7045.3	$7059.6 (\nu: 14.0)$
σ_8	0.880	$0.869^{+0.061}_{-0.069} (+0.1\sigma)$	z_{eq}	3336	$3351^{+160}_{-150} (-0.1\sigma)$	χ_{prior}^2	1.4	$7.3 (\nu: 5.7) (+0.1\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 7046.70$; $\Delta\chi_{\text{eff}}^2 = 6292.97$; $\bar{\chi}_{\text{eff}}^2 = 7066.87$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.41$; $R - 1 = 0.00646$
 χ_{eff}^2 : CMB - CamSpec like_10.7HM: 7045.25

2.223 base_CamSpecHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02253	$0.02242^{+0.00073}_{-0.00069}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4693	$0.468^{+0.037}_{-0.036}$ (−0.0 σ)	$100\theta_{s,eq}$	0.4563	$0.455^{+0.015}_{-0.014}$ (+0.1 σ)
$\Omega_c h^2$	0.1169	$0.1177^{+0.0068}_{-0.0065}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6359	$0.631^{+0.040}_{-0.042}$ (+0.1 σ)	$H(0.15)$	73.84	$73.5^{+2.7}_{-2.6}$ (+0.2 σ)
$100\theta_{MC}$	1.04132	$1.0412^{+0.0014}_{-0.0014}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	1.039	$1.030^{+0.065}_{-0.068}$ (+0.1 σ)	$D_M(0.15)$	631.9	635^{+26}_{-26} (−0.2 σ)
τ	0.128	$0.113^{+0.081}_{-0.088}$ (+0.2 σ)	$r_{drag}h$	101.5	$100.9^{+5.5}_{-5.2}$ (+0.2 σ)	$H(0.38)$	83.69	$83.4^{+2.1}_{-1.9}$ (+0.2 σ)
$\ln(10^{10}A_s)$	3.183	$3.15^{+0.15}_{-0.17}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.560	$2.54^{+0.15}_{-0.16}$ (+0.0 σ)	$D_M(0.38)$	1511	1518^{+52}_{-52} (−0.2 σ)
n_s	0.9775	$0.973^{+0.021}_{-0.020}$ (+0.3 σ)	z_{re}	14.0	$12.7^{+5.6}_{-8.3}$ (+0.2 σ)	$H(0.51)$	90.26	$90.1^{+1.7}_{-1.5}$ (+0.2 σ)
y_{cal}	1.0002	$1.0003^{+0.0063}_{-0.0064}$ (+0.0 σ)	$10^9 A_s$	2.411	$2.35^{+0.37}_{-0.37}$ (+0.1 σ)	$D_M(0.51)$	1959	1967^{+61}_{-62} (−0.2 σ)
A_{100}^{PS}	219	233^{+70}_{-60} (−0.8 σ)	$10^9 A_s e^{-2\tau}$	1.8656	$1.868^{+0.040}_{-0.040}$ (−0.3 σ)	$H(0.61)$	95.76	$95.6^{+1.4}_{-1.2}$ (+0.2 σ)
A_{143}^{PS}	45.0	36^{+20}_{-20} (−1.0 σ)	D_{40}	1234.6	1237^{+42}_{-41} (−0.2 σ)	$D_M(0.61)$	2282	2291^{+65}_{-67} (−0.2 σ)
A_{217}^{PS}	109.7	104^{+30}_{-40} (−1.2 σ)	D_{220}	5706	5708^{+100}_{-110} (−0.2 σ)	$H(2.33)$	234.71	$235.1^{+4.0}_{-3.8}$ (−0.1 σ)
A_{217}^{CIB}	37.6	38^{+20}_{-20} (−1.2 σ)	D_{810}	2529.3	2528^{+36}_{-35} (−0.2 σ)	$D_M(2.33)$	5744	5752^{+54}_{-58} (−0.2 σ)
A_{143}^{tSZ}	6.20	< 8.89 (−0.7 σ)	D_{1420}	817.0	815^{+13}_{-14} (−0.0 σ)	$f\sigma_8(0.15)$	0.4754	$0.473^{+0.035}_{-0.035}$ (−0.0 σ)
$r_{143 \times 217}^{PS}$	0.807	> 0.359	D_{2000}	232.7	$231.6^{+5.7}_{-5.8}$ (+0.1 σ)	$\sigma_8(0.15)$	0.798	$0.788^{+0.054}_{-0.058}$ (+0.1 σ)
$r_{143 \times 217}^{CIB}$	0.70	—	$n_{s,0.002}$	0.9775	$0.973^{+0.021}_{-0.020}$ (+0.3 σ)	$f\sigma_8(0.38)$	0.4984	$0.495^{+0.032}_{-0.033}$ (+0.0 σ)
$\xi^{tSZ \times CIB}$	0.96	—	Y_P	0.245453	$0.24541^{+0.00031}_{-0.00031}$ (+0.1 σ)	$\sigma_8(0.38)$	0.709	$0.700^{+0.050}_{-0.054}$ (+0.1 σ)
A^{kSZ}	0.1	—	Y_P^{BBN}	0.246780	$0.24674^{+0.00031}_{-0.00031}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4988	$0.495^{+0.032}_{-0.033}$ (+0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	$10^5 D/H$	2.557	$2.58^{+0.13}_{-0.13}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6642	$0.655^{+0.048}_{-0.051}$ (+0.1 σ)
A_{143}^{dust}	0.962	$0.96^{+0.46}_{-0.46}$	Age/Gyr	13.756	$13.77^{+0.12}_{-0.13}$ (−0.2 σ)	$f\sigma_8(0.61)$	0.4948	$0.490^{+0.031}_{-0.033}$ (+0.1 σ)
A_{217}^{dust}	0.978	$0.98^{+0.27}_{-0.27}$	z_*	1089.46	$1089.7^{+1.3}_{-1.3}$ (−0.2 σ)	$\sigma_8(0.61)$	0.6324	$0.624^{+0.046}_{-0.049}$ (+0.1 σ)
$A_{143 \times 217}^{dust}$	1.030	$1.02^{+0.42}_{-0.42}$	r_*	145.12	$145.0^{+1.4}_{-1.5}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.3195	$0.315^{+0.024}_{-0.026}$ (+0.2 σ)
c_{100}	0.99783	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_*$	1.04150	$1.0414^{+0.0013}_{-0.0013}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3302	$0.325^{+0.027}_{-0.028}$ (+0.2 σ)
c_{217}	1.00070	$1.0009^{+0.0040}_{-0.0040}$ (+4.4 σ)	$D_M(z_*)/\text{Gpc}$	13.934	$13.92^{+0.13}_{-0.13}$ (+0.1 σ)	f_{2000}^{143}	25.9	27^{+10}_{-9} (−0.2 σ)
H_0	68.72	$68.3^{+3.2}_{-3.0}$ (+0.2 σ)	z_{drag}	1060.09	$1059.9^{+1.4}_{-1.3}$ (+0.1 σ)	f_{2000}^{217}	103.9	$105.3^{+6.2}_{-6.1}$ (−0.4 σ)
Ω_Λ	0.7034	$0.698^{+0.038}_{-0.043}$ (+0.2 σ)	r_{drag}	147.74	$147.6^{+1.4}_{-1.4}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	29.3	30^{+7}_{-7} (−0.4 σ)
Ω_m	0.2966	$0.302^{+0.043}_{-0.038}$ (−0.2 σ)	k_D	0.14030	$0.1403^{+0.0014}_{-0.0013}$ (−0.1 σ)	χ_{lowl}^2	24.50	$24.8 (\nu: 1.4)$ (−0.1 σ)
$\Omega_m h^2$	0.1401	$0.1408^{+0.0063}_{-0.0061}$ (−0.1 σ)	$100\theta_D$	0.16071	$0.16081^{+0.00076}_{-0.00075}$ (−0.1 σ)	$\chi_{CamSpec}^2$	7046.4	$7060.1 (\nu: 15.0)$
$\Omega_m h^3$	0.09626	$0.0962^{+0.0013}_{-0.0012}$ (+0.1 σ)	z_{eq}	3332	3349^{+150}_{-150} (−0.1 σ)	χ_{prior}^2	1.4	$7.4 (\nu: 5.6)$ (+0.1 σ)
σ_8	0.862	$0.851^{+0.056}_{-0.061}$ (+0.1 σ)	k_{eq}	0.010170	$0.01022^{+0.00046}_{-0.00045}$ (−0.1 σ)	χ_{CMB}^2	7070.9	$7084.8 (\nu: 14.5)$ (+1145.0 σ)
S_8	0.857	$0.854^{+0.067}_{-0.066}$ (−0.0 σ)	$100\theta_{eq}$	0.8268	$0.824^{+0.030}_{-0.028}$ (+0.1 σ)			

Best-fit $\chi_{eff}^2 = 7072.29$; $\Delta\chi_{eff}^2 = 6292.81$; $\bar{\chi}_{eff}^2 = 7092.24$; $\Delta\bar{\chi}_{eff}^2 = 6292.04$; $R - 1 = 0.00797$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 24.50 (Δ -0.39) CamSpec like_10.7HM: 7046.38

2.224 base_CamSpecHM_TT_lowl_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00058}_{-0.00054} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.631^{+0.039}_{-0.043} \quad (+0.1\sigma)$	$D_M(0.15)$	$637^{+13}_{-13} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1181^{+0.0033}_{-0.0033} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.030^{+0.064}_{-0.070} \quad (+0.1\sigma)$	$H(0.38)$	$83.3^{+1.0}_{-1.0} \quad (+0.1\sigma)$
$100\theta_{MC}$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{drag} h$	$100.6^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$D_M(0.38)$	$1521^{+27}_{-26} \quad (-0.1\sigma)$
τ	$0.109^{+0.065}_{-0.074} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.15}_{-0.16} \quad (+0.0\sigma)$	$H(0.51)$	$89.96^{+0.85}_{-0.83} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.15^{+0.13}_{-0.15} \quad (+0.1\sigma)$	z_{re}	$12.5^{+4.9}_{-6.9} \quad (+0.1\sigma)$	$D_M(0.51)$	$1971^{+32}_{-31} \quad (-0.1\sigma)$
n_s	$0.972^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$10^9 A_s$	$2.33^{+0.31}_{-0.32} \quad (+0.1\sigma)$	$H(0.61)$	$95.52^{+0.73}_{-0.70} \quad (+0.1\sigma)$
y_{cal}	$1.0003^{+0.0062}_{-0.0064} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870^{+0.030}_{-0.030} \quad (-0.2\sigma)$	$D_M(0.61)$	$2294^{+34}_{-34} \quad (-0.1\sigma)$
A_{100}^{PS}	$234^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1237^{+41}_{-39} \quad (-0.2\sigma)$	$H(2.33)$	$235.3^{+2.1}_{-2.0} \quad (-0.0\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+100}_{-100} \quad (-0.3\sigma)$	$D_M(2.33)$	$5755^{+35}_{-35} \quad (-0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2529^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.474^{+0.031}_{-0.032} \quad (+0.0\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.786^{+0.050}_{-0.054} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 9.02 \quad (-0.8\sigma)$	D_{2000}	$231.4^{+4.9}_{-5.2} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.495^{+0.031}_{-0.034} \quad (+0.1\sigma)$
$r_{143 \times 217}^{PS}$	> 0.359	$n_{s,0.002}$	$0.972^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	$0.698^{+0.045}_{-0.049} \quad (+0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P	$0.24540^{+0.00023}_{-0.00024} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.494^{+0.030}_{-0.034} \quad (+0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P^{BBN}	$0.24673^{+0.00024}_{-0.00024} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.653^{+0.043}_{-0.046} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.58^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.490^{+0.031}_{-0.034} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$13.780^{+0.078}_{-0.081} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.622^{+0.041}_{-0.044} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.73^{+0.85}_{-0.83} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.314^{+0.021}_{-0.022} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.26}$	r_*	$144.91^{+0.81}_{-0.82} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.324^{+0.022}_{-0.023} \quad (+0.1\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.43}_{-0.41}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$28^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_M(z_*)/Gpc$	$13.916^{+0.078}_{-0.080} \quad (+0.0\sigma)$	f_{2000}^{217}	$105.5^{+5.9}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0010^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	z_{drag}	$1059.8^{+1.3}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$68.1^{+1.5}_{-1.5} \quad (+0.1\sigma)$	r_{drag}	$147.58^{+0.86}_{-0.89} \quad (+0.0\sigma)$	χ_{lowl}^2	$24.7 \quad (\nu: 1.4) \quad (-0.1\sigma)$
Ω_Λ	$0.696^{+0.019}_{-0.020} \quad (+0.1\sigma)$	k_D	$0.1404^{+0.0012}_{-0.0011} \quad (+0.0\sigma)$	$\chi_{CamSpec}^2$	$7059.6 \quad (\nu: 14.6)$
Ω_m	$0.304^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$100\theta_D$	$0.16083^{+0.00071}_{-0.00070} \quad (-0.1\sigma)$	χ_{6DF}^2	$0.044 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_m h^2$	$0.1411^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	z_{eq}	$3357^{+76}_{-75} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.82 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_m h^3$	$0.0961^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	k_{eq}	$0.01025^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	$\chi_{DR12BAO}^2$	$4.1 \quad (\nu: 0.6) \quad (-0.0\sigma)$
σ_8	$0.850^{+0.054}_{-0.058} \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.822^{+0.015}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.4 \quad (\nu: 5.5) \quad (+0.1\sigma)$
S_8	$0.856^{+0.056}_{-0.058} \quad (+0.0\sigma)$	$100\theta_{s,eq}$	$0.4538^{+0.0074}_{-0.0073} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (+0.0\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.469^{+0.030}_{-0.032} \quad (+0.0\sigma)$	$H(0.15)$	$73.3^{+1.3}_{-1.3} \quad (+0.1\sigma)$	χ_{CMB}^2	$7084.3 \quad (\nu: 14.0) \quad (+1195.5\sigma)$

$$\bar{\chi}_{eff}^2 = 7097.63; \Delta \bar{\chi}_{eff}^2 = 6292.21; R - 1 = 0.01179$$

2.225 base_CamSpecHM_TT_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02243^{+0.00072}_{-0.00066} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.468^{+0.037}_{-0.036} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.015}_{-0.014} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1176^{+0.0065}_{-0.0065} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.632^{+0.040}_{-0.039} \quad (+0.1\sigma)$	$H(0.15)$	$73.5^{+2.7}_{-2.5} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.031^{+0.064}_{-0.062} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+25}_{-25} \quad (-0.2\sigma)$
τ	$0.115^{+0.079}_{-0.070} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.9^{+5.5}_{-5.0} \quad (+0.2\sigma)$	$H(0.38)$	$83.5^{+2.0}_{-1.8} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.16^{+0.15}_{-0.13} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.14}_{-0.15} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1517^{+50}_{-52} \quad (-0.2\sigma)$
n_{s}	$0.974^{+0.021}_{-0.019} \quad (+0.3\sigma)$	z_{re}	$12.9^{+5.5}_{-6.1} \quad (+0.2\sigma)$	$H(0.51)$	$90.1^{+1.6}_{-1.4} \quad (+0.2\sigma)$
y_{cal}	$1.0003^{+0.0063}_{-0.0064} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.36^{+0.35}_{-0.31} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1967^{+58}_{-61} \quad (-0.2\sigma)$
A_{100}^{PS}	$232^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.868^{+0.039}_{-0.040} \quad (-0.3\sigma)$	$H(0.61)$	$95.6^{+1.3}_{-1.1} \quad (+0.2\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1237^{+43}_{-41} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2290^{+63}_{-67} \quad (-0.2\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5708^{+100}_{-110} \quad (-0.2\sigma)$	$H(2.33)$	$235.1^{+3.9}_{-3.8} \quad (-0.1\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2528^{+36}_{-35} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5751^{+51}_{-57} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.7\sigma)$	D_{1420}	$815^{+13}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.474^{+0.035}_{-0.034} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.359	D_{2000}	$231.6^{+5.6}_{-5.6} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.789^{+0.053}_{-0.048} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.974^{+0.021}_{-0.019} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.495^{+0.032}_{-0.032} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24542^{+0.00031}_{-0.00030} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.701^{+0.049}_{-0.044} \quad (+0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00031}_{-0.00030} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.495^{+0.031}_{-0.030} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.13}_{-0.13} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.656^{+0.047}_{-0.041} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.11}_{-0.12} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.491^{+0.031}_{-0.030} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.6^{+1.3}_{-1.3} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.625^{+0.045}_{-0.040} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.42}$	r_*	$145.0^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.315^{+0.024}_{-0.021} \quad (+0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.326^{+0.026}_{-0.022} \quad (+0.2\sigma)$
c_{217}	$1.0009^{+0.0040}_{-0.0040} \quad (+4.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.92^{+0.13}_{-0.13} \quad (+0.1\sigma)$	f_{2000}^{143}	$27^{+9}_{-9} \quad (-0.2\sigma)$
H_0	$68.4^{+3.1}_{-2.9} \quad (+0.2\sigma)$	z_{drag}	$1059.9^{+1.4}_{-1.3} \quad (+0.1\sigma)$	f_{2000}^{217}	$105.2^{+6.1}_{-6.1} \quad (-0.4\sigma)$
Ω_{Λ}	$0.698^{+0.038}_{-0.041} \quad (+0.2\sigma)$	r_{drag}	$147.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+7}_{-7} \quad (-0.4\sigma)$
Ω_{m}	$0.302^{+0.041}_{-0.038} \quad (-0.2\sigma)$	k_{D}	$0.1403^{+0.0014}_{-0.0013} \quad (-0.1\sigma)$	χ_{lowl}^2	$24.8 \quad (\nu: 1.4) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1407^{+0.0061}_{-0.0061} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00075}_{-0.00075} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7060.0 \quad (\nu: 14.7)$
$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	z_{eq}	$3347^{+150}_{-150} \quad (-0.1\sigma)$	χ_{prior}^2	$7.4 \quad (\nu: 5.6) \quad (+0.1\sigma)$
σ_8	$0.853^{+0.055}_{-0.051} \quad (+0.1\sigma)$	k_{eq}	$0.01022^{+0.00045}_{-0.00044} \quad (-0.1\sigma)$	χ_{CMB}^2	$7084.8 \quad (\nu: 14.3) \quad (+1154.6\sigma)$
S_8	$0.854^{+0.067}_{-0.065} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.029}_{-0.027} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7092.14$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.06$; $R - 1 = 0.00760$

2.226 base_CamSpecHM_TT_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02239^{+0.00058}_{-0.00053} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.632^{+0.039}_{-0.037} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+13}_{-13} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0033}_{-0.0033} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.030^{+0.063}_{-0.059} \quad (+0.1\sigma)$	$H(0.38)$	$83.3^{+1.0}_{-0.99} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.6^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+26}_{-26} \quad (-0.1\sigma)$
τ	$0.110^{+0.064}_{-0.063} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.54^{+0.15}_{-0.14} \quad (+0.0\sigma)$	$H(0.51)$	$89.96^{+0.85}_{-0.82} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.15^{+0.13}_{-0.12} \quad (+0.1\sigma)$	z_{re}	$12.6^{+4.8}_{-5.5} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1971^{+31}_{-31} \quad (-0.1\sigma)$
n_{s}	$0.972^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.33^{+0.31}_{-0.27} \quad (+0.1\sigma)$	$H(0.61)$	$95.52^{+0.73}_{-0.70} \quad (+0.1\sigma)$
y_{cal}	$1.0003^{+0.0062}_{-0.0064} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.030}_{-0.029} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2294^{+34}_{-34} \quad (-0.1\sigma)$
A_{100}^{PS}	$233^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1237^{+41}_{-38} \quad (-0.2\sigma)$	$H(2.33)$	$235.3^{+2.1}_{-2.0} \quad (-0.0\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+100}_{-100} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+34}_{-35} \quad (-0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2529^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.474^{+0.030}_{-0.029} \quad (+0.0\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.787^{+0.050}_{-0.046} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 9.02 \quad (-0.8\sigma)$	D_{2000}	$231.4^{+4.9}_{-5.1} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.495^{+0.031}_{-0.029} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.359	$n_{\mathrm{s},0.002}$	$0.972^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	$0.698^{+0.045}_{-0.042} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24540^{+0.00023}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.495^{+0.030}_{-0.029} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00023}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.654^{+0.042}_{-0.039} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.490^{+0.030}_{-0.028} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.779^{+0.078}_{-0.081} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.622^{+0.041}_{-0.038} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.73^{+0.84}_{-0.82} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.314^{+0.021}_{-0.019} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.26}$	r_*	$144.91^{+0.81}_{-0.82} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.324^{+0.022}_{-0.020} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.41}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$28^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.078}_{-0.080} \quad (+0.0\sigma)$	f_{2000}^{217}	$105.5^{+5.8}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0010^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	z_{drag}	$1059.8^{+1.3}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$68.1^{+1.5}_{-1.5} \quad (+0.1\sigma)$	r_{drag}	$147.58^{+0.86}_{-0.89} \quad (+0.0\sigma)$	χ_{lowl}^2	$24.7 \quad (\nu: 1.3) \quad (-0.1\sigma)$
Ω_{Λ}	$0.696^{+0.019}_{-0.020} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0011} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7059.5 \quad (\nu: 14.2)$
Ω_{m}	$0.304^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00070}_{-0.00070} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.043 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	z_{eq}	$3357^{+76}_{-75} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.82 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	k_{eq}	$0.01025^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	$0.851^{+0.053}_{-0.049} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.014}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.4 \quad (\nu: 5.5) \quad (+0.1\sigma)$
S_8	$0.856^{+0.055}_{-0.053} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0074}_{-0.0072} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (+0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.030}_{-0.029} \quad (+0.0\sigma)$	$H(0.15)$	$73.3^{+1.3}_{-1.3} \quad (+0.1\sigma)$	χ_{CMB}^2	$7084.2 \quad (\nu: 13.8) \quad (+1204.6\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 7097.56; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.23; R - 1 = 0.01150$$

2.227 base_CamSpecHM_TT_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02205	$0.02207^{+0.00056}_{-0.00053}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4653	$0.465^{+0.036}_{-0.035}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4462	$0.446^{+0.012}_{-0.012}$ (+0.1 σ)
$\Omega_c h^2$	0.1216	$0.1216^{+0.0056}_{-0.0054}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6154	$0.615^{+0.031}_{-0.032}$ (−0.1 σ)	$H(0.15)$	71.90	$71.9^{+2.1}_{-2.0}$ (+0.1 σ)
$100\theta_{MC}$	1.04072	$1.0407^{+0.0013}_{-0.0012}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9985	$0.998^{+0.042}_{-0.043}$ (−0.2 σ)	$D_M(0.15)$	651.2	651^{+21}_{-21} (−0.1 σ)
τ	0.0513	$0.052^{+0.021}_{-0.022}$ (+0.0 σ)	$r_{drag}h$	97.71	$97.8^{+4.3}_{-4.2}$ (+0.1 σ)	$H(0.38)$	82.27	$82.3^{+1.5}_{-1.4}$ (+0.2 σ)
$\ln(10^{10}A_s)$	3.0400	$3.041^{+0.043}_{-0.046}$ (−0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.471	$2.47^{+0.10}_{-0.10}$ (−0.2 σ)	$D_M(0.38)$	1549.3	1549^{+42}_{-42} (−0.1 σ)
n_s	0.9590	$0.960^{+0.016}_{-0.015}$ (+0.2 σ)	z_{re}	7.47	$7.5^{+2.1}_{-2.5}$ (+0.0 σ)	$H(0.51)$	89.13	$89.2^{+1.2}_{-1.1}$ (+0.2 σ)
y_{cal}	1.0003	$1.0004^{+0.0064}_{-0.0065}$ (−0.0 σ)	$10^9 A_s$	2.091	$2.092^{+0.092}_{-0.094}$ (−0.1 σ)	$D_M(0.51)$	2004.6	2004^{+48}_{-49} (−0.2 σ)
A_{100}^{PS}	249	245^{+60}_{-60} (−0.7 σ)	$10^9 A_s e^{-2\tau}$	1.8866	$1.887^{+0.036}_{-0.036}$ (−0.3 σ)	$H(0.61)$	94.87	$94.90^{+0.96}_{-0.85}$ (+0.2 σ)
A_{143}^{PS}	39.9	42^{+20}_{-20} (−1.0 σ)	D_{40}	1240.5	1239^{+42}_{-42} (−0.3 σ)	$D_M(0.61)$	2331	2330^{+51}_{-52} (−0.2 σ)
A_{217}^{PS}	97.9	100^{+30}_{-30} (−1.4 σ)	D_{220}	5710	5709^{+110}_{-110} (−0.2 σ)	$H(2.33)$	237.30	$237.3^{+3.4}_{-3.3}$ (−0.1 σ)
A_{217}^{CIB}	44.6	42^{+20}_{-20} (−1.0 σ)	D_{810}	2533.3	2534^{+36}_{-36} (−0.2 σ)	$D_M(2.33)$	5783.3	5782^{+40}_{-43} (−0.2 σ)
A_{143}^{tSZ}	4.22	< 8.71 (−0.6 σ)	D_{1420}	812.1	813^{+13}_{-13} (−0.1 σ)	$f\sigma_8(0.15)$	0.4686	$0.468^{+0.032}_{-0.032}$ (−0.1 σ)
$r_{143 \times 217}^{PS}$	0.539	$0.64^{+0.32}_{-0.32}$	D_{2000}	228.72	$229.0^{+4.6}_{-4.7}$ (−0.0 σ)	$\sigma_8(0.15)$	0.7507	$0.751^{+0.019}_{-0.021}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.69	—	$n_{s,0.002}$	0.9590	$0.960^{+0.016}_{-0.015}$ (+0.2 σ)	$f\sigma_8(0.38)$	0.4836	$0.483^{+0.025}_{-0.026}$ (−0.2 σ)
$\xi^{tSZ \times CIB}$	0.01	—	Y_P	0.245264	$0.24526^{+0.00023}_{-0.00025}$ (+0.1 σ)	$\sigma_8(0.38)$	0.6638	$0.664^{+0.016}_{-0.017}$ (−0.1 σ)
A^{kSZ}	3.9	—	Y_P^{BBN}	0.246590	$0.24659^{+0.00023}_{-0.00025}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4804	$0.480^{+0.021}_{-0.022}$ (−0.1 σ)
A_{100}^{dust}	1.005	$1.01^{+0.50}_{-0.49}$	$10^5 D/H$	2.646	$2.64^{+0.10}_{-0.10}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6206	$0.621^{+0.015}_{-0.015}$ (−0.1 σ)
A_{143}^{dust}	0.986	$0.97^{+0.45}_{-0.46}$	Age/Gyr	13.842	$13.839^{+0.092}_{-0.095}$ (−0.2 σ)	$f\sigma_8(0.61)$	0.4742	$0.474^{+0.019}_{-0.020}$ (−0.1 σ)
A_{217}^{dust}	0.958	$0.97^{+0.27}_{-0.27}$	z_*	1090.47	$1090.4^{+1.1}_{-1.1}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5901	$0.590^{+0.014}_{-0.014}$ (−0.1 σ)
$A_{143 \times 217}^{dust}$	1.001	$1.03^{+0.42}_{-0.41}$	r_*	144.25	$144.3^{+1.2}_{-1.2}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.2969	$0.2971^{+0.0067}_{-0.0070}$ (−0.1 σ)
c_{100}	0.99748	$0.9975^{+0.0027}_{-0.0028}$ (−3.4 σ)	$100\theta_*$	1.04094	$1.0409^{+0.0012}_{-0.0012}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3055	$0.3056^{+0.0071}_{-0.0072}$ (−0.0 σ)
c_{217}	1.00140	$1.0013^{+0.0042}_{-0.0040}$ (+4.8 σ)	$D_M(z_*)/\text{Gpc}$	13.858	$13.86^{+0.11}_{-0.11}$ (+0.1 σ)	f_{2000}^{143}	32.3	32^{+8}_{-8} (−0.1 σ)
H_0	66.46	$66.5^{+2.4}_{-2.4}$ (+0.1 σ)	z_{drag}	1059.32	$1059.3^{+1.2}_{-1.1}$ (+0.1 σ)	f_{2000}^{217}	108.4	$108.0^{+5.1}_{-5.3}$ (−0.3 σ)
Ω_Λ	0.6733	$0.674^{+0.034}_{-0.037}$ (+0.1 σ)	r_{drag}	147.02	$147.0^{+1.2}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	33.8	34^{+6}_{-6} (−0.3 σ)
Ω_m	0.3267	$0.326^{+0.037}_{-0.034}$ (−0.1 σ)	k_D	0.14070	$0.1407^{+0.0013}_{-0.0013}$ (−0.1 σ)	χ_{small}^2	395.83	397.0 (ν : 1.4) (−0.0 σ)
$\Omega_m h^2$	0.1443	$0.1443^{+0.0053}_{-0.0052}$ (−0.1 σ)	$100\theta_D$	0.16112	$0.16111^{+0.00066}_{-0.00067}$ (−0.0 σ)	$\chi_{CamSpec}^2$	7049.7	7062.9 (ν : 14.0)
$\Omega_m h^3$	0.09592	$0.0959^{+0.0012}_{-0.0011}$ (+0.1 σ)	z_{eq}	3434	3432^{+130}_{-120} (−0.1 σ)	χ_{prior}^2	2.3	7.7 (ν : 6.1) (+0.1 σ)
σ_8	0.8140	$0.814^{+0.023}_{-0.025}$ (−0.1 σ)	k_{eq}	0.010479	$0.01048^{+0.00038}_{-0.00038}$ (−0.1 σ)	χ_{CMB}^2	7445.5	7459.8 (ν : 15.0) (+1141.5 σ)
S_8	0.850	$0.849^{+0.065}_{-0.064}$ (−0.1 σ)	$100\theta_{eq}$	0.8067	$0.807^{+0.024}_{-0.022}$ (+0.1 σ)			

Best-fit $\chi_{eff}^2 = 7447.83$; $\Delta\chi_{eff}^2 = 6292.27$; $\bar{\chi}_{eff}^2 = 7467.49$; $\Delta\bar{\chi}_{eff}^2 = 6292.13$; $R - 1 = 0.00861$
 χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.83 (Δ -0.07) CamSpec like_10.7HM: 7049.71

2.228 base_CamSpecHM_TTTEE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02249	$0.02246^{+0.00051}_{-0.00049} \quad (-0.4\sigma)$	σ_8	0.852	$0.850^{+0.068}_{-0.059} \quad (-0.5\sigma)$	k_{eq}	0.010269	$0.01027^{+0.00030}_{-0.00030} \quad (-0.3\sigma)$
$\Omega_c h^2$	0.11831	$0.1183^{+0.0044}_{-0.0044} \quad (-0.2\sigma)$	S_8	0.860	$0.858^{+0.058}_{-0.056} \quad (-0.6\sigma)$	$100\theta_{\text{eq}}$	0.8205	$0.821^{+0.019}_{-0.018} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	1.04104	$1.04104^{+0.00089}_{-0.00086} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4709	$0.470^{+0.032}_{-0.031} \quad (-0.6\sigma)$	$100\theta_{\text{s,eq}}$	0.4531	$0.4531^{+0.0098}_{-0.0094} \quad (+0.2\sigma)$
τ	0.112	$0.110^{+0.089}_{-0.081} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6336	$0.632^{+0.045}_{-0.041} \quad (-0.6\sigma)$	$H(0.15)$	73.30	$73.3^{+1.8}_{-1.7} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.154	$3.15^{+0.17}_{-0.16} \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	1.033	$1.031^{+0.075}_{-0.067} \quad (-0.6\sigma)$	$D_{\text{M}}(0.15)$	637.2	$637^{+17}_{-17} \quad (-0.1\sigma)$
n_{s}	0.9714	$0.970^{+0.017}_{-0.015} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	100.37	$100.4^{+3.6}_{-3.4} \quad (+0.1\sigma)$	$H(0.38)$	83.31	$83.3^{+1.3}_{-1.2} \quad (-0.0\sigma)$
A_{100}^{PS}	221	$233^{+60}_{-70} \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	2.551	$2.55^{+0.17}_{-0.16} \quad (-0.6\sigma)$	$D_{\text{M}}(0.38)$	1521.1	$1522^{+34}_{-35} \quad (-0.0\sigma)$
A_{143}^{PS}	48.6	$36^{+20}_{-20} \quad (-0.8\sigma)$	z_{re}	12.8	$12.4^{+6.4}_{-7.6} \quad (-0.4\sigma)$	$H(0.51)$	89.96	$90.0^{+1.1}_{-0.97} \quad (-0.0\sigma)$
A_{217}^{PS}	107.7	$104^{+30}_{-30} \quad (-1.1\sigma)$	$10^9 A_{\text{s}}$	2.343	$2.34^{+0.43}_{-0.34} \quad (-0.4\sigma)$	$D_{\text{M}}(0.51)$	1971.5	$1972^{+39}_{-41} \quad (-0.0\sigma)$
A_{217}^{CIB}	39.2	$37^{+20}_{-20} \quad (-1.1\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8728	$1.872^{+0.032}_{-0.033} \quad (-0.3\sigma)$	$H(0.61)$	95.53	$95.52^{+0.88}_{-0.78} \quad (-0.1\sigma)$
A_{143}^{tSZ}	6.49	$< 8.83 \quad (-0.9\sigma)$	D_{40}	1240.1	$1243^{+48}_{-38} \quad (-0.6\sigma)$	$D_{\text{M}}(0.61)$	2295.0	$2295^{+42}_{-45} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.774	$0.68^{+0.32}_{-0.31}$	D_{220}	5721	$5722^{+100}_{-98} \quad (-0.4\sigma)$	$H(2.33)$	235.57	$235.6^{+2.6}_{-2.6} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.87	—	D_{810}	2531.0	$2529^{+36}_{-35} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	5753.1	$5754^{+35}_{-38} \quad (+0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	D_{1420}	815.9	$815^{+13}_{-12} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4762	$0.475^{+0.032}_{-0.031} \quad (-0.6\sigma)$
A^{kSZ}	0.0	—	D_{2000}	231.86	$231.4^{+4.9}_{-4.5} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.788	$0.786^{+0.064}_{-0.055} \quad (-0.5\sigma)$
A_{100}^{dust}	0.995	$1.00^{+0.50}_{-0.51}$	$n_{\text{s},0.002}$	0.9714	$0.970^{+0.017}_{-0.015} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	0.4971	$0.496^{+0.035}_{-0.032} \quad (-0.6\sigma)$
A_{143}^{dust}	0.963	$0.95^{+0.45}_{-0.45}$	Y_{P}	0.245439	$0.24543^{+0.00021}_{-0.00020} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.700	$0.698^{+0.059}_{-0.051} \quad (-0.5\sigma)$
A_{217}^{dust}	0.987	$0.98^{+0.26}_{-0.27}$	$Y_{\text{P}}^{\text{BBN}}$	0.246766	$0.24676^{+0.00021}_{-0.00020} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4964	$0.495^{+0.036}_{-0.032} \quad (-0.6\sigma)$
$A_{143 \times 217}^{\text{dust}}$	0.998	$1.02^{+0.41}_{-0.41}$	$10^5 \text{D}/\text{H}$	2.565	$2.569^{+0.092}_{-0.092} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	0.655	$0.653^{+0.056}_{-0.048} \quad (-0.5\sigma)$
y_{cal}	1.0000	$1.0001^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$	Age/Gyr	13.775	$13.777^{+0.079}_{-0.084} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4917	$0.490^{+0.036}_{-0.033} \quad (-0.6\sigma)$
c_{100}	0.99792	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_*	1089.63	$1089.66^{+0.92}_{-0.92} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.623	$0.622^{+0.054}_{-0.046} \quad (-0.5\sigma)$
c_{217}	1.00103	$1.0009^{+0.0040}_{-0.0041} \quad (+4.4\sigma)$	r_*	144.78	$144.80^{+0.94}_{-0.92} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.3146	$0.314^{+0.028}_{-0.024} \quad (-0.4\sigma)$
c_{TE}	0.9925	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04122	$1.04122^{+0.00087}_{-0.00084} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	0.3247	$0.324^{+0.030}_{-0.025} \quad (-0.4\sigma)$
c_{EE}	0.9903	$0.990^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.905	$13.907^{+0.086}_{-0.084} \quad (+0.4\sigma)$	f_{2000}^{143}	27.3	$27^{+8}_{-8} \quad (+0.1\sigma)$
H_0	68.09	$68.1^{+2.1}_{-2.0} \quad (+0.1\sigma)$	z_{drag}	1060.09	$1060.03^{+0.97}_{-0.97} \quad (-0.6\sigma)$	f_{2000}^{217}	104.7	$105.3^{+5.6}_{-5.7} \quad (-0.0\sigma)$
Ω_{Λ}	0.6949	$0.695^{+0.026}_{-0.027} \quad (+0.1\sigma)$	r_{drag}	147.41	$147.44^{+0.90}_{-0.88} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	30.1	$30^{+6}_{-6} \quad (+0.0\sigma)$
Ω_{m}	0.3051	$0.305^{+0.027}_{-0.026} \quad (-0.1\sigma)$	k_{D}	0.14062	$0.14057^{+0.00090}_{-0.00092} \quad (-0.7\sigma)$	χ_{CamSpec}^2	11495.8	$11512.0 \quad (\nu: 15.9)$
$\Omega_{\text{m}} h^2$	0.14144	$0.1414^{+0.0041}_{-0.0041} \quad (-0.3\sigma)$	$100\theta_{\text{D}}$	0.16067	$0.16071^{+0.00056}_{-0.00054} \quad (+0.5\sigma)$	χ_{prior}^2	1.9	$7.7 \quad (\nu: 5.5) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	0.09630	$0.09626^{+0.00083}_{-0.00083} \quad (-0.7\sigma)$	z_{eq}	3364	$3364^{+97}_{-97} \quad (-0.3\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11497.65$; $\Delta\chi_{\text{eff}}^2 = 9159.29$; $\bar{\chi}_{\text{eff}}^2 = 11519.77$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9154.63$; $R - 1 = 0.00880$

χ_{eff}^2 : CMB - CamSpec like_10.7HM_1400_unified: 11495.79

2.229 base_CamSpecHM_TTTEEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022467	$0.02243^{+0.00048}_{-0.00046} \quad (-0.5\sigma)$	S_8	0.850	$0.846^{+0.053}_{-0.053} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4533	$0.4530^{+0.0090}_{-0.0089} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.11820	$0.1184^{+0.0042}_{-0.0040} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4655	$0.463^{+0.029}_{-0.029} \quad (-0.6\sigma)$	$H(0.15)$	73.32	$73.2^{+1.6}_{-1.6} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	1.04104	$1.04102^{+0.00085}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6265	$0.623^{+0.037}_{-0.039} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	637.0	$638^{+16}_{-15} \quad (+0.1\sigma)$
τ	0.101	$0.094^{+0.074}_{-0.073} \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	1.022	$1.015^{+0.062}_{-0.063} \quad (-0.6\sigma)$	$H(0.38)$	83.31	$83.2^{+1.2}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.132	$3.12^{+0.14}_{-0.14} \quad (-0.6\sigma)$	$r_{\mathrm{drag}}h$	100.44	$100.3^{+3.2}_{-3.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	1520.8	$1523^{+32}_{-32} \quad (+0.1\sigma)$
n_{s}	0.9723	$0.971^{+0.014}_{-0.014} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.521	$2.51^{+0.14}_{-0.15} \quad (-0.7\sigma)$	$H(0.51)$	89.96	$89.91^{+0.96}_{-0.93} \quad (-0.2\sigma)$
y_{cal}	1.0002	$1.0002^{+0.0067}_{-0.0062} \quad (-0.0\sigma)$	z_{re}	11.9	$11.2^{+5.6}_{-7.4} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	1971.2	$1973^{+38}_{-37} \quad (+0.1\sigma)$
A_{100}^{PS}	222	$234^{+70}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	2.293	$2.26^{+0.34}_{-0.30} \quad (-0.5\sigma)$	$H(0.61)$	95.53	$95.48^{+0.78}_{-0.75} \quad (-0.2\sigma)$
A_{143}^{PS}	48.3	$37^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8726	$1.872^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2294.6	$2297^{+41}_{-40} \quad (+0.1\sigma)$
A_{217}^{PS}	108.5	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1231.7	$1233^{+37}_{-33} \quad (-0.6\sigma)$	$H(2.33)$	235.48	$235.6^{+2.4}_{-2.3} \quad (-0.2\sigma)$
A_{217}^{CIB}	38.8	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5716	$5716^{+98}_{-99} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	5753.6	$5756^{+34}_{-35} \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.38	$< 8.87 \quad (-0.9\sigma)$	D_{810}	2532.6	$2531^{+37}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4708	$0.468^{+0.029}_{-0.029} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.768	> 0.364	D_{1420}	816.9	$816^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.780	$0.774^{+0.052}_{-0.051} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.84	—	D_{2000}	231.94	$231.3^{+4.6}_{-4.4} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	0.4915	$0.489^{+0.029}_{-0.030} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.96	—	$n_{\mathrm{s},0.002}$	0.9723	$0.971^{+0.014}_{-0.014} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6922	$0.687^{+0.048}_{-0.047} \quad (-0.6\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.245433	$0.24542^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4909	$0.488^{+0.030}_{-0.030} \quad (-0.6\sigma)$
A_{100}^{dust}	1.00	$1.00^{+0.51}_{-0.49}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246759	$0.24674^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.6481	$0.643^{+0.045}_{-0.044} \quad (-0.6\sigma)$
A_{143}^{dust}	0.960	$0.95^{+0.45}_{-0.46}$	$10^5 \mathrm{D}/\mathrm{H}$	2.568	$2.575^{+0.087}_{-0.087} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4863	$0.483^{+0.030}_{-0.030} \quad (-0.6\sigma)$
A_{217}^{dust}	0.993	$0.98^{+0.27}_{-0.27}$	Age/Gyr	13.776	$13.781^{+0.075}_{-0.076} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.6169	$0.612^{+0.043}_{-0.042} \quad (-0.6\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.008	$1.01^{+0.41}_{-0.41}$	z_*	1089.64	$1089.70^{+0.88}_{-0.85} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.3114	$0.309^{+0.023}_{-0.022} \quad (-0.5\sigma)$
c_{100}	0.99782	$0.9975^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	r_*	144.82	$144.81^{+0.88}_{-0.85} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3213	$0.319^{+0.024}_{-0.023} \quad (-0.5\sigma)$
c_{217}	1.00104	$1.0009^{+0.0041}_{-0.0040} \quad (+4.5\sigma)$	$100\theta_*$	1.04122	$1.04120^{+0.00083}_{-0.00083} \quad (-0.2\sigma)$	f_{2000}^{143}	27.4	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{TE}	0.9932	$0.994^{+0.014}_{-0.014}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.909	$13.908^{+0.081}_{-0.080} \quad (+0.3\sigma)$	f_{2000}^{217}	104.8	$105.5^{+5.4}_{-5.5} \quad (+0.0\sigma)$
c_{EE}	0.9906	$0.991^{+0.013}_{-0.013}$	z_{drag}	1060.05	$1059.96^{+0.97}_{-0.90} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	30.1	$31^{+6}_{-6} \quad (+0.1\sigma)$
H_0	68.11	$68.0^{+1.9}_{-1.9} \quad (-0.1\sigma)$	r_{drag}	147.46	$147.46^{+0.85}_{-0.83} \quad (+0.4\sigma)$	χ_{lowl}^2	23.92	$24.1 \quad (\nu: 0.9) \quad (-0.6\sigma)$
Ω_{Λ}	0.6954	$0.694^{+0.024}_{-0.026} \quad (+0.0\sigma)$	k_{D}	0.14055	$0.14053^{+0.00089}_{-0.00090} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11496.2	$11512.2 \quad (\nu: 16.0)$
Ω_{m}	0.3046	$0.306^{+0.026}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16070	$0.16075^{+0.00054}_{-0.00055} \quad (+0.6\sigma)$	χ_{prior}^2	1.9	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.14131	$0.1415^{+0.0038}_{-0.0037} \quad (-0.2\sigma)$	z_{eq}	3361	$3365^{+92}_{-89} \quad (-0.2\sigma)$	χ_{CMB}^2	11520.1	$11536.3 \quad (\nu: 15.7) \quad (+1586.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.09625	$0.09620^{+0.00084}_{-0.00082} \quad (-0.7\sigma)$	k_{eq}	0.010259	$0.01027^{+0.00028}_{-0.00027} \quad (-0.2\sigma)$			
σ_8	0.843	$0.837^{+0.055}_{-0.055} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	0.8210	$0.820^{+0.018}_{-0.018} \quad (+0.1\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11522.05$; $\Delta\chi_{\mathrm{eff}}^2 = 9158.41$; $\bar{\chi}_{\mathrm{eff}}^2 = 11544.10$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9153.56$; $R - 1 = 0.00836$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 23.92 (Δ -0.85) CamSpec like_10.7HM_1400_unified: 11496.23

2.230 base_CamSpecHM_TTTEEE_lowl_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02244^{+0.00043}_{-0.00040} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.463^{+0.028}_{-0.029} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+11}_{-11} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1183^{+0.0028}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.623^{+0.036}_{-0.039} \quad (-0.7\sigma)$	$H(0.38)$	$83.28^{+0.84}_{-0.81} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04103^{+0.00076}_{-0.00078} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.015^{+0.059}_{-0.064} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+22}_{-22} \quad (+0.1\sigma)$
τ	$0.095^{+0.063}_{-0.071} \quad (-0.6\sigma)$	$r_{\mathrm{drag}} h$	$100.4^{+2.2}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.93^{+0.69}_{-0.66} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.12}_{-0.14} \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.15} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+26}_{-26} \quad (+0.1\sigma)$
n_{s}	$0.971^{+0.011}_{-0.011} \quad (-0.0\sigma)$	z_{re}	$11.3^{+4.9}_{-7.0} \quad (-0.6\sigma)$	$H(0.61)$	$95.50^{+0.58}_{-0.55} \quad (-0.3\sigma)$
y_{cal}	$1.0002^{+0.0067}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.26^{+0.29}_{-0.30} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+28}_{-28} \quad (+0.2\sigma)$
A_{100}^{PS}	$233^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.031}_{-0.028} \quad (-0.3\sigma)$	$H(2.33)$	$235.5^{+1.6}_{-1.7} \quad (-0.3\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1232^{+38}_{-33} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+26}_{-27} \quad (+0.4\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5717^{+96}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.468^{+0.028}_{-0.029} \quad (-0.6\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2530^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.775^{+0.046}_{-0.051} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.9\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.488^{+0.028}_{-0.030} \quad (-0.7\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.360	D_{2000}	$231.3^{+4.5}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.688^{+0.042}_{-0.046} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.488^{+0.028}_{-0.031} \quad (-0.7\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24542^{+0.00017}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.644^{+0.040}_{-0.044} \quad (-0.6\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00017}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.483^{+0.028}_{-0.031} \quad (-0.7\sigma)$
A_{100}^{dust}	$1.00^{+0.52}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.574^{+0.076}_{-0.078} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.613^{+0.038}_{-0.042} \quad (-0.6\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.780^{+0.059}_{-0.060} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.309^{+0.019}_{-0.021} \quad (-0.6\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.26}$	z_*	$1089.68^{+0.64}_{-0.67} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.319^{+0.020}_{-0.022} \quad (-0.6\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.42}_{-0.41}$	r_*	$144.83^{+0.65}_{-0.64} \quad (+0.4\sigma)$	f_{2000}^{143}	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{100}	$0.9975^{+0.0029}_{-0.0026} \quad (-3.5\sigma)$	$100\theta_*$	$1.04121^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$105.5^{+5.3}_{-5.2} \quad (+0.1\sigma)$
c_{217}	$1.0009^{+0.0042}_{-0.0040} \quad (+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.910^{+0.062}_{-0.061} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (+0.1\sigma)$
c_{TE}	$0.994^{+0.014}_{-0.014}$	z_{drag}	$1059.97^{+0.88}_{-0.87} \quad (-0.7\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 0.9) \quad (-0.6\sigma)$
c_{EE}	$0.991^{+0.012}_{-0.013}$	r_{drag}	$147.48^{+0.67}_{-0.66} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11511.7 \quad (\nu: 15.0)$
H_0	$68.1^{+1.3}_{-1.3} \quad (-0.1\sigma)$	k_{D}	$0.14051^{+0.00079}_{-0.00083} \quad (-0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.030 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.695^{+0.016}_{-0.017} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00051}_{-0.00052} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.69 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{m}	$0.305^{+0.017}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	$3362^{+62}_{-63} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.03 \quad (\nu: 0.4) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1413^{+0.0026}_{-0.0026} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09620^{+0.00082}_{-0.00080} \quad (-0.7\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.012}_{-0.012} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.76 \quad (\nu: 0.3) \quad (-0.0\sigma)$
σ_8	$0.838^{+0.049}_{-0.055} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4532^{+0.0062}_{-0.0060} \quad (+0.2\sigma)$	χ_{CMB}^2	$11535.7 \quad (\nu: 14.4) \quad (+1629.6\sigma)$
S_8	$0.845^{+0.052}_{-0.053} \quad (-0.6\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.1} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11549.23; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9153.40; R - 1 = 0.01419$$

2.231 base_CamSpecHM_TTTEEE_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02244^{+0.00048}_{-0.00045} \quad (-0.5\sigma)$	S_8	$0.847^{+0.052}_{-0.049} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4532^{+0.0089}_{-0.0086} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1183^{+0.0040}_{-0.0040} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.464^{+0.029}_{-0.027} \quad (-0.5\sigma)$	$H(0.15)$	$73.3^{+1.6}_{-1.5} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04102^{+0.00085}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.624^{+0.036}_{-0.032} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$638^{+15}_{-15} \quad (+0.0\sigma)$
τ	$0.097^{+0.067}_{-0.056} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$1.018^{+0.060}_{-0.050} \quad (-0.6\sigma)$	$H(0.38)$	$83.3^{+1.2}_{-1.1} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.13}_{-0.11} \quad (-0.5\sigma)$	$r_{\mathrm{drag}} h$	$100.3^{+3.2}_{-3.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+31}_{-31} \quad (+0.0\sigma)$
n_{s}	$0.971^{+0.014}_{-0.013} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.12} \quad (-0.6\sigma)$	$H(0.51)$	$89.93^{+0.95}_{-0.89} \quad (-0.1\sigma)$
y_{cal}	$1.0002^{+0.0067}_{-0.0062} \quad (-0.0\sigma)$	z_{re}	$< 16.2 \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1973^{+36}_{-37} \quad (+0.1\sigma)$
A_{100}^{PS}	$233^{+70}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.27^{+0.31}_{-0.24} \quad (-0.5\sigma)$	$H(0.61)$	$95.50^{+0.77}_{-0.72} \quad (-0.2\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+39}_{-39} \quad (+0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1233^{+37}_{-33} \quad (-0.6\sigma)$	$H(2.33)$	$235.5^{+2.3}_{-2.3} \quad (-0.2\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5716^{+97}_{-99} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+33}_{-34} \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.9\sigma)$	D_{810}	$2530^{+37}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.469^{+0.028}_{-0.026} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.364	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.776^{+0.048}_{-0.040} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$231.3^{+4.6}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.489^{+0.029}_{-0.025} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.014}_{-0.013} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.689^{+0.043}_{-0.036} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_{P}	$0.24542^{+0.00019}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.489^{+0.029}_{-0.025} \quad (-0.6\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.49}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.645^{+0.041}_{-0.034} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.46}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.574^{+0.085}_{-0.086} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.484^{+0.029}_{-0.024} \quad (-0.6\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.780^{+0.073}_{-0.075} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.614^{+0.040}_{-0.033} \quad (-0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.41}_{-0.41}$	z_*	$1089.69^{+0.85}_{-0.83} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.310^{+0.021}_{-0.017} \quad (-0.5\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.6\sigma)$	r_*	$144.82^{+0.87}_{-0.83} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.320^{+0.022}_{-0.018} \quad (-0.5\sigma)$
c_{217}	$1.0009^{+0.0041}_{-0.0040} \quad (+4.5\sigma)$	$100\theta_*$	$1.04120^{+0.00083}_{-0.00083} \quad (-0.2\sigma)$	f_{2000}^{143}	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{TE}	$0.994^{+0.014}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.080}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	$105.4^{+5.3}_{-5.5} \quad (+0.0\sigma)$
c_{EE}	$0.991^{+0.013}_{-0.013}$	z_{drag}	$1059.97^{+0.95}_{-0.92} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (+0.1\sigma)$
H_0	$68.0^{+1.8}_{-1.8} \quad (-0.0\sigma)$	r_{drag}	$147.47^{+0.85}_{-0.82} \quad (+0.4\sigma)$	χ_{lowl}^2	$24.2 \quad (\nu: 0.9) \quad (-0.6\sigma)$
Ω_{Λ}	$0.694^{+0.023}_{-0.025} \quad (+0.0\sigma)$	k_{D}	$0.14052^{+0.00088}_{-0.00090} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.0 \quad (\nu: 15.5)$
Ω_{m}	$0.306^{+0.025}_{-0.023} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00052}_{-0.00054} \quad (+0.6\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.6) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1414^{+0.0037}_{-0.0037} \quad (-0.2\sigma)$	z_{eq}	$3363^{+89}_{-88} \quad (-0.2\sigma)$	χ_{CMB}^2	$11536.2 \quad (\nu: 15.4) \quad (+1596.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09620^{+0.00083}_{-0.00081} \quad (-0.7\sigma)$	k_{eq}	$0.01027^{+0.00027}_{-0.00027} \quad (-0.2\sigma)$		
σ_8	$0.839^{+0.053}_{-0.041} \quad (-0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.017}_{-0.017} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11543.93$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9153.44$; $R - 1 = 0.00900$

2.232 base_CamSpecHM_TTTEEE_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02244^{+0.00043}_{-0.00040} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.463^{+0.028}_{-0.025} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+11}_{-11} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0027}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.624^{+0.035}_{-0.031} \quad (-0.6\sigma)$	$H(0.38)$	$83.29^{+0.83}_{-0.80} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04104^{+0.00077}_{-0.00078} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.017^{+0.058}_{-0.050} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+22}_{-22} \quad (+0.1\sigma)$
τ	$0.097^{+0.062}_{-0.051} \quad (-0.5\sigma)$	$r_{\mathrm{drag}} h$	$100.4^{+2.2}_{-2.1} \quad (+0.0\sigma)$	$H(0.51)$	$89.94^{+0.69}_{-0.65} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.12}_{-0.10} \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.51^{+0.13}_{-0.12} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+25}_{-26} \quad (+0.1\sigma)$
n_{s}	$0.971^{+0.011}_{-0.011} \quad (-0.0\sigma)$	z_{re}	$< 15.8 \quad (-0.5\sigma)$	$H(0.61)$	$95.51^{+0.57}_{-0.54} \quad (-0.3\sigma)$
y_{cal}	$1.0002^{+0.0067}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.27^{+0.28}_{-0.22} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2296^{+27}_{-28} \quad (+0.1\sigma)$
A_{100}^{PS}	$233^{+70}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.031}_{-0.028} \quad (-0.3\sigma)$	$H(2.33)$	$235.5^{+1.6}_{-1.7} \quad (-0.3\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1233^{+37}_{-32} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+26}_{-27} \quad (+0.4\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5717^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.469^{+0.028}_{-0.025} \quad (-0.6\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2530^{+37}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.776^{+0.045}_{-0.038} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.9\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.489^{+0.028}_{-0.025} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.33}_{-0.31}$	D_{2000}	$231.3^{+4.5}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.689^{+0.041}_{-0.034} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.489^{+0.028}_{-0.024} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24542^{+0.00017}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.645^{+0.038}_{-0.032} \quad (-0.6\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00017}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.484^{+0.028}_{-0.024} \quad (-0.6\sigma)$
A_{100}^{dust}	$1.00^{+0.52}_{-0.48}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.573^{+0.075}_{-0.077} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.614^{+0.037}_{-0.030} \quad (-0.6\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.779^{+0.058}_{-0.060} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.310^{+0.019}_{-0.015} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.26}$	z_*	$1089.68^{+0.64}_{-0.67} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.320^{+0.020}_{-0.016} \quad (-0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.42}_{-0.41}$	r_*	$144.83^{+0.65}_{-0.64} \quad (+0.4\sigma)$	f_{2000}^{143}	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	$100\theta_*$	$1.04121^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$105.5^{+5.2}_{-5.2} \quad (+0.0\sigma)$
c_{217}	$1.0009^{+0.0043}_{-0.0040} \quad (+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.910^{+0.061}_{-0.060} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (+0.1\sigma)$
c_{TE}	$0.994^{+0.013}_{-0.013}$	z_{drag}	$1059.98^{+0.91}_{-0.84} \quad (-0.7\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 0.9) \quad (-0.6\sigma)$
c_{EE}	$0.991^{+0.013}_{-0.013}$	r_{drag}	$147.48^{+0.67}_{-0.65} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11511.5 \quad (\nu: 14.6)$
H_0	$68.1^{+1.3}_{-1.3} \quad (-0.1\sigma)$	k_{D}	$0.14051^{+0.00078}_{-0.00082} \quad (-0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.030 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.695^{+0.016}_{-0.017} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00051}_{-0.00051} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.71 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{m}	$0.305^{+0.017}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	$3362^{+61}_{-62} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.01 \quad (\nu: 0.4) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1413^{+0.0026}_{-0.0026} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09621^{+0.00082}_{-0.00080} \quad (-0.7\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.012}_{-0.012} \quad (+0.2\sigma)$	χ_{BAO}^2	$5.75 \quad (\nu: 0.3) \quad (-0.0\sigma)$
σ_8	$0.839^{+0.048}_{-0.041} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4533^{+0.0062}_{-0.0059} \quad (+0.2\sigma)$	χ_{CMB}^2	$11535.6 \quad (\nu: 14.3) \quad (+1636.8\sigma)$
S_8	$0.846^{+0.050}_{-0.045} \quad (-0.6\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.1} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11549.09; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9153.30; R - 1 = 0.01512$$

2.233 base_CamSpecHM_TTTEEE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022266	$0.02227^{+0.00041}_{-0.00042} \quad (-0.4\sigma)$	S_8	0.8311	$0.831^{+0.044}_{-0.042} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4495	$0.4495^{+0.0079}_{-0.0078} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.12002	$0.1200^{+0.0037}_{-0.0036} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4552	$0.455^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$H(0.15)$	72.56	$72.6^{+1.4}_{-1.4} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04083	$1.04084^{+0.00084}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6070	$0.607^{+0.022}_{-0.022} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	644.5	$644^{+14}_{-14} \quad (-0.3\sigma)$
τ	0.0527	$0.053^{+0.021}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9872	$0.987^{+0.031}_{-0.031} \quad (-0.5\sigma)$	$H(0.38)$	82.75	$82.8^{+1.0}_{-0.98} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0397	$3.040^{+0.042}_{-0.041} \quad (-0.4\sigma)$	$r_{\mathrm{drag}}h$	98.96	$99.0^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	1536.0	$1536^{+28}_{-27} \quad (-0.2\sigma)$
n_{s}	0.9640	$0.964^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.443	$2.443^{+0.077}_{-0.073} \quad (-0.6\sigma)$	$H(0.51)$	89.52	$89.53^{+0.81}_{-0.77} \quad (+0.1\sigma)$
y_{cal}	1.0004	$1.0005^{+0.0066}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	7.54	$7.5^{+2.0}_{-2.2} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	1989.0	$1989^{+33}_{-32} \quad (-0.2\sigma)$
A_{100}^{PS}	239	$242^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}$	2.090	$2.090^{+0.090}_{-0.085} \quad (-0.4\sigma)$	$H(0.61)$	95.17	$95.18^{+0.65}_{-0.62} \quad (-0.0\sigma)$
A_{143}^{PS}	43.9	$40^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8808	$1.881^{+0.031}_{-0.030} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	2313.8	$2314^{+35}_{-35} \quad (-0.2\sigma)$
A_{217}^{PS}	101.4	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	1230.7	$1231^{+35}_{-34} \quad (-0.5\sigma)$	$H(2.33)$	236.46	$236.5^{+2.2}_{-2.2} \quad (-0.6\sigma)$
A_{217}^{CIB}	43.3	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5723	$5724^{+100}_{-100} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	5769.4	$5769^{+29}_{-30} \quad (+0.2\sigma)$
A_{143}^{tSZ}	5.45	$< 8.83 \quad (-0.8\sigma)$	D_{810}	2535.1	$2535^{+37}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4594	$0.459^{+0.022}_{-0.022} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.637	$0.65^{+0.31}_{-0.33}$	D_{1420}	815.0	$815^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7475	$0.747^{+0.018}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.78	—	D_{2000}	229.94	$229.9^{+4.3}_{-4.0} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4766	$0.477^{+0.018}_{-0.018} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.39	—	$n_{\mathrm{s},0.002}$	0.9640	$0.964^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	0.6621	$0.662^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A^{kSZ}	1.9	—	Y_{P}	0.245353	$0.24535^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4747	$0.475^{+0.016}_{-0.016} \quad (-0.6\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.49}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246680	$0.24668^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6194	$0.619^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{dust}	0.977	$0.96^{+0.46}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	2.605	$2.606^{+0.080}_{-0.075} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	0.4693	$0.469^{+0.014}_{-0.014} \quad (-0.6\sigma)$
A_{217}^{dust}	0.968	$0.97^{+0.27}_{-0.26}$	Age/Gyr	13.811	$13.810^{+0.066}_{-0.066} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.5892	$0.589^{+0.013}_{-0.012} \quad (-0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	0.996	$1.03^{+0.41}_{-0.42}$	z_*	1090.05	$1090.05^{+0.75}_{-0.72} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2969	$0.2969^{+0.0065}_{-0.0063} \quad (-0.4\sigma)$
c_{100}	0.99769	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.51	$144.51^{+0.81}_{-0.81} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	0.3059	$0.3059^{+0.0068}_{-0.0065} \quad (-0.4\sigma)$
c_{217}	1.00131	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_*$	1.04102	$1.04103^{+0.00082}_{-0.00079} \quad (-0.0\sigma)$	f_{2000}^{143}	30.7	$30^{+7}_{-7} \quad (+0.1\sigma)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.881	$13.881^{+0.075}_{-0.075} \quad (+0.7\sigma)$	f_{2000}^{217}	107.1	$107.2^{+5.0}_{-5.0} \quad (-0.1\sigma)$
c_{EE}	0.9925	$0.992^{+0.013}_{-0.013}$	z_{drag}	1059.70	$1059.70^{+0.85}_{-0.87} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.6	$33^{+5}_{-5} \quad (-0.0\sigma)$
H_0	67.23	$67.2^{+1.6}_{-1.6} \quad (+0.3\sigma)$	r_{drag}	147.20	$147.21^{+0.82}_{-0.81} \quad (+0.8\sigma)$	χ_{small}^2	395.86	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
Ω_{Λ}	0.6838	$0.684^{+0.021}_{-0.023} \quad (+0.4\sigma)$	k_{D}	0.14067	$0.14067^{+0.00090}_{-0.00092} \quad (-1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11514.4 \quad (\nu: 15.7)$
Ω_{m}	0.3162	$0.316^{+0.023}_{-0.021} \quad (-0.4\sigma)$	$100\theta_{\mathrm{D}}$	0.160888	$0.16089^{+0.00051}_{-0.00048} \quad (+0.6\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.14293	$0.1429^{+0.0034}_{-0.0034} \quad (-0.6\sigma)$	z_{eq}	3400	$3400^{+82}_{-81} \quad (-0.6\sigma)$	χ_{CMB}^2	11895.4	$11911.3 \quad (\nu: 16.5) \quad (+1578.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.09609	$0.09609^{+0.00086}_{-0.00084} \quad (-0.8\sigma)$	k_{eq}	0.010378	$0.01038^{+0.00025}_{-0.00025} \quad (-0.6\sigma)$			
σ_8	0.8094	$0.809^{+0.020}_{-0.020} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	0.8133	$0.813^{+0.015}_{-0.015} \quad (+0.5\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11897.49$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.25$; $\bar{\chi}_{\mathrm{eff}}^2 = 11919.09$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.94$; $R - 1 = 0.00575$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 (Δ -0.20) CamSpec like_10.7HM_1400_unified: 11499.49

2.234 base_WMAP

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02261	$0.0226^{+0.0013}_{-0.0012}$	D_{40}	1220	1219^{+63}_{-59}	$H(0.15)$	74.44	$74.6^{+4.9}_{-4.5}$
$\Omega_c h^2$	0.1141	$0.114^{+0.012}_{-0.011}$	D_{220}	5752	5748^{+90}_{-89}	$D_M(0.15)$	626.0	625^{+45}_{-43}
$100\theta_{MC}$	1.0403	$1.0401^{+0.0057}_{-0.0056}$	D_{810}	2517	2507^{+82}_{-83}	$H(0.38)$	84.04	$84.2^{+3.8}_{-3.3}$
τ	0.0878	$0.089^{+0.038}_{-0.033}$	D_{1420}	811.2	808^{+39}_{-40}	$D_M(0.38)$	1499	1496^{+90}_{-89}
$\ln(10^{10} A_s)$	3.093	$3.092^{+0.083}_{-0.075}$	D_{2000}	229.4	228^{+15}_{-15}	$H(0.51)$	90.46	$90.6^{+3.3}_{-2.7}$
n_s	0.9737	$0.973^{+0.034}_{-0.031}$	$n_{s,0.002}$	0.9737	$0.973^{+0.034}_{-0.031}$	$D_M(0.51)$	1947	1943^{+110}_{-110}
A_{tsz}	0.08	—	Y_P	0.24548	$0.24550^{+0.00051}_{-0.00053}$	$H(0.61)$	95.85	$95.9^{+2.8}_{-2.3}$
H_0	69.5	$69.7^{+5.5}_{-5.2}$	Y_P^{BBN}	0.24681	$0.24683^{+0.00052}_{-0.00053}$	$D_M(0.61)$	2269	2265^{+110}_{-120}
Ω_Λ	0.715	$0.717^{+0.057}_{-0.072}$	$10^5 D/H$	2.543	$2.54^{+0.23}_{-0.22}$	$H(2.33)$	232.9	$232.5^{+7.7}_{-7.0}$
Ω_m	0.285	$0.283^{+0.072}_{-0.057}$	Age/Gyr	13.765	$13.76^{+0.27}_{-0.29}$	$D_M(2.33)$	5746	5744^{+120}_{-130}
$\Omega_m h^2$	0.1374	$0.137^{+0.012}_{-0.011}$	z_*	1089.11	$1089.0^{+2.1}_{-2.0}$	$f\sigma_8(0.15)$	0.440	$0.436^{+0.075}_{-0.066}$
$\Omega_m h^3$	0.09543	$0.0953^{+0.0045}_{-0.0044}$	r_*	145.79	$145.9^{+2.9}_{-3.0}$	$\sigma_8(0.15)$	0.752	$0.749^{+0.051}_{-0.051}$
σ_8	0.811	$0.808^{+0.060}_{-0.059}$	$100\theta_*$	1.0405	$1.0403^{+0.0056}_{-0.0055}$	$f\sigma_8(0.38)$	0.464	$0.461^{+0.060}_{-0.057}$
S_8	0.790	$0.78^{+0.15}_{-0.12}$	$D_M(z_*)/\text{Gpc}$	14.012	$14.03^{+0.30}_{-0.30}$	$\sigma_8(0.38)$	0.6701	$0.668^{+0.042}_{-0.041}$
$\sigma_8 \Omega_m^{0.5}$	0.433	$0.430^{+0.081}_{-0.068}$	z_{drag}	1060.05	$1060.1^{+2.7}_{-2.7}$	$f\sigma_8(0.51)$	0.466	$0.463^{+0.052}_{-0.051}$
$\sigma_8 \Omega_m^{0.25}$	0.593	$0.589^{+0.074}_{-0.067}$	r_{drag}	148.40	$148.5^{+3.1}_{-3.1}$	$\sigma_8(0.51)$	0.6284	$0.626^{+0.038}_{-0.037}$
$\sigma_8/h^{0.5}$	0.974	$0.968^{+0.10}_{-0.093}$	k_D	0.13967	$0.1396^{+0.0035}_{-0.0035}$	$f\sigma_8(0.61)$	0.4630	$0.460^{+0.047}_{-0.046}$
$r_{\text{drag}} h$	103.1	$103.5^{+9.6}_{-9.3}$	$100\theta_D$	0.16053	$0.1605^{+0.0013}_{-0.0012}$	$\sigma_8(0.61)$	0.5987	$0.597^{+0.035}_{-0.034}$
$\langle d^2 \rangle^{1/2}$	2.429	$2.42^{+0.20}_{-0.19}$	z_{eq}	3268	3256^{+280}_{-250}	$f\sigma_8(2.33)$	0.3030	$0.302^{+0.017}_{-0.016}$
z_{re}	10.61	$10.7^{+2.9}_{-2.9}$	k_{eq}	0.00997	$0.00994^{+0.00086}_{-0.00077}$	$\sigma_8(2.33)$	0.3137	$0.313^{+0.018}_{-0.016}$
$10^9 A_s$	2.205	$2.20^{+0.19}_{-0.16}$	$100\theta_{\text{eq}}$	0.838	$0.841^{+0.053}_{-0.053}$	χ^2_{WMAP}	7557.9	$7564.0 (\nu: 5.6)$
$10^9 A_s e^{-2\tau}$	1.850	$1.843^{+0.081}_{-0.075}$	$100\theta_{s,\text{eq}}$	0.4623	$0.464^{+0.027}_{-0.027}$			

Best-fit $\chi^2_{\text{eff}} = 7557.95$; $\bar{\chi}^2_{\text{eff}} = 7563.97$; $R - 1 = 0.00844$

χ^2_{eff} : CMB - WMAP: 7557.95

2.235 base_WMAP_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02240	$0.0225^{+0.0011}_{-0.0011}$	D_{220}	5740	5739^{+86}_{-86}	$H(0.38)$	83.14	$83.2^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.1164	$0.1167^{+0.0053}_{-0.0053}$	D_{810}	2518	2516^{+77}_{-80}	$D_M(0.38)$	1522.4	1522^{+35}_{-34}
$100\theta_{MC}$	1.0393	$1.0395^{+0.0051}_{-0.0056}$	D_{1420}	809.4	809^{+40}_{-41}	$H(0.51)$	89.72	$89.8^{+1.5}_{-1.5}$
τ	0.0862	$0.086^{+0.036}_{-0.031}$	D_{2000}	228.7	229^{+16}_{-16}	$D_M(0.51)$	1973.9	1973^{+42}_{-43}
$\ln(10^{10} A_s)$	3.096	$3.095^{+0.080}_{-0.075}$	$n_{s,0.002}$	0.9678	$0.967^{+0.027}_{-0.027}$	$H(0.61)$	95.23	$95.3^{+1.5}_{-1.6}$
n_s	0.9678	$0.967^{+0.027}_{-0.027}$	Y_P	0.245409	$0.24543^{+0.00048}_{-0.00048}$	$D_M(0.61)$	2298.3	2297^{+48}_{-47}
A_{tsz}	0.03	—	Y_P^{BBN}	0.246735	$0.24675^{+0.00048}_{-0.00048}$	$H(2.33)$	234.09	$234.4^{+4.4}_{-4.5}$
H_0	68.11	$68.1^{+1.9}_{-1.8}$	$10^5 D/H$	2.579	$2.57^{+0.21}_{-0.20}$	$D_M(2.33)$	5774	5769^{+93}_{-87}
Ω_Λ	0.6993	$0.699^{+0.021}_{-0.022}$	Age/Gyr	13.826	$13.82^{+0.22}_{-0.21}$	$f\sigma_8(0.15)$	0.4547	$0.455^{+0.036}_{-0.032}$
Ω_m	0.3007	$0.301^{+0.022}_{-0.021}$	z_*	1089.57	$1089.5^{+1.3}_{-1.2}$	$\sigma_8(0.15)$	0.7580	$0.759^{+0.046}_{-0.041}$
$\Omega_m h^2$	0.1395	$0.1398^{+0.0057}_{-0.0057}$	r_*	145.33	$145.2^{+1.9}_{-1.8}$	$f\sigma_8(0.38)$	0.4757	$0.476^{+0.034}_{-0.030}$
$\Omega_m h^3$	0.09501	$0.0953^{+0.0044}_{-0.0044}$	$100\theta_*$	1.0395	$1.0397^{+0.0050}_{-0.0055}$	$\sigma_8(0.38)$	0.6732	$0.674^{+0.040}_{-0.036}$
σ_8	0.8192	$0.820^{+0.050}_{-0.045}$	$D_M(z_*)/\text{Gpc}$	13.981	$13.97^{+0.24}_{-0.22}$	$f\sigma_8(0.51)$	0.4756	$0.476^{+0.033}_{-0.029}$
S_8	0.820	$0.821^{+0.067}_{-0.061}$	z_{drag}	1059.74	$1059.9^{+2.7}_{-2.7}$	$\sigma_8(0.51)$	0.6305	$0.631^{+0.037}_{-0.033}$
$\sigma_8 \Omega_m^{0.5}$	0.4492	$0.450^{+0.037}_{-0.033}$	r_{drag}	148.00	$147.9^{+2.2}_{-2.1}$	$f\sigma_8(0.61)$	0.4714	$0.472^{+0.032}_{-0.028}$
$\sigma_8 \Omega_m^{0.25}$	0.6066	$0.607^{+0.043}_{-0.037}$	k_D	0.13993	$0.1401^{+0.0029}_{-0.0030}$	$\sigma_8(0.61)$	0.6002	$0.600^{+0.035}_{-0.032}$
$\sigma_8/h^{0.5}$	0.993	$0.993^{+0.061}_{-0.054}$	$100\theta_D$	0.16058	$0.1605^{+0.0013}_{-0.0013}$	$f\sigma_8(2.33)$	0.3031	$0.303^{+0.018}_{-0.016}$
$r_{\text{drag}} h$	100.81	$100.8^{+2.9}_{-2.8}$	z_{eq}	3318	3326^{+140}_{-140}	$\sigma_8(2.33)$	0.3130	$0.313^{+0.018}_{-0.016}$
$\langle d^2 \rangle^{1/2}$	2.472	$2.47^{+0.11}_{-0.10}$	k_{eq}	0.010127	$0.01015^{+0.00042}_{-0.00042}$	χ^2_{WMAP}	7558.3	$7563.6 (\nu: 5.2)$
z_{re}	10.59	$10.5^{+2.8}_{-2.8}$	$100\theta_{\text{eq}}$	0.8275	$0.826^{+0.022}_{-0.021}$	$\chi^2_{6\text{DF}}$	0.004	$0.055 (\nu: 0.0)$
$10^9 A_s$	2.210	$2.21^{+0.18}_{-0.16}$	$100\theta_{s,\text{eq}}$	0.4567	$0.456^{+0.012}_{-0.011}$	χ^2_{MGS}	1.89	$1.94 (\nu: 0.2)$
$10^9 A_s e^{-2\tau}$	1.860	$1.859^{+0.056}_{-0.058}$	$H(0.15)$	73.26	$73.3^{+1.7}_{-1.7}$	χ^2_{DR12BAO}	3.47	$4.3 (\nu: 0.7)$
D_{40}	1231.4	1233^{+48}_{-44}	$D_M(0.15)$	637.3	637^{+16}_{-16}	χ^2_{BAO}	5.37	$6.3 (\nu: 0.9)$

Best-fit $\chi^2_{\text{eff}} = 7563.66$; $\bar{\chi}^2_{\text{eff}} = 7569.93$; $R - 1 = 0.00961$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.89 DR12BAO: 3.47 CMB - WMAP: 7558.29

2.236 base_DES_lenspriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_m h^2$	0.1256	$0.130^{+0.041}_{-0.025}$	k_D	0.1356	$0.137^{+0.012}_{-0.0081}$
$\Omega_c h^2$	0.1028	$0.107^{+0.040}_{-0.024}$	$\Omega_m h^3$	0.089	$0.095^{+0.069}_{-0.038}$	$100\theta_D$	0.1602	$0.161^{+0.015}_{-0.013}$
$100\theta_{MC}$	1.032	$1.04^{+0.11}_{-0.089}$	σ_8	0.872	$0.87^{+0.24}_{-0.22}$	z_{eq}	2987	3097^{+1000}_{-600}
$\ln(10^{10} A_s)$	3.375	$3.30^{+0.39}_{-0.41}$	S_8	0.799	$0.790^{+0.069}_{-0.066}$	k_{eq}	0.00912	$0.0095^{+0.0030}_{-0.0018}$
n_s	0.962	$0.960^{+0.051}_{-0.051}$	$\sigma_8 \Omega_m^{0.5}$	0.4374	$0.433^{+0.038}_{-0.036}$	$100\theta_{eq}$	0.888	$0.875^{+0.085}_{-0.098}$
b_{DES}^1	1.339	$1.36^{+0.50}_{-0.37}$	$\sigma_8 \Omega_m^{0.25}$	0.618	$0.612^{+0.11}_{-0.098}$	$100\theta_{s,eq}$	0.4883	$0.481^{+0.042}_{-0.050}$
b_{DES}^2	1.534	$1.56^{+0.52}_{-0.38}$	$\sigma_8/h^{0.5}$	1.038	$1.02^{+0.14}_{-0.14}$	$H(0.15)$	75.2	77^{+30}_{-20}
b_{DES}^3	1.521	$1.55^{+0.51}_{-0.36}$	$r_{drag} h$	107.5	109^{+30}_{-30}	$D_M(0.15)$	617	611^{+200}_{-200}
b_{DES}^4	1.83	$1.87^{+0.59}_{-0.43}$	$\langle d^2 \rangle^{1/2}$	2.717	$2.65^{+0.40}_{-0.40}$	$H(0.38)$	83.9	86^{+20}_{-20}
b_{DES}^5	1.89	$1.93^{+0.61}_{-0.47}$	z_{re}	7.49	$7.58^{+0.89}_{-0.62}$	$D_M(0.38)$	1487	1470^{+500}_{-400}
m_{DES}^1	0.013	$0.012^{+0.058}_{-0.059}$	$10^9 A_s$	2.92	$2.74^{+1.3}_{-0.95}$	$H(0.51)$	89.8	92^{+20}_{-20}
m_{DES}^2	0.015	$0.014^{+0.058}_{-0.058}$	$10^9 A_s e^{-2\tau}$	2.62	$2.45^{+1.1}_{-0.85}$	$D_M(0.51)$	1936	1913^{+600}_{-500}
m_{DES}^3	0.006	$0.009^{+0.055}_{-0.054}$	D_{40}	1795	1680^{+800}_{-600}	$H(0.61)$	94.8	97^{+20}_{-20}
m_{DES}^4	0.009	$0.011^{+0.055}_{-0.055}$	D_{220}	8615	7948^{+4000}_{-3000}	$D_M(0.61)$	2261	2233^{+600}_{-500}
$A_{IA,DES}$	0.51	$0.49^{+0.56}_{-0.48}$	D_{810}	3566	3256^{+2000}_{-1000}	$H(2.33)$	224.0	228^{+40}_{-30}
$\alpha_{IA,DES}$	-1.2	—	D_{1420}	1125	1013^{+500}_{-500}	$D_M(2.33)$	5835	5754^{+1000}_{-1000}
$\Delta z_{l,DES}^1$	0.0041	$0.004^{+0.020}_{-0.019}$	D_{2000}	319	297^{+200}_{-100}	$f\sigma_8(0.15)$	0.4467	$0.442^{+0.042}_{-0.043}$
$\Delta z_{l,DES}^2$	0.0017	$0.002^{+0.018}_{-0.018}$	$n_{s,0.002}$	0.962	$0.960^{+0.051}_{-0.051}$	$\sigma_8(0.15)$	0.813	$0.81^{+0.24}_{-0.21}$
$\Delta z_{l,DES}^3$	0.0044	$0.004^{+0.017}_{-0.017}$	Y_P	0.24533	$0.24531^{+0.00054}_{-0.00059}$	$f\sigma_8(0.38)$	0.481	$0.475^{+0.067}_{-0.071}$
$\Delta z_{l,DES}^4$	0.0029	$0.002^{+0.024}_{-0.024}$	Y_P^{BBN}	0.24665	$0.24664^{+0.00055}_{-0.00059}$	$\sigma_8(0.38)$	0.728	$0.72^{+0.23}_{-0.20}$
$\Delta z_{l,DES}^5$	0.0012	$0.001^{+0.026}_{-0.025}$	$10^5 D/H$	2.618	$2.62^{+0.27}_{-0.23}$	$f\sigma_8(0.51)$	0.487	$0.482^{+0.081}_{-0.086}$
$\Delta z_{s,DES}^1$	-0.0011	$-0.003^{+0.036}_{-0.036}$	Age/Gyr	14.00	$13.8^{+2.8}_{-2.6}$	$\sigma_8(0.51)$	0.685	$0.68^{+0.22}_{-0.20}$
$\Delta z_{s,DES}^2$	-0.0288	$-0.030^{+0.027}_{-0.029}$	z_*	1088.58	$1089.0^{+3.8}_{-2.7}$	$f\sigma_8(0.61)$	0.487	$0.482^{+0.091}_{-0.095}$
$\Delta z_{s,DES}^3$	0.0059	$0.007^{+0.025}_{-0.025}$	r_*	149.3	$148.1^{+7.6}_{-10}$	$\sigma_8(0.61)$	0.654	$0.65^{+0.22}_{-0.19}$
$\Delta z_{s,DES}^4$	-0.0266	$-0.024^{+0.049}_{-0.048}$	$100\theta_*$	1.032	$1.04^{+0.11}_{-0.089}$	$f\sigma_8(2.33)$	0.333	$0.33^{+0.12}_{-0.10}$
H_0	70.7	> 55.4	$D_M(z_*)/\text{Gpc}$	14.46	$14.3^{+2.0}_{-2.2}$	$\sigma_8(2.33)$	0.347	$0.35^{+0.13}_{-0.11}$
Ω_Λ	0.749	$0.745^{+0.086}_{-0.14}$	z_{drag}	1058.25	$1058.6^{+4.0}_{-3.9}$	χ_{DES}^2	500.5	$512.8 (\nu: 13.4)$
Ω_m	0.251	$0.255^{+0.14}_{-0.086}$	r_{drag}	152.1	$150.9^{+7.9}_{-11}$	χ_{prior}^2	1.3	$14.3 (\nu: 14.0)$

Best-fit $\chi_{\text{eff}}^2 = 501.82$; $\bar{\chi}_{\text{eff}}^2 = 527.14$; $R - 1 = 0.00444$
 χ_{eff}^2 : WL - DES_1YR_final: 500.49

2.237 base_DESlens_lenspriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02216	$0.0222^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}}h$	110.1	112^{+30}_{-40}	$100\theta_{\mathrm{eq}}$	0.830	$0.80^{+0.20}_{-0.20}$
$\Omega_{\mathrm{c}}h^2$	0.120	$0.137^{+0.096}_{-0.065}$	$\langle d^2 \rangle^{1/2}$	2.54	$2.39^{+0.91}_{-0.86}$	$100\theta_{\mathrm{s,eq}}$	0.459	$0.44^{+0.10}_{-0.11}$
$100\theta_{\mathrm{MC}}$	1.064	$1.08^{+0.11}_{-0.15}$	z_{re}	7.85	$8.1^{+1.6}_{-1.3}$	$H(0.15)$	79.7	84^{+20}_{-30}
$\ln(10^{10}A_{\mathrm{s}})$	3.15	—	10^9A_{s}	2.34	$2.1^{+2.6}_{-1.7}$	$D_{\mathrm{M}}(0.15)$	583	570^{+300}_{-100}
n_{s}	0.960	$0.960^{+0.053}_{-0.051}$	$10^9A_{\mathrm{s}}e^{-2\tau}$	2.10	$1.9^{+2.4}_{-1.5}$	$H(0.38)$	89.1	94^{+20}_{-30}
m_{DES}^1	0.015	$0.014^{+0.061}_{-0.060}$	D_{40}	1407	1288^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1403	1365^{+700}_{-300}
m_{DES}^2	0.014	$0.013^{+0.057}_{-0.058}$	D_{220}	6383	5754^{+9000}_{-5000}	$H(0.51)$	95.4	100^{+20}_{-30}
m_{DES}^3	0.002	$0.005^{+0.056}_{-0.055}$	D_{810}	2800	2357^{+3000}_{-2000}	$D_{\mathrm{M}}(0.51)$	1826	1774^{+800}_{-400}
m_{DES}^4	0.016	$0.017^{+0.056}_{-0.055}$	D_{1420}	883	704^{+1000}_{-600}	$H(0.61)$	100.7	106^{+30}_{-30}
$A_{\mathrm{IA,DES}}$	1.34	$0.7^{+2.0}_{-5.2}$	D_{2000}	252	208^{+300}_{-200}	$D_{\mathrm{M}}(0.61)$	2132	2068^{+900}_{-500}
$\alpha_{\mathrm{IA,DES}}$	3.4	—	$n_{\mathrm{s},0.002}$	0.960	$0.960^{+0.053}_{-0.051}$	$H(2.33)$	239	252^{+70}_{-50}
$\Delta z_{\mathrm{s,DES}}^1$	0.0029	$0.002^{+0.038}_{-0.039}$	Y_{P}	0.24531	$0.24531^{+0.00056}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5488	5288^{+2000}_{-1000}
$\Delta z_{\mathrm{s,DES}}^2$	-0.0192	$-0.020^{+0.031}_{-0.031}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24664	$0.24664^{+0.00056}_{-0.00056}$	$f\sigma_8(0.15)$	0.453	$0.440^{+0.053}_{-0.089}$
$\Delta z_{\mathrm{s,DES}}^3$	0.0080	$0.009^{+0.028}_{-0.028}$	$10^5D/H$	2.625	$2.62^{+0.26}_{-0.24}$	$\sigma_8(0.15)$	0.818	$0.80^{+0.32}_{-0.38}$
$\Delta z_{\mathrm{s,DES}}^4$	-0.016	$-0.016^{+0.054}_{-0.053}$	Age/Gyr	13.16	$12.7^{+4.1}_{-2.8}$	$f\sigma_8(0.38)$	0.486	$0.470^{+0.086}_{-0.15}$
H_0	74.8	> 48.5	z_*	1090.2	$1091.5^{+7.7}_{-5.5}$	$\sigma_8(0.38)$	0.732	$0.72^{+0.31}_{-0.36}$
Ω_{Λ}	0.744	$0.72^{+0.16}_{-0.34}$	r_*	144.5	141^{+20}_{-20}	$f\sigma_8(0.51)$	0.492	$0.48^{+0.10}_{-0.17}$
Ω_{m}	0.256	$0.28^{+0.34}_{-0.16}$	$100\theta_*$	1.064	$1.08^{+0.11}_{-0.15}$	$\sigma_8(0.51)$	0.688	$0.67^{+0.30}_{-0.34}$
$\Omega_{\mathrm{m}}h^2$	0.143	$0.160^{+0.10}_{-0.061}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.58	$13.1^{+3.5}_{-2.8}$	$f\sigma_8(0.61)$	0.492	$0.48^{+0.12}_{-0.19}$
$\Omega_{\mathrm{m}}h^3$	0.107	$0.127^{+0.11}_{-0.075}$	z_{drag}	1059.5	$1060.6^{+6.8}_{-5.8}$	$\sigma_8(0.61)$	0.657	$0.64^{+0.30}_{-0.33}$
σ_8	0.878	$0.86^{+0.33}_{-0.39}$	r_{drag}	147.2	144^{+20}_{-20}	$f\sigma_8(2.33)$	0.334	$0.33^{+0.16}_{-0.18}$
S_8	0.811	$0.791^{+0.084}_{-0.15}$	k_{D}	0.1406	$0.145^{+0.024}_{-0.018}$	$\sigma_8(2.33)$	0.347	$0.34^{+0.19}_{-0.19}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.444	$0.433^{+0.046}_{-0.082}$	$100\theta_{\mathrm{D}}$	0.1646	$0.167^{+0.016}_{-0.021}$	χ_{DES}^2	228.7	$233.7 (\nu: 4.0)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.625	$0.61^{+0.14}_{-0.18}$	z_{eq}	3408	3814^{+2000}_{-1000}	χ_{prior}^2	0.3	$9.4 (\nu: 9.3)$
$\sigma_8/h^{0.5}$	1.015	$0.97^{+0.25}_{-0.31}$	k_{eq}	0.0104	$0.0116^{+0.0073}_{-0.0044}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 229.04$; $\bar{\chi}_{\mathrm{eff}}^2 = 243.17$; $R - 1 = 0.00629$
 χ_{eff}^2 : WL - DES_1YR_final: 228.72

2.238 base_DES_lenspriors_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_{\mathrm{m}}h^3$	$0.092^{+0.036}_{-0.024}$	z_{eq}	3119^{+600}_{-400}
$\Omega_{\mathrm{c}}h^2$	$0.108^{+0.024}_{-0.018}$	σ_8	$0.816^{+0.090}_{-0.080}$	k_{eq}	$0.0095^{+0.0018}_{-0.0014}$
$100\theta_{\mathrm{MC}}$	$1.034^{+0.061}_{-0.053}$	S_8	$0.776^{+0.039}_{-0.038}$	$100\theta_{\mathrm{eq}}$	$0.864^{+0.062}_{-0.064}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.18}_{-0.18}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.425^{+0.021}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.476^{+0.031}_{-0.032}$
n_{s}	$0.961^{+0.050}_{-0.051}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.589^{+0.036}_{-0.034}$	$H(0.15)$	74^{+10}_{-10}
b_{DES}^1	$1.44^{+0.25}_{-0.24}$	$\sigma_8/h^{0.5}$	$0.979^{+0.044}_{-0.043}$	$D_{\mathrm{M}}(0.15)$	629^{+100}_{-100}
b_{DES}^2	$1.65^{+0.22}_{-0.21}$	$r_{\mathrm{drag}}h$	105^{+20}_{-10}	$H(0.38)$	84^{+10}_{-10}
b_{DES}^3	$1.64^{+0.20}_{-0.19}$	$\langle d^2 \rangle^{1/2}$	$2.52^{+0.11}_{-0.12}$	$D_{\mathrm{M}}(0.38)$	1508^{+200}_{-200}
b_{DES}^4	$1.98^{+0.23}_{-0.22}$	z_{re}	$7.58^{+0.55}_{-0.47}$	$H(0.51)$	90^{+10}_{-10}
b_{DES}^5	$2.06^{+0.26}_{-0.25}$	10^9A_{s}	$2.41^{+0.47}_{-0.41}$	$D_{\mathrm{M}}(0.51)$	1960^{+300}_{-300}
m_{DES}^1	$0.012^{+0.059}_{-0.059}$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.16^{+0.42}_{-0.37}$	$H(0.61)$	95^{+10}_{-10}
m_{DES}^2	$0.015^{+0.058}_{-0.058}$	D_{40}	1462^{+200}_{-200}	$D_{\mathrm{M}}(0.61)$	2286^{+300}_{-300}
m_{DES}^3	$0.012^{+0.053}_{-0.053}$	D_{220}	6949^{+2000}_{-2000}	$H(2.33)$	228^{+22}_{-18}
m_{DES}^4	$0.013^{+0.055}_{-0.055}$	D_{810}	2906^{+600}_{-600}	$D_{\mathrm{M}}(2.33)$	5827^{+700}_{-700}
$A_{\mathrm{IA,DES}}$	$0.46^{+0.53}_{-0.46}$	D_{1420}	916^{+200}_{-200}	$f\sigma_8(0.15)$	$0.432^{+0.020}_{-0.020}$
$\alpha_{\mathrm{IA,DES}}$	—	D_{2000}	264^{+90}_{-70}	$\sigma_8(0.15)$	$0.758^{+0.090}_{-0.081}$
$\Delta z_{\mathrm{l,DES}}^1$	$0.004^{+0.020}_{-0.020}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.051}$	$f\sigma_8(0.38)$	$0.460^{+0.025}_{-0.025}$
$\Delta z_{\mathrm{l,DES}}^2$	$0.002^{+0.017}_{-0.017}$	Y_{P}	$0.24532^{+0.00055}_{-0.00054}$	$\sigma_8(0.38)$	$0.677^{+0.087}_{-0.078}$
$\Delta z_{\mathrm{l,DES}}^3$	$0.004^{+0.017}_{-0.017}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00054}$	$f\sigma_8(0.51)$	$0.463^{+0.029}_{-0.029}$
$\Delta z_{\mathrm{l,DES}}^4$	$0.002^{+0.023}_{-0.023}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$\sigma_8(0.51)$	$0.635^{+0.086}_{-0.076}$
$\Delta z_{\mathrm{l,DES}}^5$	$0.000^{+0.025}_{-0.026}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.0^{+1.6}_{-1.6}$	$f\sigma_8(0.61)$	$0.462^{+0.033}_{-0.033}$
$\Delta z_{\mathrm{s,DES}}^1$	$-0.004^{+0.036}_{-0.036}$	z_{*}	$1089.1^{+2.5}_{-2.1}$	$\sigma_8(0.61)$	$0.606^{+0.084}_{-0.074}$
$\Delta z_{\mathrm{s,DES}}^2$	$-0.029^{+0.028}_{-0.028}$	r_{*}	$147.7^{+5.7}_{-6.5}$	$f\sigma_8(2.33)$	$0.307^{+0.045}_{-0.040}$
$\Delta z_{\mathrm{s,DES}}^3$	$0.008^{+0.025}_{-0.025}$	$100\theta_{*}$	$1.034^{+0.061}_{-0.053}$	$\sigma_8(2.33)$	$0.319^{+0.052}_{-0.044}$
$\Delta z_{\mathrm{s,DES}}^4$	$-0.021^{+0.048}_{-0.047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.3^{+1.3}_{-1.4}$	$\chi_{\mathrm{lensing}}^2$	$9.0 (\nu: 1.1)$
H_0	70^{+10}_{-10}	z_{drag}	$1058.7^{+3.5}_{-3.6}$	χ_{DES}^2	$512.9 (\nu: 10.2)$
Ω_{Λ}	$0.727^{+0.056}_{-0.067}$	r_{drag}	$150.5^{+6.0}_{-6.7}$	χ_{prior}^2	$14.1 (\nu: 13.3)$
Ω_{m}	$0.273^{+0.067}_{-0.056}$	k_{D}	$0.1372^{+0.0074}_{-0.0063}$		
$\Omega_{\mathrm{m}}h^2$	$0.131^{+0.025}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.1604^{+0.0088}_{-0.0076}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 535.95; R - 1 = 0.00951$$

2.239 base_DESlens_lenspriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}} h$	102.8	108^{+30}_{-20}	$100\theta_{\mathrm{eq}}$	0.842	$0.845^{+0.088}_{-0.082}$
$\Omega_{\mathrm{c}} h^2$	0.1132	$0.115^{+0.033}_{-0.026}$	$\langle d^2 \rangle^{1/2}$	2.496	$2.49^{+0.13}_{-0.14}$	$100\theta_{\mathrm{s,eq}}$	0.4645	$0.466^{+0.045}_{-0.041}$
$100\theta_{\mathrm{MC}}$	1.039	$1.051^{+0.083}_{-0.078}$	z_{re}	7.67	$7.73^{+0.72}_{-0.64}$	$H(0.15)$	73.9	78^{+20}_{-20}
$\ln(10^{10} A_{\mathrm{s}})$	3.126	$3.13^{+0.24}_{-0.23}$	$10^9 A_{\mathrm{s}}$	2.28	$2.31^{+0.61}_{-0.48}$	$D_{\mathrm{M}}(0.15)$	630	605^{+200}_{-200}
n_{s}	0.960	$0.960^{+0.052}_{-0.052}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	2.041	$2.07^{+0.55}_{-0.43}$	$H(0.38)$	83.5	87^{+20}_{-20}
m_{DES}^1	0.014	$0.013^{+0.058}_{-0.059}$	D_{40}	1371	1390^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1510	1452^{+300}_{-300}
m_{DES}^2	0.014	$0.013^{+0.058}_{-0.057}$	D_{220}	6416	6444^{+2000}_{-2000}	$H(0.51)$	89.9	93^{+20}_{-20}
m_{DES}^3	0.003	$0.005^{+0.055}_{-0.055}$	D_{810}	2764	2727^{+800}_{-900}	$D_{\mathrm{M}}(0.51)$	1959	1888^{+400}_{-400}
m_{DES}^4	0.018	$0.018^{+0.054}_{-0.055}$	D_{1420}	881	850^{+300}_{-400}	$H(0.61)$	95.3	99^{+20}_{-20}
$A_{\mathrm{IA,DES}}$	1.27	< 2.27	D_{2000}	248	246^{+100}_{-100}	$D_{\mathrm{M}}(0.61)$	2283	2203^{+500}_{-500}
$\alpha_{\mathrm{IA,DES}}$	3.3	—	$n_{\mathrm{s},0.002}$	0.960	$0.960^{+0.052}_{-0.052}$	$H(2.33)$	231.7	234^{+30}_{-30}
$\Delta z_{\mathrm{s,DES}}^1$	0.0026	$0.001^{+0.038}_{-0.039}$	Y_{P}	0.24533	$0.24532^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5780	5638^{+1000}_{-900}
$\Delta z_{\mathrm{s,DES}}^2$	-0.0191	$-0.020^{+0.030}_{-0.031}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24666	$0.24664^{+0.00054}_{-0.00056}$	$f\sigma_8(0.15)$	0.4438	$0.436^{+0.030}_{-0.062}$
$\Delta z_{\mathrm{s,DES}}^3$	0.0082	$0.009^{+0.028}_{-0.028}$	$10^5 D/H$	2.615	$2.62^{+0.26}_{-0.23}$	$\sigma_8(0.15)$	0.758	$0.78^{+0.14}_{-0.11}$
$\Delta z_{\mathrm{s,DES}}^4$	-0.017	$-0.016^{+0.052}_{-0.053}$	Age/Gyr	13.85	$13.5^{+2.3}_{-2.1}$	$f\sigma_8(0.38)$	0.4680	$0.466^{+0.033}_{-0.040}$
H_0	69.0	73^{+20}_{-20}	z_*	1089.52	$1089.7^{+3.2}_{-2.8}$	$\sigma_8(0.38)$	0.675	$0.70^{+0.14}_{-0.11}$
Ω_{Λ}	0.714	$0.73^{+0.11}_{-0.10}$	r_*	146.3	$145.9^{+7.6}_{-8.0}$	$f\sigma_8(0.51)$	0.4697	$0.470^{+0.039}_{-0.038}$
Ω_{m}	0.286	$0.27^{+0.10}_{-0.11}$	$100\theta_*$	1.039	$1.052^{+0.083}_{-0.078}$	$\sigma_8(0.51)$	0.633	$0.65^{+0.14}_{-0.11}$
$\Omega_{\mathrm{m}} h^2$	0.1361	$0.138^{+0.032}_{-0.026}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.08	$13.9^{+1.8}_{-1.6}$	$f\sigma_8(0.61)$	0.4668	$0.470^{+0.043}_{-0.043}$
$\Omega_{\mathrm{m}} h^3$	0.0939	$0.101^{+0.052}_{-0.037}$	z_{drag}	1059.09	$1059.2^{+3.8}_{-3.8}$	$\sigma_8(0.61)$	0.603	$0.62^{+0.14}_{-0.11}$
σ_8	0.817	$0.84^{+0.13}_{-0.11}$	r_{drag}	149.1	$148.6^{+7.9}_{-8.3}$	$f\sigma_8(2.33)$	0.305	$0.317^{+0.078}_{-0.057}$
S_8	0.798	$0.783^{+0.059}_{-0.12}$	k_{D}	0.1387	$0.1392^{+0.0092}_{-0.0083}$	$\sigma_8(2.33)$	0.316	$0.330^{+0.095}_{-0.064}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4372	$0.429^{+0.032}_{-0.066}$	$100\theta_{\mathrm{D}}$	0.1609	$0.163^{+0.012}_{-0.011}$	$\chi_{\mathrm{lensing}}^2$	7.71	9.6 (ν : 2.0)
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.5978	$0.599^{+0.047}_{-0.046}$	z_{eq}	3236	3289^{+800}_{-600}	χ_{DES}^2	229.0	232.8 (ν : 3.2)
$\sigma_8/h^{0.5}$	0.9843	$0.982^{+0.047}_{-0.050}$	k_{eq}	0.00988	$0.0100^{+0.0024}_{-0.0019}$	χ_{prior}^2	0.3	9.3 (ν : 8.8)

Best-fit $\chi_{\mathrm{eff}}^2 = 236.98$; $\bar{\chi}_{\mathrm{eff}}^2 = 251.72$; $R - 1 = 0.00394$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.71 WL - DES_1YR_final: 228.96

2.240 base_DES_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02223	$0.0222^{+0.0013}_{-0.0013}$	σ_8	0.817	$0.803^{+0.079}_{-0.074}$	$100\theta_{\text{eq}}$	0.882	$0.873^{+0.076}_{-0.074}$
$\Omega_c h^2$	0.1020	$0.105^{+0.021}_{-0.017}$	S_8	0.790	$0.780^{+0.057}_{-0.054}$	$100\theta_{\text{s,eq}}$	0.4844	$0.480^{+0.039}_{-0.038}$
$100\theta_{\text{MC}}$	1.0188	$1.023^{+0.030}_{-0.028}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4326	$0.427^{+0.031}_{-0.030}$	$H(0.15)$	71.45	$71.8^{+3.3}_{-2.9}$
$\ln(10^{10} A_{\text{s}})$	3.279	$3.21^{+0.38}_{-0.39}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5946	$0.586^{+0.049}_{-0.045}$	$D_{\text{M}}(0.15)$	651.9	649^{+26}_{-28}
n_{s}	0.958	$0.958^{+0.052}_{-0.050}$	$\sigma_8/h^{0.5}$	1.000	$0.981^{+0.10}_{-0.095}$	$H(0.38)$	80.55	$81.0^{+4.1}_{-3.7}$
b_{DES}^1	1.443	$1.47^{+0.25}_{-0.23}$	$r_{\text{drag}} h$	101.63	$101.6^{+2.9}_{-2.8}$	$D_{\text{M}}(0.38)$	1563	1555^{+67}_{-70}
b_{DES}^2	1.646	$1.68^{+0.23}_{-0.20}$	$\langle d^2 \rangle^{1/2}$	2.626	$2.56^{+0.36}_{-0.33}$	$H(0.51)$	86.64	$87.2^{+4.7}_{-4.3}$
b_{DES}^3	1.629	$1.66^{+0.22}_{-0.20}$	z_{re}	7.439	$7.49^{+0.46}_{-0.42}$	$D_{\text{M}}(0.51)$	2029	2019^{+89}_{-92}
b_{DES}^4	1.966	$2.01^{+0.28}_{-0.24}$	$10^9 A_{\text{s}}$	2.65	$2.51^{+1.1}_{-0.83}$	$H(0.61)$	91.75	$92.4^{+5.2}_{-4.7}$
b_{DES}^5	2.034	$2.08^{+0.33}_{-0.30}$	$10^9 A_{\text{s}} e^{-2\tau}$	2.38	$2.25^{+1.0}_{-0.74}$	$D_{\text{M}}(0.61)$	2366	2353^{+110}_{-110}
m_{DES}^1	0.013	$0.012^{+0.059}_{-0.057}$	D_{40}	1634	1539^{+700}_{-500}	$H(2.33)$	222.2	224^{+17}_{-15}
m_{DES}^2	0.015	$0.014^{+0.056}_{-0.057}$	D_{220}	7889	7399^{+4000}_{-3000}	$D_{\text{M}}(2.33)$	6006	5964^{+330}_{-340}
m_{DES}^3	0.005	$0.009^{+0.055}_{-0.053}$	D_{810}	3202	3022^{+1000}_{-1000}	$f\sigma_8(0.15)$	0.4397	$0.434^{+0.032}_{-0.031}$
m_{DES}^4	0.008	$0.011^{+0.056}_{-0.054}$	D_{1420}	1002	949^{+400}_{-300}	$\sigma_8(0.15)$	0.758	$0.745^{+0.076}_{-0.071}$
$A_{\text{IA,DES}}$	0.464	$0.45^{+0.51}_{-0.45}$	D_{2000}	290	275^{+200}_{-90}	$f\sigma_8(0.38)$	0.4652	$0.458^{+0.037}_{-0.035}$
$\alpha_{\text{IA,DES}}$	-1.6	—	$n_{\text{s},0.002}$	0.958	$0.958^{+0.052}_{-0.050}$	$\sigma_8(0.38)$	0.676	$0.664^{+0.070}_{-0.065}$
$\Delta z_{\text{l,DES}}^1$	0.0039	$0.004^{+0.019}_{-0.019}$	Y_{P}	0.24534	$0.24532^{+0.00055}_{-0.00057}$	$f\sigma_8(0.51)$	0.4675	$0.460^{+0.039}_{-0.036}$
$\Delta z_{\text{l,DES}}^2$	0.0015	$0.002^{+0.017}_{-0.017}$	$Y_{\text{P}}^{\text{BBN}}$	0.24667	$0.24665^{+0.00055}_{-0.00057}$	$\sigma_8(0.51)$	0.634	$0.622^{+0.067}_{-0.062}$
$\Delta z_{\text{l,DES}}^3$	0.0040	$0.004^{+0.017}_{-0.017}$	$10^5 D/\text{H}$	2.612	$2.62^{+0.27}_{-0.23}$	$f\sigma_8(0.61)$	0.4651	$0.458^{+0.040}_{-0.038}$
$\Delta z_{\text{l,DES}}^4$	0.0019	$0.002^{+0.023}_{-0.023}$	Age/Gyr	14.39	$14.29^{+0.79}_{-0.81}$	$\sigma_8(0.61)$	0.604	$0.593^{+0.064}_{-0.060}$
$\Delta z_{\text{l,DES}}^5$	0.0001	$0.000^{+0.025}_{-0.025}$	z_*	1088.46	$1088.7^{+2.3}_{-2.1}$	$f\sigma_8(2.33)$	0.3061	$0.300^{+0.034}_{-0.032}$
$\Delta z_{\text{s,DES}}^1$	-0.0014	$-0.004^{+0.036}_{-0.037}$	r_*	149.5	$148.8^{+5.5}_{-5.8}$	$\sigma_8(2.33)$	0.3171	$0.311^{+0.036}_{-0.034}$
$\Delta z_{\text{s,DES}}^2$	-0.0290	$-0.029^{+0.028}_{-0.028}$	$100\theta_*$	1.0190	$1.023^{+0.030}_{-0.028}$	$\chi_{6\text{DF}}^2$	0.039	$0.09 (\nu: 0.0)$
$\Delta z_{\text{s,DES}}^3$	0.0059	$0.007^{+0.025}_{-0.026}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.67	$14.55^{+0.96}_{-0.95}$	χ_{MGS}^2	2.27	$2.34 (\nu: 0.3)$
$\Delta z_{\text{s,DES}}^4$	-0.0249	$-0.023^{+0.049}_{-0.047}$	z_{drag}	1058.29	$1058.4^{+3.5}_{-3.7}$	χ_{DR12BAO}^2	4.64	$5.3 (\nu: 1.2)$
H_0	66.74	$67.0^{+2.9}_{-2.6}$	r_{drag}	152.3	$151.6^{+5.9}_{-6.1}$	χ_{DES}^2	501.4	$512.8 (\nu: 12.0)$
Ω_{Λ}	0.7197	$0.716^{+0.029}_{-0.033}$	k_{D}	0.1354	$0.1361^{+0.0067}_{-0.0061}$	χ_{prior}^2	1.2	$14.2 (\nu: 13.3)$
Ω_{m}	0.2803	$0.284^{+0.033}_{-0.029}$	$100\theta_{\text{D}}$	0.15816	$0.1587^{+0.0042}_{-0.0038}$	χ_{BAO}^2	6.95	$7.7 (\nu: 1.5)$
$\Omega_{\text{m}} h^2$	0.1249	$0.127^{+0.021}_{-0.018}$	z_{eq}	2968	3031^{+500}_{-400}			
$\Omega_{\text{m}} h^3$	0.0833	$0.086^{+0.017}_{-0.014}$	k_{eq}	0.00906	$0.0093^{+0.0015}_{-0.0013}$			

Best-fit $\chi_{\text{eff}}^2 = 509.62$; $\bar{\chi}_{\text{eff}}^2 = 534.74$; $R - 1 = 0.00577$

χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 2.27 DR12BAO: 4.64 WL - DES_1YR_final: 501.43

2.241 base_DESlens_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.0222^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	2.10	$2.05^{+0.79}_{-0.54}$	$H(0.15)$	76.2	77^{+9}_{-8}
$\Omega_c h^2$	0.146	$0.153^{+0.091}_{-0.064}$	z_{re}	8.26	$8.4^{+1.3}_{-1.1}$	$D_{\text{M}}(0.15)$	616	611^{+58}_{-61}
$100\theta_{\text{MC}}$	1.074	$1.078^{+0.073}_{-0.082}$	$10^9 A_{\text{s}}$	1.37	$1.36^{+1.8}_{-0.96}$	$H(0.38)$	87.6	89^{+10}_{-10}
$\ln(10^{10} A_{\text{s}})$	2.62	< 3.46	$10^9 A_{\text{s}} e^{-2\tau}$	1.23	$1.21^{+1.6}_{-0.86}$	$D_{\text{M}}(0.38)$	1461	1449^{+160}_{-160}
n_{s}	0.958	$0.959^{+0.052}_{-0.051}$	D_{40}	784	782^{+1000}_{-600}	$H(0.51)$	95.1	96^{+20}_{-10}
m_{DES}^1	0.015	$0.013^{+0.058}_{-0.058}$	D_{220}	3383	3439^{+8000}_{-3000}	$D_{\text{M}}(0.51)$	1888	1872^{+200}_{-200}
m_{DES}^2	0.013	$0.012^{+0.057}_{-0.058}$	D_{810}	1575	1546^{+2000}_{-1000}	$H(0.61)$	101.4	103^{+20}_{-10}
m_{DES}^3	0.001	$0.002^{+0.055}_{-0.055}$	D_{1420}	499	482^{+700}_{-400}	$D_{\text{M}}(0.61)$	2194	2175^{+300}_{-300}
m_{DES}^4	0.019	$0.019^{+0.056}_{-0.057}$	D_{2000}	144	139^{+200}_{-100}	$H(2.33)$	256	260^{+60}_{-50}
$A_{\text{IA,DES}}$	1.37	$1.0^{+1.5}_{-2.6}$	$n_{\text{s},0.002}$	0.958	$0.959^{+0.052}_{-0.051}$	$D_{\text{M}}(2.33)$	5408	5355^{+900}_{-800}
$\alpha_{\text{IA,DES}}$	2.7	—	Y_{P}	0.24531	$0.24531^{+0.00054}_{-0.00057}$	$f\sigma_8(0.15)$	0.4367	$0.429^{+0.039}_{-0.050}$
$\Delta z_{\text{s,DES}}^1$	0.0041	$0.003^{+0.037}_{-0.039}$	$Y_{\text{P}}^{\text{BBN}}$	0.24664	$0.24664^{+0.00054}_{-0.00057}$	$\sigma_8(0.15)$	0.685	$0.67^{+0.13}_{-0.12}$
$\Delta z_{\text{s,DES}}^2$	-0.0206	$-0.021^{+0.030}_{-0.031}$	$10^5 \text{D}/\text{H}$	2.623	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.38)$	0.447	$0.438^{+0.052}_{-0.059}$
$\Delta z_{\text{s,DES}}^3$	0.0075	$0.008^{+0.028}_{-0.027}$	Age/Gyr	12.94	$12.8^{+2.2}_{-2.0}$	$\sigma_8(0.38)$	0.604	$0.59^{+0.13}_{-0.11}$
$\Delta z_{\text{s,DES}}^4$	-0.017	$-0.016^{+0.053}_{-0.054}$	z_*	1092.3	$1092.8^{+6.6}_{-5.5}$	$f\sigma_8(0.51)$	0.443	$0.433^{+0.059}_{-0.063}$
H_0	70.2	$70.8^{+7.1}_{-5.7}$	r_*	138.5	137^{+20}_{-20}	$\sigma_8(0.51)$	0.564	$0.55^{+0.12}_{-0.10}$
Ω_{Λ}	0.658	$0.652^{+0.089}_{-0.10}$	$100\theta_*$	1.074	$1.078^{+0.073}_{-0.081}$	$f\sigma_8(0.61)$	0.436	$0.426^{+0.063}_{-0.065}$
Ω_{m}	0.342	$0.348^{+0.10}_{-0.089}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.89	$12.8^{+2.6}_{-2.2}$	$\sigma_8(0.61)$	0.536	$0.52^{+0.12}_{-0.10}$
$\Omega_{\text{m}} h^2$	0.168	$0.176^{+0.091}_{-0.064}$	z_{drag}	1061.2	$1061.7^{+6.4}_{-5.8}$	$f\sigma_8(2.33)$	0.269	$0.263^{+0.064}_{-0.052}$
$\Omega_{\text{m}} h^3$	0.118	$0.125^{+0.081}_{-0.052}$	r_{drag}	141.0	140^{+20}_{-20}	$\sigma_8(2.33)$	0.276	$0.270^{+0.069}_{-0.056}$
σ_8	0.744	$0.73^{+0.14}_{-0.12}$	k_{D}	0.1473	$0.149^{+0.021}_{-0.018}$	$\chi_{6\text{DF}}^2$	0.06	$0.17 (\nu: 0.0)$
S_8	0.794	$0.781^{+0.067}_{-0.091}$	$100\theta_{\text{D}}$	0.1654	$0.166^{+0.010}_{-0.010}$	χ_{MGS}^2	1.10	$1.20 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4350	$0.428^{+0.037}_{-0.050}$	z_{eq}	4008	4189^{+2000}_{-2000}	χ_{DR12BAO}^2	2.31	$3.5 (\nu: 1.2)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.569	$0.558^{+0.069}_{-0.074}$	k_{eq}	0.0122	$0.0128^{+0.0066}_{-0.0047}$	χ_{DES}^2	229.5	$233.6 (\nu: 4.1)$
$\sigma_8/h^{0.5}$	0.888	$0.87^{+0.20}_{-0.17}$	$100\theta_{\text{eq}}$	0.743	$0.73^{+0.21}_{-0.16}$	χ_{prior}^2	0.5	$9.6 (\nu: 9.1)$
$r_{\text{drag}} h$	99.00	$98.9^{+4.7}_{-4.5}$	$100\theta_{\text{s,eq}}$	0.413	$0.409^{+0.11}_{-0.085}$	χ_{BAO}^2	3.46	$4.9 (\nu: 1.7)$

Best-fit $\chi_{\text{eff}}^2 = 233.41$; $\bar{\chi}_{\text{eff}}^2 = 248.10$; $R - 1 = 0.01028$

χ_{eff}^2 : BAO - 6DF: 0.06 MGS: 1.10 DR12BAO: 2.31 WL - DES_1YR_final: 229.45

2.242 base_DES_lenspriors_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.0222^{+0.0013}_{-0.0012}$	σ_8	0.8009	$0.799^{+0.034}_{-0.033}$	$100\theta_{\text{eq}}$	0.865	$0.866^{+0.053}_{-0.052}$
$\Omega_c h^2$	0.1063	$0.106^{+0.015}_{-0.013}$	S_8	0.7833	$0.780^{+0.038}_{-0.039}$	$100\theta_{\text{s,eq}}$	0.4758	$0.476^{+0.027}_{-0.027}$
$100\theta_{\text{MC}}$	1.0251	$1.025^{+0.022}_{-0.021}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4290	$0.427^{+0.021}_{-0.022}$	$H(0.15)$	71.92	$72.0^{+2.8}_{-2.7}$
$\ln(10^{10} A_{\text{s}})$	3.180	$3.18^{+0.17}_{-0.17}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5862	$0.584^{+0.025}_{-0.025}$	$D_{\text{M}}(0.15)$	648.1	648^{+25}_{-24}
n_{s}	0.959	$0.959^{+0.051}_{-0.051}$	$\sigma_8/h^{0.5}$	0.9778	$0.975^{+0.040}_{-0.040}$	$H(0.38)$	81.26	$81.3^{+3.3}_{-3.1}$
b_{DES}^1	1.484	$1.48^{+0.19}_{-0.20}$	$r_{\text{drag}} h$	101.33	$101.5^{+2.6}_{-2.6}$	$D_{\text{M}}(0.38)$	1552	1551^{+60}_{-59}
b_{DES}^2	1.686	$1.69^{+0.14}_{-0.14}$	$\langle d^2 \rangle^{1/2}$	2.528	$2.52^{+0.11}_{-0.10}$	$H(0.51)$	87.50	$87.5^{+3.7}_{-3.5}$
b_{DES}^3	1.672	$1.67^{+0.12}_{-0.12}$	z_{re}	7.527	$7.53^{+0.38}_{-0.34}$	$D_{\text{M}}(0.51)$	2014	2013^{+79}_{-77}
b_{DES}^4	2.021	$2.02^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	2.405	$2.41^{+0.44}_{-0.38}$	$H(0.61)$	92.74	$92.7^{+4.0}_{-3.7}$
b_{DES}^5	2.102	$2.10^{+0.20}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	2.155	$2.16^{+0.40}_{-0.34}$	$D_{\text{M}}(0.61)$	2347	2346^{+92}_{-91}
m_{DES}^1	0.013	$0.012^{+0.057}_{-0.058}$	D_{40}	1464	1464^{+200}_{-200}	$H(2.33)$	225.7	226^{+12}_{-11}
m_{DES}^2	0.017	$0.014^{+0.058}_{-0.057}$	D_{220}	6995	7009^{+2000}_{-1000}	$D_{\text{M}}(2.33)$	5937	5939^{+260}_{-260}
m_{DES}^3	0.008	$0.009^{+0.052}_{-0.052}$	D_{810}	2913	2910^{+500}_{-500}	$f\sigma_8(0.15)$	0.4355	$0.434^{+0.020}_{-0.021}$
m_{DES}^4	0.0098	$0.011^{+0.053}_{-0.055}$	D_{1420}	919	917^{+200}_{-200}	$\sigma_8(0.15)$	0.7425	$0.741^{+0.033}_{-0.032}$
$A_{\text{IA,DES}}$	0.458	$0.45^{+0.49}_{-0.43}$	D_{2000}	261	262^{+70}_{-50}	$f\sigma_8(0.38)$	0.4590	$0.458^{+0.019}_{-0.020}$
$\alpha_{\text{IA,DES}}$	-1.5	—	$n_{\text{s},0.002}$	0.959	$0.959^{+0.051}_{-0.051}$	$\sigma_8(0.38)$	0.6609	$0.660^{+0.030}_{-0.029}$
$\Delta z_{\text{l,DES}}^1$	0.0045	$0.004^{+0.019}_{-0.019}$	Y_{P}	0.24533	$0.24531^{+0.00053}_{-0.00054}$	$f\sigma_8(0.51)$	0.4605	$0.459^{+0.019}_{-0.019}$
$\Delta z_{\text{l,DES}}^2$	0.0013	$0.002^{+0.017}_{-0.017}$	$Y_{\text{P}}^{\text{BBN}}$	0.24666	$0.24664^{+0.00054}_{-0.00054}$	$\sigma_8(0.51)$	0.6197	$0.619^{+0.029}_{-0.028}$
$\Delta z_{\text{l,DES}}^3$	0.0037	$0.004^{+0.017}_{-0.017}$	$10^5 D/\text{H}$	2.615	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.61)$	0.4576	$0.456^{+0.019}_{-0.019}$
$\Delta z_{\text{l,DES}}^4$	0.0015	$0.002^{+0.024}_{-0.023}$	Age/Gyr	14.22	$14.23^{+0.62}_{-0.62}$	$\sigma_8(0.61)$	0.5904	$0.589^{+0.028}_{-0.027}$
$\Delta z_{\text{l,DES}}^5$	0.0000	$0.000^{+0.025}_{-0.025}$	z_*	1088.88	$1088.9^{+2.0}_{-1.7}$	$f\sigma_8(2.33)$	0.2988	$0.298^{+0.015}_{-0.014}$
$\Delta z_{\text{s,DES}}^1$	-0.0020	$-0.004^{+0.036}_{-0.038}$	r_*	148.25	$148.3^{+4.1}_{-4.3}$	$\sigma_8(2.33)$	0.3091	$0.309^{+0.016}_{-0.015}$
$\Delta z_{\text{s,DES}}^2$	-0.0286	$-0.029^{+0.028}_{-0.028}$	$100\theta_*$	1.0253	$1.025^{+0.022}_{-0.021}$	χ_{lensing}^2	7.73	8.8 (ν : 0.9)
$\Delta z_{\text{s,DES}}^3$	0.0064	$0.007^{+0.025}_{-0.025}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.46	$14.47^{+0.70}_{-0.70}$	$\chi_{6\text{DF}}^2$	0.021	0.075 (ν : 0.0)
$\Delta z_{\text{s,DES}}^4$	-0.0238	$-0.023^{+0.048}_{-0.047}$	z_{drag}	1058.56	$1058.5^{+3.3}_{-3.3}$	χ_{MGS}^2	2.12	2.27 (ν : 0.2)
H_0	67.08	$67.1^{+2.6}_{-2.5}$	r_{drag}	151.05	$151.1^{+4.4}_{-4.5}$	χ_{DR12BAO}^2	4.25	5.1 (ν : 1.0)
Ω_{Λ}	0.7130	$0.714^{+0.021}_{-0.023}$	k_{D}	0.1367	$0.1366^{+0.0052}_{-0.0048}$	χ_{DES}^2	502.6	512.5 (ν : 9.8)
Ω_{m}	0.2870	$0.286^{+0.023}_{-0.021}$	$100\theta_{\text{D}}$	0.15900	$0.1590^{+0.0032}_{-0.0031}$	χ_{prior}^2	1.1	13.9 (ν : 13.1)
$\Omega_{\text{m}} h^2$	0.1291	$0.129^{+0.015}_{-0.013}$	z_{eq}	3071	3067^{+400}_{-300}	χ_{BAO}^2	6.39	7.4 (ν : 1.1)
$\Omega_{\text{m}} h^3$	0.0866	$0.087^{+0.013}_{-0.011}$	k_{eq}	0.00937	$0.00936^{+0.0011}_{-0.00095}$			

Best-fit $\chi_{\text{eff}}^2 = 517.88$; $\bar{\chi}_{\text{eff}}^2 = 542.64$; $R - 1 = 0.00500$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.12 DR12BAO: 4.25 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.73 WL - DES_1YR_final: 502.63

2.243 base_DESlens_lenspriors_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.0222^{+0.0013}_{-0.0013}$	z_{re}	7.671	$7.65^{+0.44}_{-0.42}$	$H(0.38)$	82.42	$82.3^{+4.0}_{-3.6}$
$\Omega_c h^2$	0.1133	$0.112^{+0.020}_{-0.017}$	$10^9 A_s$	2.242	$2.27^{+0.49}_{-0.41}$	$D_M(0.38)$	1534	1537^{+65}_{-66}
$100\theta_{\text{MC}}$	1.0350	$1.033^{+0.027}_{-0.026}$	$10^9 A_s e^{-2\tau}$	2.009	$2.04^{+0.44}_{-0.37}$	$H(0.51)$	88.90	$88.7^{+4.5}_{-4.1}$
$\ln(10^{10} A_s)$	3.110	$3.12^{+0.20}_{-0.20}$	D_{40}	1353	1371^{+300}_{-200}	$D_M(0.51)$	1990	1993^{+85}_{-88}
n_s	0.957	$0.958^{+0.050}_{-0.050}$	D_{220}	6328	6454^{+2000}_{-1000}	$H(0.61)$	94.33	$94.1^{+5.0}_{-4.5}$
m_{DES}^1	0.015	$0.014^{+0.057}_{-0.059}$	D_{810}	2715	2747^{+600}_{-600}	$D_M(0.61)$	2317	2321^{+100}_{-100}
m_{DES}^2	0.014	$0.013^{+0.058}_{-0.058}$	D_{1420}	864	872^{+200}_{-200}	$H(2.33)$	231.4	230^{+16}_{-14}
m_{DES}^3	0.000	$0.000^{+0.053}_{-0.054}$	D_{2000}	243	247^{+70}_{-50}	$D_M(2.33)$	5831	5849^{+300}_{-310}
m_{DES}^4	0.016	$0.015^{+0.053}_{-0.054}$	$n_{s,0.002}$	0.957	$0.958^{+0.050}_{-0.050}$	$f\sigma_8(0.15)$	0.4461	$0.443^{+0.025}_{-0.027}$
$A_{\text{IA,DES}}$	1.30	$1.0^{+1.4}_{-1.5}$	Y_{P}	0.24532	$0.24531^{+0.00055}_{-0.00054}$	$\sigma_8(0.15)$	0.7475	$0.746^{+0.035}_{-0.034}$
$\alpha_{\text{IA,DES}}$	2.8	—	$Y_{\text{P}}^{\text{BBN}}$	0.24665	$0.24664^{+0.00055}_{-0.00054}$	$f\sigma_8(0.38)$	0.4675	$0.465^{+0.023}_{-0.025}$
$\Delta z_{s,\text{DES}}^1$	0.0030	$0.003^{+0.037}_{-0.038}$	$10^5 D/H$	2.620	$2.62^{+0.25}_{-0.23}$	$\sigma_8(0.38)$	0.6641	$0.663^{+0.031}_{-0.030}$
$\Delta z_{s,\text{DES}}^2$	-0.0192	$-0.020^{+0.030}_{-0.029}$	Age/Gyr	13.96	$14.01^{+0.72}_{-0.74}$	$f\sigma_8(0.51)$	0.4677	$0.466^{+0.022}_{-0.023}$
$\Delta z_{s,\text{DES}}^3$	0.0068	$0.007^{+0.026}_{-0.027}$	z_*	1089.55	$1089.4^{+2.2}_{-2.0}$	$\sigma_8(0.51)$	0.6222	$0.621^{+0.029}_{-0.029}$
$\Delta z_{s,\text{DES}}^4$	-0.019	$-0.018^{+0.052}_{-0.051}$	r_*	146.3	$146.7^{+5.0}_{-5.3}$	$f\sigma_8(0.61)$	0.4639	$0.462^{+0.022}_{-0.022}$
H_0	67.64	$67.6^{+2.9}_{-2.6}$	$100\theta_*$	1.0352	$1.033^{+0.027}_{-0.026}$	$\sigma_8(0.61)$	0.5924	$0.592^{+0.028}_{-0.028}$
Ω_Λ	0.7025	$0.705^{+0.026}_{-0.029}$	$D_M(z_*)/\text{Gpc}$	14.14	$14.20^{+0.84}_{-0.86}$	$f\sigma_8(2.33)$	0.2993	$0.299^{+0.015}_{-0.014}$
Ω_m	0.2975	$0.295^{+0.029}_{-0.026}$	z_{drag}	1059.02	$1058.9^{+3.2}_{-3.4}$	$\sigma_8(2.33)$	0.3092	$0.309^{+0.016}_{-0.015}$
$\Omega_m h^2$	0.1361	$0.135^{+0.020}_{-0.017}$	r_{drag}	149.1	$149.5^{+5.3}_{-5.5}$	χ_{lensing}^2	7.72	8.9 ($\nu: 1.1$)
$\Omega_m h^3$	0.0921	$0.091^{+0.017}_{-0.014}$	k_{D}	0.1386	$0.1383^{+0.0062}_{-0.0058}$	$\chi_{6\text{DF}}^2$	0.004	0.057 ($\nu: 0.0$)
σ_8	0.8074	$0.805^{+0.037}_{-0.036}$	$100\theta_{\text{D}}$	0.16031	$0.1601^{+0.0038}_{-0.0037}$	χ_{MGS}^2	1.89	2.06 ($\nu: 0.2$)
S_8	0.804	$0.799^{+0.049}_{-0.052}$	z_{eq}	3238	3210^{+500}_{-400}	χ_{DR12BAO}^2	3.71	4.7 ($\nu: 1.1$)
$\sigma_8 \Omega_m^{0.5}$	0.4404	$0.437^{+0.027}_{-0.028}$	k_{eq}	0.00988	$0.0098^{+0.0015}_{-0.0012}$	χ_{DES}^2	228.9	232.1 ($\nu: 2.6$)
$\sigma_8 \Omega_m^{0.25}$	0.5963	$0.594^{+0.029}_{-0.031}$	$100\theta_{\text{eq}}$	0.839	$0.844^{+0.065}_{-0.065}$	χ_{prior}^2	0.5	9.3 ($\nu: 8.3$)
$\sigma_8/h^{0.5}$	0.9817	$0.979^{+0.042}_{-0.042}$	$100\theta_{s,\text{eq}}$	0.4626	$0.465^{+0.033}_{-0.033}$	χ_{BAO}^2	5.60	6.8 ($\nu: 1.2$)
$r_{\text{drag}} h$	100.86	$101.0^{+2.9}_{-2.7}$	$H(0.15)$	72.70	$72.6^{+3.2}_{-2.9}$			
$\langle d^2 \rangle^{1/2}$	2.493	$2.49^{+0.12}_{-0.12}$	$D_M(0.15)$	641.9	643^{+26}_{-27}			

Best-fit $\chi_{\text{eff}}^2 = 242.74$; $\bar{\chi}_{\text{eff}}^2 = 257.11$; $R - 1 = 0.00702$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.89 DR12BAO: 3.71 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8_CMBmargd: 7.71 WL - DES_1YR_final: 228.94

2.244 base_DES_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_m	0.238	$0.256^{+0.089}_{-0.062}$	m_{DES}^3	0.008	$0.008^{+0.055}_{-0.054}$	$\Delta z_{s,\text{DES}}^4$	-0.0268	$-0.025^{+0.049}_{-0.048}$
Ω_b	0.0660	—	m_{DES}^4	0.0098	$0.010^{+0.055}_{-0.053}$	$\Omega_b h^2$	0.0543	$0.029^{+0.025}_{-0.020}$
H_0	90.8	—	$A_{\text{IA,DES}}$	0.53	$0.49^{+0.56}_{-0.47}$	$\Omega_c h^2$	0.1409	$0.112^{+0.053}_{-0.046}$
$10^9 A_s$	2.72	$2.9^{+1.8}_{-1.2}$	$\alpha_{\text{IA,DES}}$	-1.1	—	Ω_Λ	0.762	$0.744^{+0.062}_{-0.089}$
n_s	1.026	—	$\Delta z_{1,\text{DES}}^1$	0.0041	$0.005^{+0.020}_{-0.019}$	$\ln(10^{10} A_s)$	3.30	$3.33^{+0.51}_{-0.52}$
b_{DES}^1	1.307	$1.37^{+0.37}_{-0.29}$	$\Delta z_{1,\text{DES}}^2$	0.0020	$0.002^{+0.017}_{-0.017}$	σ_8	0.908	$0.86^{+0.17}_{-0.16}$
b_{DES}^2	1.504	$1.57^{+0.37}_{-0.28}$	$\Delta z_{1,\text{DES}}^3$	0.0045	$0.004^{+0.017}_{-0.017}$	S_8	0.808	$0.793^{+0.062}_{-0.064}$
b_{DES}^3	1.493	$1.55^{+0.36}_{-0.27}$	$\Delta z_{1,\text{DES}}^4$	0.0032	$0.003^{+0.023}_{-0.023}$	$\sigma_8 \Omega_m^{0.5}$	0.4426	$0.434^{+0.034}_{-0.035}$
b_{DES}^4	1.805	$1.88^{+0.44}_{-0.33}$	$\Delta z_{1,\text{DES}}^5$	0.0007	$0.001^{+0.025}_{-0.025}$	$\sigma_8 \Omega_m^{0.25}$	0.634	$0.612^{+0.076}_{-0.080}$
b_{DES}^5	1.867	$1.94^{+0.48}_{-0.37}$	$\Delta z_{s,\text{DES}}^1$	-0.0012	$-0.004^{+0.036}_{-0.036}$	χ_{DES}^2	498.6	511.6 ($\nu: 12.6$)
m_{DES}^1	0.014	$0.012^{+0.060}_{-0.059}$	$\Delta z_{s,\text{DES}}^2$	-0.0290	$-0.030^{+0.027}_{-0.028}$	χ_{prior}^2	1.3	12.4 ($\nu: 11.8$)
m_{DES}^2	0.015	$0.015^{+0.058}_{-0.057}$	$\Delta z_{s,\text{DES}}^3$	0.0064	$0.007^{+0.025}_{-0.025}$			

Best-fit $\chi^2_{\text{eff}} = 499.92$; $\bar{\chi}^2_{\text{eff}} = 523.99$; $R - 1 = 0.00668$
 χ^2_{eff} : WL - DES_1YR_final: 498.64

2.245 base_DESlens_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.256	$0.28^{+0.20}_{-0.12}$	$A_{\text{IA,DES}}$	1.33	$0.7^{+1.7}_{-4.8}$	$\ln(10^{10} A_{\text{s}})$	3.18	$3.13^{+0.82}_{-1.2}$
Ω_b	0.0380	—	$\alpha_{\text{IA,DES}}$	3.3	—	σ_8	0.878	$0.84^{+0.25}_{-0.26}$
H_0	72.8	—	$\Delta z_{\text{s,DES}}^1$	0.0027	$0.002^{+0.038}_{-0.039}$	S_8	0.811	$0.790^{+0.075}_{-0.14}$
$10^9 A_{\text{s}}$	2.41	—	$\Delta z_{\text{s,DES}}^2$	-0.0193	$-0.020^{+0.031}_{-0.031}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.444	$0.433^{+0.041}_{-0.076}$
n_{s}	0.975	—	$\Delta z_{\text{s,DES}}^3$	0.0080	$0.008^{+0.028}_{-0.028}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.625	$0.60^{+0.11}_{-0.13}$
m_{DES}^1	0.015	$0.013^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	-0.016	$-0.016^{+0.053}_{-0.053}$	χ_{DES}^2	228.7	$233.3 (\nu: 3.7)$
m_{DES}^2	0.013	$0.013^{+0.057}_{-0.057}$	$\Omega_{\text{b}} h^2$	0.0201	$0.027^{+0.026}_{-0.017}$	χ_{prior}^2	0.3	$7.4 (\nu: 6.9)$
m_{DES}^3	0.003	$0.003^{+0.055}_{-0.054}$	$\Omega_{\text{c}} h^2$	0.115	$0.122^{+0.10}_{-0.060}$			
m_{DES}^4	0.017	$0.017^{+0.056}_{-0.055}$	Ω_{Λ}	0.744	$0.72^{+0.12}_{-0.20}$			

Best-fit $\chi^2_{\text{eff}} = 229.04$; $\bar{\chi}^2_{\text{eff}} = 240.73$; $R - 1 = 0.00678$
 χ^2_{eff} : WL - DES_1YR_final: 228.74

2.246 base_DESwt_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.274	$0.275^{+0.091}_{-0.076}$	m_{DES}^3	0.019	$0.022^{+0.057}_{-0.056}$	$\Delta z_{\text{s,DES}}^4$	-0.0264	$-0.024^{+0.050}_{-0.049}$
Ω_b	0.0599	—	m_{DES}^4	0.005	$0.007^{+0.057}_{-0.056}$	$\Omega_{\text{b}} h^2$	0.0406	$0.026^{+0.028}_{-0.017}$
H_0	82.3	—	$A_{\text{IA,DES}}$	0.381	$0.43^{+0.53}_{-0.45}$	$\Omega_{\text{c}} h^2$	0.1445	$0.107^{+0.057}_{-0.041}$
$10^9 A_{\text{s}}$	2.20	$2.8^{+1.9}_{-1.2}$	$\alpha_{\text{IA,DES}}$	-2.8	—	Ω_{Λ}	0.726	$0.725^{+0.076}_{-0.091}$
n_{s}	0.877	—	$\Delta z_{\text{l,DES}}^1$	0.0028	$0.004^{+0.020}_{-0.020}$	$\ln(10^{10} A_{\text{s}})$	3.09	$3.29^{+0.56}_{-0.53}$
b_{DES}^1	1.372	$1.40^{+0.41}_{-0.33}$	$\Delta z_{\text{l,DES}}^2$	0.0018	$0.002^{+0.017}_{-0.018}$	σ_8	0.829	$0.82^{+0.20}_{-0.17}$
b_{DES}^2	1.600	$1.63^{+0.43}_{-0.34}$	$\Delta z_{\text{l,DES}}^3$	0.0051	$0.005^{+0.018}_{-0.017}$	S_8	0.792	$0.785^{+0.092}_{-0.091}$
b_{DES}^3	1.587	$1.62^{+0.41}_{-0.33}$	$\Delta z_{\text{l,DES}}^4$	0.0035	$0.003^{+0.023}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.434	$0.430^{+0.050}_{-0.050}$
b_{DES}^4	1.914	$1.95^{+0.49}_{-0.40}$	$\Delta z_{\text{l,DES}}^5$	0.0009	$0.000^{+0.025}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.599	$0.595^{+0.098}_{-0.091}$
b_{DES}^5	1.973	$2.01^{+0.53}_{-0.43}$	$\Delta z_{\text{s,DES}}^1$	0.0003	$-0.004^{+0.039}_{-0.037}$	χ_{DES}^2	249.6	$261.2 (\nu: 11.7)$
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.058}$	$\Delta z_{\text{s,DES}}^2$	-0.0303	$-0.031^{+0.028}_{-0.029}$	χ_{prior}^2	1.6	$13.1 (\nu: 12.9)$
m_{DES}^2	0.0099	$0.009^{+0.058}_{-0.057}$	$\Delta z_{\text{s,DES}}^3$	0.0067	$0.008^{+0.026}_{-0.025}$			

Best-fit $\chi^2_{\text{eff}} = 251.17$; $\bar{\chi}^2_{\text{eff}} = 274.25$; $R - 1 = 0.00686$
 χ^2_{eff} : WL - DES_1YR_final: 249.62

2.247 base_DES_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.261	$0.269^{+0.059}_{-0.048}$	m_{DES}^3	0.014	$0.013^{+0.055}_{-0.052}$	$\Delta z_{\text{s,DES}}^4$	-0.0228	$-0.021^{+0.048}_{-0.047}$
Ω_b	0.0634	—	m_{DES}^4	0.014	$0.014^{+0.054}_{-0.055}$	$\Omega_{\text{b}} h^2$	0.0408	$0.029^{+0.025}_{-0.020}$
H_0	80.2	—	$A_{\text{IA,DES}}$	0.49	$0.46^{+0.53}_{-0.47}$	$\Omega_{\text{c}} h^2$	0.1262	$0.114^{+0.053}_{-0.045}$
$10^9 A_{\text{s}}$	2.44	$2.51^{+1.1}_{-0.80}$	$\alpha_{\text{IA,DES}}$	-0.9	—	Ω_{Λ}	0.739	$0.731^{+0.048}_{-0.059}$
n_{s}	1.021	—	$\Delta z_{\text{l,DES}}^1$	0.0039	$0.004^{+0.019}_{-0.020}$	$\ln(10^{10} A_{\text{s}})$	3.195	$3.21^{+0.38}_{-0.34}$
b_{DES}^1	1.416	$1.44^{+0.23}_{-0.22}$	$\Delta z_{\text{l,DES}}^2$	0.0018	$0.002^{+0.017}_{-0.017}$	σ_8	0.840	$0.822^{+0.082}_{-0.080}$
b_{DES}^2	1.628	$1.65^{+0.20}_{-0.19}$	$\Delta z_{\text{l,DES}}^3$	0.0042	$0.004^{+0.017}_{-0.017}$	S_8	0.7831	$0.778^{+0.039}_{-0.039}$
b_{DES}^3	1.618	$1.64^{+0.18}_{-0.17}$	$\Delta z_{\text{l,DES}}^4$	0.0019	$0.002^{+0.023}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4289	$0.426^{+0.021}_{-0.022}$
b_{DES}^4	1.960	$1.98^{+0.21}_{-0.19}$	$\Delta z_{\text{l,DES}}^5$	0.0002	$0.000^{+0.025}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6003	$0.592^{+0.037}_{-0.037}$
b_{DES}^5	2.038	$2.05^{+0.25}_{-0.24}$	$\Delta z_{\text{s,DES}}^1$	-0.0020	$-0.004^{+0.037}_{-0.038}$	χ_{lensing}^2	7.76	$9.0 (\nu: 1.2)$
m_{DES}^1	0.013	$0.012^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^2$	-0.0284	$-0.029^{+0.028}_{-0.029}$	χ_{DES}^2	501.3	$512.3 (\nu: 10.1)$
m_{DES}^2	0.016	$0.015^{+0.057}_{-0.057}$	$\Delta z_{\text{s,DES}}^3$	0.0079	$0.008^{+0.024}_{-0.024}$	χ_{prior}^2	0.99	$12.1 (\nu: 11.3)$

Best-fit $\chi^2_{\text{eff}} = 510.00$; $\bar{\chi}^2_{\text{eff}} = 533.39$; $R - 1 = 0.00725$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.76 WL - DES_1YR_final: 501.25

2.248 base_DESlens_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.284	$0.277^{+0.084}_{-0.087}$	$A_{\text{IA,DES}}$	1.33	$0.8^{+1.7}_{-3.6}$	$\ln(10^{10} A_{\text{s}})$	3.406	$3.17^{+0.43}_{-0.35}$
Ω_b	0.0564	—	$\alpha_{\text{IA,DES}}$	3.3	—	σ_8	0.827	$0.826^{+0.11}_{-0.093}$
H_0	63.5	—	$\Delta z_{\text{s,DES}}^1$	0.0027	$0.002^{+0.038}_{-0.038}$	S_8	0.805	$0.790^{+0.053}_{-0.084}$
$10^9 A_{\text{s}}$	3.01	$2.41^{+1.1}_{-0.82}$	$\Delta z_{\text{s,DES}}^2$	-0.0192	$-0.020^{+0.030}_{-0.031}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4407	$0.433^{+0.029}_{-0.046}$
n_{s}	1.070	—	$\Delta z_{\text{s,DES}}^3$	0.0081	$0.008^{+0.027}_{-0.027}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6036	$0.598^{+0.044}_{-0.043}$
m_{DES}^1	0.015	$0.013^{+0.058}_{-0.058}$	$\Delta z_{\text{s,DES}}^4$	-0.016	$-0.016^{+0.052}_{-0.051}$	χ^2_{lensing}	7.37	$9.3 (\nu: 1.4)$
m_{DES}^2	0.014	$0.013^{+0.058}_{-0.055}$	$\Omega_{\text{b}} h^2$	0.0228	$0.027^{+0.027}_{-0.018}$	χ^2_{DES}	228.9	$232.6 (\nu: 2.9)$
m_{DES}^3	0.002	$0.004^{+0.055}_{-0.055}$	$\Omega_{\text{c}} h^2$	0.091	$0.116^{+0.060}_{-0.043}$	χ^2_{prior}	0.4	$7.3 (\nu: 6.8)$
m_{DES}^4	0.018	$0.018^{+0.055}_{-0.053}$	Ω_{Λ}	0.716	$0.723^{+0.087}_{-0.084}$			

Best-fit $\chi^2_{\text{eff}} = 236.62$; $\bar{\chi}^2_{\text{eff}} = 249.24$; $R - 1 = 0.00861$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.37 WL - DES_1YR_final: 228.89

2.249 base_DESwt_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.273	$0.277^{+0.087}_{-0.058}$	m_{DES}^3	0.022	$0.023^{+0.055}_{-0.054}$	$\Delta z_{\text{s,DES}}^4$	-0.0229	$-0.022^{+0.048}_{-0.048}$
Ω_b	0.0606	—	m_{DES}^4	0.009	$0.009^{+0.056}_{-0.054}$	$\Omega_{\text{b}} h^2$	0.0392	$0.027^{+0.027}_{-0.019}$
H_0	80.5	—	$A_{\text{IA,DES}}$	0.399	$0.43^{+0.53}_{-0.44}$	$\Omega_{\text{c}} h^2$	0.137	$0.112^{+0.057}_{-0.044}$
$10^9 A_{\text{s}}$	2.12	$2.46^{+1.1}_{-0.77}$	$\alpha_{\text{IA,DES}}$	-2.4	—	Ω_{Λ}	0.727	$0.723^{+0.058}_{-0.087}$
n_{s}	0.941	—	$\Delta z_{\text{l,DES}}^1$	0.0028	$0.003^{+0.019}_{-0.019}$	$\ln(10^{10} A_{\text{s}})$	3.056	$3.19^{+0.40}_{-0.32}$
b_{DES}^1	1.424	$1.43^{+0.26}_{-0.24}$	$\Delta z_{\text{l,DES}}^2$	0.0013	$0.002^{+0.017}_{-0.017}$	σ_8	0.810	$0.806^{+0.090}_{-0.092}$
b_{DES}^2	1.661	$1.67^{+0.23}_{-0.20}$	$\Delta z_{\text{l,DES}}^3$	0.0043	$0.004^{+0.017}_{-0.017}$	S_8	0.773	$0.772^{+0.052}_{-0.050}$
b_{DES}^3	1.653	$1.66^{+0.22}_{-0.18}$	$\Delta z_{\text{l,DES}}^4$	0.0027	$0.003^{+0.024}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4231	$0.423^{+0.028}_{-0.027}$
b_{DES}^4	1.999	$2.01^{+0.24}_{-0.21}$	$\Delta z_{\text{l,DES}}^5$	-0.0001	$0.000^{+0.025}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5854	$0.584^{+0.040}_{-0.038}$
b_{DES}^5	2.071	$2.08^{+0.28}_{-0.26}$	$\Delta z_{\text{s,DES}}^1$	-0.0007	$-0.004^{+0.038}_{-0.038}$	χ^2_{lensing}	7.87	$9.3 (\nu: 1.3)$
m_{DES}^1	0.012	$0.011^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^2$	-0.0300	$-0.030^{+0.027}_{-0.029}$	χ^2_{DES}	251.2	$261.4 (\nu: 10.2)$
m_{DES}^2	0.009	$0.009^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^3$	0.0083	$0.009^{+0.025}_{-0.025}$	χ^2_{prior}	1.3	$12.7 (\nu: 12.2)$

Best-fit $\chi^2_{\text{eff}} = 260.41$; $\bar{\chi}^2_{\text{eff}} = 283.37$; $R - 1 = 0.00571$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.87 WL - DES_1YR_final: 251.25

2.250 base_DES_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.2934	$0.283^{+0.045}_{-0.039}$	m_{DES}^4	0.009	$0.011^{+0.054}_{-0.053}$	$\Omega_c h^2$	0.1110	$0.104^{+0.029}_{-0.023}$
Ω_b	0.04868	$0.0497^{+0.0047}_{-0.0047}$	$A_{\text{IA,DES}}$	0.443	$0.45^{+0.52}_{-0.45}$	Ω_{Λ}	0.7066	$0.717^{+0.039}_{-0.045}$
H_0	67.54	$66.9^{+3.3}_{-3.0}$	$\alpha_{\text{IA,DES}}$	-1.8	—	$\ln(10^{10} A_{\text{s}})$	3.144	$3.23^{+0.50}_{-0.49}$
$10^9 A_{\text{s}}$	2.32	$2.6^{+1.6}_{-1.0}$	$\Delta z_{\text{l,DES}}^1$	0.0036	$0.004^{+0.019}_{-0.019}$	σ_8	0.794	$0.806^{+0.098}_{-0.096}$
n_{s}	0.901	—	$\Delta z_{\text{l,DES}}^2$	0.0011	$0.002^{+0.017}_{-0.017}$	S_8	0.785	$0.782^{+0.059}_{-0.061}$
b_{DES}^1	1.477	$1.46^{+0.27}_{-0.24}$	$\Delta z_{\text{l,DES}}^3$	0.0039	$0.004^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4299	$0.428^{+0.033}_{-0.033}$
b_{DES}^2	1.682	$1.67^{+0.25}_{-0.22}$	$\Delta z_{\text{l,DES}}^4$	0.0020	$0.002^{+0.023}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.584	$0.588^{+0.055}_{-0.056}$
b_{DES}^3	1.663	$1.66^{+0.25}_{-0.21}$	$\Delta z_{\text{l,DES}}^5$	0.0002	$0.000^{+0.025}_{-0.025}$	$\chi_{6\text{DF}}^2$	0.014	$0.09 (\nu: 0.0)$
b_{DES}^4	2.006	$2.00^{+0.33}_{-0.26}$	$\Delta z_{\text{s,DES}}^1$	-0.0009	$-0.004^{+0.036}_{-0.036}$	χ_{MGS}^2	2.04	$2.31 (\nu: 0.3)$
b_{DES}^5	2.072	$2.07^{+0.37}_{-0.31}$	$\Delta z_{\text{s,DES}}^2$	-0.0286	$-0.030^{+0.027}_{-0.029}$	χ_{DR12BAO}^2	3.83	$5.5 (\nu: 1.6)$
m_{DES}^1	0.013	$0.012^{+0.060}_{-0.059}$	$\Delta z_{\text{s,DES}}^3$	0.0059	$0.007^{+0.025}_{-0.025}$	χ_{DES}^2	502.4	$512.7 (\nu: 12.2)$
m_{DES}^2	0.015	$0.014^{+0.058}_{-0.056}$	$\Delta z_{\text{s,DES}}^4$	-0.0249	$-0.023^{+0.050}_{-0.048}$	χ_{prior}^2	1.2	$13.2 (\nu: 12.6)$
m_{DES}^3	0.005	$0.008^{+0.054}_{-0.054}$	$\Omega_{\text{b}} h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	χ_{BAO}^2	5.9	$7.9 (\nu: 2.0)$

Best-fit $\chi_{\text{eff}}^2 = 509.50$; $\bar{\chi}_{\text{eff}}^2 = 533.77$; $R - 1 = 0.00944$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 2.04 DR12BAO: 3.83 WL - DES_1YR_final: 502.44

2.251 base_DESlens_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.345	$0.330^{+0.10}_{-0.083}$	$\alpha_{\text{IA,DES}}$	2.7	—	S_8	0.791	$0.785^{+0.067}_{-0.089}$
Ω_b	0.0445	$0.0460^{+0.0077}_{-0.0081}$	$\Delta z_{\text{s,DES}}^1$	0.0038	$0.003^{+0.037}_{-0.038}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4331	$0.430^{+0.036}_{-0.049}$
H_0	70.6	$69.6^{+7.1}_{-5.4}$	$\Delta z_{\text{s,DES}}^2$	-0.0204	$-0.021^{+0.031}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.565	$0.569^{+0.070}_{-0.074}$
$10^9 A_{\text{s}}$	1.34	< 3.82	$\Delta z_{\text{s,DES}}^3$	0.0077	$0.008^{+0.027}_{-0.027}$	$\chi_{6\text{DF}}^2$	0.061	$0.13 (\nu: 0.0)$
n_{s}	0.922	—	$\Delta z_{\text{s,DES}}^4$	-0.016	$-0.016^{+0.054}_{-0.052}$	χ_{MGS}^2	1.10	$1.43 (\nu: 0.3)$
m_{DES}^1	0.015	$0.014^{+0.059}_{-0.058}$	$\Omega_{\text{b}} h^2$	0.02219	$0.0222^{+0.0012}_{-0.0013}$	χ_{DR12BAO}^2	2.20	$3.9 (\nu: 1.5)$
m_{DES}^2	0.013	$0.012^{+0.057}_{-0.057}$	$\Omega_c h^2$	0.149	$0.139^{+0.091}_{-0.057}$	χ_{DES}^2	229.4	$233.2 (\nu: 3.7)$
m_{DES}^3	0.001	$0.002^{+0.055}_{-0.055}$	Ω_{Λ}	0.655	$0.670^{+0.083}_{-0.10}$	χ_{prior}^2	0.4	$8.5 (\nu: 8.0)$
m_{DES}^4	0.019	$0.018^{+0.056}_{-0.054}$	$\ln(10^{10} A_{\text{s}})$	2.59	$2.73^{+1.0}_{-0.95}$	χ_{BAO}^2	3.36	$5.4 (\nu: 2.1)$
$A_{\text{IA,DES}}$	1.33	$0.99^{+1.5}_{-2.3}$	σ_8	0.737	$0.75^{+0.14}_{-0.13}$			

Best-fit $\chi_{\text{eff}}^2 = 233.21$; $\bar{\chi}_{\text{eff}}^2 = 247.19$; $R - 1 = 0.00929$

χ_{eff}^2 : BAO - 6DF: 0.06 MGS: 1.10 DR12BAO: 2.20 WL - DES_1YR_final: 229.41

2.252 base_DESwt_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.2999	$0.287^{+0.040}_{-0.041}$	m_{DES}^4	0.006	$0.007^{+0.056}_{-0.058}$	$\Omega_{\text{c}} h^2$	0.1148	$0.106^{+0.026}_{-0.024}$
Ω_b	0.04840	$0.0495^{+0.0048}_{-0.0043}$	$A_{\text{IA,DES}}$	0.354	$0.41^{+0.51}_{-0.43}$	Ω_{Λ}	0.7001	$0.713^{+0.041}_{-0.040}$
H_0	67.76	$67.0^{+3.1}_{-3.0}$	$\alpha_{\text{IA,DES}}$	-3.1	—	$\ln(10^{10} A_{\text{s}})$	3.09	$3.19^{+0.52}_{-0.51}$
$10^9 A_{\text{s}}$	2.19	$2.5^{+1.6}_{-1.0}$	$\Delta z_{\text{l,DES}}^1$	0.0026	$0.003^{+0.020}_{-0.019}$	σ_8	0.780	$0.80^{+0.12}_{-0.11}$
n_{s}	0.870	—	$\Delta z_{\text{l,DES}}^2$	0.0015	$0.002^{+0.017}_{-0.017}$	S_8	0.780	$0.779^{+0.089}_{-0.090}$
b_{DES}^1	1.456	$1.44^{+0.31}_{-0.26}$	$\Delta z_{\text{l,DES}}^3$	0.0049	$0.005^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4272	$0.426^{+0.049}_{-0.049}$
b_{DES}^2	1.693	$1.68^{+0.31}_{-0.25}$	$\Delta z_{\text{l,DES}}^4$	0.0031	$0.003^{+0.023}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.577	$0.583^{+0.074}_{-0.073}$
b_{DES}^3	1.681	$1.67^{+0.30}_{-0.24}$	$\Delta z_{\text{l,DES}}^5$	0.0005	$0.000^{+0.025}_{-0.025}$	χ_{6DF}^2	0.002	$0.08 (\nu: 0.0)$
b_{DES}^4	2.028	$2.01^{+0.37}_{-0.29}$	$\Delta z_{\text{s,DES}}^1$	0.0000	$-0.004^{+0.038}_{-0.038}$	χ_{MGS}^2	1.82	$2.16 (\nu: 0.3)$
b_{DES}^5	2.090	$2.08^{+0.41}_{-0.34}$	$\Delta z_{\text{s,DES}}^2$	-0.0300	$-0.031^{+0.028}_{-0.029}$	χ_{DR12BAO}^2	3.63	$5.3 (\nu: 1.5)$
m_{DES}^1	0.012	$0.011^{+0.059}_{-0.058}$	$\Delta z_{\text{s,DES}}^3$	0.0070	$0.008^{+0.026}_{-0.025}$	χ_{DES}^2	250.4	$261.1 (\nu: 12.3)$
m_{DES}^2	0.010	$0.009^{+0.058}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	-0.0247	$-0.024^{+0.050}_{-0.048}$	χ_{prior}^2	1.4	$14.1 (\nu: 13.7)$
m_{DES}^3	0.019	$0.021^{+0.055}_{-0.056}$	$\Omega_{\text{b}} h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	χ_{BAO}^2	5.45	$7.5 (\nu: 1.8)$

Best-fit $\chi_{\text{eff}}^2 = 257.28$; $\bar{\chi}_{\text{eff}}^2 = 282.67$; $R - 1 = 0.00957$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.63 WL - DES_1YR_final: 250.45

2.253 base_DES_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.2919	$0.285^{+0.034}_{-0.032}$	$A_{\text{IA,DES}}$	0.455	$0.45^{+0.51}_{-0.43}$	$\ln(10^{10} A_{\text{s}})$	3.130	$3.20^{+0.30}_{-0.27}$
Ω_b	0.04891	$0.0495^{+0.0044}_{-0.0042}$	$\alpha_{\text{IA,DES}}$	-1.5	—	σ_8	0.792	$0.802^{+0.056}_{-0.052}$
H_0	67.42	$67.0^{+3.0}_{-2.9}$	$\Delta z_{\text{l,DES}}^1$	0.0041	$0.004^{+0.019}_{-0.020}$	S_8	0.7809	$0.780^{+0.040}_{-0.039}$
$10^9 A_{\text{s}}$	2.29	$2.47^{+0.81}_{-0.63}$	$\Delta z_{\text{l,DES}}^2$	0.0011	$0.002^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4277	$0.427^{+0.022}_{-0.021}$
n_{s}	0.935	—	$\Delta z_{\text{l,DES}}^3$	0.0036	$0.004^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5819	$0.585^{+0.032}_{-0.031}$
b_{DES}^1	1.494	$1.47^{+0.20}_{-0.21}$	$\Delta z_{\text{l,DES}}^4$	0.0015	$0.002^{+0.023}_{-0.023}$	χ_{lensing}^2	7.91	$8.9 (\nu: 1.1)$
b_{DES}^2	1.701	$1.69^{+0.16}_{-0.16}$	$\Delta z_{\text{l,DES}}^5$	-0.0001	$0.000^{+0.025}_{-0.025}$	χ_{6DF}^2	0.014	$0.08 (\nu: 0.0)$
b_{DES}^3	1.685	$1.67^{+0.15}_{-0.14}$	$\Delta z_{\text{s,DES}}^1$	-0.0012	$-0.004^{+0.035}_{-0.036}$	χ_{MGS}^2	2.04	$2.27 (\nu: 0.3)$
b_{DES}^4	2.035	$2.02^{+0.17}_{-0.16}$	$\Delta z_{\text{s,DES}}^2$	-0.0287	$-0.029^{+0.027}_{-0.028}$	χ_{DR12BAO}^2	3.94	$5.3 (\nu: 1.4)$
b_{DES}^5	2.112	$2.09^{+0.22}_{-0.22}$	$\Delta z_{\text{s,DES}}^3$	0.0066	$0.007^{+0.025}_{-0.025}$	χ_{DES}^2	502.9	$512.4 (\nu: 9.8)$
m_{DES}^1	0.014	$0.012^{+0.058}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	-0.0236	$-0.023^{+0.049}_{-0.047}$	χ_{prior}^2	1.1	$13.0 (\nu: 12.2)$
m_{DES}^2	0.015	$0.015^{+0.059}_{-0.057}$	$\Omega_{\text{b}} h^2$	0.02223	$0.0222^{+0.0013}_{-0.0012}$	χ_{BAO}^2	6.00	$7.7 (\nu: 1.6)$
m_{DES}^3	0.008	$0.009^{+0.053}_{-0.053}$	$\Omega_{\text{c}} h^2$	0.1098	$0.105^{+0.022}_{-0.019}$			
m_{DES}^4	0.010	$0.011^{+0.053}_{-0.053}$	Ω_{Λ}	0.7081	$0.715^{+0.032}_{-0.034}$			

Best-fit $\chi_{\text{eff}}^2 = 517.86$; $\bar{\chi}_{\text{eff}}^2 = 541.96$; $R - 1 = 0.00592$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 2.04 DR12BAO: 3.94 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.91 WL - DES_1YR_final: 502.90

2.254 base_DESlens_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.3106	$0.295^{+0.041}_{-0.039}$	$\alpha_{\text{IA,DES}}$	2.8	—	S_8	0.801	$0.798^{+0.051}_{-0.053}$
Ω_b	0.04731	$0.0487^{+0.0048}_{-0.0046}$	$\Delta z_{\text{s,DES}}^1$	0.0034	$0.003^{+0.038}_{-0.038}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4387	$0.437^{+0.028}_{-0.029}$
H_0	68.49	$67.6^{+3.4}_{-3.1}$	$\Delta z_{\text{s,DES}}^2$	-0.0195	$-0.020^{+0.030}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5876	$0.593^{+0.036}_{-0.035}$
$10^9 A_{\text{s}}$	1.99	$2.30^{+0.89}_{-0.60}$	$\Delta z_{\text{s,DES}}^3$	0.0067	$0.007^{+0.026}_{-0.027}$	χ_{lensing}^2	7.79	$9.0 (\nu: 1.1)$
n_{s}	0.902	—	$\Delta z_{\text{s,DES}}^4$	-0.019	$-0.018^{+0.053}_{-0.053}$	$\chi_{6\text{DF}}^2$	0.000	$0.066 (\nu: 0.0)$
m_{DES}^1	0.014	$0.013^{+0.058}_{-0.058}$	$\Omega_{\text{b}} h^2$	0.02219	$0.0222^{+0.0013}_{-0.0013}$	χ_{MGS}^2	1.68	$2.05 (\nu: 0.3)$
m_{DES}^2	0.014	$0.013^{+0.057}_{-0.058}$	$\Omega_{\text{c}} h^2$	0.1229	$0.112^{+0.028}_{-0.025}$	χ_{DR12BAO}^2	3.08	$4.8 (\nu: 1.3)$
m_{DES}^3	-0.002	$0.000^{+0.052}_{-0.053}$	Ω_{Λ}	0.6894	$0.705^{+0.039}_{-0.041}$	χ_{DES}^2	229.3	$232.2 (\nu: 2.7)$
m_{DES}^4	0.016	$0.015^{+0.054}_{-0.053}$	$\ln(10^{10} A_{\text{s}})$	2.992	$3.13^{+0.34}_{-0.29}$	χ_{prior}^2	0.5	$8.4 (\nu: 7.9)$
$A_{\text{IA,DES}}$	1.30	$1.0^{+1.5}_{-1.5}$	σ_8	0.787	$0.806^{+0.059}_{-0.052}$	χ_{BAO}^2	4.76	$6.9 (\nu: 1.6)$

Best-fit $\chi_{\text{eff}}^2 = 242.34$; $\bar{\chi}_{\text{eff}}^2 = 256.54$; $R - 1 = 0.00700$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.08 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.79 WL - DES_1YR_final: 229.27

2.255 base_DESwt_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.3056	$0.289^{+0.034}_{-0.036}$	$A_{\text{IA,DES}}$	0.350	$0.42^{+0.50}_{-0.43}$	$\ln(10^{10} A_{\text{s}})$	3.000	$3.15^{+0.33}_{-0.24}$
Ω_b	0.04763	$0.0492^{+0.0044}_{-0.0041}$	$\alpha_{\text{IA,DES}}$	-3.1	—	σ_8	0.769	$0.791^{+0.061}_{-0.047}$
H_0	68.30	$67.2^{+2.8}_{-2.8}$	$\Delta z_{\text{l,DES}}^1$	0.0026	$0.003^{+0.020}_{-0.020}$	S_8	0.7757	$0.776^{+0.047}_{-0.047}$
$10^9 A_{\text{s}}$	2.01	$2.36^{+0.89}_{-0.52}$	$\Delta z_{\text{l,DES}}^2$	0.0013	$0.002^{+0.018}_{-0.018}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4249	$0.425^{+0.026}_{-0.026}$
n_{s}	0.872	—	$\Delta z_{\text{l,DES}}^3$	0.0046	$0.005^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5714	$0.580^{+0.035}_{-0.032}$
b_{DES}^1	1.487	$1.45^{+0.21}_{-0.22}$	$\Delta z_{\text{l,DES}}^4$	0.0030	$0.003^{+0.024}_{-0.023}$	χ_{lensing}^2	8.54	$9.2 (\nu: 1.3)$
b_{DES}^2	1.729	$1.69^{+0.16}_{-0.16}$	$\Delta z_{\text{l,DES}}^5$	0.0002	$0.000^{+0.025}_{-0.026}$	$\chi_{6\text{DF}}^2$	0.001	$0.070 (\nu: 0.0)$
b_{DES}^3	1.716	$1.68^{+0.14}_{-0.14}$	$\Delta z_{\text{s,DES}}^1$	0.0003	$-0.004^{+0.037}_{-0.038}$	χ_{MGS}^2	1.82	$2.14 (\nu: 0.3)$
b_{DES}^4	2.075	$2.04^{+0.16}_{-0.16}$	$\Delta z_{\text{s,DES}}^2$	-0.0302	$-0.031^{+0.028}_{-0.028}$	χ_{DR12BAO}^2	3.23	$5.1 (\nu: 1.2)$
b_{DES}^5	2.147	$2.11^{+0.21}_{-0.22}$	$\Delta z_{\text{s,DES}}^3$	0.0075	$0.008^{+0.026}_{-0.025}$	χ_{DES}^2	251.4	$260.8 (\nu: 10.2)$
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.058}$	$\Delta z_{\text{s,DES}}^4$	-0.0241	$-0.023^{+0.050}_{-0.046}$	χ_{prior}^2	1.4	$13.7 (\nu: 13.3)$
m_{DES}^2	0.0097	$0.009^{+0.059}_{-0.058}$	$\Omega_{\text{b}} h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	χ_{BAO}^2	5.05	$7.3 (\nu: 1.5)$
m_{DES}^3	0.020	$0.022^{+0.055}_{-0.054}$	$\Omega_{\text{c}} h^2$	0.1197	$0.108^{+0.021}_{-0.022}$			
m_{DES}^4	0.006	$0.007^{+0.056}_{-0.054}$	Ω_{Λ}	0.6944	$0.711^{+0.036}_{-0.034}$			

Best-fit $\chi_{\text{eff}}^2 = 266.38$; $\bar{\chi}_{\text{eff}}^2 = 291.02$; $R - 1 = 0.00577$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.23 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 8.54 WL - DES_1YR_final: 251.43

2.256 base_plikHM_TTTEEE_lowl_lowE_DES

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022524	$0.02252^{+0.00036}_{-0.00036}$	$\Delta z_{\text{l,DES}}^1$	0.0030	$0.004^{+0.019}_{-0.019}$	z_{drag}	1060.16	$1060.12^{+0.76}_{-0.76}$
$\Omega_c h^2$	0.11811	$0.1179^{+0.0028}_{-0.0027}$	$\Delta z_{\text{l,DES}}^2$	0.0007	$0.001^{+0.017}_{-0.017}$	r_{drag}	147.42	$147.49^{+0.65}_{-0.64}$
$100\theta_{\text{MC}}$	1.04112	$1.04112^{+0.00078}_{-0.00076}$	$\Delta z_{\text{l,DES}}^3$	0.0035	$0.003^{+0.017}_{-0.017}$	k_{D}	0.14064	$0.14056^{+0.00075}_{-0.00075}$
τ	0.0552	$0.055^{+0.022}_{-0.022}$	$\Delta z_{\text{l,DES}}^4$	0.0007	$0.001^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	0.160639	$0.16066^{+0.00045}_{-0.00044}$
$\ln(10^{10} A_{\text{s}})$	3.0416	$3.039^{+0.043}_{-0.043}$	$\Delta z_{\text{l,DES}}^5$	-0.0004	$-0.001^{+0.025}_{-0.025}$	z_{eq}	3361	3355^{+62}_{-62}
n_{s}	0.9700	$0.9696^{+0.0099}_{-0.010}$	$\Delta z_{\text{s,DES}}^1$	0.0007	$-0.003^{+0.036}_{-0.036}$	k_{eq}	0.010257	$0.01024^{+0.00019}_{-0.00019}$
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0064}$	$\Delta z_{\text{s,DES}}^2$	-0.0301	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{eq}}$	0.8214	$0.822^{+0.012}_{-0.012}$
A_{217}^{CIB}	47.6	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^3$	0.0029	$0.004^{+0.025}_{-0.024}$	$100\theta_{\text{s,eq}}$	0.4535	$0.4540^{+0.0062}_{-0.0060}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.44	—	$\Delta z_{\text{s,DES}}^4$	-0.0301	$-0.030^{+0.046}_{-0.046}$	$H(0.15)$	73.42	$73.5^{+1.1}_{-1.1}$
A_{143}^{tSZ}	7.25	> 0.907	H_0	68.21	$68.3^{+1.3}_{-1.2}$	$D_{\text{M}}(0.15)$	636.1	635^{+11}_{-10}
A_{100}^{PS}	249	259^{+70}_{-70}	Ω_{Λ}	0.6964	$0.698^{+0.016}_{-0.017}$	$H(0.38)$	83.40	$83.44^{+0.81}_{-0.78}$
A_{143}^{PS}	46.7	45^{+20}_{-20}	Ω_{m}	0.3036	$0.302^{+0.017}_{-0.016}$	$D_{\text{M}}(0.38)$	1518.9	1518^{+21}_{-21}
$A_{143 \times 217}^{\text{PS}}$	46.9	41^{+20}_{-20}	$\Omega_{\text{m}} h^2$	0.14128	$0.1410^{+0.0026}_{-0.0026}$	$H(0.51)$	90.04	$90.07^{+0.66}_{-0.63}$
A_{217}^{PS}	118.5	114^{+30}_{-30}	$\Omega_{\text{m}} h^3$	0.09638	$0.09632^{+0.00075}_{-0.00075}$	$D_{\text{M}}(0.51)$	1968.9	1967^{+25}_{-25}
A^{kSZ}	0.0	—	σ_8	0.8048	$0.803^{+0.018}_{-0.018}$	$H(0.61)$	95.60	$95.62^{+0.54}_{-0.52}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.6}$	S_8	0.8097	$0.806^{+0.032}_{-0.031}$	$D_{\text{M}}(0.61)$	2292.1	2291^{+27}_{-27}
A_{143}^{dustTT}	11.04	$11.0^{+4.6}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4435	$0.442^{+0.018}_{-0.017}$	$H(2.33)$	235.49	$235.3^{+1.7}_{-1.7}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.7^{+8.5}_{-8.5}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5974	$0.595^{+0.018}_{-0.017}$	$D_{\text{M}}(2.33)$	5750.0	5750^{+24}_{-25}
A_{217}^{dustTT}	94.7	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.9745	$0.972^{+0.026}_{-0.025}$	$f\sigma_8(0.15)$	0.4487	$0.447^{+0.017}_{-0.016}$
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.094}$	$r_{\text{drag}} h$	100.56	$100.7^{+2.2}_{-2.1}$	$\sigma_8(0.15)$	0.7445	$0.743^{+0.016}_{-0.016}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.076}_{-0.074}$	$\langle d^2 \rangle^{1/2}$	2.412	$2.408^{+0.063}_{-0.059}$	$f\sigma_8(0.38)$	0.4686	$0.467^{+0.014}_{-0.014}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.21}$	z_{re}	7.71	$7.6^{+2.0}_{-2.3}$	$\sigma_8(0.38)$	0.6608	$0.660^{+0.014}_{-0.014}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	2.094	$2.090^{+0.092}_{-0.089}$	$f\sigma_8(0.51)$	0.4682	$0.467^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.20}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8750	$1.873^{+0.029}_{-0.028}$	$\sigma_8(0.51)$	0.6187	$0.618^{+0.014}_{-0.013}$
A_{217}^{dustTE}	2.07	$2.06^{+0.69}_{-0.69}$	D_{40}	1220.3	1221^{+31}_{-30}	$f\sigma_8(0.61)$	0.4639	$0.463^{+0.012}_{-0.012}$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5741	5744^{+100}_{-100}	$\sigma_8(0.61)$	0.5890	$0.588^{+0.013}_{-0.013}$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	D_{810}	2538.6	2537^{+35}_{-35}	$f\sigma_8(2.33)$	0.2973	$0.2968^{+0.0066}_{-0.0064}$
b_{DES}^1	1.506	$1.51^{+0.18}_{-0.19}$	D_{1420}	818.9	818^{+13}_{-13}	$\sigma_8(2.33)$	0.3068	$0.3064^{+0.0070}_{-0.0068}$
b_{DES}^2	1.710	$1.71^{+0.13}_{-0.13}$	D_{2000}	231.56	$231.2^{+4.1}_{-4.1}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
b_{DES}^3	1.697	$1.70^{+0.11}_{-0.11}$	$n_{\text{s},0.002}$	0.9700	$0.9696^{+0.0099}_{-0.010}$	$f_{2000}^{143 \times 217}$	31.72	32^{+5}_{-5}
b_{DES}^4	2.058	$2.06^{+0.13}_{-0.13}$	Y_{P}	0.245453	$0.24545^{+0.00014}_{-0.00014}$	f_{2000}^{217}	106.29	$106.7^{+4.7}_{-4.6}$
b_{DES}^5	2.161	$2.16^{+0.19}_{-0.20}$	$Y_{\text{P}}^{\text{BBN}}$	0.246780	$0.24678^{+0.00014}_{-0.00014}$	χ_{small}^2	396.08	$397.0 (\nu: 1.6)$
m_{DES}^1	0.013	$0.012^{+0.058}_{-0.059}$	$10^5 \text{D}/\text{H}$	2.558	$2.559^{+0.067}_{-0.064}$	χ_{lowl}^2	22.49	$22.59 (\nu: 0.3)$
m_{DES}^2	0.014	$0.012^{+0.058}_{-0.058}$	Age/Gyr	13.768	$13.767^{+0.055}_{-0.055}$	χ_{plik}^2	2348.0	$2363.4 (\nu: 20.7)$
m_{DES}^3	-0.003	$-0.002^{+0.052}_{-0.050}$	z_*	1089.56	$1089.55^{+0.60}_{-0.58}$	χ_{DES}^2	509.2	$518.0 (\nu: 11.8)$
m_{DES}^4	0.002	$0.003^{+0.053}_{-0.053}$	r_*	144.80	$144.87^{+0.65}_{-0.63}$	χ_{prior}^2	4.0	$25 (\nu: 23.0)$
$A_{\text{IA,DES}}$	0.434	$0.47^{+0.47}_{-0.39}$	$100\theta_*$	1.04129	$1.04129^{+0.00077}_{-0.00076}$	χ_{CMB}^2	2766.6	$2783.0 (\nu: 20.0)$
$\alpha_{\text{IA,DES}}$	-2.5	—	$D_{\text{M}}(z_*)/\text{Gpc}$	13.906	$13.912^{+0.061}_{-0.060}$			

Best-fit $\chi_{\text{eff}}^2 = 3279.69$; $\bar{\chi}_{\text{eff}}^2 = 3325.69$; $R - 1 = 0.00524$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.08 commander_dx12_v3.2_29: 22.49 plik_rd12_HM_v22b_TTTEEE: 2347.99 WL - DES_1YR_final: 509.16

2.257 base_plikHM_TTTEEE_lowl_lowE_DES_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022502	$0.02251^{+0.00035}_{-0.00035}$	$\Delta z_{\text{l,DES}}^2$	0.0005	$0.001^{+0.017}_{-0.017}$	k_D	0.14059	$0.14057^{+0.00073}_{-0.00073}$
$\Omega_c h^2$	0.11810	$0.1180^{+0.0023}_{-0.0023}$	$\Delta z_{\text{l,DES}}^3$	0.0034	$0.003^{+0.017}_{-0.017}$	$100\theta_D$	0.160668	$0.16066^{+0.00045}_{-0.00044}$
$100\theta_{\text{MC}}$	1.04112	$1.04111^{+0.00074}_{-0.00074}$	$\Delta z_{\text{l,DES}}^4$	0.0008	$0.000^{+0.023}_{-0.023}$	z_{eq}	3360	3358^{+52}_{-52}
τ	0.0552	$0.054^{+0.021}_{-0.021}$	$\Delta z_{\text{l,DES}}^5$	-0.0003	$0.000^{+0.026}_{-0.024}$	k_{eq}	0.010255	$0.01025^{+0.00016}_{-0.00016}$
$\ln(10^{10} A_s)$	3.0412	$3.039^{+0.043}_{-0.044}$	$\Delta z_{\text{s,DES}}^1$	0.0007	$-0.003^{+0.037}_{-0.037}$	$100\theta_{\text{eq}}$	0.8214	$0.822^{+0.010}_{-0.0096}$
n_s	0.9699	$0.9693^{+0.0093}_{-0.0095}$	$\Delta z_{\text{s,DES}}^2$	-0.0301	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	0.4535	$0.4537^{+0.0051}_{-0.0050}$
y_{cal}	1.0003	$1.0004^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^3$	0.0033	$0.004^{+0.025}_{-0.024}$	$H(0.15)$	73.40	$73.43^{+0.91}_{-0.85}$
A_{217}^{CIB}	48.1	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^4$	-0.0300	$-0.030^{+0.047}_{-0.049}$	$D_{\text{M}}(0.15)$	636.2	$635.9^{+8.4}_{-8.8}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.34	—	H_0	68.20	$68.2^{+1.1}_{-0.99}$	$H(0.38)$	83.38	$83.40^{+0.68}_{-0.63}$
A_{143}^{tSZ}	7.33	> 0.877	Ω_{Λ}	0.6963	$0.697^{+0.013}_{-0.013}$	$D_{\text{M}}(0.38)$	1519.2	1519^{+17}_{-18}
A_{100}^{PS}	251	258^{+70}_{-70}	Ω_{m}	0.3037	$0.303^{+0.013}_{-0.013}$	$H(0.51)$	90.02	$90.04^{+0.56}_{-0.52}$
A_{143}^{PS}	45.5	45^{+20}_{-20}	$\Omega_{\text{m}} h^2$	0.14125	$0.1412^{+0.0022}_{-0.0022}$	$D_{\text{M}}(0.51)$	1969.3	1969^{+20}_{-21}
$A_{143 \times 217}^{\text{PS}}$	44.5	41^{+20}_{-20}	$\Omega_{\text{m}} h^3$	0.09633	$0.09632^{+0.00074}_{-0.00075}$	$H(0.61)$	95.582	$95.59^{+0.47}_{-0.45}$
A_{217}^{PS}	117.7	114^{+30}_{-30}	σ_8	0.8046	$0.803^{+0.018}_{-0.018}$	$D_{\text{M}}(0.61)$	2292.5	2292^{+22}_{-23}
A^{kSZ}	0.0	—	S_8	0.8095	$0.808^{+0.028}_{-0.027}$	$H(2.33)$	235.46	$235.4^{+1.4}_{-1.4}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4434	$0.442^{+0.015}_{-0.015}$	$D_{\text{M}}(2.33)$	5750.9	5751^{+22}_{-22}
A_{143}^{dustTT}	11.12	$10.9^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5973	$0.596^{+0.016}_{-0.016}$	$f\sigma_8(0.15)$	0.4486	$0.448^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.7^{+8.4}_{-8.6}$	$\sigma_8/h^{0.5}$	0.9743	$0.972^{+0.024}_{-0.024}$	$\sigma_8(0.15)$	0.7443	$0.743^{+0.016}_{-0.016}$
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	$r_{\text{drag}} h$	100.56	$100.6^{+1.8}_{-1.7}$	$f\sigma_8(0.38)$	0.4685	$0.468^{+0.013}_{-0.013}$
A_{100}^{dustTE}	0.113	$0.115^{+0.099}_{-0.092}$	$\langle d^2 \rangle^{1/2}$	2.412	$2.410^{+0.057}_{-0.058}$	$\sigma_8(0.38)$	0.6606	$0.660^{+0.014}_{-0.015}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.075}$	z_{re}	7.71	$7.6^{+2.0}_{-2.3}$	$f\sigma_8(0.51)$	0.4681	$0.467^{+0.012}_{-0.012}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.21}$	$10^9 A_s$	2.093	$2.089^{+0.092}_{-0.091}$	$\sigma_8(0.51)$	0.6186	$0.618^{+0.013}_{-0.014}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$10^9 A_s e^{-2\tau}$	1.8741	$1.874^{+0.028}_{-0.027}$	$f\sigma_8(0.61)$	0.4638	$0.463^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	D_{40}	1219.9	1222^{+30}_{-29}	$\sigma_8(0.61)$	0.5888	$0.588^{+0.013}_{-0.013}$
A_{217}^{dustTE}	2.06	$2.07^{+0.68}_{-0.69}$	D_{220}	5738	5743^{+99}_{-100}	$f\sigma_8(2.33)$	0.2972	$0.2968^{+0.0065}_{-0.0066}$
c_{100}	0.99969	$0.9997^{+0.0016}_{-0.0016}$	D_{810}	2537.2	2537^{+36}_{-35}	$\sigma_8(2.33)$	0.3067	$0.3063^{+0.0069}_{-0.0069}$
c_{217}	0.99821	$0.9982^{+0.0017}_{-0.0016}$	D_{1420}	818.3	818^{+12}_{-12}	f_{2000}^{143}	28.7	29^{+7}_{-7}
b_{DES}^1	1.508	$1.51^{+0.18}_{-0.20}$	D_{2000}	231.33	$231.1^{+4.1}_{-4.1}$	$f_{2000}^{143 \times 217}$	31.86	32^{+5}_{-5}
b_{DES}^2	1.709	$1.71^{+0.14}_{-0.13}$	$n_{\text{s},0.002}$	0.9699	$0.9693^{+0.0093}_{-0.0095}$	f_{2000}^{217}	106.48	$106.8^{+4.7}_{-4.5}$
b_{DES}^3	1.697	$1.70^{+0.11}_{-0.12}$	Y_{P}	0.245445	$0.24545^{+0.00013}_{-0.00014}$	χ_{simall}^2	396.08	$397.0 (\nu: 1.5)$
b_{DES}^4	2.058	$2.06^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	0.246772	$0.24677^{+0.00013}_{-0.00014}$	χ_{lowl}^2	22.50	$22.63 (\nu: 0.3)$
b_{DES}^5	2.162	$2.16^{+0.20}_{-0.20}$	$10^5 \text{D}/\text{H}$	2.562	$2.561^{+0.066}_{-0.062}$	χ_{plik}^2	2347.8	$2362.9 (\nu: 19.2)$
m_{DES}^1	0.013	$0.011^{+0.058}_{-0.059}$	Age/Gyr	13.770	$13.769^{+0.050}_{-0.050}$	$\chi_{6\text{DF}}^2$	0.000	$0.021 (\nu: 0.0)$
m_{DES}^2	0.014	$0.012^{+0.059}_{-0.057}$	z_*	1089.59	$1089.57^{+0.54}_{-0.52}$	χ_{MGS}^2	1.75	$1.84 (\nu: 0.1)$
m_{DES}^3	-0.0024	$-0.003^{+0.050}_{-0.049}$	r_*	144.82	$144.84^{+0.56}_{-0.55}$	χ_{DR12BAO}^2	3.46	$3.74 (\nu: 0.1)$
m_{DES}^4	0.003	$0.003^{+0.053}_{-0.053}$	$100\theta_*$	1.04129	$1.04128^{+0.00074}_{-0.00073}$	χ_{DES}^2	509.3	$518.2 (\nu: 11.7)$
$A_{\text{IA,DES}}$	0.444	$0.47^{+0.47}_{-0.38}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.908	$13.910^{+0.054}_{-0.054}$	χ_{prior}^2	4.0	$25 (\nu: 22.7)$
$\alpha_{\text{IA,DES}}$	-2.4	—	z_{drag}	1060.09	$1060.11^{+0.74}_{-0.75}$	χ_{BAO}^2	5.21	$5.60 (\nu: 0.1)$
$\Delta z_{\text{l,DES}}^1$	0.0029	$0.004^{+0.019}_{-0.019}$	r_{drag}	147.45	$147.47^{+0.59}_{-0.60}$	χ_{CMB}^2	2766.4	$2782.5 (\nu: 18.8)$

Best-fit $\chi_{\text{eff}}^2 = 3284.92$; $\bar{\chi}_{\text{eff}}^2 = 3331.02$; $R - 1 = 0.00830$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.46 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.08 commander_dx12_v3_2_29: 22.50 plik_rd12_HM_v22b_TTTEEE: 2347.84 WL - DES_1YR_final: 509.26

2.258 base_plikHM_TTTEEE_lowl_lowE_DES_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022522	$0.02251^{+0.00036}_{-0.00036}$	$\alpha_{\text{IA,DES}}$	-2.6	—	$100\theta_*$	1.04124	$1.04127^{+0.00076}_{-0.00075}$
$\Omega_c h^2$	0.11831	$0.1181^{+0.0026}_{-0.0026}$	$\Delta z_{\text{l,DES}}^1$	0.0029	$0.004^{+0.019}_{-0.019}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.902	$13.907^{+0.057}_{-0.059}$
$100\theta_{\text{MC}}$	1.04107	$1.04109^{+0.00075}_{-0.00076}$	$\Delta z_{\text{l,DES}}^2$	0.0005	$0.001^{+0.017}_{-0.017}$	z_{drag}	1060.16	$1060.13^{+0.76}_{-0.77}$
τ	0.0560	$0.057^{+0.020}_{-0.020}$	$\Delta z_{\text{l,DES}}^3$	0.0035	$0.003^{+0.017}_{-0.017}$	r_{drag}	147.37	$147.43^{+0.63}_{-0.62}$
$\ln(10^{10} A_{\text{s}})$	3.0441	$3.046^{+0.039}_{-0.038}$	$\Delta z_{\text{l,DES}}^4$	0.0008	$0.000^{+0.023}_{-0.023}$	k_{D}	0.14069	$0.14062^{+0.00072}_{-0.00074}$
n_{s}	0.9691	$0.9688^{+0.0099}_{-0.010}$	$\Delta z_{\text{l,DES}}^5$	-0.0009	$-0.001^{+0.025}_{-0.024}$	$100\theta_{\text{D}}$	0.160626	$0.16065^{+0.00046}_{-0.00045}$
y_{cal}	1.0006	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^1$	0.0007	$-0.003^{+0.037}_{-0.038}$	z_{eq}	3365	3361^{+59}_{-59}
A_{217}^{CIB}	47.3	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^2$	-0.0303	$-0.031^{+0.028}_{-0.028}$	k_{eq}	0.010272	$0.01026^{+0.00018}_{-0.00018}$
$\xi^{\text{tSZ}} \times \text{CIB}$	0.40	—	$\Delta z_{\text{s,DES}}^3$	0.0030	$0.003^{+0.025}_{-0.024}$	$100\theta_{\text{eq}}$	0.8205	$0.821^{+0.011}_{-0.011}$
A_{143}^{tSZ}	7.26	> 0.883	$\Delta z_{\text{s,DES}}^4$	-0.0310	$-0.031^{+0.047}_{-0.049}$	$100\theta_{\text{s,eq}}$	0.4530	$0.4534^{+0.0059}_{-0.0056}$
A_{100}^{PS}	250	258^{+70}_{-70}	H_0	68.13	$68.2^{+1.2}_{-1.1}$	$H(0.15)$	73.34	$73.4^{+1.0}_{-0.98}$
A_{143}^{PS}	46.2	45^{+20}_{-20}	Ω_{Λ}	0.6952	$0.696^{+0.015}_{-0.015}$	$D_{\text{M}}(0.15)$	636.8	$636.3^{+9.7}_{-10}$
$A_{143 \times 217}^{\text{PS}}$	46.0	42^{+20}_{-20}	Ω_{m}	0.3048	$0.304^{+0.015}_{-0.015}$	$H(0.38)$	83.34	$83.38^{+0.77}_{-0.72}$
A_{217}^{PS}	118.9	115^{+30}_{-30}	$\Omega_{\text{m}} h^2$	0.14148	$0.1413^{+0.0025}_{-0.0025}$	$D_{\text{M}}(0.38)$	1520.4	1519^{+19}_{-20}
A^{kSZ}	0.0	—	$\Omega_{\text{m}} h^3$	0.09638	$0.09634^{+0.00073}_{-0.00075}$	$H(0.51)$	90.00	$90.02^{+0.62}_{-0.58}$
A_{100}^{dustTT}	8.85	$8.9^{+4.7}_{-4.6}$	σ_8	0.8062	$0.806^{+0.015}_{-0.015}$	$D_{\text{M}}(0.51)$	1970.6	1969^{+23}_{-24}
A_{143}^{dustTT}	11.06	$10.9^{+4.6}_{-4.7}$	S_8	0.8126	$0.811^{+0.027}_{-0.027}$	$H(0.61)$	95.568	$95.58^{+0.52}_{-0.47}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.5}_{-8.4}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4451	$0.444^{+0.015}_{-0.015}$	$D_{\text{M}}(0.61)$	2293.9	2293^{+25}_{-26}
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5990	$0.599^{+0.015}_{-0.014}$	$H(2.33)$	235.61	$235.5^{+1.6}_{-1.6}$
A_{100}^{dustTE}	0.113	$0.115^{+0.098}_{-0.092}$	$\sigma_8/h^{0.5}$	0.9767	$0.976^{+0.021}_{-0.021}$	$D_{\text{M}}(2.33)$	5751.2	5751^{+23}_{-24}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.075}$	$r_{\text{drag}} h$	100.40	$100.5^{+2.1}_{-2.0}$	$f\sigma_8(0.15)$	0.4502	$0.450^{+0.014}_{-0.014}$
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.21}_{-0.22}$	$\langle d^2 \rangle^{1/2}$	2.419	$2.420^{+0.051}_{-0.050}$	$\sigma_8(0.15)$	0.7456	$0.746^{+0.014}_{-0.013}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	z_{re}	7.79	$7.9^{+1.9}_{-2.0}$	$f\sigma_8(0.38)$	0.4699	$0.470^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTE}}$	0.663	$0.66^{+0.21}_{-0.21}$	$10^9 A_{\text{s}}$	2.099	$2.102^{+0.083}_{-0.079}$	$\sigma_8(0.38)$	0.6617	$0.662^{+0.013}_{-0.012}$
A_{217}^{dustTE}	2.07	$2.07^{+0.69}_{-0.69}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8768	$1.876^{+0.028}_{-0.027}$	$f\sigma_8(0.51)$	0.4693	$0.469^{+0.011}_{-0.010}$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	D_{40}	1223.3	1225^{+29}_{-28}	$\sigma_8(0.51)$	0.6195	$0.620^{+0.012}_{-0.011}$
c_{217}	0.99818	$0.9982^{+0.0017}_{-0.0017}$	D_{220}	5747	5749^{+99}_{-99}	$f\sigma_8(0.61)$	0.4649	$0.465^{+0.010}_{-0.0097}$
b_{DES}^1	1.508	$1.50^{+0.18}_{-0.20}$	D_{810}	2539.5	2539^{+35}_{-34}	$\sigma_8(0.61)$	0.5897	$0.590^{+0.012}_{-0.011}$
b_{DES}^2	1.706	$1.70^{+0.14}_{-0.13}$	D_{1420}	818.9	818^{+12}_{-12}	$f\sigma_8(2.33)$	0.2976	$0.2977^{+0.0060}_{-0.0057}$
b_{DES}^3	1.694	$1.69^{+0.11}_{-0.12}$	D_{2000}	231.55	$231.3^{+4.0}_{-4.1}$	$\sigma_8(2.33)$	0.3071	$0.3073^{+0.0064}_{-0.0062}$
b_{DES}^4	2.055	$2.05^{+0.14}_{-0.13}$	$n_{\text{s},0.002}$	0.9691	$0.9688^{+0.0099}_{-0.010}$	χ_{lensing}^2	9.04	$9.44 (\nu: 0.5)$
b_{DES}^5	2.159	$2.15^{+0.19}_{-0.20}$	Y_{P}	0.245452	$0.24545^{+0.00014}_{-0.00014}$	χ_{small}^2	396.23	$397.3 (\nu: 2.0)$
m_{DES}^1	0.014	$0.012^{+0.057}_{-0.060}$	$Y_{\text{P}}^{\text{BBN}}$	0.246779	$0.24677^{+0.00014}_{-0.00014}$	χ_{lowl}^2	22.70	$22.82 (\nu: 0.3)$
m_{DES}^2	0.014	$0.012^{+0.059}_{-0.056}$	$10^5 \text{D}/\text{H}$	2.558	$2.560^{+0.067}_{-0.065}$	χ_{plik}^2	2347.2	$2361.9 (\nu: 18.1)$
m_{DES}^3	-0.004	$-0.004^{+0.051}_{-0.049}$	Age/Gyr	13.770	$13.770^{+0.052}_{-0.054}$	χ_{DES}^2	509.5	$518.5 (\nu: 12.5)$
m_{DES}^4	0.002	$0.001^{+0.053}_{-0.053}$	z_*	1089.58	$1089.58^{+0.57}_{-0.59}$	χ_{prior}^2	4.2	$25 (\nu: 22.7)$
$A_{\text{IA,DES}}$	0.439	$0.47^{+0.46}_{-0.38}$	r_*	144.75	$144.81^{+0.61}_{-0.60}$	χ_{CMB}^2	2775.1	$2791.5 (\nu: 20.0)$

Best-fit $\chi_{\text{eff}}^2 = 3288.86$; $\bar{\chi}_{\text{eff}}^2 = 3334.91$; $R - 1 = 0.01020$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.04 small_100x143_offlike5_EE_Aplanck_B: 396.23 commander_dx12_v3.2_29: 22.70 plik_rd12_HM_v22b_TTTEEE: 2347.17 WL - DES_1YR_final: 509.51

2.259 base_plikHM_TTTEEE_lowl_lowE_DES_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022513	$0.02251^{+0.00035}_{-0.00035}$	$\Delta z_{\text{l,DES}}^2$	0.0005	$0.001^{+0.017}_{-0.017}$	k_D	0.14065	$0.14062^{+0.00070}_{-0.00072}$
$\Omega_c h^2$	0.11824	$0.1182^{+0.0022}_{-0.0021}$	$\Delta z_{\text{l,DES}}^3$	0.0034	$0.003^{+0.017}_{-0.017}$	$100\theta_D$	0.160643	$0.16066^{+0.00045}_{-0.00044}$
$100\theta_{\text{MC}}$	1.04108	$1.04109^{+0.00074}_{-0.00074}$	$\Delta z_{\text{l,DES}}^4$	0.0005	$0.000^{+0.023}_{-0.023}$	z_{eq}	3363.5	3362^{+50}_{-49}
τ	0.0561	$0.057^{+0.020}_{-0.019}$	$\Delta z_{\text{l,DES}}^5$	-0.0005	$-0.001^{+0.025}_{-0.024}$	k_{eq}	0.010266	$0.01026^{+0.00015}_{-0.00015}$
$\ln(10^{10} A_s)$	3.0444	$3.045^{+0.039}_{-0.037}$	$\Delta z_{\text{s,DES}}^1$	0.00099	$-0.003^{+0.037}_{-0.038}$	$100\theta_{\text{eq}}$	0.8208	$0.8211^{+0.0094}_{-0.0092}$
n_s	0.9694	$0.9687^{+0.0093}_{-0.0095}$	$\Delta z_{\text{s,DES}}^2$	-0.0301	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	0.45320	$0.4534^{+0.0048}_{-0.0047}$
y_{cal}	1.0007	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^3$	0.0029	$0.003^{+0.025}_{-0.024}$	$H(0.15)$	73.36	$73.37^{+0.88}_{-0.81}$
A_{217}^{CIB}	47.5	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^4$	-0.0310	$-0.031^{+0.046}_{-0.049}$	$D_{\text{M}}(0.15)$	636.6	$636.5^{+8.0}_{-8.4}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.39	—	H_0	68.15	$68.2^{+1.0}_{-0.95}$	$H(0.38)$	83.35	$83.36^{+0.66}_{-0.61}$
A_{143}^{tSZ}	7.28	> 0.894	Ω_{Λ}	0.6955	$0.696^{+0.013}_{-0.013}$	$D_{\text{M}}(0.38)$	1520.1	1520^{+16}_{-17}
A_{100}^{PS}	251	258^{+70}_{-70}	Ω_{m}	0.3045	$0.304^{+0.013}_{-0.013}$	$H(0.51)$	90.00	$90.01^{+0.54}_{-0.50}$
A_{143}^{PS}	46.4	45^{+20}_{-20}	$\Omega_{\text{m}} h^2$	0.14140	$0.1413^{+0.0021}_{-0.0020}$	$D_{\text{M}}(0.51)$	1970.2	1970^{+19}_{-20}
$A_{143 \times 217}^{\text{PS}}$	46.1	42^{+20}_{-20}	$\Omega_{\text{m}} h^3$	0.09636	$0.09634^{+0.00073}_{-0.00075}$	$H(0.61)$	95.570	$95.57^{+0.46}_{-0.43}$
A_{217}^{PS}	118.9	115^{+30}_{-30}	σ_8	0.8062	$0.806^{+0.015}_{-0.015}$	$D_{\text{M}}(0.61)$	2293.5	2293^{+21}_{-22}
A^{kSZ}	0.0	—	S_8	0.8121	$0.812^{+0.024}_{-0.024}$	$H(2.33)$	235.56	$235.5^{+1.4}_{-1.3}$
A_{100}^{dustTT}	8.88	$8.9^{+4.7}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4448	$0.445^{+0.013}_{-0.013}$	$D_{\text{M}}(2.33)$	5751.2	5751^{+21}_{-22}
A_{143}^{dustTT}	11.06	$10.9^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5988	$0.599^{+0.014}_{-0.013}$	$f\sigma_8(0.15)$	0.4500	$0.450^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.4}_{-8.4}$	$\sigma_8/h^{0.5}$	0.9766	$0.976^{+0.021}_{-0.020}$	$\sigma_8(0.15)$	0.7456	$0.746^{+0.014}_{-0.013}$
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	$r_{\text{drag}} h$	100.45	$100.5^{+1.7}_{-1.7}$	$f\sigma_8(0.38)$	0.4698	$0.470^{+0.011}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.115^{+0.098}_{-0.092}$	$\langle d^2 \rangle^{1/2}$	2.4181	$2.420^{+0.049}_{-0.048}$	$\sigma_8(0.38)$	0.6617	$0.662^{+0.013}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.075}_{-0.075}$	z_{re}	7.80	$7.9^{+1.9}_{-2.0}$	$f\sigma_8(0.51)$	0.4692	$0.469^{+0.010}_{-0.0098}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	$10^9 A_s$	2.100	$2.102^{+0.083}_{-0.077}$	$\sigma_8(0.51)$	0.6196	$0.620^{+0.012}_{-0.011}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$10^9 A_s e^{-2\tau}$	1.8768	$1.876^{+0.027}_{-0.027}$	$f\sigma_8(0.61)$	0.4648	$0.4647^{+0.0096}_{-0.0092}$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	D_{40}	1222.9	1225^{+29}_{-28}	$\sigma_8(0.61)$	0.5898	$0.590^{+0.012}_{-0.011}$
A_{217}^{dustTE}	2.07	$2.07^{+0.68}_{-0.68}$	D_{220}	5746	5749^{+98}_{-99}	$f\sigma_8(2.33)$	0.2976	$0.2977^{+0.0060}_{-0.0057}$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	D_{810}	2539.8	2539^{+35}_{-34}	$\sigma_8(2.33)$	0.3072	$0.3072^{+0.0064}_{-0.0060}$
c_{217}	0.99817	$0.9982^{+0.0017}_{-0.0017}$	D_{1420}	819.0	818^{+12}_{-12}	χ^2_{lensing}	9.08	$9.40 (\nu: 0.4)$
b_{DES}^1	1.507	$1.50^{+0.18}_{-0.20}$	D_{2000}	231.57	$231.3^{+4.0}_{-4.1}$	χ^2_{small}	396.28	$397.3 (\nu: 1.9)$
b_{DES}^2	1.704	$1.70^{+0.14}_{-0.13}$	$n_{\text{s},0.002}$	0.9694	$0.9687^{+0.0093}_{-0.0095}$	χ^2_{lowl}	22.65	$22.83 (\nu: 0.3)$
b_{DES}^3	1.695	$1.69^{+0.11}_{-0.11}$	Y_{P}	0.245449	$0.24545^{+0.00013}_{-0.00014}$	χ^2_{plik}	2347.3	$2361.7 (\nu: 17.5)$
b_{DES}^4	2.055	$2.05^{+0.14}_{-0.13}$	$Y_{\text{P}}^{\text{BBN}}$	0.246776	$0.24677^{+0.00013}_{-0.00014}$	$\chi^2_{6\text{DF}}$	0.000	$0.018 (\nu: 0.0)$
b_{DES}^5	2.158	$2.15^{+0.19}_{-0.19}$	$10^5 \text{D}/\text{H}$	2.560	$2.561^{+0.066}_{-0.062}$	χ^2_{MGS}	1.68	$1.76 (\nu: 0.1)$
m_{DES}^1	0.014	$0.012^{+0.057}_{-0.060}$	Age/Gyr	13.7707	$13.771^{+0.049}_{-0.050}$	χ^2_{DR12BAO}	3.52	$3.78 (\nu: 0.1)$
m_{DES}^2	0.014	$0.012^{+0.060}_{-0.056}$	z_*	1089.59	$1089.59^{+0.53}_{-0.52}$	χ^2_{DES}	509.4	$518.5 (\nu: 12.2)$
m_{DES}^3	-0.0044	$-0.004^{+0.050}_{-0.048}$	r_*	144.78	$144.80^{+0.53}_{-0.53}$	χ^2_{prior}	4.2	$25 (\nu: 22.8)$
m_{DES}^4	0.001	$0.001^{+0.053}_{-0.053}$	$100\theta_*$	1.04125	$1.04126^{+0.00073}_{-0.00073}$	χ^2_{CMB}	2775.3	$2791.2 (\nu: 18.9)$
$A_{\text{IA,DES}}$	0.437	$0.47^{+0.46}_{-0.38}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.904	$13.906^{+0.051}_{-0.053}$	χ^2_{BAO}	5.20	$5.55 (\nu: 0.1)$
$\alpha_{\text{IA,DES}}$	-2.6	—	z_{drag}	1060.12	$1060.12^{+0.76}_{-0.76}$			
$\Delta z_{\text{l,DES}}^1$	0.0031	$0.004^{+0.019}_{-0.019}$	r_{drag}	147.40	$147.42^{+0.56}_{-0.57}$			

Best-fit $\chi^2_{\text{eff}} = 3294.09$; $\bar{\chi}^2_{\text{eff}} = 3340.17$; $R - 1 = 0.01031$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.52 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.08 small_100x143.offlike5_EE_Aplanck_B: 396.28 commander_dx12_v3_2_29: 22.65 plik_rd12_HM_v22b_TTTEEE: 2347.27 WL - DES_1YR_final: 509.38

2.260 base_plikHM_TTTEEE_lowl_lowE_DES_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00036}_{-0.00036}$	$\Delta z_{\text{l,DES}}^1$	$0.004^{+0.019}_{-0.019}$	z_{drag}	$1060.13^{+0.76}_{-0.77}$
$\Omega_c h^2$	$0.1178^{+0.0027}_{-0.0027}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	r_{drag}	$147.50^{+0.65}_{-0.64}$
$100\theta_{\text{MC}}$	$1.04112^{+0.00077}_{-0.00077}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	k_{D}	$0.14055^{+0.00076}_{-0.00075}$
τ	$0.056^{+0.019}_{-0.013}$	$\Delta z_{\text{l,DES}}^4$	$0.001^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	$0.16065^{+0.00045}_{-0.00044}$
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.042}_{-0.030}$	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.025}$	z_{eq}	3354^{+61}_{-62}
n_{s}	$0.9697^{+0.0098}_{-0.010}$	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.036}$	k_{eq}	$0.01024^{+0.00019}_{-0.00019}$
y_{cal}	$1.0005^{+0.0064}_{-0.0064}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{eq}}$	$0.823^{+0.012}_{-0.012}$
A_{217}^{CIB}	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.025}_{-0.024}$	$100\theta_{\text{s,eq}}$	$0.4541^{+0.0061}_{-0.0059}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$\Delta z_{\text{s,DES}}^4$	$-0.030^{+0.047}_{-0.046}$	$H(0.15)$	$73.5^{+1.1}_{-1.0}$
A_{143}^{tSZ}	> 0.900	H_0	$68.3^{+1.2}_{-1.2}$	$D_{\text{M}}(0.15)$	635^{+10}_{-10}
A_{100}^{PS}	258^{+70}_{-70}	Ω_{Λ}	$0.698^{+0.016}_{-0.016}$	$H(0.38)$	$83.45^{+0.81}_{-0.77}$
A_{143}^{PS}	45^{+20}_{-20}	Ω_{m}	$0.302^{+0.016}_{-0.016}$	$D_{\text{M}}(0.38)$	1517^{+21}_{-21}
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	$\Omega_{\text{m}} h^2$	$0.1410^{+0.0026}_{-0.0026}$	$H(0.51)$	$90.08^{+0.65}_{-0.62}$
A_{217}^{PS}	114^{+30}_{-30}	$\Omega_{\text{m}} h^3$	$0.09632^{+0.00075}_{-0.00075}$	$D_{\text{M}}(0.51)$	1967^{+24}_{-25}
A^{kSZ}	—	σ_8	$0.804^{+0.017}_{-0.015}$	$H(0.61)$	$95.63^{+0.54}_{-0.51}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	S_8	$0.807^{+0.032}_{-0.031}$	$D_{\text{M}}(0.61)$	2290^{+26}_{-27}
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.442^{+0.017}_{-0.017}$	$H(2.33)$	$235.3^{+1.6}_{-1.7}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.7^{+8.6}_{-8.5}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.596^{+0.017}_{-0.016}$	$D_{\text{M}}(2.33)$	5749^{+24}_{-25}
A_{217}^{dustTT}	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.973^{+0.025}_{-0.023}$	$f\sigma_8(0.15)$	$0.447^{+0.016}_{-0.016}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	$r_{\text{drag}} h$	$100.8^{+2.1}_{-2.1}$	$\sigma_8(0.15)$	$0.744^{+0.016}_{-0.013}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.074}$	$\langle d^2 \rangle^{1/2}$	$2.410^{+0.061}_{-0.056}$	$f\sigma_8(0.38)$	$0.467^{+0.014}_{-0.013}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	z_{re}	< 9.49	$\sigma_8(0.38)$	$0.660^{+0.014}_{-0.011}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	$2.095^{+0.089}_{-0.062}$	$f\sigma_8(0.51)$	$0.467^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.873^{+0.029}_{-0.028}$	$\sigma_8(0.51)$	$0.618^{+0.013}_{-0.0099}$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.69}$	D_{40}	1221^{+31}_{-30}	$f\sigma_8(0.61)$	$0.463^{+0.012}_{-0.011}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5744^{+100}_{-100}	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.0093}$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	D_{810}	2536^{+35}_{-35}	$f\sigma_8(2.33)$	$0.2972^{+0.0063}_{-0.0046}$
b_{DES}^1	$1.51^{+0.19}_{-0.19}$	D_{1420}	818^{+13}_{-12}	$\sigma_8(2.33)$	$0.3068^{+0.0067}_{-0.0047}$
b_{DES}^2	$1.71^{+0.13}_{-0.13}$	D_{2000}	$231.2^{+4.1}_{-4.1}$	f_{2000}^{143}	29^{+7}_{-7}
b_{DES}^3	$1.70^{+0.11}_{-0.11}$	$n_{\text{s},0.002}$	$0.9697^{+0.0098}_{-0.010}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^4	$2.06^{+0.13}_{-0.13}$	Y_{P}	$0.24545^{+0.00014}_{-0.00014}$	f_{2000}^{217}	$106.7^{+4.7}_{-4.6}$
b_{DES}^5	$2.16^{+0.19}_{-0.20}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00014}_{-0.00014}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
m_{DES}^1	$0.012^{+0.059}_{-0.059}$	10^5D/H	$2.558^{+0.067}_{-0.064}$	χ_{lowl}^2	$22.59 (\nu: 0.3)$
m_{DES}^2	$0.012^{+0.058}_{-0.058}$	Age/Gyr	$13.767^{+0.055}_{-0.055}$	χ_{plik}^2	$2363.2 (\nu: 20.6)$
m_{DES}^3	$-0.003^{+0.052}_{-0.050}$	z_*	$1089.54^{+0.59}_{-0.57}$	χ_{DES}^2	$518.0 (\nu: 11.8)$
m_{DES}^4	$0.003^{+0.053}_{-0.053}$	r_*	$144.88^{+0.64}_{-0.62}$	χ_{prior}^2	$25 (\nu: 23.0)$
$A_{\text{IA,DES}}$	$0.47^{+0.47}_{-0.39}$	$100\theta_*$	$1.04130^{+0.00076}_{-0.00076}$	χ_{CMB}^2	$2782.8 (\nu: 19.7)$
$\alpha_{\text{IA,DES}}$	—	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.913^{+0.061}_{-0.060}$		

$$\bar{\chi}_{\text{eff}}^2 = 3325.44; R - 1 = 0.00547$$

2.261 base_plikHM_TTTEEE_lowl_lowE_DES_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00035}_{-0.00036}$	$\Delta z_{\mathrm{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	k_{D}	$0.14057^{+0.00073}_{-0.00073}$
$\Omega_{\mathrm{c}}h^2$	$0.1180^{+0.0022}_{-0.0023}$	$\Delta z_{\mathrm{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.16066^{+0.00045}_{-0.00044}$
$100\theta_{\mathrm{MC}}$	$1.04111^{+0.00074}_{-0.00075}$	$\Delta z_{\mathrm{l,DES}}^4$	$0.000^{+0.023}_{-0.023}$	z_{eq}	3357^{+51}_{-52}
τ	$0.056^{+0.018}_{-0.013}$	$\Delta z_{\mathrm{l,DES}}^5$	$0.000^{+0.025}_{-0.024}$	k_{eq}	$0.01025^{+0.00016}_{-0.00016}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.041}_{-0.030}$	$\Delta z_{\mathrm{s,DES}}^1$	$-0.003^{+0.037}_{-0.037}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.010}_{-0.0096}$
n_{s}	$0.9694^{+0.0092}_{-0.0095}$	$\Delta z_{\mathrm{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0051}_{-0.0049}$
y_{cal}	$1.0004^{+0.0063}_{-0.0063}$	$\Delta z_{\mathrm{s,DES}}^3$	$0.004^{+0.025}_{-0.024}$	$H(0.15)$	$73.44^{+0.91}_{-0.85}$
A_{217}^{CIB}	47^{+20}_{-20}	$\Delta z_{\mathrm{s,DES}}^4$	$-0.030^{+0.047}_{-0.048}$	$D_{\mathrm{M}}(0.15)$	$635.8^{+8.3}_{-8.7}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	H_0	$68.3^{+1.0}_{-0.98}$	$H(0.38)$	$83.41^{+0.68}_{-0.63}$
A_{143}^{tSZ}	> 0.889	Ω_{Λ}	$0.697^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(0.38)$	1518^{+17}_{-18}
A_{100}^{PS}	258^{+70}_{-70}	Ω_{m}	$0.303^{+0.013}_{-0.013}$	$H(0.51)$	$90.04^{+0.56}_{-0.52}$
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\mathrm{m}}h^2$	$0.1411^{+0.0021}_{-0.0022}$	$D_{\mathrm{M}}(0.51)$	1968^{+20}_{-21}
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	$\Omega_{\mathrm{m}}h^3$	$0.09632^{+0.00075}_{-0.00076}$	$H(0.61)$	$95.60^{+0.47}_{-0.44}$
A_{217}^{PS}	114^{+30}_{-30}	σ_8	$0.804^{+0.017}_{-0.014}$	$D_{\mathrm{M}}(0.61)$	2291^{+21}_{-22}
A^{kSZ}	—	S_8	$0.808^{+0.028}_{-0.026}$	$H(2.33)$	$235.4^{+1.4}_{-1.4}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.6}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.443^{+0.015}_{-0.014}$	$D_{\mathrm{M}}(2.33)$	5750^{+22}_{-22}
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.7}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.016}_{-0.014}$	$f\sigma_8(0.15)$	$0.448^{+0.014}_{-0.014}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.7^{+8.5}_{-8.4}$	$\sigma_8/h^{0.5}$	$0.973^{+0.024}_{-0.021}$	$\sigma_8(0.15)$	$0.744^{+0.016}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$r_{\mathrm{drag}}h$	$100.7^{+1.8}_{-1.7}$	$f\sigma_8(0.38)$	$0.468^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.098}_{-0.092}$	$\langle d^2 \rangle^{1/2}$	$2.412^{+0.056}_{-0.052}$	$\sigma_8(0.38)$	$0.660^{+0.014}_{-0.010}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.075}_{-0.075}$	z_{re}	< 9.43	$f\sigma_8(0.51)$	$0.468^{+0.012}_{-0.011}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.21}$	$10^9 A_{\mathrm{s}}$	$2.094^{+0.087}_{-0.061}$	$\sigma_8(0.51)$	$0.618^{+0.013}_{-0.0096}$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.874^{+0.028}_{-0.027}$	$f\sigma_8(0.61)$	$0.463^{+0.011}_{-0.0096}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	D_{40}	1222^{+30}_{-29}	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.0091}$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.69}_{-0.69}$	D_{220}	5743^{+100}_{-100}	$f\sigma_8(2.33)$	$0.2971^{+0.0062}_{-0.0045}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{810}	2537^{+36}_{-35}	$\sigma_8(2.33)$	$0.3067^{+0.0066}_{-0.0046}$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	D_{1420}	818^{+12}_{-12}	f_{2000}^{143}	29^{+7}_{-7}
b_{DES}^1	$1.51^{+0.18}_{-0.20}$	D_{2000}	$231.1^{+4.0}_{-4.0}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
b_{DES}^2	$1.71^{+0.14}_{-0.13}$	$n_{\mathrm{s},0.002}$	$0.9694^{+0.0092}_{-0.0095}$	f_{2000}^{217}	$106.7^{+4.7}_{-4.5}$
b_{DES}^3	$1.70^{+0.11}_{-0.12}$	Y_{P}	$0.24545^{+0.00013}_{-0.00014}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
b_{DES}^4	$2.06^{+0.14}_{-0.14}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00013}_{-0.00014}$	χ_{lowl}^2	$22.64 (\nu: 0.3)$
b_{DES}^5	$2.16^{+0.19}_{-0.19}$	$10^5\mathrm{D}/\mathrm{H}$	$2.560^{+0.066}_{-0.062}$	χ_{plik}^2	$2362.7 (\nu: 19.1)$
m_{DES}^1	$0.012^{+0.058}_{-0.060}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.769^{+0.049}_{-0.050}$	$\chi_{6\mathrm{DF}}^2$	$0.021 (\nu: 0.0)$
m_{DES}^2	$0.012^{+0.059}_{-0.057}$	z_*	$1089.57^{+0.54}_{-0.52}$	χ_{MGS}^2	$1.85 (\nu: 0.1)$
m_{DES}^3	$-0.003^{+0.050}_{-0.049}$	r_*	$144.85^{+0.56}_{-0.56}$	$\chi_{\mathrm{DR12BAO}}^2$	$3.73 (\nu: 0.1)$
m_{DES}^4	$0.002^{+0.054}_{-0.053}$	$100\theta_*$	$1.04128^{+0.00073}_{-0.00074}$	χ_{DES}^2	$518.2 (\nu: 11.8)$
$A_{\mathrm{IA,DES}}$	$0.47^{+0.47}_{-0.38}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.911^{+0.054}_{-0.054}$	χ_{prior}^2	$25 (\nu: 22.8)$
$\alpha_{\mathrm{IA,DES}}$	—	z_{drag}	$1060.11^{+0.77}_{-0.75}$	χ_{BAO}^2	$5.60 (\nu: 0.1)$
$\Delta z_{\mathrm{l,DES}}^1$	$0.004^{+0.019}_{-0.019}$	r_{drag}	$147.47^{+0.59}_{-0.60}$	χ_{CMB}^2	$2782.2 (\nu: 18.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3330.75; R - 1 = 0.00777$$

2.262 base_plikHM_TTTEEE_lowl_lowE_DES_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00036}_{-0.00036}$	$\Delta z_{\text{l,DES}}^1$	$0.004^{+0.019}_{-0.019}$	z_{drag}	$1060.13^{+0.79}_{-0.77}$
$\Omega_c h^2$	$0.1181^{+0.0025}_{-0.0026}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	r_{drag}	$147.43^{+0.63}_{-0.62}$
$100\theta_{\text{MC}}$	$1.04110^{+0.00076}_{-0.00076}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	k_{D}	$0.14061^{+0.00072}_{-0.00074}$
τ	$0.057^{+0.019}_{-0.015}$	$\Delta z_{\text{l,DES}}^4$	$0.000^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	$0.16065^{+0.00046}_{-0.00044}$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.038}_{-0.030}$	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.024}$	z_{eq}	3360^{+56}_{-58}
n_{s}	$0.9689^{+0.0098}_{-0.0099}$	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.038}$	k_{eq}	$0.01026^{+0.00017}_{-0.00018}$
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{eq}}$	$0.821^{+0.011}_{-0.011}$
A_{217}^{CIB}	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^3$	$0.003^{+0.025}_{-0.024}$	$100\theta_{\text{s,eq}}$	$0.4535^{+0.0058}_{-0.0054}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$\Delta z_{\text{s,DES}}^4$	$-0.031^{+0.046}_{-0.049}$	$H(0.15)$	$73.4^{+1.0}_{-0.96}$
A_{143}^{tSZ}	> 0.889	H_0	$68.2^{+1.2}_{-1.1}$	$D_{\text{M}}(0.15)$	$636.2^{+9.5}_{-9.9}$
A_{100}^{PS}	258^{+70}_{-70}	Ω_{Λ}	$0.696^{+0.015}_{-0.015}$	$H(0.38)$	$83.38^{+0.77}_{-0.71}$
A_{143}^{PS}	45^{+20}_{-20}	Ω_{m}	$0.304^{+0.015}_{-0.015}$	$D_{\text{M}}(0.38)$	1519^{+19}_{-20}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$\Omega_{\text{m}} h^2$	$0.1413^{+0.0024}_{-0.0024}$	$H(0.51)$	$90.03^{+0.62}_{-0.57}$
A_{217}^{PS}	115^{+30}_{-30}	$\Omega_{\text{m}} h^3$	$0.09634^{+0.00073}_{-0.00076}$	$D_{\text{M}}(0.51)$	1969^{+22}_{-24}
A^{kSZ}	—	σ_8	$0.806^{+0.015}_{-0.013}$	$H(0.61)$	$95.59^{+0.51}_{-0.47}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	S_8	$0.811^{+0.027}_{-0.027}$	$D_{\text{M}}(0.61)$	2292^{+24}_{-26}
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.444^{+0.015}_{-0.015}$	$H(2.33)$	$235.5^{+1.5}_{-1.5}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.3}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.599^{+0.014}_{-0.014}$	$D_{\text{M}}(2.33)$	5751^{+23}_{-24}
A_{217}^{dustTT}	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.977^{+0.021}_{-0.020}$	$f\sigma_8(0.15)$	$0.450^{+0.014}_{-0.014}$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.092}$	$r_{\text{drag}} h$	$100.6^{+2.1}_{-1.9}$	$\sigma_8(0.15)$	$0.746^{+0.014}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.075}_{-0.074}$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.051}_{-0.049}$	$f\sigma_8(0.38)$	$0.470^{+0.012}_{-0.011}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	z_{re}	< 9.60	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.010}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	$2.105^{+0.081}_{-0.062}$	$f\sigma_8(0.51)$	$0.469^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.027}_{-0.027}$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0095}$
A_{217}^{dustTE}	$2.07^{+0.69}_{-0.69}$	D_{40}	1224^{+29}_{-28}	$f\sigma_8(0.61)$	$0.465^{+0.010}_{-0.0092}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5749^{+100}_{-99}	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0091}$
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	D_{810}	2539^{+35}_{-34}	$f\sigma_8(2.33)$	$0.2979^{+0.0059}_{-0.0047}$
b_{DES}^1	$1.50^{+0.19}_{-0.20}$	D_{1420}	818^{+12}_{-12}	$\sigma_8(2.33)$	$0.3075^{+0.0063}_{-0.0049}$
b_{DES}^2	$1.70^{+0.14}_{-0.13}$	D_{2000}	$231.3^{+4.0}_{-4.1}$	f_{2000}^{143}	29^{+7}_{-7}
b_{DES}^3	$1.69^{+0.11}_{-0.11}$	$n_{\text{s},0.002}$	$0.9689^{+0.0098}_{-0.0099}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^4	$2.05^{+0.13}_{-0.13}$	Y_{P}	$0.24545^{+0.00014}_{-0.00014}$	f_{2000}^{217}	$106.7^{+4.6}_{-4.5}$
b_{DES}^5	$2.15^{+0.19}_{-0.19}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00014}_{-0.00014}$	χ_{lensing}^2	$9.39 (\nu: 0.4)$
m_{DES}^1	$0.012^{+0.057}_{-0.061}$	10^5D/H	$2.560^{+0.068}_{-0.064}$	χ_{simall}^2	$397.3 (\nu: 2.1)$
m_{DES}^2	$0.012^{+0.060}_{-0.056}$	Age/Gyr	$13.770^{+0.052}_{-0.053}$	χ_{lowl}^2	$22.82 (\nu: 0.3)$
m_{DES}^3	$-0.004^{+0.051}_{-0.049}$	z_*	$1089.58^{+0.57}_{-0.59}$	χ_{plik}^2	$2361.8 (\nu: 18.1)$
m_{DES}^4	$0.002^{+0.053}_{-0.054}$	r_*	$144.81^{+0.61}_{-0.60}$	χ_{DES}^2	$518.4 (\nu: 12.5)$
$A_{\text{IA,DES}}$	$0.47^{+0.46}_{-0.38}$	$100\theta_*$	$1.04127^{+0.00075}_{-0.00075}$	χ_{prior}^2	$25 (\nu: 22.8)$
$\alpha_{\text{IA,DES}}$	—	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.907^{+0.057}_{-0.057}$	χ_{CMB}^2	$2791.4 (\nu: 19.9)$

$$\bar{\chi}_{\text{eff}}^2 = 3334.75; R - 1 = 0.01067$$

2.263 base_plikHM_TTTEEE_lowl_lowE_DES_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00035}_{-0.00036}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	z_{eq}	3361^{+49}_{-48}
$\Omega_c h^2$	$0.1182^{+0.0021}_{-0.0021}$	$\Delta z_{\text{l,DES}}^4$	$0.000^{+0.023}_{-0.023}$	k_{eq}	$0.01026^{+0.00015}_{-0.00015}$
$100\theta_{\text{MC}}$	$1.04109^{+0.00073}_{-0.00074}$	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.024}$	$100\theta_{\text{eq}}$	$0.8212^{+0.0093}_{-0.0091}$
τ	$0.057^{+0.018}_{-0.014}$	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.038}$	$100\theta_{\text{s,eq}}$	$0.4534^{+0.0048}_{-0.0047}$
$\ln(10^{10} A_s)$	$3.046^{+0.038}_{-0.029}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$H(0.15)$	$73.38^{+0.87}_{-0.81}$
n_s	$0.9688^{+0.0093}_{-0.0094}$	$\Delta z_{\text{s,DES}}^3$	$0.003^{+0.025}_{-0.024}$	$D_{\text{M}}(0.15)$	$636.4^{+7.9}_{-8.4}$
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^4$	$-0.031^{+0.046}_{-0.049}$	$H(0.38)$	$83.37^{+0.66}_{-0.61}$
A_{217}^{CIB}	47^{+20}_{-20}	H_0	$68.2^{+1.0}_{-0.93}$	$D_{\text{M}}(0.38)$	1520^{+16}_{-17}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Ω_{Λ}	$0.696^{+0.013}_{-0.013}$	$H(0.51)$	$90.01^{+0.54}_{-0.50}$
A_{143}^{tSZ}	> 0.924	Ω_{m}	$0.304^{+0.013}_{-0.013}$	$D_{\text{M}}(0.51)$	1970^{+19}_{-20}
A_{100}^{PS}	258^{+70}_{-70}	$\Omega_{\text{m}} h^2$	$0.1413^{+0.0020}_{-0.0020}$	$H(0.61)$	$95.58^{+0.46}_{-0.43}$
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\text{m}} h^3$	$0.09634^{+0.00073}_{-0.00075}$	$D_{\text{M}}(0.61)$	2293^{+21}_{-22}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	σ_8	$0.806^{+0.015}_{-0.013}$	$H(2.33)$	$235.5^{+1.3}_{-1.3}$
A_{217}^{PS}	115^{+30}_{-30}	S_8	$0.812^{+0.024}_{-0.024}$	$D_{\text{M}}(2.33)$	5751^{+21}_{-22}
A^{kSZ}	—	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.445^{+0.013}_{-0.013}$	$f\sigma_8(0.15)$	$0.450^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.599^{+0.013}_{-0.013}$	$\sigma_8(0.15)$	$0.746^{+0.014}_{-0.012}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	$\sigma_8/h^{0.5}$	$0.977^{+0.020}_{-0.019}$	$f\sigma_8(0.38)$	$0.470^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.3}$	$r_{\text{drag}} h$	$100.5^{+1.7}_{-1.6}$	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.048}_{-0.045}$	$f\sigma_8(0.51)$	$0.469^{+0.010}_{-0.0094}$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.092}$	z_{re}	< 9.56	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0094}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.075}_{-0.075}$	$10^9 A_s$	$2.104^{+0.081}_{-0.061}$	$f\sigma_8(0.61)$	$0.4649^{+0.0095}_{-0.0087}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	$10^9 A_s e^{-2\tau}$	$1.876^{+0.027}_{-0.027}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0091}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	D_{40}	1225^{+29}_{-28}	$f\sigma_8(2.33)$	$0.2978^{+0.0059}_{-0.0046}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	D_{220}	5749^{+98}_{-98}	$\sigma_8(2.33)$	$0.3074^{+0.0062}_{-0.0048}$
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.68}$	D_{810}	2539^{+35}_{-34}	f_{2000}^{143}	29^{+7}_{-7}
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{1420}	818^{+12}_{-12}	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	D_{2000}	$231.3^{+3.9}_{-4.1}$	f_{2000}^{217}	$106.7^{+4.7}_{-4.5}$
b_{DES}^1	$1.50^{+0.18}_{-0.20}$	$n_{\text{s},0.002}$	$0.9688^{+0.0093}_{-0.0094}$	χ_{lensing}^2	$9.35 (\nu: 0.4)$
b_{DES}^2	$1.70^{+0.14}_{-0.13}$	Y_{P}	$0.24545^{+0.00013}_{-0.00014}$	χ_{simall}^2	$397.3 (\nu: 1.9)$
b_{DES}^3	$1.69^{+0.11}_{-0.11}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00013}_{-0.00014}$	χ_{lowl}^2	$22.83 (\nu: 0.3)$
b_{DES}^4	$2.05^{+0.14}_{-0.13}$	10^5D/H	$2.561^{+0.066}_{-0.062}$	χ_{plik}^2	$2361.6 (\nu: 17.5)$
b_{DES}^5	$2.15^{+0.19}_{-0.19}$	Age/Gyr	$13.770^{+0.049}_{-0.050}$	$\chi_{6\text{DF}}^2$	$0.018 (\nu: 0.0)$
m_{DES}^1	$0.012^{+0.057}_{-0.061}$	z_*	$1089.59^{+0.53}_{-0.52}$	χ_{MGS}^2	$1.77 (\nu: 0.1)$
m_{DES}^2	$0.012^{+0.060}_{-0.056}$	r_*	$144.80^{+0.52}_{-0.52}$	χ_{DR12BAO}^2	$3.77 (\nu: 0.1)$
m_{DES}^3	$-0.004^{+0.050}_{-0.048}$	$100\theta_*$	$1.04126^{+0.00073}_{-0.00073}$	χ_{DES}^2	$518.5 (\nu: 12.2)$
m_{DES}^4	$0.001^{+0.053}_{-0.053}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.906^{+0.051}_{-0.053}$	χ_{prior}^2	$25 (\nu: 22.8)$
$A_{\text{IA,DES}}$	$0.47^{+0.46}_{-0.38}$	z_{drag}	$1060.12^{+0.76}_{-0.76}$	χ_{CMB}^2	$2791.1 (\nu: 18.6)$
$\alpha_{\text{IA,DES}}$	—	r_{drag}	$147.43^{+0.56}_{-0.57}$	χ_{BAO}^2	$5.55 (\nu: 0.1)$
$\Delta z_{\text{l,DES}}^1$	$0.004^{+0.019}_{-0.019}$	k_{D}	$0.14062^{+0.00070}_{-0.00072}$		
$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	$0.16065^{+0.00046}_{-0.00044}$		

$\bar{\chi}_{\text{eff}}^2 = 3340.03$; $R - 1 = 0.01092$

2.264 base_plikHM_TTTEEE_lowl_lowE_DESlens

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022441	$0.02244^{+0.00035}_{-0.00036}$	$\Delta z_{s,\text{DES}}^3$	0.0048	$0.004^{+0.026}_{-0.027}$	z_{eq}	3384	3380^{+64}_{-66}
$\Omega_c h^2$	0.11918	$0.1190^{+0.0028}_{-0.0029}$	$\Delta z_{s,\text{DES}}^4$	-0.022	$-0.022^{+0.052}_{-0.052}$	k_{eq}	0.010329	$0.01032^{+0.00020}_{-0.00020}$
$100\theta_{\text{MC}}$	1.04099	$1.04103^{+0.00076}_{-0.00076}$	H_0	67.72	$67.8^{+1.3}_{-1.3}$	$100\theta_{\text{eq}}$	0.8168	$0.818^{+0.013}_{-0.012}$
τ	0.0533	$0.053^{+0.021}_{-0.020}$	Ω_{Λ}	0.6898	$0.691^{+0.017}_{-0.017}$	$100\theta_{s,\text{eq}}$	0.4511	$0.4516^{+0.0065}_{-0.0062}$
$\ln(10^{10} A_s)$	3.0403	$3.040^{+0.043}_{-0.040}$	Ω_m	0.3102	$0.309^{+0.017}_{-0.017}$	$H(0.15)$	72.99	$73.1^{+1.2}_{-1.1}$
n_s	0.9678	$0.967^{+0.010}_{-0.010}$	$\Omega_m h^2$	0.14226	$0.1421^{+0.0027}_{-0.0028}$	$D_M(0.15)$	640.2	640^{+11}_{-11}
y_{cal}	1.0005	$1.0005^{+0.0063}_{-0.0062}$	$\Omega_m h^3$	0.09635	$0.09633^{+0.00074}_{-0.00075}$	$H(0.38)$	83.09	$83.13^{+0.86}_{-0.79}$
A_{217}^{CIB}	47.0	47^{+20}_{-20}	σ_8	0.8075	$0.807^{+0.017}_{-0.017}$	$D_M(0.38)$	1527.2	1526^{+22}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.44	—	S_8	0.8211	$0.819^{+0.032}_{-0.033}$	$H(0.51)$	89.80	$89.83^{+0.69}_{-0.63}$
A_{143}^{tSZ}	7.23	$5.5^{+4.5}_{-4.6}$	$\sigma_8 \Omega_m^{0.5}$	0.4497	$0.449^{+0.018}_{-0.018}$	$D_M(0.51)$	1978.6	1977^{+26}_{-27}
A_{100}^{PS}	250	259^{+70}_{-70}	$\sigma_8 \Omega_m^{0.25}$	0.6026	$0.601^{+0.017}_{-0.017}$	$H(0.61)$	95.41	$95.44^{+0.56}_{-0.53}$
A_{143}^{PS}	47.3	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.9812	$0.980^{+0.025}_{-0.025}$	$D_M(0.61)$	2302.5	2301^{+27}_{-29}
$A_{143 \times 217}^{\text{PS}}$	47.5	42^{+20}_{-20}	$r_{\text{drag}} h$	99.71	$99.9^{+2.3}_{-2.2}$	$H(2.33)$	236.09	$236.0^{+1.7}_{-1.8}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	2.426	$2.425^{+0.062}_{-0.061}$	$D_M(2.33)$	5757.8	5757^{+25}_{-26}
A^{kSZ}	0.0	—	z_{re}	7.55	$7.5^{+2.0}_{-2.2}$	$f\sigma_8(0.15)$	0.4544	$0.453^{+0.017}_{-0.017}$
A_{100}^{dustTT}	8.81	$8.9^{+4.6}_{-4.7}$	$10^9 A_s$	2.091	$2.091^{+0.091}_{-0.082}$	$\sigma_8(0.15)$	0.7463	$0.746^{+0.016}_{-0.015}$
A_{143}^{dustTT}	11.08	$10.9^{+4.6}_{-4.6}$	$10^9 A_s e^{-2\tau}$	1.8797	$1.879^{+0.028}_{-0.026}$	$f\sigma_8(0.38)$	0.4730	$0.472^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.3}_{-8.6}$	D_{40}	1224.4	1226^{+31}_{-29}	$\sigma_8(0.38)$	0.6617	$0.661^{+0.014}_{-0.013}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	D_{220}	5734	5737^{+100}_{-94}	$f\sigma_8(0.51)$	0.4717	$0.471^{+0.012}_{-0.012}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.098}$	D_{810}	2539.7	2538^{+34}_{-33}	$\sigma_8(0.51)$	0.6193	$0.619^{+0.013}_{-0.012}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.079}_{-0.075}$	D_{1420}	818.5	818^{+12}_{-12}	$f\sigma_8(0.61)$	0.4669	$0.466^{+0.012}_{-0.011}$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.21}$	D_{2000}	231.35	$231.0^{+4.1}_{-3.9}$	$\sigma_8(0.61)$	0.5893	$0.589^{+0.013}_{-0.012}$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$n_{s,0.002}$	0.9678	$0.967^{+0.010}_{-0.010}$	$f\sigma_8(2.33)$	0.2972	$0.2970^{+0.0067}_{-0.0060}$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	Y_{P}	0.245423	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3064	$0.3063^{+0.0071}_{-0.0064}$
A_{217}^{dustTE}	2.07	$2.08^{+0.68}_{-0.70}$	$Y_{\text{P}}^{\text{BBN}}$	0.246749	$0.24675^{+0.00013}_{-0.00014}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
c_{100}	0.99972	$0.9997^{+0.0015}_{-0.0016}$	10^5D/H	2.572	$2.574^{+0.067}_{-0.063}$	$f_{2000}^{143 \times 217}$	31.88	32^{+5}_{-5}
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	Age/Gyr	13.785	$13.783^{+0.055}_{-0.057}$	f_{2000}^{217}	106.55	$106.9^{+4.5}_{-4.6}$
m_{DES}^1	0.015	$0.014^{+0.060}_{-0.058}$	z_*	1089.76	$1089.75^{+0.60}_{-0.62}$	χ_{small}^2	395.86	$396.9 (\nu: 1.4)$
m_{DES}^2	0.012	$0.012^{+0.057}_{-0.057}$	r_*	144.59	$144.64^{+0.66}_{-0.65}$	χ_{lowl}^2	22.84	$22.99 (\nu: 0.3)$
m_{DES}^3	-0.007	$-0.008^{+0.052}_{-0.051}$	$100\theta_*$	1.04117	$1.04121^{+0.00076}_{-0.00075}$	χ_{plik}^2	2346.0	$2360.9 (\nu: 17.6)$
m_{DES}^4	0.013	$0.011^{+0.054}_{-0.054}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.891^{+0.063}_{-0.062}$	χ_{DES}^2	229.2	$232.0 (\nu: 3.2)$
$A_{\text{IA,DES}}$	1.44	$1.2^{+1.2}_{-1.1}$	z_{drag}	1060.05	$1060.02^{+0.75}_{-0.77}$	χ_{prior}^2	2.8	$19.5 (\nu: 18.0)$
$\alpha_{\text{IA,DES}}$	2.49	> -3.98	r_{drag}	147.23	$147.28^{+0.69}_{-0.66}$	χ_{CMB}^2	2764.7	$2780.7 (\nu: 17.3)$
$\Delta z_{s,\text{DES}}^1$	0.0046	$0.005^{+0.037}_{-0.037}$	k_{D}	0.14077	$0.14072^{+0.00075}_{-0.00080}$			
$\Delta z_{s,\text{DES}}^2$	-0.0203	$-0.021^{+0.029}_{-0.030}$	$100\theta_{\text{D}}$	0.160699	$0.16072^{+0.00044}_{-0.00042}$			

Best-fit $\chi_{\text{eff}}^2 = 2996.67$; $\bar{\chi}_{\text{eff}}^2 = 3032.33$; $R - 1 = 0.00975$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2_29: 22.84 plik_rd12_HM_v22b_TTTEEE: 2346.01 WL - DES_1YR_final: 229.20

2.265 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022468	$0.02245^{+0.00034}_{-0.00034}$	$\Delta z_{s,DES}^4$	-0.021	$-0.022^{+0.053}_{-0.052}$	$100\theta_{eq}$	0.8182	$0.819^{+0.010}_{-0.0098}$
$\Omega_c h^2$	0.11885	$0.1187^{+0.0023}_{-0.0023}$	H_0	67.89	$67.9^{+1.1}_{-1.0}$	$100\theta_{s,eq}$	0.4519	$0.4521^{+0.0052}_{-0.0050}$
$100\theta_{MC}$	1.04107	$1.04107^{+0.00075}_{-0.00073}$	Ω_Λ	0.6920	$0.692^{+0.014}_{-0.014}$	$H(0.15)$	73.14	$73.16^{+0.92}_{-0.89}$
τ	0.0548	$0.054^{+0.021}_{-0.020}$	Ω_m	0.3080	$0.308^{+0.014}_{-0.014}$	$D_M(0.15)$	638.8	$638.6^{+8.8}_{-8.9}$
$\ln(10^{10} A_s)$	3.0430	$3.041^{+0.043}_{-0.039}$	$\Omega_m h^2$	0.14197	$0.1418^{+0.0022}_{-0.0022}$	$H(0.38)$	83.20	$83.21^{+0.69}_{-0.65}$
n_s	0.9690	$0.9680^{+0.0094}_{-0.0093}$	$\Omega_m h^3$	0.09638	$0.09633^{+0.00074}_{-0.00074}$	$D_M(0.38)$	1524.4	1524^{+18}_{-18}
y_{cal}	1.0006	$1.0006^{+0.0063}_{-0.0060}$	σ_8	0.8078	$0.806^{+0.017}_{-0.016}$	$H(0.51)$	89.88	$89.89^{+0.57}_{-0.53}$
A_{217}^{CIB}	46.7	47^{+20}_{-20}	S_8	0.8185	$0.816^{+0.028}_{-0.028}$	$D_M(0.51)$	1975.3	1975^{+21}_{-21}
$\xi^{tSZ \times CIB}$	0.56	—	$\sigma_8 \Omega_m^{0.5}$	0.4483	$0.447^{+0.015}_{-0.015}$	$H(0.61)$	95.479	$95.48^{+0.48}_{-0.44}$
A_{143}^{tSZ}	7.23	> 0.879	$\sigma_8 \Omega_m^{0.25}$	0.6018	$0.600^{+0.016}_{-0.015}$	$D_M(0.61)$	2299.0	2299^{+22}_{-23}
A_{100}^{PS}	248	259^{+70}_{-70}	$\sigma_8/h^{0.5}$	0.9804	$0.978^{+0.024}_{-0.022}$	$H(2.33)$	235.92	$235.8^{+1.4}_{-1.4}$
A_{143}^{PS}	48.6	45^{+20}_{-20}	$r_{drag} h$	99.99	$100.1^{+1.8}_{-1.8}$	$D_M(2.33)$	5754.8	5755^{+22}_{-22}
$A_{143 \times 217}^{PS}$	50.4	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.424	$2.422^{+0.058}_{-0.055}$	$f\sigma_8(0.15)$	0.4532	$0.452^{+0.015}_{-0.014}$
A_{217}^{PS}	120.2	114^{+30}_{-30}	z_{re}	7.70	$7.6^{+2.0}_{-2.1}$	$\sigma_8(0.15)$	0.7468	$0.745^{+0.016}_{-0.014}$
A^{kSZ}	0.0	—	$10^9 A_s$	2.097	$2.092^{+0.092}_{-0.079}$	$f\sigma_8(0.38)$	0.4722	$0.471^{+0.013}_{-0.012}$
A_{100}^{dustTT}	8.84	$8.9^{+4.6}_{-4.9}$	$10^9 A_s e^{-2\tau}$	1.8790	$1.878^{+0.028}_{-0.026}$	$\sigma_8(0.38)$	0.6623	$0.661^{+0.014}_{-0.013}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.7}$	D_{40}	1222.6	1225^{+31}_{-28}	$f\sigma_8(0.51)$	0.4712	$0.470^{+0.012}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.2}_{-8.5}$	D_{220}	5736	5739^{+100}_{-95}	$\sigma_8(0.51)$	0.6200	$0.619^{+0.014}_{-0.012}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	D_{810}	2540.5	2538^{+35}_{-32}	$f\sigma_8(0.61)$	0.4666	$0.466^{+0.011}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.099}$	D_{1420}	819.2	818^{+12}_{-12}	$\sigma_8(0.61)$	0.5900	$0.589^{+0.013}_{-0.011}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.080}_{-0.078}$	D_{2000}	231.64	$231.1^{+4.1}_{-3.8}$	$f\sigma_8(2.33)$	0.2976	$0.2972^{+0.0067}_{-0.0058}$
$A_{100 \times 217}^{dustTE}$	0.479	$0.48^{+0.21}_{-0.21}$	$n_{s,0.002}$	0.9690	$0.9680^{+0.0094}_{-0.0093}$	$\sigma_8(2.33)$	0.3070	$0.3065^{+0.0070}_{-0.0063}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	Y_P	0.245433	$0.24543^{+0.00013}_{-0.00013}$	f_{2000}^{143}	28.4	29^{+7}_{-7}
$A_{143 \times 217}^{dustTE}$	0.660	$0.66^{+0.21}_{-0.21}$	Y_P^{BBN}	0.246760	$0.24675^{+0.00013}_{-0.00014}$	$f_{2000}^{143 \times 217}$	31.74	32^{+5}_{-5}
A_{217}^{dustTE}	2.07	$2.07^{+0.69}_{-0.69}$	$10^5 D/H$	2.568	$2.571^{+0.063}_{-0.060}$	f_{2000}^{217}	106.29	$106.8^{+4.5}_{-4.3}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	13.778	$13.779^{+0.050}_{-0.050}$	χ_{small}^2	396.05	$396.9 (\nu: 1.5)$
c_{217}	0.99818	$0.9982^{+0.0015}_{-0.0015}$	z_*	1089.70	$1089.71^{+0.55}_{-0.53}$	χ_{lowl}^2	22.68	$22.87 (\nu: 0.3)$
m_{DES}^1	0.014	$0.014^{+0.059}_{-0.058}$	r_*	144.65	$144.69^{+0.57}_{-0.54}$	χ_{plik}^2	2346.4	$2361.0 (\nu: 17.4)$
m_{DES}^2	0.013	$0.012^{+0.057}_{-0.059}$	$100\theta_*$	1.04125	$1.04124^{+0.00074}_{-0.00073}$	χ_{6DF}^2	0.010	$0.028 (\nu: 0.0)$
m_{DES}^3	-0.006	$-0.007^{+0.053}_{-0.051}$	$D_M(z_*)/\text{Gpc}$	13.892	$13.896^{+0.056}_{-0.052}$	χ_{MGS}^2	1.41	$1.50 (\nu: 0.1)$
m_{DES}^4	0.013	$0.012^{+0.053}_{-0.053}$	z_{drag}	1060.09	$1060.04^{+0.73}_{-0.75}$	$\chi_{DR12BAO}^2$	3.94	$4.18 (\nu: 0.4)$
$A_{IA,DES}$	1.42	$1.2^{+1.3}_{-1.1}$	r_{drag}	147.29	$147.33^{+0.60}_{-0.57}$	χ_{DES}^2	229.1	$231.9 (\nu: 2.9)$
$\alpha_{IA,DES}$	2.58	> -3.86	k_D	0.14074	$0.14068^{+0.00072}_{-0.00076}$	χ_{prior}^2	2.6	$19.4 (\nu: 18.0)$
$\Delta z_{s,DES}^1$	0.0046	$0.004^{+0.038}_{-0.036}$	$100\theta_D$	0.160683	$0.16071^{+0.00043}_{-0.00041}$	χ_{BAO}^2	5.35	$5.71 (\nu: 0.2)$
$\Delta z_{s,DES}^2$	-0.0207	$-0.021^{+0.030}_{-0.030}$	z_{eq}	3377	3374^{+53}_{-53}	χ_{CMB}^2	2765.1	$2780.8 (\nu: 17.0)$
$\Delta z_{s,DES}^3$	0.0053	$0.005^{+0.026}_{-0.027}$	k_{eq}	0.010307	$0.01030^{+0.00016}_{-0.00016}$			

Best-fit $\chi_{eff}^2 = 3002.12$; $\bar{\chi}_{eff}^2 = 3037.77$; $R - 1 = 0.01621$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.94 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3_2_29: 22.68 plik_rd12_HM_v22b_TTTEEE: 2346.36 WL - DES_1YR_final: 229.06

2.266 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022454	$0.02244^{+0.00035}_{-0.00035}$	$\Delta z_{s,\text{DES}}^3$	0.0047	$0.004^{+0.025}_{-0.027}$	z_{eq}	3384	3383^{+61}_{-61}
$\Omega_c h^2$	0.11916	$0.1191^{+0.0027}_{-0.0027}$	$\Delta z_{s,\text{DES}}^4$	-0.022	$-0.023^{+0.053}_{-0.052}$	k_{eq}	0.010328	$0.01033^{+0.00019}_{-0.00018}$
$100\theta_{\text{MC}}$	1.04100	$1.04102^{+0.00078}_{-0.00076}$	H_0	67.75	$67.8^{+1.3}_{-1.2}$	$100\theta_{\text{eq}}$	0.8168	$0.817^{+0.012}_{-0.011}$
τ	0.0554	$0.055^{+0.020}_{-0.019}$	Ω_{Λ}	0.6900	$0.690^{+0.016}_{-0.016}$	$100\theta_{s,\text{eq}}$	0.4512	$0.4513^{+0.0060}_{-0.0059}$
$\ln(10^{10} A_s)$	3.0447	$3.043^{+0.039}_{-0.038}$	Ω_m	0.3100	$0.310^{+0.016}_{-0.016}$	$H(0.15)$	73.01	$73.0^{+1.1}_{-1.0}$
n_s	0.9683	$0.967^{+0.010}_{-0.010}$	$\Omega_m h^2$	0.14225	$0.1422^{+0.0026}_{-0.0025}$	$D_M(0.15)$	640.0	640^{+10}_{-11}
y_{cal}	1.0004	$1.0007^{+0.0063}_{-0.0061}$	$\Omega_m h^3$	0.09637	$0.09634^{+0.00073}_{-0.00074}$	$H(0.38)$	83.11	$83.11^{+0.81}_{-0.74}$
A_{217}^{CIB}	46.0	47^{+20}_{-20}	σ_8	0.8093	$0.808^{+0.015}_{-0.014}$	$D_M(0.38)$	1526.8	1527^{+20}_{-21}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.62	—	S_8	0.8226	$0.821^{+0.028}_{-0.028}$	$H(0.51)$	89.81	$89.81^{+0.67}_{-0.60}$
A_{143}^{tSZ}	7.17	> 0.902	$\sigma_8 \Omega_m^{0.5}$	0.4505	$0.450^{+0.015}_{-0.015}$	$D_M(0.51)$	1978.1	1978^{+24}_{-25}
A_{100}^{PS}	247	259^{+70}_{-70}	$\sigma_8 \Omega_m^{0.25}$	0.6038	$0.603^{+0.014}_{-0.014}$	$H(0.61)$	95.43	$95.42^{+0.55}_{-0.49}$
A_{143}^{PS}	49.3	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.9832	$0.982^{+0.021}_{-0.021}$	$D_M(0.61)$	2302.0	2302^{+25}_{-27}
$A_{143 \times 217}^{\text{PS}}$	52.0	42^{+20}_{-20}	$r_{\text{drag}} h$	99.74	$99.8^{+2.2}_{-2.1}$	$H(2.33)$	236.09	$236.1^{+1.6}_{-1.6}$
A_{217}^{PS}	121.4	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	2.430	$2.431^{+0.051}_{-0.050}$	$D_M(2.33)$	5757.1	5757^{+24}_{-25}
A^{kSZ}	0.0	—	z_{re}	7.76	$7.7^{+1.9}_{-2.0}$	$f\sigma_8(0.15)$	0.4553	$0.455^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.9}$	$10^9 A_s$	2.100	$2.097^{+0.083}_{-0.078}$	$\sigma_8(0.15)$	0.7480	$0.747^{+0.014}_{-0.013}$
A_{143}^{dustTT}	11.01	$10.9^{+4.7}_{-4.7}$	$10^9 A_s e^{-2\tau}$	1.8802	$1.880^{+0.027}_{-0.025}$	$f\sigma_8(0.38)$	0.4739	$0.473^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.6^{+8.2}_{-8.4}$	D_{40}	1224.4	1228^{+30}_{-29}	$\sigma_8(0.38)$	0.6632	$0.662^{+0.013}_{-0.012}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	D_{220}	5735	5741^{+99}_{-97}	$f\sigma_8(0.51)$	0.4727	$0.472^{+0.010}_{-0.010}$
A_{100}^{dustTE}	0.114	$0.113^{+0.098}_{-0.099}$	D_{810}	2540.5	2539^{+35}_{-32}	$\sigma_8(0.51)$	0.6207	$0.620^{+0.012}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.080}_{-0.078}$	D_{1420}	819.0	818^{+13}_{-12}	$f\sigma_8(0.61)$	0.4679	$0.4672^{+0.0098}_{-0.0096}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.21}_{-0.21}$	D_{2000}	231.57	$231.1^{+4.3}_{-3.9}$	$\sigma_8(0.61)$	0.5906	$0.590^{+0.012}_{-0.011}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$n_{s,0.002}$	0.9683	$0.967^{+0.010}_{-0.010}$	$f\sigma_8(2.33)$	0.2979	$0.2975^{+0.0061}_{-0.0056}$
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.20}$	Y_{P}	0.245428	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3072	$0.3068^{+0.0067}_{-0.0060}$
A_{217}^{dustTE}	2.08	$2.07^{+0.69}_{-0.68}$	$Y_{\text{P}}^{\text{BBN}}$	0.246754	$0.24675^{+0.00013}_{-0.00014}$	f_{2000}^{143}	28.2	29^{+7}_{-7}
c_{100}	0.99975	$0.9997^{+0.0015}_{-0.0016}$	$10^5 \text{D}/\text{H}$	2.570	$2.574^{+0.066}_{-0.063}$	$f_{2000}^{143 \times 217}$	31.68	32^{+5}_{-5}
c_{217}	0.99817	$0.9982^{+0.0015}_{-0.0015}$	Age/Gyr	13.783	$13.784^{+0.054}_{-0.056}$	f_{2000}^{217}	106.24	$106.9^{+4.5}_{-4.4}$
m_{DES}^1	0.014	$0.014^{+0.059}_{-0.058}$	z_*	1089.74	$1089.76^{+0.59}_{-0.60}$	χ_{lensing}^2	8.77	$9.16 (\nu: 0.2)$
m_{DES}^2	0.012	$0.012^{+0.061}_{-0.056}$	r_*	144.59	$144.61^{+0.63}_{-0.62}$	χ_{small}^2	396.20	$397.0 (\nu: 1.5)$
m_{DES}^3	-0.007	$-0.009^{+0.053}_{-0.052}$	$100\theta_*$	1.04118	$1.04120^{+0.00078}_{-0.00074}$	χ_{lowl}^2	22.85	$23.12 (\nu: 0.3)$
m_{DES}^4	0.012	$0.010^{+0.053}_{-0.053}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.889^{+0.060}_{-0.059}$	χ_{plik}^2	2345.8	$2360.1 (\nu: 16.3)$
$A_{\text{IA,DES}}$	1.45	$1.3^{+1.3}_{-1.1}$	z_{drag}	1060.09	$1060.03^{+0.75}_{-0.74}$	χ_{DES}^2	229.3	$232.1 (\nu: 3.3)$
$\alpha_{\text{IA,DES}}$	2.50	> -3.86	r_{drag}	147.22	$147.25^{+0.64}_{-0.63}$	χ_{prior}^2	2.6	$19.7 (\nu: 18.2)$
$\Delta z_{s,\text{DES}}^1$	0.0045	$0.005^{+0.037}_{-0.037}$	k_{D}	0.14079	$0.14075^{+0.00070}_{-0.00076}$	χ_{CMB}^2	2773.6	$2789.4 (\nu: 17.2)$
$\Delta z_{s,\text{DES}}^2$	-0.0204	$-0.021^{+0.029}_{-0.030}$	$100\theta_{\text{D}}$	0.160683	$0.16071^{+0.00044}_{-0.00042}$			

Best-fit $\chi_{\text{eff}}^2 = 3005.49$; $\bar{\chi}_{\text{eff}}^2 = 3041.15$; $R - 1 = 0.01376$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3.2_29: 22.85 plik_rd12_HM_v22b.TTTEEE: 2345.76 WL - DES_1YR_final: 229.30

2.267 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022468	$0.02246^{+0.00033}_{-0.00034}$	$\Delta z_{s,\text{DES}}^4$	-0.021	$-0.022^{+0.052}_{-0.052}$	$100\theta_{\text{eq}}$	0.8183	$0.8182^{+0.0094}_{-0.0094}$
$\Omega_c h^2$	0.11882	$0.1188^{+0.0022}_{-0.0022}$	H_0	67.89	$67.9^{+1.0}_{-0.99}$	$100\theta_{s,\text{eq}}$	0.45193	$0.4519^{+0.0049}_{-0.0048}$
$100\theta_{\text{MC}}$	1.04103	$1.04106^{+0.00075}_{-0.00074}$	Ω_Λ	0.6921	$0.692^{+0.013}_{-0.013}$	$H(0.15)$	73.14	$73.13^{+0.90}_{-0.85}$
τ	0.0555	$0.056^{+0.019}_{-0.018}$	Ω_m	0.3079	$0.308^{+0.013}_{-0.013}$	$D_M(0.15)$	638.8	$638.9^{+8.5}_{-8.8}$
$\ln(10^{10} A_s)$	3.0444	$3.044^{+0.040}_{-0.036}$	$\Omega_m h^2$	0.14193	$0.1419^{+0.0021}_{-0.0021}$	$H(0.38)$	83.19	$83.19^{+0.68}_{-0.63}$
n_s	0.9688	$0.9676^{+0.0095}_{-0.0093}$	$\Omega_m h^3$	0.09635	$0.09635^{+0.00073}_{-0.00073}$	$D_M(0.38)$	1524.4	1525^{+17}_{-18}
y_{cal}	1.0006	$1.0008^{+0.0062}_{-0.0061}$	σ_8	0.8081	$0.808^{+0.015}_{-0.014}$	$H(0.51)$	89.88	$89.87^{+0.55}_{-0.52}$
A_{217}^{CIB}	46.6	47^{+20}_{-20}	S_8	0.8187	$0.819^{+0.024}_{-0.024}$	$D_M(0.51)$	1975.3	1976^{+20}_{-21}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.49	—	$\sigma_8 \Omega_m^{0.5}$	0.4484	$0.448^{+0.013}_{-0.013}$	$H(0.61)$	95.473	$95.47^{+0.47}_{-0.44}$
A_{143}^{tSZ}	7.30	> 0.890	$\sigma_8 \Omega_m^{0.25}$	0.6020	$0.602^{+0.014}_{-0.013}$	$D_M(0.61)$	2299.0	2299^{+21}_{-23}
A_{100}^{PS}	248	259^{+70}_{-70}	$\sigma_8/h^{0.5}$	0.9808	$0.981^{+0.020}_{-0.019}$	$H(2.33)$	235.89	$235.9^{+1.3}_{-1.4}$
A_{143}^{PS}	47.4	45^{+20}_{-20}	$r_{\text{drag}} h$	99.997	$99.99^{+1.7}_{-1.7}$	$D_M(2.33)$	5755.2	5755^{+22}_{-22}
$A_{143 \times 217}^{\text{PS}}$	48.7	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.4254	$2.428^{+0.050}_{-0.048}$	$f\sigma_8(0.15)$	0.4533	$0.453^{+0.013}_{-0.013}$
A_{217}^{PS}	120.2	115^{+30}_{-30}	z_{re}	7.77	$7.8^{+1.8}_{-1.9}$	$\sigma_8(0.15)$	0.7471	$0.747^{+0.014}_{-0.013}$
A^{kSZ}	0.0	—	$10^9 A_s$	2.100	$2.100^{+0.084}_{-0.075}$	$f\sigma_8(0.38)$	0.4724	$0.472^{+0.011}_{-0.011}$
A_{100}^{dustTT}	8.86	$8.9^{+4.6}_{-4.9}$	$10^9 A_s e^{-2\tau}$	1.8789	$1.879^{+0.027}_{-0.025}$	$\sigma_8(0.38)$	0.6626	$0.662^{+0.013}_{-0.012}$
A_{143}^{dustTT}	11.04	$10.9^{+4.7}_{-4.7}$	D_{40}	1223.4	1227^{+29}_{-28}	$f\sigma_8(0.51)$	0.4714	$0.471^{+0.010}_{-0.0097}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+8.3}_{-8.4}$	D_{220}	5738	5743^{+98}_{-96}	$\sigma_8(0.51)$	0.6203	$0.620^{+0.012}_{-0.011}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	D_{810}	2540.4	2540^{+34}_{-32}	$f\sigma_8(0.61)$	0.4667	$0.4667^{+0.0093}_{-0.0091}$
A_{100}^{dustTE}	0.114	$0.113^{+0.098}_{-0.10}$	D_{1420}	819.1	818^{+12}_{-12}	$\sigma_8(0.61)$	0.5903	$0.590^{+0.012}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.080}_{-0.078}$	D_{2000}	231.59	$231.2^{+4.2}_{-3.8}$	$f\sigma_8(2.33)$	0.2978	$0.2977^{+0.0062}_{-0.0055}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.21}_{-0.21}$	$n_{s,0.002}$	0.9688	$0.9676^{+0.0095}_{-0.0093}$	$\sigma_8(2.33)$	0.3071	$0.3071^{+0.0066}_{-0.0059}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	Y_{P}	0.245433	$0.24543^{+0.00012}_{-0.00014}$	f_{2000}^{143}	28.4	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	$Y_{\text{P}}^{\text{BBN}}$	0.246760	$0.24675^{+0.00013}_{-0.00014}$	$f_{2000}^{143 \times 217}$	31.70	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.07^{+0.68}_{-0.68}$	10^5D/H	2.568	$2.570^{+0.063}_{-0.060}$	f_{2000}^{217}	106.38	$106.8^{+4.6}_{-4.3}$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	13.779	$13.780^{+0.050}_{-0.050}$	χ_{lensing}^2	8.85	$9.17 (\nu: 0.2)$
c_{217}	0.99818	$0.9982^{+0.0015}_{-0.0015}$	z_*	1089.69	$1089.71^{+0.54}_{-0.53}$	χ_{small}^2	396.20	$397.1 (\nu: 1.6)$
m_{DES}^1	0.014	$0.014^{+0.059}_{-0.058}$	r_*	144.66	$144.66^{+0.55}_{-0.52}$	χ_{lowl}^2	22.73	$23.01 (\nu: 0.3)$
m_{DES}^2	0.012	$0.012^{+0.059}_{-0.058}$	$100\theta_*$	1.04121	$1.04124^{+0.00075}_{-0.00073}$	χ_{plik}^2	2346.1	$2360.3 (\nu: 16.3)$
m_{DES}^3	-0.006	$-0.008^{+0.052}_{-0.051}$	$D_M(z_*)/\text{Gpc}$	13.894	$13.894^{+0.053}_{-0.050}$	$\chi_{6\text{DF}}^2$	0.010	$0.030 (\nu: 0.0)$
m_{DES}^4	0.013	$0.011^{+0.053}_{-0.053}$	z_{drag}	1060.09	$1060.05^{+0.72}_{-0.73}$	χ_{MGS}^2	1.41	$1.45 (\nu: 0.1)$
$A_{\text{IA,DES}}$	1.42	$1.2^{+1.3}_{-1.1}$	r_{drag}	147.29	$147.30^{+0.58}_{-0.54}$	χ_{DR12BAO}^2	3.93	$4.24 (\nu: 0.4)$
$\alpha_{\text{IA,DES}}$	2.57	> -3.88	k_{D}	0.14073	$0.14071^{+0.00070}_{-0.00076}$	χ_{DES}^2	229.1	$231.9 (\nu: 3.0)$
$\Delta z_{s,\text{DES}}^1$	0.0049	$0.005^{+0.038}_{-0.036}$	$100\theta_{\text{D}}$	0.160678	$0.16070^{+0.00044}_{-0.00041}$	χ_{prior}^2	2.7	$19.5 (\nu: 18.1)$
$\Delta z_{s,\text{DES}}^2$	-0.0205	$-0.021^{+0.029}_{-0.030}$	z_{eq}	3376	3377^{+50}_{-51}	χ_{CMB}^2	2773.9	$2789.5 (\nu: 17.1)$
$\Delta z_{s,\text{DES}}^3$	0.0055	$0.005^{+0.025}_{-0.028}$	k_{eq}	0.010305	$0.01031^{+0.00015}_{-0.00015}$	χ_{BAO}^2	5.35	$5.73 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 3011.01$; $\bar{\chi}_{\text{eff}}^2 = 3046.67$; $R - 1 = 0.01525$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.93 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.85 small_100x143.offlike5_EE_Aplanck_B: 396.20 commander_dx12.v3.2.29: 22.73 plik_rd12_HM_v22b_TTTEEE: 2346.15 WL - DES.1YR.final: 229.07

2.268 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02244^{+0.00036}_{-0.00035}$	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.027}_{-0.027}$	z_{eq}	3379^{+64}_{-66}
$\Omega_c h^2$	$0.1190^{+0.0028}_{-0.0029}$	$\Delta z_{\text{s,DES}}^4$	$-0.023^{+0.052}_{-0.052}$	k_{eq}	$0.01031^{+0.00019}_{-0.00020}$
$100\theta_{\text{MC}}$	$1.04104^{+0.00076}_{-0.00077}$	H_0	$67.8^{+1.3}_{-1.2}$	$100\theta_{\text{eq}}$	$0.818^{+0.012}_{-0.012}$
τ	$0.055^{+0.019}_{-0.013}$	Ω_{Λ}	$0.691^{+0.017}_{-0.017}$	$100\theta_{\text{s,eq}}$	$0.4517^{+0.0065}_{-0.0061}$
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.041}_{-0.028}$	Ω_{m}	$0.309^{+0.017}_{-0.017}$	$H(0.15)$	$73.1^{+1.1}_{-1.0}$
n_{s}	$0.968^{+0.010}_{-0.010}$	$\Omega_{\text{m}} h^2$	$0.1420^{+0.0027}_{-0.0028}$	$D_{\text{M}}(0.15)$	639^{+10}_{-11}
y_{cal}	$1.0005^{+0.0063}_{-0.0062}$	$\Omega_{\text{m}} h^3$	$0.09633^{+0.00074}_{-0.00074}$	$H(0.38)$	$83.15^{+0.85}_{-0.77}$
A_{217}^{CIB}	47^{+20}_{-20}	σ_8	$0.807^{+0.017}_{-0.014}$	$D_{\text{M}}(0.38)$	1526^{+21}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	S_8	$0.819^{+0.032}_{-0.033}$	$H(0.51)$	$89.84^{+0.68}_{-0.62}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.018}_{-0.018}$	$D_{\text{M}}(0.51)$	1977^{+25}_{-27}
A_{100}^{PS}	258^{+70}_{-70}	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.602^{+0.017}_{-0.017}$	$H(0.61)$	$95.45^{+0.56}_{-0.51}$
A_{143}^{PS}	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.981^{+0.024}_{-0.024}$	$D_{\text{M}}(0.61)$	2301^{+27}_{-29}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$r_{\text{drag}} h$	$99.9^{+2.3}_{-2.1}$	$H(2.33)$	$236.0^{+1.7}_{-1.8}$
A_{217}^{PS}	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.060}_{-0.056}$	$D_{\text{M}}(2.33)$	5757^{+24}_{-25}
A^{kSZ}	—	z_{re}	< 9.39	$f\sigma_8(0.15)$	$0.454^{+0.016}_{-0.017}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	$10^9 A_{\text{s}}$	$2.096^{+0.087}_{-0.058}$	$\sigma_8(0.15)$	$0.746^{+0.016}_{-0.012}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.026}$	$f\sigma_8(0.38)$	$0.472^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.6}$	D_{40}	1226^{+31}_{-29}	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	D_{220}	5737^{+100}_{-94}	$f\sigma_8(0.51)$	$0.471^{+0.012}_{-0.012}$
A_{100}^{dustTE}	$0.113^{+0.099}_{-0.098}$	D_{810}	2538^{+34}_{-33}	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.0092}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.080}_{-0.075}$	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.61)$	$0.467^{+0.011}_{-0.011}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	D_{2000}	$231.1^{+4.1}_{-3.9}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0087}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	$0.968^{+0.010}_{-0.010}$	$f\sigma_8(2.33)$	$0.2974^{+0.0064}_{-0.0043}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	Y_{P}	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3067^{+0.0068}_{-0.0045}$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.70}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24675^{+0.00013}_{-0.00014}$	f_{2000}^{143}	29^{+7}_{-7}
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	10^5D/H	$2.573^{+0.066}_{-0.063}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	Age/Gyr	$13.782^{+0.055}_{-0.057}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.6}$
m_{DES}^1	$0.014^{+0.059}_{-0.058}$	z_*	$1089.74^{+0.59}_{-0.61}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
m_{DES}^2	$0.012^{+0.057}_{-0.057}$	r_*	$144.65^{+0.66}_{-0.65}$	χ_{lowl}^2	$22.99 (\nu: 0.3)$
m_{DES}^3	$-0.008^{+0.053}_{-0.051}$	$100\theta_*$	$1.04122^{+0.00076}_{-0.00076}$	χ_{plik}^2	$2360.7 (\nu: 17.4)$
m_{DES}^4	$0.011^{+0.054}_{-0.054}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.892^{+0.063}_{-0.062}$	χ_{DES}^2	$232.1 (\nu: 3.2)$
$A_{\text{IA,DES}}$	$1.2^{+1.2}_{-1.2}$	z_{drag}	$1060.02^{+0.75}_{-0.74}$	χ_{prior}^2	$19.5 (\nu: 18.1)$
$\alpha_{\text{IA,DES}}$	> -4.00	r_{drag}	$147.29^{+0.69}_{-0.66}$	χ_{CMB}^2	$2780.5 (\nu: 16.9)$
$\Delta z_{\text{s,DES}}^1$	$0.005^{+0.038}_{-0.037}$	k_{D}	$0.14071^{+0.00075}_{-0.00080}$		
$\Delta z_{\text{s,DES}}^2$	$-0.021^{+0.030}_{-0.030}$	$100\theta_{\text{D}}$	$0.16071^{+0.00044}_{-0.00042}$		

$$\bar{\chi}_{\text{eff}}^2 = 3032.07; R - 1 = 0.00937$$

2.269 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02246^{+0.00033}_{-0.00034}$	$\Delta z_{s,\text{DES}}^4$	$-0.022^{+0.053}_{-0.053}$	$100\theta_{\text{eq}}$	$0.819^{+0.010}_{-0.0098}$
$\Omega_c h^2$	$0.1187^{+0.0023}_{-0.0023}$	H_0	$67.9^{+1.1}_{-1.0}$	$100\theta_{s,\text{eq}}$	$0.4522^{+0.0052}_{-0.0050}$
$100\theta_{\text{MC}}$	$1.04107^{+0.00075}_{-0.00074}$	Ω_Λ	$0.693^{+0.014}_{-0.014}$	$H(0.15)$	$73.17^{+0.92}_{-0.87}$
τ	$0.055^{+0.019}_{-0.013}$	Ω_m	$0.307^{+0.014}_{-0.014}$	$D_{\text{M}}(0.15)$	$638.5^{+8.7}_{-8.8}$
$\ln(10^{10} A_s)$	$3.043^{+0.042}_{-0.029}$	$\Omega_m h^2$	$0.1418^{+0.0022}_{-0.0022}$	$H(0.38)$	$83.21^{+0.69}_{-0.64}$
n_s	$0.9681^{+0.0093}_{-0.0092}$	$\Omega_m h^3$	$0.09633^{+0.00074}_{-0.00073}$	$D_{\text{M}}(0.38)$	1524^{+17}_{-18}
y_{cal}	$1.0006^{+0.0063}_{-0.0060}$	σ_8	$0.807^{+0.017}_{-0.014}$	$H(0.51)$	$89.89^{+0.57}_{-0.53}$
A_{217}^{CIB}	47^{+20}_{-20}	S_8	$0.817^{+0.028}_{-0.027}$	$D_{\text{M}}(0.51)$	1975^{+20}_{-21}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.015}_{-0.015}$	$H(0.61)$	$95.48^{+0.48}_{-0.44}$
A_{143}^{tSZ}	> 0.881	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.015}_{-0.015}$	$D_{\text{M}}(0.61)$	2298^{+22}_{-23}
A_{100}^{PS}	258^{+70}_{-70}	$\sigma_8/h^{0.5}$	$0.979^{+0.023}_{-0.022}$	$H(2.33)$	$235.8^{+1.4}_{-1.4}$
A_{143}^{PS}	45^{+20}_{-20}	$r_{\text{drag}} h$	$100.1^{+1.8}_{-1.8}$	$D_{\text{M}}(2.33)$	5755^{+22}_{-22}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.057}_{-0.052}$	$f\sigma_8(0.15)$	$0.452^{+0.015}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	z_{re}	< 9.42	$\sigma_8(0.15)$	$0.746^{+0.015}_{-0.012}$
A^{kSZ}	—	$10^9 A_s$	$2.097^{+0.090}_{-0.059}$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.9}$	$10^9 A_s e^{-2\tau}$	$1.877^{+0.027}_{-0.025}$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	D_{40}	1225^{+31}_{-27}	$f\sigma_8(0.51)$	$0.471^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.3}$	D_{220}	5739^{+99}_{-95}	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.0094}$
A_{217}^{dustTT}	94^{+20}_{-20}	D_{810}	2538^{+34}_{-32}	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.010}$
A_{100}^{dustTE}	$0.113^{+0.098}_{-0.10}$	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0089}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.080}_{-0.078}$	D_{2000}	$231.2^{+4.0}_{-3.8}$	$f\sigma_8(2.33)$	$0.2975^{+0.0064}_{-0.0044}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	$n_{s,0.002}$	$0.9681^{+0.0093}_{-0.0092}$	$\sigma_8(2.33)$	$0.3069^{+0.0068}_{-0.0046}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	Y_{P}	$0.24543^{+0.00013}_{-0.00014}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24675^{+0.00013}_{-0.00014}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.69}$	$10^5 \text{D}/\text{H}$	$2.570^{+0.063}_{-0.060}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.3}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	$13.779^{+0.050}_{-0.050}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	z_*	$1089.70^{+0.54}_{-0.53}$	χ_{lowl}^2	$22.88 (\nu: 0.3)$
m_{DES}^1	$0.014^{+0.059}_{-0.058}$	r_*	$144.70^{+0.57}_{-0.54}$	χ_{plik}^2	$2360.8 (\nu: 17.1)$
m_{DES}^2	$0.012^{+0.057}_{-0.059}$	$100\theta_*$	$1.04125^{+0.00074}_{-0.00074}$	$\chi_{6\text{DF}}^2$	$0.027 (\nu: 0.0)$
m_{DES}^3	$-0.007^{+0.053}_{-0.051}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.897^{+0.055}_{-0.052}$	χ_{MGS}^2	$1.51 (\nu: 0.1)$
m_{DES}^4	$0.011^{+0.053}_{-0.053}$	z_{drag}	$1060.04^{+0.73}_{-0.76}$	χ_{DR12BAO}^2	$4.15 (\nu: 0.4)$
$A_{\text{IA,DES}}$	$1.2^{+1.3}_{-1.1}$	r_{drag}	$147.34^{+0.60}_{-0.57}$	χ_{DES}^2	$231.9 (\nu: 2.9)$
$\alpha_{\text{IA,DES}}$	> -3.89	k_{D}	$0.14067^{+0.00072}_{-0.00076}$	χ_{prior}^2	$19.4 (\nu: 18.0)$
$\Delta z_{s,\text{DES}}^1$	$0.004^{+0.038}_{-0.036}$	$100\theta_{\text{D}}$	$0.16071^{+0.00044}_{-0.00041}$	χ_{BAO}^2	$5.69 (\nu: 0.2)$
$\Delta z_{s,\text{DES}}^2$	$-0.021^{+0.030}_{-0.030}$	z_{eq}	3374^{+52}_{-53}	χ_{CMB}^2	$2780.5 (\nu: 16.5)$
$\Delta z_{s,\text{DES}}^3$	$0.005^{+0.026}_{-0.028}$	k_{eq}	$0.01030^{+0.00016}_{-0.00016}$		

$\bar{\chi}_{\text{eff}}^2 = 3037.53$; $R - 1 = 0.01574$

2.270 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02244^{+0.00036}_{-0.00035}$	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.025}_{-0.027}$	z_{eq}	3382^{+60}_{-60}
$\Omega_c h^2$	$0.1191^{+0.0026}_{-0.0027}$	$\Delta z_{\text{s,DES}}^4$	$-0.023^{+0.053}_{-0.052}$	k_{eq}	$0.01032^{+0.00018}_{-0.00018}$
$100\theta_{\text{MC}}$	$1.04103^{+0.00078}_{-0.00076}$	H_0	$67.8^{+1.2}_{-1.2}$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.011}$
τ	$0.055^{+0.018}_{-0.014}$	Ω_{Λ}	$0.690^{+0.016}_{-0.016}$	$100\theta_{\text{s,eq}}$	$0.4514^{+0.0059}_{-0.0057}$
$\ln(10^{10} A_{\text{s}})$	$3.045^{+0.039}_{-0.028}$	Ω_{m}	$0.310^{+0.016}_{-0.016}$	$H(0.15)$	$73.0^{+1.1}_{-0.99}$
n_{s}	$0.967^{+0.010}_{-0.0097}$	$\Omega_{\text{m}} h^2$	$0.1422^{+0.0025}_{-0.0025}$	$D_{\text{M}}(0.15)$	640^{+10}_{-10}
y_{cal}	$1.0006^{+0.0063}_{-0.0061}$	$\Omega_{\text{m}} h^3$	$0.09634^{+0.00074}_{-0.00074}$	$H(0.38)$	$83.12^{+0.80}_{-0.72}$
A_{217}^{CIB}	47^{+20}_{-20}	σ_8	$0.809^{+0.015}_{-0.013}$	$D_{\text{M}}(0.38)$	1526^{+20}_{-21}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	S_8	$0.821^{+0.028}_{-0.028}$	$H(0.51)$	$89.82^{+0.66}_{-0.59}$
A_{143}^{tSZ}	> 0.909	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.015}_{-0.015}$	$D_{\text{M}}(0.51)$	1978^{+23}_{-25}
A_{100}^{PS}	259^{+70}_{-70}	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.014}_{-0.014}$	$H(0.61)$	$95.43^{+0.55}_{-0.49}$
A_{143}^{PS}	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.020}$	$D_{\text{M}}(0.61)$	2302^{+25}_{-27}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$r_{\text{drag}} h$	$99.8^{+2.1}_{-2.0}$	$H(2.33)$	$236.0^{+1.6}_{-1.6}$
A_{217}^{PS}	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.051}_{-0.048}$	$D_{\text{M}}(2.33)$	5757^{+24}_{-25}
A^{kSZ}	—	z_{re}	< 9.42	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.8}$	$10^9 A_{\text{s}}$	$2.100^{+0.083}_{-0.058}$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.011}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.7}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.880^{+0.027}_{-0.025}$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.4}$	D_{40}	1228^{+30}_{-28}	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.0096}$
A_{217}^{dustTT}	94^{+20}_{-20}	D_{220}	5741^{+98}_{-96}	$f\sigma_8(0.51)$	$0.472^{+0.010}_{-0.010}$
A_{100}^{dustTE}	$0.113^{+0.098}_{-0.10}$	D_{810}	2539^{+34}_{-32}	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0089}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.080}_{-0.078}$	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.61)$	$0.4674^{+0.0097}_{-0.0093}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	D_{2000}	$231.1^{+4.2}_{-3.9}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0084}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	$0.967^{+0.010}_{-0.0097}$	$f\sigma_8(2.33)$	$0.2977^{+0.0061}_{-0.0043}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	Y_{P}	$0.24542^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3070^{+0.0065}_{-0.0046}$
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.68}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24675^{+0.00013}_{-0.00014}$	f_{2000}^{143}	29^{+7}_{-7}
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	10^5D/H	$2.573^{+0.066}_{-0.064}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	Age/Gyr	$13.783^{+0.054}_{-0.055}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.4}$
m_{DES}^1	$0.014^{+0.059}_{-0.059}$	z_*	$1089.75^{+0.58}_{-0.61}$	χ_{lensing}^2	$9.12 (\nu: 0.2)$
m_{DES}^2	$0.012^{+0.059}_{-0.057}$	r_*	$144.62^{+0.62}_{-0.61}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
m_{DES}^3	$-0.009^{+0.053}_{-0.052}$	$100\theta_*$	$1.04120^{+0.00078}_{-0.00075}$	χ_{lowl}^2	$23.12 (\nu: 0.3)$
m_{DES}^4	$0.010^{+0.053}_{-0.053}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.890^{+0.059}_{-0.060}$	χ_{plik}^2	$2360.0 (\nu: 16.1)$
$A_{\text{IA,DES}}$	$1.3^{+1.2}_{-1.1}$	z_{drag}	$1060.03^{+0.74}_{-0.75}$	χ_{DES}^2	$232.1 (\nu: 3.2)$
$\alpha_{\text{IA,DES}}$	> -3.88	r_{drag}	$147.26^{+0.63}_{-0.62}$	χ_{prior}^2	$19.6 (\nu: 18.4)$
$\Delta z_{\text{s,DES}}^1$	$0.005^{+0.038}_{-0.037}$	k_{D}	$0.14074^{+0.00071}_{-0.00075}$	χ_{CMB}^2	$2789.2 (\nu: 16.7)$
$\Delta z_{\text{s,DES}}^2$	$-0.021^{+0.029}_{-0.030}$	$100\theta_{\text{D}}$	$0.16071^{+0.00044}_{-0.00042}$		

$$\bar{\chi}_{\text{eff}}^2 = 3040.94; R - 1 = 0.01565$$

2.271 base_plikHM_TTTEEE_lowl_lowE_DESlens_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02246^{+0.00033}_{-0.00034}$	$\Delta z_{s,\text{DES}}^4$	$-0.022^{+0.052}_{-0.053}$	$100\theta_{\text{eq}}$	$0.8184^{+0.0094}_{-0.0093}$
$\Omega_c h^2$	$0.1188^{+0.0022}_{-0.0022}$	H_0	$67.9^{+1.0}_{-0.97}$	$100\theta_{s,\text{eq}}$	$0.4520^{+0.0048}_{-0.0047}$
$100\theta_{\text{MC}}$	$1.04106^{+0.00075}_{-0.00074}$	Ω_Λ	$0.692^{+0.013}_{-0.013}$	$H(0.15)$	$73.14^{+0.90}_{-0.83}$
τ	$0.056^{+0.018}_{-0.014}$	Ω_{m}	$0.308^{+0.013}_{-0.013}$	$D_{\text{M}}(0.15)$	$638.8^{+8.3}_{-8.7}$
$\ln(10^{10} A_{\text{s}})$	$3.046^{+0.039}_{-0.029}$	$\Omega_{\text{m}} h^2$	$0.1419^{+0.0021}_{-0.0021}$	$H(0.38)$	$83.19^{+0.68}_{-0.62}$
n_{s}	$0.9677^{+0.0095}_{-0.0092}$	$\Omega_{\text{m}} h^3$	$0.09635^{+0.00074}_{-0.00074}$	$D_{\text{M}}(0.38)$	1524^{+17}_{-18}
y_{cal}	$1.0007^{+0.0062}_{-0.0061}$	σ_8	$0.808^{+0.015}_{-0.013}$	$H(0.51)$	$89.88^{+0.56}_{-0.51}$
A_{217}^{CIB}	47^{+20}_{-20}	S_8	$0.819^{+0.024}_{-0.024}$	$D_{\text{M}}(0.51)$	1975^{+20}_{-21}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.013}_{-0.013}$	$H(0.61)$	$95.47^{+0.46}_{-0.43}$
A_{143}^{tSZ}	> 0.902	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.602^{+0.013}_{-0.013}$	$D_{\text{M}}(0.61)$	2299^{+21}_{-23}
A_{100}^{PS}	259^{+70}_{-70}	$\sigma_8/h^{0.5}$	$0.981^{+0.020}_{-0.019}$	$H(2.33)$	$235.9^{+1.3}_{-1.4}$
A_{143}^{PS}	45^{+20}_{-20}	$r_{\text{drag}} h$	$100.0^{+1.7}_{-1.7}$	$D_{\text{M}}(2.33)$	5755^{+22}_{-22}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.049}_{-0.046}$	$f\sigma_8(0.15)$	$0.453^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	z_{re}	< 9.44	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.011}$
A^{kSZ}	—	$10^9 A_{\text{s}}$	$2.102^{+0.083}_{-0.059}$	$f\sigma_8(0.38)$	$0.473^{+0.011}_{-0.011}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.9}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.879^{+0.026}_{-0.024}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.0098}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.7}$	D_{40}	1227^{+30}_{-28}	$f\sigma_8(0.51)$	$0.4715^{+0.0099}_{-0.0094}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.3}_{-8.4}$	D_{220}	5743^{+97}_{-95}	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0091}$
A_{217}^{dustTT}	94^{+20}_{-20}	D_{810}	2539^{+34}_{-32}	$f\sigma_8(0.61)$	$0.4669^{+0.0093}_{-0.0087}$
A_{100}^{dustTE}	$0.113^{+0.098}_{-0.10}$	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0086}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.080}_{-0.078}$	D_{2000}	$231.2^{+4.2}_{-3.8}$	$f\sigma_8(2.33)$	$0.2979^{+0.0060}_{-0.0044}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	$n_{\text{s},0.002}$	$0.9677^{+0.0095}_{-0.0092}$	$\sigma_8(2.33)$	$0.3072^{+0.0064}_{-0.0047}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	Y_{P}	$0.24543^{+0.00012}_{-0.00014}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24675^{+0.00013}_{-0.00014}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.68}$	$10^5 \text{D}/\text{H}$	$2.570^{+0.064}_{-0.059}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.3}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	$13.779^{+0.049}_{-0.050}$	χ_{lensing}^2	$9.13 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	z_*	$1089.71^{+0.53}_{-0.53}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
m_{DES}^1	$0.014^{+0.059}_{-0.058}$	r_*	$144.67^{+0.55}_{-0.51}$	χ_{lowl}^2	$23.01 (\nu: 0.3)$
m_{DES}^2	$0.012^{+0.058}_{-0.058}$	$100\theta_*$	$1.04124^{+0.00075}_{-0.00073}$	χ_{plik}^2	$2360.2 (\nu: 16.2)$
m_{DES}^3	$-0.008^{+0.052}_{-0.051}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.894^{+0.053}_{-0.049}$	$\chi_{6\text{DF}}^2$	$0.028 (\nu: 0.0)$
m_{DES}^4	$0.011^{+0.053}_{-0.053}$	z_{drag}	$1060.05^{+0.72}_{-0.73}$	χ_{MGS}^2	$1.46 (\nu: 0.1)$
$A_{\text{IA,DES}}$	$1.2^{+1.3}_{-1.1}$	r_{drag}	$147.31^{+0.58}_{-0.54}$	χ_{DR12BAO}^2	$4.21 (\nu: 0.4)$
$\alpha_{\text{IA,DES}}$	> -3.89	k_{D}	$0.14071^{+0.00069}_{-0.00075}$	χ_{DES}^2	$231.9 (\nu: 3.0)$
$\Delta z_{s,\text{DES}}^1$	$0.005^{+0.038}_{-0.036}$	$100\theta_{\text{D}}$	$0.16070^{+0.00044}_{-0.00041}$	χ_{prior}^2	$19.5 (\nu: 18.1)$
$\Delta z_{s,\text{DES}}^2$	$-0.021^{+0.029}_{-0.030}$	z_{eq}	3376^{+49}_{-50}	χ_{CMB}^2	$2789.4 (\nu: 16.8)$
$\Delta z_{s,\text{DES}}^3$	$0.005^{+0.025}_{-0.028}$	k_{eq}	$0.01030^{+0.00015}_{-0.00015}$	χ_{BAO}^2	$5.71 (\nu: 0.2)$

$$\bar{\chi}_{\text{eff}}^2 = 3046.49; R - 1 = 0.01631$$

2.272 base_BAO_Cooke17

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02210	$0.0222^{+0.0014}_{-0.0012}$	r_*	137.0	130^{+20}_{-20}	$D_{\text{M}}(0.38)$	1447	1378^{+200}_{-200}
$\Omega_{\text{c}}h^2$	0.153	$0.194^{+0.15}_{-0.095}$	$100\theta_*$	1.081	$1.112^{+0.088}_{-0.098}$	$H(0.51)$	96.4	103^{+20}_{-20}
$100\theta_{\text{MC}}$	1.081	$1.112^{+0.088}_{-0.099}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.67	$11.7^{+3.2}_{-2.6}$	$D_{\text{M}}(0.51)$	1869	1774^{+300}_{-300}
H_0	70.7	74^{+10}_{-8}	z_{drag}	1061.5	$1064.2^{+8.2}_{-7.2}$	$H(0.61)$	102.8	111^{+30}_{-20}
Ω_{Λ}	0.649	$0.61^{+0.12}_{-0.13}$	r_{drag}	139.5	132^{+20}_{-20}	$D_{\text{M}}(0.61)$	2171	2057^{+300}_{-300}
Ω_{m}	0.351	$0.39^{+0.13}_{-0.12}$	k_{D}	0.1489	$0.158^{+0.030}_{-0.024}$	$H(2.33)$	261	287^{+90}_{-70}
$\Omega_{\text{m}}h^2$	0.175	$0.217^{+0.15}_{-0.095}$	$100\theta_{\text{D}}$	0.1665	$0.171^{+0.013}_{-0.013}$	$D_{\text{M}}(2.33)$	5329	4980^{+1000}_{-1000}
$\Omega_{\text{m}}h^3$	0.124	$0.161^{+0.13}_{-0.089}$	z_{eq}	4177	5159^{+4000}_{-2000}	χ^2_{Cooke17}	0.05	$1.0 (\nu: 1.0)$
$r_{\text{drag}}h$	98.6	$97.2^{+5.3}_{-5.0}$	k_{eq}	0.0127	$0.0157^{+0.011}_{-0.0069}$	$\chi^2_{6\text{DF}}$	0.09	$0.42 (\nu: 0.1)$
Y_{P}	0.24528	$0.24533^{+0.00059}_{-0.00053}$	$100\theta_{\text{eq}}$	0.726	$0.66^{+0.24}_{-0.18}$	χ^2_{MGS}	0.98	$0.70 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.24661	$0.24666^{+0.00060}_{-0.00053}$	$100\theta_{\text{s,eq}}$	0.404	$0.369^{+0.12}_{-0.096}$	χ^2_{DR12BAO}	2.18	$3.8 (\nu: 1.5)$
$10^5\text{D}/\text{H}$	2.638	$2.61^{+0.24}_{-0.25}$	$H(0.15)$	76.9	81^{+10}_{-10}	χ^2_{BAO}	3.26	$5.0 (\nu: 1.8)$
Age/Gyr	12.75	$11.9^{+2.7}_{-2.3}$	$D_{\text{M}}(0.15)$	611	584^{+70}_{-80}			
z_*	1093.0	$1095.7^{+9.4}_{-7.6}$	$H(0.38)$	88.6	94^{+20}_{-10}			

Best-fit $\chi^2_{\text{eff}} = 3.30$; $\bar{\chi}^2_{\text{eff}} = 5.96$; $R - 1 = 0.00985$

χ^2_{eff} : Abund - D.Cooke2017: 0.04 BAO - 6DF: 0.09 MGS: 0.98 DR12BAO: 2.18

2.273 base_BAO_Cooke17_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02222	$0.0222^{+0.0013}_{-0.0012}$	r_*	143.3	$143.0^{+9.9}_{-9.2}$	$D_{\text{M}}(0.38)$	1504	1501^{+100}_{-100}
$\Omega_{\text{c}}h^2$	0.1250	$0.127^{+0.040}_{-0.035}$	$100\theta_*$	1.0507	$1.052^{+0.045}_{-0.051}$	$H(0.51)$	91.3	$91.6^{+8.2}_{-7.6}$
$100\theta_{\text{MC}}$	1.0505	$1.052^{+0.045}_{-0.051}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.64	$13.6^{+1.7}_{-1.4}$	$D_{\text{M}}(0.51)$	1948	1944^{+140}_{-140}
H_0	68.74	$68.9^{+4.2}_{-4.0}$	z_{drag}	1059.93	$1060.0^{+4.4}_{-4.3}$	$H(0.61)$	97.1	$97.4^{+9.1}_{-8.6}$
Ω_{Λ}	0.6870	$0.686^{+0.050}_{-0.046}$	r_{drag}	146.0	$146^{+10}_{-9.6}$	$D_{\text{M}}(0.61)$	2266	2262^{+170}_{-160}
Ω_{m}	0.3130	$0.314^{+0.046}_{-0.050}$	k_{D}	0.1420	$0.142^{+0.011}_{-0.011}$	$H(2.33)$	240.6	242^{+30}_{-30}
$\Omega_{\text{m}}h^2$	0.1479	$0.150^{+0.040}_{-0.036}$	$100\theta_{\text{D}}$	0.1623	$0.1625^{+0.0063}_{-0.0067}$	$D_{\text{M}}(2.33)$	5659	5648^{+570}_{-510}
$\Omega_{\text{m}}h^3$	0.1016	$0.103^{+0.035}_{-0.029}$	z_{eq}	3518	3559^{+1000}_{-900}	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.0)$
$r_{\text{drag}}h$	100.33	$100.3^{+3.0}_{-2.9}$	k_{eq}	0.01074	$0.0109^{+0.0029}_{-0.0026}$	χ^2_{JLA}	1035.14	$1036.0 (\nu: 1.1)$
Y_{P}	0.24533	$0.24532^{+0.00054}_{-0.00051}$	$100\theta_{\text{eq}}$	0.800	$0.80^{+0.13}_{-0.10}$	$\chi^2_{6\text{DF}}$	0.000	$0.051 (\nu: 0.0)$
$Y_{\text{P}}^{\text{BBN}}$	0.24666	$0.24665^{+0.00054}_{-0.00051}$	$100\theta_{\text{s,eq}}$	0.443	$0.442^{+0.066}_{-0.054}$	χ^2_{MGS}	1.68	$1.75 (\nu: 0.2)$
$10^5\text{D}/\text{H}$	2.614	$2.62^{+0.24}_{-0.23}$	$H(0.15)$	74.13	$74.3^{+5.1}_{-4.8}$	χ^2_{DR12BAO}	2.95	$4.0 (\nu: 1.2)$
Age/Gyr	13.55	$13.5^{+1.4}_{-1.2}$	$D_{\text{M}}(0.15)$	630.6	630^{+40}_{-39}	χ^2_{BAO}	4.63	$5.8 (\nu: 1.6)$
z_*	1090.55	$1090.7^{+3.5}_{-3.4}$	$H(0.38)$	84.5	$84.7^{+7.0}_{-6.5}$			

Best-fit $\chi^2_{\text{eff}} = 1039.76$; $\bar{\chi}^2_{\text{eff}} = 1042.72$; $R - 1 = 0.00647$

χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.95 SN - JLA Pantheon18: 1035.14

2.274 base_BAO_Cooke17_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02217	$0.0223^{+0.0013}_{-0.0012}$	z_*	1091.08	$1091.4^{+4.8}_{-4.1}$	$D_{\text{M}}(0.38)$	1493	1481^{+120}_{-130}
$\Omega_{\text{c}}h^2$	0.131	$0.136^{+0.059}_{-0.043}$	r_*	141.9	141^{+11}_{-12}	$H(0.51)$	92.3	93^{+10}_{-9}
$100\theta_{\text{MC}}$	1.057	$1.062^{+0.059}_{-0.057}$	$100\theta_*$	1.057	$1.062^{+0.059}_{-0.057}$	$D_{\text{M}}(0.51)$	1932	1916^{+160}_{-170}
α_{JLA}	0.1411	$0.141^{+0.017}_{-0.017}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.43	$13.3^{+1.9}_{-1.8}$	$H(0.61)$	98.2	99^{+10}_{-10}
β_{JLA}	3.096	$3.10^{+0.21}_{-0.21}$	z_{drag}	1060.24	$1060.8^{+4.9}_{-4.7}$	$D_{\text{M}}(0.61)$	2247	2228^{+190}_{-210}
H_0	69.08	$69.6^{+5.3}_{-4.2}$	r_{drag}	144.6	143^{+12}_{-12}	$H(2.33)$	244.8	249^{+40}_{-30}
Ω_{Λ}	0.679	$0.673^{+0.062}_{-0.070}$	k_{D}	0.1434	$0.145^{+0.015}_{-0.012}$	$D_{\text{M}}(2.33)$	5590	5535^{+600}_{-600}
Ω_{m}	0.321	$0.327^{+0.070}_{-0.062}$	$100\theta_{\text{D}}$	0.1632	$0.1638^{+0.0083}_{-0.0076}$	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.153	$0.159^{+0.058}_{-0.043}$	z_{eq}	3650	3784^{+1000}_{-1000}	χ^2_{JLA}	695.7	$698.5 (\nu: 3.6)$
$\Omega_{\text{m}}h^3$	0.1060	$0.111^{+0.049}_{-0.038}$	k_{eq}	0.01114	$0.0115^{+0.0043}_{-0.0031}$	$\chi^2_{6\text{DF}}$	0.008	$0.08 (\nu: 0.0)$
$r_{\text{drag}}h$	99.89	$99.8^{+3.8}_{-3.4}$	$100\theta_{\text{eq}}$	0.783	$0.77^{+0.15}_{-0.13}$	χ^2_{MGS}	1.47	$1.54 (\nu: 0.3)$
Y_{P}	0.24531	$0.24534^{+0.00056}_{-0.00053}$	$100\theta_{\text{s,eq}}$	0.434	$0.429^{+0.075}_{-0.068}$	χ^2_{DR12BAO}	2.73	$3.7 (\nu: 1.1)$
$Y_{\text{P}}^{\text{BBN}}$	0.24664	$0.24667^{+0.00056}_{-0.00054}$	$H(0.15)$	74.6	$75.3^{+6.9}_{-5.3}$	χ^2_{BAO}	4.21	$5.3 (\nu: 1.6)$
$10^5\text{D}/\text{H}$	2.623	$2.61^{+0.25}_{-0.23}$	$D_{\text{M}}(0.15)$	626.9	622^{+43}_{-49}			
Age/Gyr	13.38	$13.2^{+1.5}_{-1.5}$	$H(0.38)$	85.3	$86.2^{+9.4}_{-7.4}$			

Best-fit $\chi^2_{\text{eff}} = 699.89$; $\bar{\chi}^2_{\text{eff}} = 704.85$; $R - 1 = 0.01324$

χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 2.73 SN - JLA December_2013: 695.68

2.275 base_BAO_Cooke17_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02219	$0.0222^{+0.0013}_{-0.0011}$	r_*	145.15	$145.1^{+1.6}_{-1.5}$	$D_{\text{M}}(0.38)$	1523.6	1523^{+28}_{-27}
$\Omega_{\text{c}}h^2$	0.11776	$0.1178^{+0.0042}_{-0.0043}$	$100\theta_*$	1.04111	$1.0411^{+0.0017}_{-0.0016}$	$H(0.51)$	89.78	$89.8^{+1.1}_{-0.98}$
$100\theta_{\text{MC}}$	1.04091	$1.0409^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.942	$13.94^{+0.16}_{-0.15}$	$D_{\text{M}}(0.51)$	1974.9	1975^{+33}_{-33}
H_0	68.00	$68.0^{+1.5}_{-1.6}$	z_{drag}	1059.36	$1059.4^{+3.0}_{-2.8}$	$H(0.61)$	95.33	$95.3^{+1.0}_{-0.96}$
Ω_{Λ}	0.6959	$0.696^{+0.020}_{-0.023}$	r_{drag}	147.89	$147.8^{+1.9}_{-1.9}$	$D_{\text{M}}(0.61)$	2299.0	2299^{+36}_{-36}
Ω_{m}	0.3041	$0.304^{+0.023}_{-0.020}$	k_{D}	0.13989	$0.1400^{+0.0029}_{-0.0028}$	$H(2.33)$	234.90	$235.0^{+3.3}_{-3.5}$
$\Omega_{\text{m}}h^2$	0.14059	$0.1407^{+0.0046}_{-0.0048}$	$100\theta_{\text{D}}$	0.16108	$0.1611^{+0.0017}_{-0.0018}$	$D_{\text{M}}(2.33)$	5766	5765^{+54}_{-56}
$\Omega_{\text{m}}h^3$	0.09560	$0.0957^{+0.0028}_{-0.0027}$	z_{eq}	3344	3347^{+110}_{-110}	χ^2_{Cooke17}	0.00	$0.99 (\nu: 0.9)$
$r_{\text{drag}}h$	100.56	$100.5^{+2.7}_{-2.8}$	k_{eq}	0.010207	$0.01021^{+0.00033}_{-0.00035}$	χ^2_{JLA}	1034.79	$1034.94 (\nu: 0.0)$
Y_{P}	0.24532	$0.24532^{+0.00056}_{-0.00050}$	$100\theta_{\text{eq}}$	0.8233	$0.823^{+0.020}_{-0.018}$	$\chi^2_{6\text{DF}}$	0.000	$0.051 (\nu: 0.0)$
$Y_{\text{P}}^{\text{BBN}}$	0.24665	$0.24665^{+0.00056}_{-0.00050}$	$100\theta_{\text{s,eq}}$	0.4547	$0.455^{+0.011}_{-0.0098}$	χ^2_{MGS}	1.75	$1.81 (\nu: 0.2)$
$10^5\text{D}/\text{H}$	2.620	$2.62^{+0.23}_{-0.23}$	$H(0.15)$	73.19	$73.2^{+1.4}_{-1.4}$	χ^2_{DR12BAO}	3.42	$4.2 (\nu: 0.8)$
Age/Gyr	13.806	$13.80^{+0.13}_{-0.13}$	$D_{\text{M}}(0.15)$	638.1	638^{+14}_{-13}	χ^2_{prior}	0.00	$1.1 (\nu: 1.3)$
z_*	1089.95	$1089.9^{+1.5}_{-1.6}$	$H(0.38)$	83.15	$83.2^{+1.1}_{-1.1}$	χ^2_{BAO}	5.17	$6.1 (\nu: 0.8)$

Best-fit $\chi^2_{\text{eff}} = 1039.96$; $\bar{\chi}^2_{\text{eff}} = 1043.12$; $R - 1 = 0.00669$

χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.42 SN - JLA Pantheon18: 1034.79

2.276 base_BAO_Cooke17_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.0222^{+0.0014}_{-0.0012}$	r_*	145.14	$145.0^{+1.6}_{-1.7}$	$D_M(0.38)$	1525.0	1524^{+30}_{-31}
$\Omega_c h^2$	0.11790	$0.1180^{+0.0046}_{-0.0044}$	$100\theta_*$	1.04110	$1.0411^{+0.0015}_{-0.0016}$	$H(0.51)$	89.73	$89.8^{+1.2}_{-1.0}$
$100\theta_{MC}$	1.04088	$1.0409^{+0.0015}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.941	$13.93^{+0.16}_{-0.16}$	$D_M(0.51)$	1976.5	1976^{+35}_{-37}
H_0	67.92	$67.9^{+1.8}_{-1.7}$	z_{drag}	1059.32	$1059.5^{+3.3}_{-2.8}$	$H(0.61)$	95.29	$95.3^{+1.1}_{-0.93}$
Ω_Λ	0.6950	$0.695^{+0.022}_{-0.024}$	r_{drag}	147.88	$147.8^{+1.9}_{-2.0}$	$D_M(0.61)$	2300.8	2300^{+39}_{-41}
Ω_m	0.3050	$0.305^{+0.024}_{-0.022}$	k_D	0.13988	$0.1401^{+0.0031}_{-0.0027}$	$H(2.33)$	234.96	$235.1^{+3.4}_{-3.3}$
$\Omega_m h^2$	0.14071	$0.1409^{+0.0048}_{-0.0046}$	$100\theta_D$	0.16111	$0.1610^{+0.0017}_{-0.0019}$	$D_M(2.33)$	5768	5764^{+52}_{-62}
$\Omega_m h^3$	0.09556	$0.0957^{+0.0030}_{-0.0025}$	z_{eq}	3347	3352^{+120}_{-110}	χ^2_{Cooke17}	0.01	$1.0 (\nu: 1.1)$
$r_{\text{drag}} h$	100.44	$100.4^{+3.0}_{-3.0}$	k_{eq}	0.010216	$0.01023^{+0.00035}_{-0.00034}$	$\chi^2_{6\text{DF}}$	0.000	$0.057 (\nu: 0.0)$
Y_P	0.24531	$0.24533^{+0.00061}_{-0.00051}$	$100\theta_{\text{eq}}$	0.8227	$0.822^{+0.019}_{-0.020}$	χ^2_{MGS}	1.68	$1.74 (\nu: 0.2)$
Y_P^{BBN}	0.24664	$0.24666^{+0.00061}_{-0.00051}$	$100\theta_{\text{s,eq}}$	0.4544	$0.454^{+0.010}_{-0.010}$	χ^2_{DR12BAO}	3.48	$4.4 (\nu: 1.1)$
$10^5 \text{D}/\text{H}$	2.625	$2.61^{+0.23}_{-0.25}$	$H(0.15)$	73.12	$73.2^{+1.6}_{-1.5}$	χ^2_{prior}	0.00	$0.97 (\nu: 0.9)$
Age/Gyr	13.810	$13.80^{+0.12}_{-0.15}$	$D_M(0.15)$	638.8	639^{+15}_{-14}	χ^2_{BAO}	5.16	$6.2 (\nu: 1.0)$
z_*	1090.00	$1089.9^{+1.6}_{-1.7}$	$H(0.38)$	83.10	$83.1^{+1.3}_{-1.2}$			

Best-fit $\chi^2_{\text{eff}} = 5.17$; $\bar{\chi}^2_{\text{eff}} = 8.20$; $R - 1 = 0.00680$

χ^2_{eff} : Abund - D.Cooke2017: 0.01 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.48

3 Alens

3.1 base_Alens_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02270	$0.02260^{+0.00075}_{-0.00073}$	$\sigma_8 \Omega_m^{0.5}$	0.4291	$0.432^{+0.041}_{-0.040}$	$100\theta_{s,eq}$	0.4579	$0.457^{+0.015}_{-0.014}$
$\Omega_c h^2$	0.1161	$0.1166^{+0.0063}_{-0.0064}$	$\sigma_8 \Omega_m^{0.25}$	0.5840	$0.586^{+0.037}_{-0.038}$	$H(0.15)$	74.25	$74.0^{+2.7}_{-2.5}$
$100\theta_{MC}$	1.04143	$1.0414^{+0.0014}_{-0.0013}$	$\sigma_8/h^{0.5}$	0.956	$0.958^{+0.052}_{-0.053}$	$D_M(0.15)$	628.1	630^{+25}_{-25}
τ	0.0519	$0.050^{+0.022}_{-0.027}$	$r_{drag}h$	102.2	$101.8^{+5.4}_{-5.0}$	$H(0.38)$	84.01	$83.8^{+2.1}_{-1.8}$
A_L	1.263	$1.24^{+0.26}_{-0.24}$	$\langle d^2 \rangle^{1/2}$	2.656	$2.64^{+0.19}_{-0.21}$	$D_M(0.38)$	1503	1507^{+50}_{-52}
$\ln(10^{10} A_s)$	3.030	$3.027^{+0.045}_{-0.058}$	z_{re}	7.30	$7.1^{+2.1}_{-3.1}$	$H(0.51)$	90.52	$90.4^{+1.7}_{-1.5}$
n_s	0.9769	$0.974^{+0.019}_{-0.018}$	$10^9 A_s$	2.070	$2.064^{+0.094}_{-0.12}$	$D_M(0.51)$	1950	1955^{+59}_{-61}
y_{cal}	0.9999	$1.0000^{+0.0064}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	1.8656	$1.867^{+0.038}_{-0.037}$	$H(0.61)$	95.99	$95.9^{+1.4}_{-1.2}$
A_{217}^{CIB}	42.5	45^{+20}_{-20}	D_{40}	1203.3	1209^{+44}_{-44}	$D_M(0.61)$	2272	2277^{+63}_{-66}
$\xi^{tSZ \times CIB}$	0.999	—	D_{220}	5737	5736^{+110}_{-100}	$H(2.33)$	234.39	$234.6^{+3.7}_{-3.6}$
A_{143}^{tSZ}	6.83	$5.6^{+4.4}_{-4.6}$	D_{810}	2527.7	2527^{+36}_{-36}	$D_M(2.33)$	5733	5739^{+54}_{-60}
A_{100}^{PS}	238	250^{+70}_{-70}	D_{1420}	815.8	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.4351	$0.437^{+0.038}_{-0.038}$
A_{143}^{PS}	48.5	42^{+20}_{-20}	D_{2000}	233.1	$232.3^{+5.3}_{-5.2}$	$\sigma_8(0.15)$	0.7364	$0.736^{+0.023}_{-0.025}$
$A_{143 \times 217}^{PS}$	56.6	41^{+20}_{-20}	$n_{s,0.002}$	0.9769	$0.974^{+0.019}_{-0.018}$	$f\sigma_8(0.38)$	0.4575	$0.459^{+0.031}_{-0.032}$
A_{217}^{PS}	123.0	115^{+20}_{-30}	Y_P	0.245516	$0.24549^{+0.00033}_{-0.00031}$	$\sigma_8(0.38)$	0.6550	$0.654^{+0.018}_{-0.021}$
A^{kSZ}	0.00	< 8.99	Y_P^{BBN}	0.246843	$0.24681^{+0.00033}_{-0.00031}$	$f\sigma_8(0.51)$	0.4584	$0.459^{+0.026}_{-0.028}$
A_{100}^{dustTT}	8.91	$8.9^{+4.8}_{-4.7}$	$10^5 D/H$	2.527	$2.54^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	0.6139	$0.613^{+0.016}_{-0.019}$
A_{143}^{dustTT}	10.60	$10.5^{+4.6}_{-4.6}$	Age/Gyr	13.732	$13.74^{+0.12}_{-0.13}$	$f\sigma_8(0.61)$	0.4552	$0.456^{+0.024}_{-0.025}$
$A_{143 \times 217}^{dustTT}$	19.6	$17.9^{+8.3}_{-8.6}$	z_*	1089.18	$1089.3^{+1.4}_{-1.3}$	$\sigma_8(0.61)$	0.5847	$0.584^{+0.015}_{-0.018}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	r_*	145.19	$145.1^{+1.4}_{-1.3}$	$f\sigma_8(2.33)$	0.2956	$0.2951^{+0.0069}_{-0.0087}$
c_{100}	0.99973	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04157	$1.0416^{+0.0014}_{-0.0013}$	$\sigma_8(2.33)$	0.3057	$0.3050^{+0.0071}_{-0.0088}$
c_{217}	0.99813	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.939	$13.93^{+0.12}_{-0.12}$	f_{2000}^{143}	25.1	27^{+9}_{-9}
H_0	69.18	$68.9^{+3.1}_{-2.9}$	z_{drag}	1060.43	$1060.2^{+1.5}_{-1.4}$	$f_{2000}^{143 \times 217}$	29.2	30^{+6}_{-6}
Ω_Λ	0.7085	$0.705^{+0.037}_{-0.039}$	r_{drag}	147.75	$147.7^{+1.3}_{-1.3}$	f_{2000}^{217}	103.9	$105.0^{+5.8}_{-5.7}$
Ω_m	0.2915	$0.295^{+0.039}_{-0.037}$	k_D	0.14041	$0.1404^{+0.0014}_{-0.0013}$	χ_{simall}^2	395.66	$396.8 (\nu: 1.3)$
$\Omega_m h^2$	0.1395	$0.1399^{+0.0058}_{-0.0058}$	$100\theta_D$	0.16051	$0.16063^{+0.00081}_{-0.00077}$	χ_{lowl}^2	21.34	$21.8 (\nu: 0.6)$
$\Omega_m h^3$	0.09648	$0.0964^{+0.0013}_{-0.0013}$	z_{eq}	3318	3328^{+140}_{-140}	χ_{plik}^2	752.9	$767.3 (\nu: 15.4)$
σ_8	0.7948	$0.795^{+0.028}_{-0.030}$	k_{eq}	0.010126	$0.01016^{+0.00043}_{-0.00043}$	χ_{prior}^2	0.97	$7.1 (\nu: 6.2)$
S_8	0.783	$0.788^{+0.075}_{-0.074}$	$100\theta_{eq}$	0.8301	$0.828^{+0.029}_{-0.027}$	χ_{CMB}^2	1169.9	$1186.0 (\nu: 16.6)$

Best-fit $\chi_{eff}^2 = 1170.89$; $\bar{\chi}_{eff}^2 = 1193.04$; $R - 1 = 0.00760$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.66 commander_dx12_v3.2_29: 21.34 plik_rd12_HM_v22_TT: 752.92

3.2 base_Alens_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02257	$0.02249^{+0.00058}_{-0.00056}$	$\sigma_8/h^{0.5}$	0.9675	$0.967^{+0.033}_{-0.035}$	$D_M(0.38)$	1515.3	1517^{+26}_{-26}
$\Omega_c h^2$	0.11772	$0.1179^{+0.0033}_{-0.0033}$	$r_{\text{drag}} h$	100.91	$100.8^{+2.6}_{-2.6}$	$H(0.51)$	90.15	$90.08^{+0.88}_{-0.84}$
$100\theta_{\text{MC}}$	1.04123	$1.0412^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.652	$2.63^{+0.19}_{-0.20}$	$D_M(0.51)$	1964.6	1967^{+31}_{-31}
τ	0.0507	$0.049^{+0.022}_{-0.027}$	z_{re}	7.24	$7.1^{+2.1}_{-3.1}$	$H(0.61)$	95.69	$95.62^{+0.76}_{-0.72}$
A_L	1.231	$1.21^{+0.21}_{-0.20}$	$10^9 A_s$	2.073	$2.066^{+0.092}_{-0.12}$	$D_M(0.61)$	2287.5	2290^{+34}_{-34}
$\ln(10^{10} A_s)$	3.032	$3.028^{+0.044}_{-0.060}$	$10^9 A_s e^{-2\tau}$	1.8731	$1.872^{+0.029}_{-0.029}$	$H(2.33)$	235.28	$235.3^{+2.1}_{-2.0}$
n_s	0.9730	$0.971^{+0.012}_{-0.012}$	D_{40}	1211.7	1215^{+33}_{-32}	$D_M(2.33)$	5745.9	5749^{+36}_{-37}
y_{cal}	1.0000	$0.99998^{+0.0064}_{-0.0063}$	D_{220}	5731	5730^{+110}_{-100}	$f\sigma_8(0.15)$	0.4444	$0.445^{+0.022}_{-0.022}$
A_{217}^{CIB}	42.8	45^{+20}_{-20}	D_{810}	2530.5	2528^{+35}_{-35}	$\sigma_8(0.15)$	0.7405	$0.739^{+0.019}_{-0.023}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	D_{1420}	815.5	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4648	$0.465^{+0.019}_{-0.019}$
A_{143}^{tSZ}	6.67	$5.6^{+4.4}_{-4.6}$	D_{2000}	232.70	$231.7^{+4.7}_{-4.5}$	$\sigma_8(0.38)$	0.6576	$0.656^{+0.016}_{-0.020}$
A_{100}^{PS}	240	251^{+70}_{-70}	$n_{s,0.002}$	0.9730	$0.971^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.4647	$0.464^{+0.017}_{-0.018}$
A_{143}^{PS}	50.3	43^{+20}_{-20}	Y_P	0.245468	$0.24544^{+0.00025}_{-0.00023}$	$\sigma_8(0.51)$	0.6159	$0.615^{+0.015}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	57.4	42^{+20}_{-20}	Y_P^{BBN}	0.246795	$0.24677^{+0.00025}_{-0.00024}$	$f\sigma_8(0.61)$	0.4606	$0.460^{+0.015}_{-0.017}$
A_{217}^{PS}	123.5	115^{+20}_{-30}	10^5D/H	2.550	$2.56^{+0.11}_{-0.10}$	$\sigma_8(0.61)$	0.5863	$0.585^{+0.014}_{-0.018}$
A^{kSZ}	0.00	< 9.15	Age/Gyr	13.759	$13.767^{+0.082}_{-0.084}$	$f\sigma_8(2.33)$	0.2960	$0.2954^{+0.0069}_{-0.0089}$
A_{100}^{dustTT}	8.85	$8.9^{+4.9}_{-4.8}$	z_*	1089.48	$1089.58^{+0.86}_{-0.84}$	$\sigma_8(2.33)$	0.3057	$0.3049^{+0.0069}_{-0.0091}$
A_{143}^{dustTT}	10.67	$10.5^{+4.4}_{-4.5}$	r_*	144.87	$144.89^{+0.83}_{-0.84}$	f_{2000}^{143}	25.9	27^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.0^{+8.2}_{-8.6}$	$100\theta_*$	1.04139	$1.0414^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	29.8	31^{+6}_{-6}
A_{217}^{dustTT}	95.9	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.911	$13.913^{+0.082}_{-0.081}$	f_{2000}^{217}	104.4	$105.5^{+5.3}_{-5.3}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1060.24	$1060.1^{+1.2}_{-1.3}$	χ_{small}^2	395.68	$396.8 (\nu: 1.3)$
c_{217}	0.99814	$0.9982^{+0.0017}_{-0.0016}$	r_{drag}	147.48	$147.52^{+0.92}_{-0.91}$	χ_{lowl}^2	21.89	$22.23 (\nu: 0.3)$
H_0	68.43	$68.3^{+1.6}_{-1.5}$	k_D	0.14061	$0.1405^{+0.0012}_{-0.0012}$	χ_{plik}^2	752.7	$766.3 (\nu: 14.2)$
Ω_Λ	0.6990	$0.698^{+0.019}_{-0.020}$	$100\theta_D$	0.16061	$0.16071^{+0.00073}_{-0.00071}$	$\chi_{6\text{DF}}^2$	0.008	$0.046 (\nu: 0.0)$
Ω_m	0.3010	$0.302^{+0.020}_{-0.019}$	z_{eq}	3352	3354^{+75}_{-75}	χ_{MGS}^2	1.97	$1.95 (\nu: 0.2)$
$\Omega_m h^2$	0.14093	$0.1410^{+0.0031}_{-0.0031}$	k_{eq}	0.010232	$0.01024^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	3.38	$4.05 (\nu: 0.5)$
$\Omega_m h^3$	0.09643	$0.0963^{+0.0013}_{-0.0013}$	$100\theta_{\text{eq}}$	0.8231	$0.823^{+0.015}_{-0.014}$	χ_{prior}^2	1.0	$7.1 (\nu: 6.3)$
σ_8	0.8003	$0.799^{+0.021}_{-0.026}$	$100\theta_{s,\text{eq}}$	0.4544	$0.4541^{+0.0074}_{-0.0072}$	χ_{BAO}^2	5.35	$6.0 (\nu: 0.7)$
S_8	0.8016	$0.802^{+0.043}_{-0.042}$	$H(0.15)$	73.60	$73.5^{+1.4}_{-1.3}$	χ_{CMB}^2	1170.2	$1185.3 (\nu: 15.6)$
$\sigma_8 \Omega_m^{0.5}$	0.4391	$0.439^{+0.024}_{-0.023}$	$D_M(0.15)$	634.3	635^{+13}_{-13}			
$\sigma_8 \Omega_m^{0.25}$	0.5928	$0.592^{+0.023}_{-0.023}$	$H(0.38)$	83.53	$83.5^{+1.0}_{-1.0}$			

Best-fit $\chi_{\text{eff}}^2 = 1176.61$; $\bar{\chi}_{\text{eff}}^2 = 1198.50$; $R - 1 = 0.01593$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.97 DR12BAO: 3.38 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.68 commander_dx12_v3.2.29: 21.89 plik_rd12_HM_v22.TT: 752.66

3.3 base_Alens_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02301	$0.02292^{+0.00076}_{-0.00067}$	$\sigma_8 \Omega_m^{0.25}$	0.5656	$0.568^{+0.032}_{-0.033}$	$D_M(0.15)$	615.3	617^{+21}_{-24}
$\Omega_c h^2$	0.1130	$0.1135^{+0.0053}_{-0.0059}$	$\sigma_8/h^{0.5}$	0.9302	$0.933^{+0.045}_{-0.046}$	$H(0.38)$	85.05	$84.9^{+2.1}_{-1.7}$
$100\theta_{MC}$	1.04193	$1.0419^{+0.0014}_{-0.0013}$	$r_{drag}h$	104.90	$104.5^{+5.2}_{-4.4}$	$D_M(0.38)$	1476.7	1481^{+42}_{-50}
τ	0.0520	$0.052^{+0.023}_{-0.028}$	$\langle d^2 \rangle^{1/2}$	2.680	$2.67^{+0.19}_{-0.19}$	$H(0.51)$	91.37	$91.2^{+1.7}_{-1.4}$
A_L	1.351	$1.33^{+0.25}_{-0.23}$	z_{re}	7.21	$7.2^{+2.3}_{-3.1}$	$D_M(0.51)$	1919	1924^{+50}_{-60}
$\ln(10^{10} A_s)$	3.024	$3.024^{+0.046}_{-0.055}$	$10^9 A_s$	2.057	$2.058^{+0.096}_{-0.11}$	$H(0.61)$	96.68	$96.6^{+1.4}_{-1.1}$
n_s	0.9852	$0.983^{+0.016}_{-0.016}$	$10^9 A_s e^{-2\tau}$	1.8537	$1.854^{+0.034}_{-0.033}$	$D_M(0.61)$	2238	2243^{+54}_{-65}
y_{cal}	0.99995	$1.0000^{+0.0072}_{-0.0063}$	D_{40}	1187.1	1192^{+40}_{-36}	$H(2.33)$	232.71	$232.9^{+3.1}_{-3.2}$
A_{217}^{CIB}	41.8	44^{+20}_{-20}	D_{220}	5758	5755^{+110}_{-100}	$D_M(2.33)$	5705	5710^{+50}_{-55}
$\xi^{tSZ \times CIB}$	0.999	—	D_{810}	2525.0	2523^{+37}_{-35}	$f\sigma_8(0.15)$	0.4159	$0.419^{+0.032}_{-0.033}$
A_{143}^{tSZ}	6.87	> 1.36	D_{1420}	817.4	816^{+14}_{-13}	$\sigma_8(0.15)$	0.7269	$0.728^{+0.022}_{-0.023}$
A_{100}^{PS}	234	245^{+80}_{-80}	D_{2000}	234.6	$233.7^{+5.4}_{-5.1}$	$f\sigma_8(0.38)$	0.4419	$0.444^{+0.027}_{-0.027}$
A_{143}^{PS}	44.0	38^{+20}_{-20}	$n_{s,0.002}$	0.9852	$0.983^{+0.016}_{-0.016}$	$\sigma_8(0.38)$	0.6486	$0.649^{+0.017}_{-0.019}$
$A_{143 \times 217}^{PS}$	53.2	39^{+20}_{-20}	Y_P	0.245654	$0.24562^{+0.00032}_{-0.00027}$	$f\sigma_8(0.51)$	0.4450	$0.447^{+0.023}_{-0.025}$
A_{217}^{PS}	121.0	114^{+20}_{-30}	Y_P^{BBN}	0.246982	$0.24694^{+0.00032}_{-0.00027}$	$\sigma_8(0.51)$	0.6088	$0.609^{+0.016}_{-0.017}$
A^{kSZ}	0.00	< 8.54	$10^5 D/H$	2.471	$2.49^{+0.12}_{-0.13}$	$f\sigma_8(0.61)$	0.4433	$0.445^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.96	$8.9^{+4.7}_{-4.9}$	Age/Gyr	13.671	$13.68^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	0.5805	$0.581^{+0.015}_{-0.016}$
A_{143}^{dustTT}	10.61	$10.4^{+4.6}_{-4.4}$	z_*	1088.54	$1088.7^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.2943	$0.2943^{+0.0072}_{-0.0086}$
$A_{143 \times 217}^{dustTT}$	19.3	$17.8^{+8.5}_{-8.6}$	r_*	145.77	$145.7^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.3053	$0.3051^{+0.0074}_{-0.0089}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	$100\theta_*$	1.04205	$1.0420^{+0.0013}_{-0.0012}$	f_{2000}^{143}	23.1	25^{+8}_{-8}
c_{100}	0.99973	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.989	$13.98^{+0.12}_{-0.11}$	$f_{2000}^{143 \times 217}$	27.6	28^{+6}_{-6}
c_{217}	0.99813	$0.9981^{+0.0015}_{-0.0017}$	z_{drag}	1060.89	$1060.7^{+1.4}_{-1.4}$	f_{2000}^{217}	102.5	$103.7^{+5.6}_{-5.4}$
H_0	70.76	$70.5^{+3.1}_{-2.5}$	r_{drag}	148.25	$148.2^{+1.2}_{-1.1}$	χ_{simall}^2	395.66	$396.8 (\nu: 1.3)$
Ω_Λ	0.7270	$0.724^{+0.032}_{-0.031}$	k_D	0.14010	$0.1401^{+0.0013}_{-0.0013}$	χ_{lowl}^2	20.46	$20.80 (\nu: 0.2)$
Ω_m	0.2730	$0.276^{+0.031}_{-0.032}$	$100\theta_D$	0.16030	$0.16040^{+0.00074}_{-0.00078}$	χ_{plik}^2	755.6	$769.6 (\nu: 17.8)$
$\Omega_m h^2$	0.1367	$0.1370^{+0.0049}_{-0.0051}$	z_{eq}	3251	3259^{+120}_{-120}	$\chi_{H073p45}^2$	2.6	$3.5 (\nu: 2.4)$
$\Omega_m h^3$	0.09671	$0.0966^{+0.0012}_{-0.0013}$	k_{eq}	0.009922	$0.00995^{+0.00036}_{-0.00038}$	χ_{prior}^2	1.0	$7.1 (\nu: 6.1)$
σ_8	0.7825	$0.784^{+0.026}_{-0.027}$	$100\theta_{eq}$	0.8441	$0.842^{+0.027}_{-0.024}$	χ_{CMB}^2	1171.7	$1187.2 (\nu: 18.1)$
S_8	0.746	$0.752^{+0.062}_{-0.063}$	$100\theta_{s,eq}$	0.4650	$0.464^{+0.014}_{-0.012}$			
$\sigma_8 \Omega_m^{0.5}$	0.4088	$0.412^{+0.034}_{-0.035}$	$H(0.15)$	75.63	$75.4^{+2.7}_{-2.2}$			

Best-fit $\chi_{\text{eff}}^2 = 1175.32$; $\bar{\chi}_{\text{eff}}^2 = 1197.77$; $R - 1 = 0.01750$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.66 commander_dx12_v3.2_29: 20.46 plik_rd12_HM_v22_TT: 755.56 Hubble - H073p45: 2.63

3.4 base_Alens_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02261^{+0.00075}_{-0.00072}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.433^{+0.041}_{-0.041}$	$100\theta_{\text{s,eq}}$	$0.457^{+0.015}_{-0.014}$
$\Omega_{\text{c}}h^2$	$0.1166^{+0.0063}_{-0.0063}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.587^{+0.037}_{-0.038}$	$H(0.15)$	$74.1^{+2.7}_{-2.5}$
$100\theta_{\text{MC}}$	$1.0414^{+0.0014}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.960^{+0.051}_{-0.052}$	$D_{\text{M}}(0.15)$	630^{+25}_{-25}
τ	$0.053^{+0.018}_{-0.011}$	$r_{\text{drag}}h$	$101.9^{+5.4}_{-5.0}$	$H(0.38)$	$83.9^{+2.1}_{-1.9}$
A_{L}	$1.24^{+0.26}_{-0.24}$	$\langle d^2 \rangle^{1/2}$	$2.64^{+0.19}_{-0.21}$	$D_{\text{M}}(0.38)$	1507^{+51}_{-51}
$\ln(10^{10}A_{\text{s}})$	$3.033^{+0.039}_{-0.028}$	z_{re}	< 9.08	$H(0.51)$	$90.4^{+1.7}_{-1.5}$
n_{s}	$0.974^{+0.019}_{-0.018}$	$10^9 A_{\text{s}}$	$2.077^{+0.083}_{-0.058}$	$D_{\text{M}}(0.51)$	1955^{+59}_{-61}
y_{cal}	$1.0000^{+0.0065}_{-0.0063}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.867^{+0.038}_{-0.037}$	$H(0.61)$	$95.9^{+1.4}_{-1.2}$
A_{217}^{CIB}	45^{+20}_{-20}	D_{40}	1209^{+45}_{-45}	$D_{\text{M}}(0.61)$	2277^{+64}_{-66}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5736^{+110}_{-110}	$H(2.33)$	$234.6^{+3.7}_{-3.6}$
A_{143}^{tSZ}	> 1.04	D_{810}	2527^{+36}_{-36}	$D_{\text{M}}(2.33)$	5738^{+55}_{-60}
A_{100}^{PS}	250^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.15)$	$0.438^{+0.038}_{-0.039}$
A_{143}^{PS}	42^{+20}_{-20}	D_{2000}	$232.3^{+5.3}_{-5.1}$	$\sigma_8(0.15)$	$0.738^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	$n_{\text{s},0.002}$	$0.974^{+0.019}_{-0.018}$	$f\sigma_8(0.38)$	$0.460^{+0.030}_{-0.032}$
A_{217}^{PS}	115^{+20}_{-30}	Y_{P}	$0.24549^{+0.00033}_{-0.00031}$	$\sigma_8(0.38)$	$0.656^{+0.016}_{-0.016}$
A^{kSZ}	< 8.96	$Y_{\text{P}}^{\text{BBN}}$	$0.24681^{+0.00033}_{-0.00031}$	$f\sigma_8(0.51)$	$0.461^{+0.026}_{-0.028}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	$10^5 \text{D}/\text{H}$	$2.54^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	$0.615^{+0.014}_{-0.013}$
A_{143}^{dustTT}	$10.5^{+4.6}_{-4.6}$	Age/Gyr	$13.74^{+0.12}_{-0.13}$	$f\sigma_8(0.61)$	$0.457^{+0.023}_{-0.025}$
$A_{143 \times 217}^{\text{dustTT}}$	$17.9^{+8.4}_{-8.5}$	z_*	$1089.3^{+1.4}_{-1.3}$	$\sigma_8(0.61)$	$0.586^{+0.013}_{-0.012}$
A_{217}^{dustTT}	94^{+20}_{-20}	r_*	$145.1^{+1.4}_{-1.3}$	$f\sigma_8(2.33)$	$0.2960^{+0.0062}_{-0.0049}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0416^{+0.0014}_{-0.0013}$	$\sigma_8(2.33)$	$0.3060^{+0.0063}_{-0.0044}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.94^{+0.12}_{-0.12}$	f_{2000}^{143}	27^{+9}_{-9}
H_0	$69.0^{+3.1}_{-3.0}$	z_{drag}	$1060.2^{+1.4}_{-1.4}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
Ω_{Λ}	$0.705^{+0.037}_{-0.039}$	r_{drag}	$147.7^{+1.3}_{-1.3}$	f_{2000}^{217}	$105.0^{+5.8}_{-5.7}$
Ω_{m}	$0.295^{+0.039}_{-0.037}$	k_{D}	$0.1404^{+0.0013}_{-0.0013}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
$\Omega_{\text{m}}h^2$	$0.1398^{+0.0059}_{-0.0058}$	$100\theta_{\text{D}}$	$0.16063^{+0.00081}_{-0.00077}$	χ_{lowl}^2	$21.9 (\nu: 0.6)$
$\Omega_{\text{m}}h^3$	$0.0964^{+0.0013}_{-0.0013}$	z_{eq}	3326^{+140}_{-140}	χ_{plik}^2	$767.3 (\nu: 15.5)$
σ_8	$0.797^{+0.026}_{-0.028}$	k_{eq}	$0.01015^{+0.00043}_{-0.00042}$	χ_{prior}^2	$7.1 (\nu: 6.2)$
S_8	$0.790^{+0.075}_{-0.075}$	$100\theta_{\text{eq}}$	$0.828^{+0.029}_{-0.027}$	χ_{CMB}^2	$1185.5 (\nu: 16.1)$

$$\bar{\chi}_{\text{eff}}^2 = 1192.62; R - 1 = 0.00588$$

3.5 base_Alens_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02249^{+0.00057}_{-0.00056}$	$\sigma_8/h^{0.5}$	$0.970^{+0.032}_{-0.028}$	$D_{\text{M}}(0.38)$	1517^{+27}_{-27}
$\Omega_{\text{c}}h^2$	$0.1179^{+0.0033}_{-0.0033}$	$r_{\text{drag}}h$	$100.8^{+2.6}_{-2.6}$	$H(0.51)$	$90.08^{+0.88}_{-0.85}$
$100\theta_{\text{MC}}$	$1.0412^{+0.0011}_{-0.0010}$	$\langle d^2 \rangle^{1/2}$	$2.63^{+0.19}_{-0.20}$	$D_{\text{M}}(0.51)$	1967^{+31}_{-31}
τ	$0.053^{+0.017}_{-0.011}$	z_{re}	< 9.01	$H(0.61)$	$95.63^{+0.77}_{-0.72}$
A_{L}	$1.20^{+0.20}_{-0.20}$	$10^9 A_{\text{s}}$	$2.080^{+0.081}_{-0.055}$	$D_{\text{M}}(0.61)$	2290^{+34}_{-34}
$\ln(10^{10} A_{\text{s}})$	$3.035^{+0.038}_{-0.027}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.872^{+0.029}_{-0.029}$	$H(2.33)$	$235.3^{+2.1}_{-2.0}$
n_{s}	$0.971^{+0.012}_{-0.012}$	D_{40}	1216^{+33}_{-31}	$D_{\text{M}}(2.33)$	5749^{+35}_{-37}
y_{cal}	$0.99999^{+0.0065}_{-0.0062}$	D_{220}	5729^{+110}_{-100}	$f\sigma_8(0.15)$	$0.446^{+0.022}_{-0.020}$
A_{217}^{CIB}	45^{+20}_{-20}	D_{810}	2528^{+33}_{-35}	$\sigma_8(0.15)$	$0.742^{+0.017}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.466^{+0.018}_{-0.017}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{2000}	$231.8^{+4.8}_{-4.5}$	$\sigma_8(0.38)$	$0.659^{+0.014}_{-0.011}$
A_{100}^{PS}	251^{+80}_{-70}	$n_{\text{s},0.002}$	$0.971^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.466^{+0.016}_{-0.015}$
A_{143}^{PS}	43^{+20}_{-20}	Y_{P}	$0.24544^{+0.00024}_{-0.00023}$	$\sigma_8(0.51)$	$0.617^{+0.013}_{-0.0098}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00024}_{-0.00023}$	$f\sigma_8(0.61)$	$0.462^{+0.014}_{-0.013}$
A_{217}^{PS}	115^{+20}_{-30}	$10^5 \text{D}/\text{H}$	$2.56^{+0.11}_{-0.10}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0090}$
A^{kSZ}	< 9.17	Age/Gyr	$13.767^{+0.080}_{-0.084}$	$f\sigma_8(2.33)$	$0.2964^{+0.0060}_{-0.0043}$
A_{100}^{dustTT}	$8.9^{+5.0}_{-4.8}$	z_*	$1089.58^{+0.86}_{-0.86}$	$\sigma_8(2.33)$	$0.3060^{+0.0061}_{-0.0044}$
A_{143}^{dustTT}	$10.5^{+4.5}_{-4.6}$	r_*	$144.89^{+0.83}_{-0.81}$	f_{2000}^{143}	27^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.0^{+8.2}_{-8.5}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	31^{+6}_{-6}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.913^{+0.082}_{-0.080}$	f_{2000}^{217}	$105.4^{+5.3}_{-5.3}$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	z_{drag}	$1060.1^{+1.2}_{-1.3}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	r_{drag}	$147.52^{+0.91}_{-0.87}$	χ_{lowl}^2	$22.29 (\nu: 0.3)$
H_0	$68.3^{+1.6}_{-1.5}$	k_{D}	$0.1405^{+0.0011}_{-0.0012}$	χ_{plik}^2	$766.2 (\nu: 14.3)$
Ω_{Λ}	$0.698^{+0.019}_{-0.020}$	$100\theta_{\text{D}}$	$0.16071^{+0.00073}_{-0.00069}$	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0)$
Ω_{m}	$0.302^{+0.020}_{-0.019}$	z_{eq}	3354^{+75}_{-75}	χ_{MGS}^2	$1.96 (\nu: 0.2)$
$\Omega_{\text{m}}h^2$	$0.1410^{+0.0031}_{-0.0031}$	k_{eq}	$0.01024^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	$4.04 (\nu: 0.5)$
$\Omega_{\text{m}}h^3$	$0.0963^{+0.0013}_{-0.0012}$	$100\theta_{\text{eq}}$	$0.823^{+0.015}_{-0.014}$	χ_{prior}^2	$7.2 (\nu: 6.3)$
σ_8	$0.802^{+0.019}_{-0.016}$	$100\theta_{\text{s,eq}}$	$0.4542^{+0.0075}_{-0.0072}$	χ_{BAO}^2	$6.0 (\nu: 0.7)$
S_8	$0.805^{+0.042}_{-0.039}$	$H(0.15)$	$73.5^{+1.4}_{-1.3}$	χ_{CMB}^2	$1184.9 (\nu: 15.0)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.441^{+0.023}_{-0.021}$	$D_{\text{M}}(0.15)$	635^{+13}_{-13}		
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.594^{+0.022}_{-0.020}$	$H(0.38)$	$83.5^{+1.1}_{-1.0}$		

$\bar{\chi}_{\text{eff}}^2 = 1198.08; R - 1 = 0.01471$

3.6 base_Alens_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02292^{+0.00077}_{-0.00067}$	$\sigma_8 \Omega_m^{0.25}$	$0.569^{+0.032}_{-0.031}$	$D_M(0.15)$	617^{+21}_{-24}
$\Omega_c h^2$	$0.1134^{+0.0053}_{-0.0059}$	$\sigma_8/h^{0.5}$	$0.936^{+0.044}_{-0.042}$	$H(0.38)$	$84.9^{+2.1}_{-1.7}$
$100\theta_{MC}$	$1.0419^{+0.0014}_{-0.0013}$	$r_{drag}h$	$104.6^{+5.1}_{-4.4}$	$D_M(0.38)$	1480^{+42}_{-49}
τ	$0.055^{+0.019}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.67^{+0.19}_{-0.19}$	$H(0.51)$	$91.2^{+1.7}_{-1.4}$
A_L	$1.32^{+0.25}_{-0.23}$	z_{re}	< 9.23	$D_M(0.51)$	1923^{+50}_{-59}
$\ln(10^{10} A_s)$	$3.030^{+0.040}_{-0.030}$	$10^9 A_s$	$2.069^{+0.084}_{-0.062}$	$H(0.61)$	$96.6^{+1.4}_{-1.1}$
n_s	$0.983^{+0.018}_{-0.016}$	$10^9 A_s e^{-2\tau}$	$1.854^{+0.034}_{-0.033}$	$D_M(0.61)$	2243^{+54}_{-64}
y_{cal}	$1.0001^{+0.0073}_{-0.0064}$	D_{40}	1192^{+40}_{-36}	$H(2.33)$	$232.9^{+3.1}_{-3.5}$
A_{217}^{CIB}	44^{+20}_{-20}	D_{220}	5755^{+110}_{-100}	$D_M(2.33)$	5710^{+50}_{-55}
$\xi^{tSZ \times CIB}$	—	D_{810}	2523^{+38}_{-34}	$f\sigma_8(0.15)$	$0.419^{+0.032}_{-0.033}$
A_{143}^{tSZ}	> 1.45	D_{1420}	816^{+15}_{-13}	$\sigma_8(0.15)$	$0.730^{+0.021}_{-0.018}$
A_{100}^{PS}	245^{+70}_{-80}	D_{2000}	$233.7^{+5.5}_{-5.0}$	$f\sigma_8(0.38)$	$0.445^{+0.026}_{-0.027}$
A_{143}^{PS}	38^{+20}_{-20}	$n_{s,0.002}$	$0.983^{+0.018}_{-0.016}$	$\sigma_8(0.38)$	$0.651^{+0.016}_{-0.014}$
$A_{143 \times 217}^{PS}$	39^{+20}_{-20}	Y_P	$0.24562^{+0.00033}_{-0.00027}$	$f\sigma_8(0.51)$	$0.448^{+0.023}_{-0.023}$
A_{217}^{PS}	114^{+30}_{-30}	Y_P^{BBN}	$0.24694^{+0.00033}_{-0.00027}$	$\sigma_8(0.51)$	$0.611^{+0.014}_{-0.012}$
A^{kSZ}	< 8.32	$10^5 D/H$	$2.49^{+0.12}_{-0.13}$	$f\sigma_8(0.61)$	$0.446^{+0.021}_{-0.020}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.8}$	Age/Gyr	$13.68^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	$0.582^{+0.013}_{-0.011}$
A_{143}^{dustTT}	$10.4^{+4.5}_{-4.5}$	z_*	$1088.7^{+1.2}_{-1.1}$	$f\sigma_8(2.33)$	$0.2951^{+0.0064}_{-0.0048}$
$A_{143 \times 217}^{dustTT}$	$17.8^{+8.5}_{-8.6}$	r_*	$145.7^{+1.3}_{-1.2}$	$\sigma_8(2.33)$	$0.3060^{+0.0066}_{-0.0046}$
A_{217}^{dustTT}	94^{+20}_{-20}	$100\theta_*$	$1.0420^{+0.0013}_{-0.0012}$	f_{2000}^{143}	25^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.99^{+0.12}_{-0.11}$	$f_{2000}^{143 \times 217}$	28^{+6}_{-6}
c_{217}	$0.9981^{+0.0015}_{-0.0018}$	z_{drag}	$1060.7^{+1.5}_{-1.4}$	f_{2000}^{217}	$103.6^{+5.6}_{-5.4}$
H_0	$70.5^{+3.1}_{-2.6}$	r_{drag}	$148.3^{+1.2}_{-1.1}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
Ω_Λ	$0.724^{+0.032}_{-0.031}$	k_D	$0.1400^{+0.0013}_{-0.0012}$	χ_{lowl}^2	$20.81 (\nu: 0.2)$
Ω_m	$0.276^{+0.031}_{-0.032}$	$100\theta_D$	$0.16040^{+0.00075}_{-0.00078}$	χ_{plik}^2	$769.7 (\nu: 17.8)$
$\Omega_m h^2$	$0.1370^{+0.0049}_{-0.0055}$	z_{eq}	3258^{+120}_{-130}	$\chi_{H073p45}^2$	$3.4 (\nu: 2.4)$
$\Omega_m h^3$	$0.0966^{+0.0013}_{-0.0012}$	k_{eq}	$0.00994^{+0.00036}_{-0.00040}$	χ_{prior}^2	$7.1 (\nu: 6.2)$
σ_8	$0.786^{+0.024}_{-0.022}$	$100\theta_{eq}$	$0.843^{+0.028}_{-0.024}$	χ_{CMB}^2	$1186.9 (\nu: 17.7)$
S_8	$0.753^{+0.062}_{-0.064}$	$100\theta_{s,eq}$	$0.464^{+0.014}_{-0.012}$		
$\sigma_8 \Omega_m^{0.5}$	$0.412^{+0.034}_{-0.035}$	$H(0.15)$	$75.4^{+2.7}_{-2.2}$		

$$\bar{\chi}_{\text{eff}}^2 = 1197.44; R - 1 = 0.01845$$

3.7 base_Alens_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022631	$0.02259^{+0.00045}_{-0.00044}$	$\Omega_m h^2$	0.14113	$0.1413^{+0.0038}_{-0.0036}$	k_{eq}	0.010247	$0.01026^{+0.00028}_{-0.00026}$
$\Omega_c h^2$	0.11786	$0.1181^{+0.0041}_{-0.0038}$	$\Omega_m h^3$	0.09656	$0.09650^{+0.00076}_{-0.00075}$	$100\theta_{\text{eq}}$	0.8224	$0.821^{+0.017}_{-0.017}$
$100\theta_{\text{MC}}$	1.04118	$1.04114^{+0.00088}_{-0.00082}$	σ_8	0.8010	$0.800^{+0.023}_{-0.026}$	$100\theta_{\text{s,eq}}$	0.4539	$0.4534^{+0.0085}_{-0.0089}$
τ	0.0511	$0.049^{+0.021}_{-0.029}$	S_8	0.8030	$0.804^{+0.050}_{-0.048}$	$H(0.15)$	73.60	$73.5^{+1.6}_{-1.6}$
A_L	1.191	$1.18^{+0.17}_{-0.16}$	$\sigma_8 \Omega_m^{0.5}$	0.4398	$0.440^{+0.028}_{-0.026}$	$D_M(0.15)$	634.4	636^{+15}_{-15}
$\ln(10^{10} A_s)$	3.033	$3.029^{+0.044}_{-0.058}$	$\sigma_8 \Omega_m^{0.25}$	0.5935	$0.593^{+0.026}_{-0.026}$	$H(0.38)$	83.54	$83.5^{+1.2}_{-1.1}$
n_s	0.9729	$0.971^{+0.012}_{-0.013}$	$\sigma_8/h^{0.5}$	0.9683	$0.968^{+0.037}_{-0.039}$	$D_M(0.38)$	1515.3	1518^{+31}_{-30}
y_{cal}	0.99999	$1.0000^{+0.0063}_{-0.0061}$	$r_{\text{drag}} h$	100.82	$100.6^{+3.1}_{-3.1}$	$H(0.51)$	90.17	$90.10^{+0.93}_{-0.90}$
A_{217}^{CIB}	42.2	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.612	$2.60^{+0.15}_{-0.16}$	$D_M(0.51)$	1964.6	1967^{+37}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	z_{re}	7.27	$7.1^{+2.0}_{-3.4}$	$H(0.61)$	95.72	$95.66^{+0.76}_{-0.71}$
A_{143}^{tSZ}	6.93	> 1.29	$10^9 A_s$	2.076	$2.068^{+0.092}_{-0.12}$	$D_M(0.61)$	2287.3	2290^{+39}_{-38}
A_{100}^{PS}	237	249^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8743	$1.874^{+0.033}_{-0.030}$	$H(2.33)$	235.43	$235.6^{+2.4}_{-2.2}$
A_{143}^{PS}	49.1	42^{+20}_{-20}	D_{40}	1212.9	1217^{+35}_{-34}	$D_M(2.33)$	5744.0	5747^{+32}_{-33}
$A_{143 \times 217}^{\text{PS}}$	57.2	42^{+20}_{-20}	D_{220}	5737	5739^{+98}_{-96}	$f\sigma_8(0.15)$	0.4451	$0.446^{+0.026}_{-0.025}$
A_{217}^{PS}	124.1	116^{+30}_{-30}	D_{810}	2533.2	2531^{+35}_{-34}	$\sigma_8(0.15)$	0.7411	$0.740^{+0.019}_{-0.023}$
A^{kSZ}	0.00	< 8.71	D_{1420}	817.0	816^{+12}_{-12}	$f\sigma_8(0.38)$	0.4655	$0.465^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.72	$8.8^{+4.9}_{-4.7}$	D_{2000}	232.94	$232.2^{+4.1}_{-4.1}$	$\sigma_8(0.38)$	0.6580	$0.657^{+0.016}_{-0.020}$
A_{143}^{dustTT}	10.68	$10.6^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9729	$0.971^{+0.012}_{-0.013}$	$f\sigma_8(0.51)$	0.4652	$0.465^{+0.019}_{-0.019}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.1^{+8.4}_{-8.3}$	Y_{P}	0.245491	$0.24548^{+0.00019}_{-0.00017}$	$\sigma_8(0.51)$	0.6163	$0.615^{+0.014}_{-0.018}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246818	$0.24680^{+0.00019}_{-0.00017}$	$f\sigma_8(0.61)$	0.4611	$0.461^{+0.017}_{-0.018}$
A_{100}^{dustTE}	0.112	$0.114^{+0.10}_{-0.095}$	$10^5 D/H$	2.539	$2.546^{+0.081}_{-0.080}$	$\sigma_8(0.61)$	0.5867	$0.585^{+0.014}_{-0.018}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.077}$	Age/Gyr	13.754	$13.761^{+0.072}_{-0.073}$	$f\sigma_8(2.33)$	0.2962	$0.2954^{+0.0067}_{-0.0086}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	z_*	1089.41	$1089.48^{+0.82}_{-0.78}$	$\sigma_8(2.33)$	0.3058	$0.3050^{+0.0068}_{-0.0088}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	r_*	144.79	$144.76^{+0.83}_{-0.86}$	f_{2000}^{143}	25.4	27^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.659	$0.66^{+0.20}_{-0.21}$	$100\theta_*$	1.04134	$1.04130^{+0.00086}_{-0.00081}$	$f_{2000}^{143 \times 217}$	29.5	30^{+5}_{-5}
A_{217}^{dustTE}	2.05	$2.05^{+0.70}_{-0.68}$	$D_M(z_*)/\text{Gpc}$	13.904	$13.902^{+0.078}_{-0.079}$	f_{2000}^{217}	104.23	$105.0^{+4.9}_{-4.8}$
c_{100}	0.99976	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	1060.39	$1060.30^{+0.85}_{-0.87}$	χ_{small}^2	395.7	$396.9 (\nu: 1.4)$
c_{217}	0.99810	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	147.37	$147.35^{+0.81}_{-0.82}$	χ_{lowl}^2	21.96	$22.32 (\nu: 0.4)$
H_0	68.42	$68.3^{+1.8}_{-1.8}$	k_{D}	0.14077	$0.14076^{+0.00085}_{-0.00082}$	χ_{plik}^2	2337.1	$2353.8 (\nu: 16.5)$
Ω_Λ	0.6985	$0.697^{+0.023}_{-0.025}$	$100\theta_{\text{D}}$	0.160510	$0.16056^{+0.00049}_{-0.00047}$	χ_{prior}^2	1.4	$11.3 (\nu: 9.5)$
Ω_{m}	0.3015	$0.303^{+0.025}_{-0.023}$	z_{eq}	3357	3362^{+91}_{-85}	χ_{CMB}^2	2754.7	$2773.0 (\nu: 17.8)$

Best-fit $\chi_{\text{eff}}^2 = 2756.11$; $\bar{\chi}_{\text{eff}}^2 = 2784.27$; $R - 1 = 0.01070$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.67 commander_dx12_v3.2_29: 21.96 plik_rd12_HM_v22b_TTTEEE: 2337.11

3.8 base_Alens_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022617	$0.02258^{+0.00038}_{-0.00037}$	σ_8	0.8011	$0.800^{+0.020}_{-0.024}$	$D_M(0.15)$	635.1	636^{+11}_{-11}
$\Omega_c h^2$	0.11802	$0.1182^{+0.0028}_{-0.0028}$	S_8	0.8046	$0.805^{+0.036}_{-0.038}$	$H(0.38)$	83.49	$83.43^{+0.84}_{-0.80}$
$100\theta_{MC}$	1.04115	$1.04113^{+0.00078}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	0.4407	$0.441^{+0.020}_{-0.021}$	$D_M(0.38)$	1516.7	1518^{+22}_{-22}
τ	0.0507	$0.049^{+0.021}_{-0.029}$	$\sigma_8 \Omega_m^{0.25}$	0.5942	$0.594^{+0.020}_{-0.022}$	$H(0.51)$	90.13	$90.07^{+0.69}_{-0.64}$
A_L	1.185	$1.18^{+0.16}_{-0.15}$	$\sigma_8/h^{0.5}$	0.9691	$0.969^{+0.029}_{-0.033}$	$D_M(0.51)$	1966.2	1968^{+25}_{-26}
$\ln(10^{10} A_s)$	3.033	$3.029^{+0.046}_{-0.058}$	$r_{drag} h$	100.68	$100.5^{+2.2}_{-2.1}$	$H(0.61)$	95.68	$95.64^{+0.58}_{-0.53}$
n_s	0.9722	$0.9705^{+0.0099}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.607	$2.60^{+0.15}_{-0.16}$	$D_M(0.61)$	2289.1	2291^{+27}_{-28}
y_{cal}	0.9999	$1.0000^{+0.0063}_{-0.0062}$	z_{re}	7.23	$7.0^{+2.1}_{-3.3}$	$H(2.33)$	235.52	$235.6^{+1.7}_{-1.7}$
A_{217}^{CIB}	42.4	45^{+20}_{-20}	$10^9 A_s$	2.075	$2.068^{+0.096}_{-0.12}$	$D_M(2.33)$	5745.5	5748^{+25}_{-26}
$\xi^{tSZ \times CIB}$	0.997	—	$10^9 A_s e^{-2\tau}$	1.8747	$1.875^{+0.029}_{-0.027}$	$f\sigma_8(0.15)$	0.4459	$0.446^{+0.019}_{-0.020}$
A_{143}^{tSZ}	6.86	> 1.31	D_{40}	1214.3	1217^{+31}_{-30}	$\sigma_8(0.15)$	0.7412	$0.740^{+0.018}_{-0.023}$
A_{100}^{PS}	238	249^{+70}_{-70}	D_{220}	5737	5738^{+97}_{-99}	$f\sigma_8(0.38)$	0.4660	$0.466^{+0.016}_{-0.018}$
A_{143}^{PS}	49.8	42^{+20}_{-20}	D_{810}	2533.0	2531^{+34}_{-34}	$\sigma_8(0.38)$	0.6580	$0.657^{+0.015}_{-0.020}$
$A_{143 \times 217}^{PS}$	57.6	42^{+20}_{-20}	D_{1420}	816.8	816^{+12}_{-11}	$f\sigma_8(0.51)$	0.4657	$0.465^{+0.015}_{-0.016}$
A_{217}^{PS}	124.3	116^{+20}_{-30}	D_{2000}	232.76	$232.2^{+3.9}_{-3.9}$	$\sigma_8(0.51)$	0.6161	$0.615^{+0.014}_{-0.019}$
A^{kSZ}	0.00	< 8.67	$n_{s,0.002}$	0.9722	$0.9705^{+0.0099}_{-0.010}$	$f\sigma_8(0.61)$	0.4615	$0.461^{+0.014}_{-0.015}$
A_{100}^{dustTT}	8.76	$8.8^{+4.9}_{-4.6}$	Y_P	0.245486	$0.24547^{+0.00016}_{-0.00014}$	$\sigma_8(0.61)$	0.5865	$0.585^{+0.014}_{-0.018}$
A_{143}^{dustTT}	10.62	$10.6^{+4.5}_{-4.6}$	Y_P^{BBN}	0.246813	$0.24680^{+0.00016}_{-0.00014}$	$f\sigma_8(2.33)$	0.2961	$0.2955^{+0.0066}_{-0.0086}$
$A_{143 \times 217}^{dustTT}$	19.7	$18.1^{+8.4}_{-8.4}$	$10^5 D/H$	2.541	$2.548^{+0.068}_{-0.068}$	$\sigma_8(2.33)$	0.3056	$0.3050^{+0.0068}_{-0.0089}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.757	$13.763^{+0.056}_{-0.058}$	f_{2000}^{143}	25.8	27^{+7}_{-7}
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.095}$	z_*	1089.44	$1089.50^{+0.63}_{-0.63}$	$f_{2000}^{143 \times 217}$	29.7	30^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.072}_{-0.077}$	r_*	144.75	$144.74^{+0.63}_{-0.64}$	f_{2000}^{217}	104.44	$105.1^{+4.9}_{-4.6}$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.23}_{-0.22}$	$100\theta_*$	1.04130	$1.04129^{+0.00077}_{-0.00075}$	χ_{small}^2	395.67	$396.9 (\nu: 1.4)$
A_{143}^{dustTE}	0.220	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.901	$13.900^{+0.060}_{-0.062}$	χ_{lowl}^2	22.06	$22.34 (\nu: 0.3)$
$A_{143 \times 217}^{dustTE}$	0.659	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.35	$1060.29^{+0.79}_{-0.78}$	χ_{plik}^2	2337.1	$2353.2 (\nu: 15.5)$
A_{217}^{dustTE}	2.05	$2.06^{+0.69}_{-0.68}$	r_{drag}	147.34	$147.34^{+0.64}_{-0.66}$	χ_{6DF}^2	0.002	$0.030 (\nu: 0.0)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14079	$0.14076^{+0.00077}_{-0.00075}$	χ_{MGS}^2	1.82	$1.79 (\nu: 0.1)$
c_{217}	0.99814	$0.9981^{+0.0016}_{-0.0017}$	$100\theta_D$	0.160519	$0.16056^{+0.00047}_{-0.00046}$	$\chi_{DR12BAO}^2$	3.43	$3.95 (\nu: 0.3)$
H_0	68.33	$68.2^{+1.3}_{-1.2}$	z_{eq}	3361	3364^{+63}_{-63}	χ_{prior}^2	1.3	$11.3 (\nu: 9.7)$
Ω_Λ	0.6974	$0.696^{+0.017}_{-0.017}$	k_{eq}	0.010258	$0.01027^{+0.00019}_{-0.00019}$	χ_{BAO}^2	5.25	$5.77 (\nu: 0.3)$
Ω_m	0.3026	$0.304^{+0.017}_{-0.017}$	$100\theta_{eq}$	0.8216	$0.821^{+0.012}_{-0.012}$	χ_{CMB}^2	2754.9	$2772.4 (\nu: 17.0)$
$\Omega_m h^2$	0.14128	$0.1414^{+0.0026}_{-0.0026}$	$100\theta_{s,eq}$	0.4535	$0.4532^{+0.0063}_{-0.0061}$			
$\Omega_m h^3$	0.09654	$0.09649^{+0.00076}_{-0.00074}$	$H(0.15)$	73.52	$73.4^{+1.1}_{-1.1}$			

Best-fit $\chi_{eff}^2 = 2761.40$; $\bar{\chi}_{eff}^2 = 2789.54$; $R - 1 = 0.01310$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.43 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.67 commander_dx12_v3_2_29: 22.06 plik_rd12_HM_v22b_TTTEEE: 2337.12

3.9 base_Alens_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022780	$0.02274^{+0.00042}_{-0.00042}$	$\Omega_m h^3$	0.09663	$0.09658^{+0.00075}_{-0.00076}$	$100\theta_{s,eq}$	0.4574	$0.4571^{+0.0084}_{-0.0081}$
$\Omega_c h^2$	0.11629	$0.1164^{+0.0037}_{-0.0037}$	σ_8	0.7953	$0.794^{+0.022}_{-0.026}$	$H(0.15)$	74.24	$74.2^{+1.7}_{-1.5}$
$100\theta_{MC}$	1.04135	$1.04135^{+0.00080}_{-0.00082}$	S_8	0.7848	$0.785^{+0.045}_{-0.046}$	$D_M(0.15)$	628.2	629^{+14}_{-15}
τ	0.0519	$0.050^{+0.020}_{-0.030}$	$\sigma_8 \Omega_m^{0.5}$	0.4298	$0.430^{+0.025}_{-0.025}$	$H(0.38)$	84.02	$84.0^{+1.3}_{-1.1}$
A_L	1.229	$1.22^{+0.15}_{-0.16}$	$\sigma_8 \Omega_m^{0.25}$	0.5847	$0.584^{+0.024}_{-0.026}$	$D_M(0.38)$	1502.8	1504^{+29}_{-31}
$\ln(10^{10} A_s)$	3.031	$3.027^{+0.043}_{-0.059}$	$\sigma_8/h^{0.5}$	0.9564	$0.955^{+0.034}_{-0.037}$	$H(0.51)$	90.55	$90.5^{+1.0}_{-0.85}$
n_s	0.9769	$0.975^{+0.010}_{-0.012}$	$r_{drag} h$	102.10	$102.0^{+3.2}_{-2.9}$	$D_M(0.51)$	1949.8	1951^{+34}_{-37}
y_{cal}	0.9999	$0.99996^{+0.0064}_{-0.0059}$	$\langle d^2 \rangle^{1/2}$	2.622	$2.61^{+0.13}_{-0.15}$	$H(0.61)$	96.02	$95.98^{+0.83}_{-0.69}$
A_{217}^{CIB}	41.8	44^{+20}_{-20}	z_{re}	7.29	$7.1^{+1.9}_{-3.4}$	$D_M(0.61)$	2271.4	2273^{+36}_{-40}
$\xi^{tSZ \times CIB}$	1.00	—	$10^9 A_s$	2.072	$2.064^{+0.090}_{-0.12}$	$H(2.33)$	234.57	$234.6^{+2.1}_{-2.0}$
A_{143}^{tSZ}	7.03	> 1.56	$10^9 A_s e^{-2\tau}$	1.8675	$1.867^{+0.030}_{-0.031}$	$D_M(2.33)$	5731.3	5733^{+31}_{-34}
A_{100}^{PS}	234	246^{+70}_{-70}	D_{40}	1204.5	1208^{+33}_{-31}	$f\sigma_8(0.15)$	0.4358	$0.436^{+0.023}_{-0.024}$
A_{143}^{PS}	46.5	40^{+20}_{-20}	D_{220}	5745	5748^{+98}_{-100}	$\sigma_8(0.15)$	0.7369	$0.735^{+0.019}_{-0.023}$
$A_{143 \times 217}^{PS}$	55.7	41^{+20}_{-20}	D_{810}	2530.9	2529^{+35}_{-33}	$f\sigma_8(0.38)$	0.4581	$0.458^{+0.019}_{-0.020}$
A_{217}^{PS}	123.3	116^{+20}_{-30}	D_{1420}	817.5	816^{+11}_{-12}	$\sigma_8(0.38)$	0.6553	$0.654^{+0.016}_{-0.019}$
A^{kSZ}	0.00	< 8.54	D_{2000}	233.55	$232.8^{+4.1}_{-3.9}$	$f\sigma_8(0.51)$	0.4590	$0.458^{+0.017}_{-0.019}$
A_{100}^{dustTT}	8.60	$8.9^{+4.9}_{-4.6}$	$n_{s,0.002}$	0.9769	$0.975^{+0.010}_{-0.012}$	$\sigma_8(0.51)$	0.6142	$0.613^{+0.014}_{-0.019}$
A_{143}^{dustTT}	10.61	$10.5^{+4.6}_{-4.5}$	Y_P	0.245548	$0.24554^{+0.00019}_{-0.00016}$	$f\sigma_8(0.61)$	0.4557	$0.455^{+0.016}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.0^{+7.8}_{-8.3}$	Y_P^{BBN}	0.246875	$0.24686^{+0.00019}_{-0.00016}$	$\sigma_8(0.61)$	0.5850	$0.584^{+0.014}_{-0.018}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$10^5 D/H$	2.512	$2.519^{+0.076}_{-0.073}$	$f\sigma_8(2.33)$	0.2957	$0.2950^{+0.0066}_{-0.0088}$
A_{100}^{dustTE}	0.113	$0.11^{+0.11}_{-0.10}$	Age/Gyr	13.727	$13.731^{+0.068}_{-0.075}$	$\sigma_8(2.33)$	0.3058	$0.3050^{+0.0066}_{-0.0089}$
$A_{100 \times 143}^{dustTE}$	0.133	$0.136^{+0.076}_{-0.074}$	z_*	1089.09	$1089.15^{+0.76}_{-0.71}$	f_{2000}^{143}	24.3	26^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.23}_{-0.22}$	r_*	145.08	$145.08^{+0.71}_{-0.79}$	$f_{2000}^{143 \times 217}$	28.6	29^{+5}_{-5}
A_{143}^{dustTE}	0.215	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04150	$1.04150^{+0.00077}_{-0.00080}$	f_{2000}^{217}	103.54	$104.3^{+4.7}_{-4.9}$
$A_{143 \times 217}^{dustTE}$	0.657	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.930	$13.930^{+0.061}_{-0.073}$	χ_{simall}^2	395.65	$396.8 (\nu: 1.3)$
A_{217}^{dustTE}	2.03	$2.04^{+0.66}_{-0.75}$	z_{drag}	1060.62	$1060.53^{+0.85}_{-0.83}$	χ_{lowl}^2	21.38	$21.66 (\nu: 0.3)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0017}$	r_{drag}	147.62	$147.63^{+0.67}_{-0.76}$	χ_{plik}^2	2338.7	$2355.3 (\nu: 18.6)$
c_{217}	0.99809	$0.9981^{+0.0017}_{-0.0015}$	k_D	0.14061	$0.14057^{+0.00082}_{-0.00074}$	$\chi_{H073p45}^2$	6.7	$7.1 (\nu: 2.1)$
H_0	69.16	$69.1^{+1.9}_{-1.7}$	$100\theta_D$	0.160391	$0.16044^{+0.00047}_{-0.00046}$	χ_{prior}^2	1.4	$11.3 (\nu: 9.5)$
Ω_Λ	0.7079	$0.707^{+0.022}_{-0.022}$	z_{eq}	3323	3326^{+82}_{-79}	χ_{CMB}^2	2755.8	$2773.8 (\nu: 18.8)$
Ω_m	0.2921	$0.293^{+0.022}_{-0.022}$	k_{eq}	0.010143	$0.01015^{+0.00025}_{-0.00024}$			
$\Omega_m h^2$	0.13972	$0.1398^{+0.0034}_{-0.0033}$	$100\theta_{eq}$	0.8292	$0.829^{+0.017}_{-0.016}$			

Best-fit $\chi_{eff}^2 = 2763.88$; $\bar{\chi}_{eff}^2 = 2792.09$; $R - 1 = 0.02684$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.65 commander_dx12_v3.2_29: 21.38 plik_rd12_HM_v22b_TTTEEE: 2338.75 Hubble - H073p45: 6.67

3.10 base_Alens_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02259^{+0.00045}_{-0.00045}$	$\Omega_m h^2$	$0.1413^{+0.0039}_{-0.0035}$	k_{eq}	$0.01026^{+0.00028}_{-0.00026}$
$\Omega_c h^2$	$0.1181^{+0.0042}_{-0.0038}$	$\Omega_m h^3$	$0.09650^{+0.00076}_{-0.00075}$	$100\theta_{\text{eq}}$	$0.822^{+0.017}_{-0.018}$
$100\theta_{\text{MC}}$	$1.04114^{+0.00090}_{-0.00082}$	σ_8	$0.802^{+0.021}_{-0.018}$	$100\theta_{\text{s,eq}}$	$0.4535^{+0.0084}_{-0.0090}$
τ	$0.053^{+0.016}_{-0.010}$	S_8	$0.806^{+0.050}_{-0.045}$	$H(0.15)$	$73.5^{+1.5}_{-1.6}$
A_L	$1.17^{+0.17}_{-0.16}$	$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.027}_{-0.025}$	$D_M(0.15)$	635^{+16}_{-15}
$\ln(10^{10} A_s)$	$3.036^{+0.039}_{-0.026}$	$\sigma_8 \Omega_m^{0.25}$	$0.595^{+0.025}_{-0.023}$	$H(0.38)$	$83.5^{+1.2}_{-1.2}$
n_s	$0.971^{+0.012}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.971^{+0.035}_{-0.033}$	$D_M(0.38)$	1518^{+32}_{-30}
y_{cal}	$1.0000^{+0.0064}_{-0.0061}$	$r_{\text{drag}} h$	$100.6^{+3.1}_{-3.2}$	$H(0.51)$	$90.10^{+0.93}_{-0.91}$
A_{217}^{CIB}	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.60^{+0.15}_{-0.15}$	$D_M(0.51)$	1967^{+37}_{-35}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 8.98	$H(0.61)$	$95.66^{+0.75}_{-0.74}$
A_{143}^{tSZ}	> 1.34	$10^9 A_s$	$2.082^{+0.082}_{-0.054}$	$D_M(0.61)$	2290^{+40}_{-38}
A_{100}^{PS}	249^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.874^{+0.033}_{-0.030}$	$H(2.33)$	$235.5^{+2.4}_{-2.2}$
A_{143}^{PS}	42^{+20}_{-20}	D_{40}	1217^{+35}_{-34}	$D_M(2.33)$	5747^{+33}_{-33}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5739^{+96}_{-97}	$f\sigma_8(0.15)$	$0.447^{+0.025}_{-0.023}$
A_{217}^{PS}	116^{+20}_{-30}	D_{810}	2531^{+36}_{-34}	$\sigma_8(0.15)$	$0.742^{+0.018}_{-0.015}$
A^{kSZ}	< 8.71	D_{1420}	816^{+12}_{-12}	$f\sigma_8(0.38)$	$0.467^{+0.020}_{-0.019}$
A_{100}^{dustTT}	$8.8^{+4.9}_{-4.7}$	D_{2000}	$232.2^{+3.9}_{-4.1}$	$\sigma_8(0.38)$	$0.659^{+0.014}_{-0.012}$
A_{143}^{dustTT}	$10.6^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	$0.971^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.466^{+0.017}_{-0.017}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.1^{+8.4}_{-8.4}$	Y_{P}	$0.24548^{+0.00019}_{-0.00018}$	$\sigma_8(0.51)$	$0.617^{+0.013}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24680^{+0.00019}_{-0.00018}$	$f\sigma_8(0.61)$	$0.462^{+0.016}_{-0.015}$
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.094}$	10^5D/H	$2.546^{+0.083}_{-0.080}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0093}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.077}$	Age/Gyr	$13.760^{+0.073}_{-0.073}$	$f\sigma_8(2.33)$	$0.2965^{+0.0059}_{-0.0042}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.48^{+0.84}_{-0.79}$	$\sigma_8(2.33)$	$0.3060^{+0.0059}_{-0.0040}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$144.76^{+0.83}_{-0.87}$	f_{2000}^{143}	27^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$100\theta_*$	$1.04130^{+0.00087}_{-0.00080}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
A_{217}^{dustTE}	$2.05^{+0.70}_{-0.67}$	$D_M(z_*)/\text{Gpc}$	$13.902^{+0.077}_{-0.079}$	f_{2000}^{217}	$105.0^{+4.9}_{-4.8}$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	z_{drag}	$1060.30^{+0.85}_{-0.87}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	$147.36^{+0.81}_{-0.83}$	χ_{lowl}^2	$22.38 (\nu: 0.4)$
H_0	$68.3^{+1.8}_{-1.9}$	k_{D}	$0.14075^{+0.00087}_{-0.00081}$	χ_{plik}^2	$2353.8 (\nu: 16.4)$
Ω_Λ	$0.697^{+0.022}_{-0.025}$	$100\theta_{\text{D}}$	$0.16056^{+0.00050}_{-0.00047}$	χ_{prior}^2	$11.3 (\nu: 9.5)$
Ω_{m}	$0.303^{+0.025}_{-0.022}$	z_{eq}	3361^{+93}_{-84}	χ_{CMB}^2	$2772.6 (\nu: 17.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2783.87; R - 1 = 0.01066$$

3.11 base_Alens_plikHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02258^{+0.00038}_{-0.00037}$	σ_8	$0.803^{+0.018}_{-0.015}$	$D_M(0.15)$	636^{+11}_{-11}
$\Omega_c h^2$	$0.1182^{+0.0028}_{-0.0028}$	S_8	$0.808^{+0.035}_{-0.034}$	$H(0.38)$	$83.43^{+0.85}_{-0.81}$
$100\theta_{MC}$	$1.04113^{+0.00079}_{-0.00073}$	$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.019}_{-0.019}$	$D_M(0.38)$	1518^{+22}_{-22}
τ	$0.053^{+0.016}_{-0.010}$	$\sigma_8 \Omega_m^{0.25}$	$0.596^{+0.019}_{-0.018}$	$H(0.51)$	$90.07^{+0.69}_{-0.65}$
A_L	$1.17^{+0.15}_{-0.15}$	$\sigma_8/h^{0.5}$	$0.972^{+0.027}_{-0.025}$	$D_M(0.51)$	1968^{+26}_{-26}
$\ln(10^{10} A_s)$	$3.036^{+0.036}_{-0.027}$	$r_{\text{drag}} h$	$100.5^{+2.2}_{-2.2}$	$H(0.61)$	$95.64^{+0.58}_{-0.53}$
n_s	$0.971^{+0.010}_{-0.0099}$	$\langle d^2 \rangle^{1/2}$	$2.60^{+0.15}_{-0.15}$	$D_M(0.61)$	2291^{+28}_{-28}
y_{cal}	$1.0000^{+0.0063}_{-0.0061}$	z_{re}	< 9.00	$H(2.33)$	$235.6^{+1.7}_{-1.7}$
A_{217}^{CIB}	44^{+20}_{-20}	$10^9 A_s$	$2.083^{+0.076}_{-0.057}$	$D_M(2.33)$	5748^{+25}_{-26}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.874^{+0.029}_{-0.027}$	$f\sigma_8(0.15)$	$0.448^{+0.018}_{-0.018}$
A_{143}^{tSZ}	> 1.28	D_{40}	1218^{+31}_{-31}	$\sigma_8(0.15)$	$0.743^{+0.016}_{-0.013}$
A_{100}^{PS}	250^{+70}_{-70}	D_{220}	5738^{+97}_{-99}	$f\sigma_8(0.38)$	$0.467^{+0.015}_{-0.015}$
A_{143}^{PS}	42^{+20}_{-20}	D_{810}	2531^{+34}_{-34}	$\sigma_8(0.38)$	$0.659^{+0.014}_{-0.010}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	816^{+12}_{-11}	$f\sigma_8(0.51)$	$0.467^{+0.014}_{-0.013}$
A_{217}^{PS}	116^{+20}_{-30}	D_{2000}	$232.2^{+3.9}_{-3.9}$	$\sigma_8(0.51)$	$0.617^{+0.013}_{-0.0091}$
A^{kSZ}	< 8.57	$n_{s,0.002}$	$0.971^{+0.010}_{-0.0099}$	$f\sigma_8(0.61)$	$0.463^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$8.8^{+4.9}_{-4.5}$	Y_P	$0.24547^{+0.00015}_{-0.00014}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0083}$
A_{143}^{dustTT}	$10.6^{+4.5}_{-4.6}$	Y_P^{BBN}	$0.24680^{+0.00016}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2965^{+0.0058}_{-0.0040}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.2^{+8.5}_{-8.6}$	$10^5 D/H$	$2.548^{+0.069}_{-0.067}$	$\sigma_8(2.33)$	$0.3060^{+0.0056}_{-0.0043}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.762^{+0.057}_{-0.058}$	f_{2000}^{143}	27^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.091}$	z_*	$1089.50^{+0.64}_{-0.62}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.072}_{-0.079}$	r_*	$144.74^{+0.63}_{-0.63}$	f_{2000}^{217}	$105.1^{+4.8}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.21}$	$100\theta_*$	$1.04129^{+0.00077}_{-0.00072}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.900^{+0.061}_{-0.062}$	χ_{lowl}^2	$22.40 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1060.29^{+0.79}_{-0.78}$	χ_{plik}^2	$2353.2 (\nu: 15.4)$
A_{217}^{dustTE}	$2.06^{+0.65}_{-0.68}$	r_{drag}	$147.34^{+0.64}_{-0.64}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14076^{+0.00073}_{-0.00074}$	χ_{MGS}^2	$1.79 (\nu: 0.1)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16056^{+0.00047}_{-0.00046}$	χ_{DR12BAO}^2	$3.95 (\nu: 0.3)$
H_0	$68.2^{+1.3}_{-1.3}$	z_{eq}	3364^{+62}_{-64}	χ_{prior}^2	$11.3 (\nu: 9.7)$
Ω_Λ	$0.696^{+0.017}_{-0.017}$	k_{eq}	$0.01027^{+0.00019}_{-0.00019}$	χ_{BAO}^2	$5.78 (\nu: 0.3)$
Ω_m	$0.304^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012}$	χ_{CMB}^2	$2772.0 (\nu: 16.2)$
$\Omega_m h^2$	$0.1414^{+0.0026}_{-0.0027}$	$100\theta_{s,\text{eq}}$	$0.4532^{+0.0063}_{-0.0061}$		
$\Omega_m h^3$	$0.09649^{+0.00075}_{-0.00074}$	$H(0.15)$	$73.4^{+1.1}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2789.13; R - 1 = 0.01550$$

3.12 base_Alens_plikHM_TTTEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02274^{+0.00042}_{-0.00042}$	$\Omega_{\text{m}}h^3$	$0.09658^{+0.00075}_{-0.00074}$	$100\theta_{\text{s,eq}}$	$0.4572^{+0.0083}_{-0.0081}$
$\Omega_{\text{c}}h^2$	$0.1164^{+0.0037}_{-0.0036}$	σ_8	$0.796^{+0.020}_{-0.020}$	$H(0.15)$	$74.2^{+1.6}_{-1.5}$
$100\theta_{\text{MC}}$	$1.04136^{+0.00080}_{-0.00081}$	S_8	$0.787^{+0.045}_{-0.048}$	$D_{\text{M}}(0.15)$	629^{+14}_{-15}
τ	$0.053^{+0.016}_{-0.011}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.431^{+0.024}_{-0.026}$	$H(0.38)$	$84.0^{+1.2}_{-1.1}$
A_{L}	$1.21^{+0.16}_{-0.16}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.586^{+0.023}_{-0.025}$	$D_{\text{M}}(0.38)$	1504^{+29}_{-31}
$\ln(10^{10}A_{\text{s}})$	$3.033^{+0.039}_{-0.028}$	$\sigma_8/h^{0.5}$	$0.958^{+0.032}_{-0.035}$	$H(0.51)$	$90.5^{+1.0}_{-0.86}$
n_{s}	$0.975^{+0.010}_{-0.012}$	$r_{\text{drag}}h$	$102.0^{+3.2}_{-2.9}$	$D_{\text{M}}(0.51)$	1951^{+34}_{-37}
y_{cal}	$0.9999^{+0.0064}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	$2.61^{+0.13}_{-0.15}$	$H(0.61)$	$95.99^{+0.82}_{-0.70}$
A_{217}^{CIB}	44^{+20}_{-20}	z_{re}	< 8.95	$D_{\text{M}}(0.61)$	2273^{+36}_{-40}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_{\text{s}}$	$2.077^{+0.082}_{-0.057}$	$H(2.33)$	$234.6^{+2.1}_{-2.0}$
A_{143}^{tSZ}	> 1.56	$10^9 A_{\text{s}}e^{-2\tau}$	$1.867^{+0.031}_{-0.031}$	$D_{\text{M}}(2.33)$	5733^{+31}_{-34}
A_{100}^{PS}	246^{+70}_{-70}	D_{40}	1208^{+32}_{-30}	$f\sigma_8(0.15)$	$0.437^{+0.023}_{-0.025}$
A_{143}^{PS}	40^{+20}_{-20}	D_{220}	5747^{+97}_{-100}	$\sigma_8(0.15)$	$0.738^{+0.018}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	D_{810}	2528^{+35}_{-32}	$f\sigma_8(0.38)$	$0.459^{+0.019}_{-0.021}$
A_{217}^{PS}	116^{+20}_{-30}	D_{1420}	816^{+11}_{-12}	$\sigma_8(0.38)$	$0.656^{+0.014}_{-0.012}$
A^{kSZ}	< 8.54	D_{2000}	$232.8^{+3.8}_{-3.8}$	$f\sigma_8(0.51)$	$0.460^{+0.017}_{-0.018}$
A_{100}^{dustTT}	$8.8^{+5.1}_{-4.5}$	$n_{\text{s},0.002}$	$0.975^{+0.010}_{-0.012}$	$\sigma_8(0.51)$	$0.615^{+0.013}_{-0.011}$
A_{143}^{dustTT}	$10.6^{+4.8}_{-4.5}$	Y_{P}	$0.24554^{+0.00019}_{-0.00016}$	$f\sigma_8(0.61)$	$0.456^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	$17.9^{+7.9}_{-8.5}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24686^{+0.00019}_{-0.00016}$	$\sigma_8(0.61)$	$0.585^{+0.012}_{-0.0096}$
A_{217}^{dustTT}	93^{+20}_{-20}	$10^5 \text{D}/\text{H}$	$2.519^{+0.075}_{-0.073}$	$f\sigma_8(2.33)$	$0.2959^{+0.0060}_{-0.0046}$
A_{100}^{dustTE}	$0.12^{+0.11}_{-0.10}$	Age/Gyr	$13.731^{+0.068}_{-0.075}$	$\sigma_8(2.33)$	$0.3060^{+0.0056}_{-0.0044}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.075}$	z_*	$1089.15^{+0.75}_{-0.70}$	f_{2000}^{143}	26^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	r_*	$145.09^{+0.70}_{-0.79}$	$f_{2000}^{143 \times 217}$	29^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04151^{+0.00076}_{-0.00080}$	f_{2000}^{217}	$104.3^{+4.6}_{-4.9}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.930^{+0.066}_{-0.071}$	χ_{simall}^2	$396.3 (\nu: 0.5)$
A_{217}^{dustTE}	$2.04^{+0.65}_{-0.73}$	z_{drag}	$1060.53^{+0.85}_{-0.79}$	χ_{lowl}^2	$21.71 (\nu: 0.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0017}$	r_{drag}	$147.64^{+0.64}_{-0.77}$	χ_{plik}^2	$2355.4 (\nu: 18.7)$
c_{217}	$0.9981^{+0.0016}_{-0.0015}$	k_{D}	$0.14056^{+0.00082}_{-0.00072}$	χ_{H073p45}^2	$7.0 (\nu: 2.1)$
H_0	$69.1^{+1.9}_{-1.7}$	$100\theta_{\text{D}}$	$0.16044^{+0.00046}_{-0.00046}$	χ_{prior}^2	$11.3 (\nu: 9.5)$
Ω_{Λ}	$0.707^{+0.022}_{-0.022}$	z_{eq}	3325^{+82}_{-78}	χ_{CMB}^2	$2773.4 (\nu: 18.3)$
Ω_{m}	$0.293^{+0.022}_{-0.022}$	k_{eq}	$0.01015^{+0.00025}_{-0.00024}$		
$\Omega_{\text{m}}h^2$	$0.1398^{+0.0034}_{-0.0033}$	$100\theta_{\text{eq}}$	$0.829^{+0.017}_{-0.016}$		

$$\bar{\chi}_{\text{eff}}^2 = 2791.77; R - 1 = 0.03556$$

3.13 base_Alens_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02270	$0.02263^{+0.00075}_{-0.00073}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4286	$0.430^{+0.042}_{-0.039}$ (−0.1 σ)	$H(0.15)$	74.25	$74.1^{+2.7}_{-2.7}$ (+0.1 σ)
$\Omega_c h^2$	0.1162	$0.1164^{+0.0065}_{-0.0062}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.5833	$0.584^{+0.038}_{-0.037}$ (−0.1 σ)	$D_M(0.15)$	628.1	629^{+26}_{-25} (−0.1 σ)
$100\theta_{MC}$	1.04149	$1.0414^{+0.0014}_{-0.0014}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	0.954	$0.956^{+0.053}_{-0.052}$ (−0.1 σ)	$H(0.38)$	84.02	$83.9^{+2.0}_{-2.0}$ (+0.1 σ)
τ	0.0502	$0.050^{+0.021}_{-0.027}$ (+0.0 σ)	$r_{drag} h$	102.2	$102.0^{+5.3}_{-5.3}$ (+0.1 σ)	$D_M(0.38)$	1503	1505^{+53}_{-50} (−0.1 σ)
A_L	1.270	$1.25^{+0.27}_{-0.24}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.656	$2.64^{+0.19}_{-0.21}$ (−0.1 σ)	$H(0.51)$	90.53	$90.5^{+1.7}_{-1.6}$ (+0.1 σ)
$\ln(10^{10} A_s)$	3.0260	$3.026^{+0.044}_{-0.053}$ (−0.0 σ)	z_{re}	7.14	$7.1^{+2.0}_{-3.1}$ (+0.0 σ)	$D_M(0.51)$	1950	1953^{+62}_{-59} (−0.1 σ)
n_s	0.9776	$0.976^{+0.018}_{-0.019}$ (+0.2 σ)	$10^9 A_s$	2.061	$2.062^{+0.092}_{-0.11}$ (−0.0 σ)	$H(0.61)$	96.00	$95.9^{+1.4}_{-1.3}$ (+0.1 σ)
y_{cal}	0.9999	$1.0001^{+0.0067}_{-0.0065}$ (+0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8643	$1.864^{+0.038}_{-0.037}$ (−0.2 σ)	$D_M(0.61)$	2271	2275^{+67}_{-65} (−0.1 σ)
A_{100}^{PS}	217	229^{+60}_{-70} (−0.7 σ)	D_{40}	1200.1	1204^{+45}_{-43} (−0.3 σ)	$H(2.33)$	234.44	$234.5^{+3.7}_{-3.5}$ (−0.1 σ)
A_{143}^{PS}	44.2	33^{+20}_{-20} (−1.0 σ)	D_{220}	5727	5728^{+110}_{-110} (−0.2 σ)	$D_M(2.33)$	5733	5737^{+57}_{-59} (−0.1 σ)
A_{217}^{PS}	109.9	104^{+30}_{-30} (−1.1 σ)	D_{810}	2526.2	2525^{+37}_{-36} (−0.1 σ)	$f\sigma_8(0.15)$	0.4346	$0.436^{+0.039}_{-0.037}$ (−0.1 σ)
A_{217}^{CIB}	36.7	37^{+20}_{-20} (−1.2 σ)	D_{1420}	815.6	814^{+13}_{-13} (−0.0 σ)	$\sigma_8(0.15)$	0.7354	$0.735^{+0.023}_{-0.024}$ (−0.1 σ)
A_{143}^{tSZ}	6.24	< 8.89 (−0.7 σ)	D_{2000}	233.2	$232.3^{+5.3}_{-5.6}$ (+0.0 σ)	$f\sigma_8(0.38)$	0.4569	$0.458^{+0.032}_{-0.031}$ (−0.1 σ)
$r_{143 \times 217}^{PS}$	0.796	> 0.352	$n_{s,0.002}$	0.9776	$0.976^{+0.018}_{-0.019}$ (+0.2 σ)	$\sigma_8(0.38)$	0.6541	$0.654^{+0.018}_{-0.019}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.74	—	Y_P	0.245516	$0.24549^{+0.00032}_{-0.00031}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4579	$0.458^{+0.027}_{-0.027}$ (−0.1 σ)
$\xi^{tSZ \times CIB}$	0.996	—	Y_P^{BBN}	0.246843	$0.24682^{+0.00032}_{-0.00031}$ (+0.1 σ)	$\sigma_8(0.51)$	0.6130	$0.613^{+0.016}_{-0.017}$ (−0.0 σ)
A^{kSZ}	0.0	—	$10^5 D/H$	2.527	$2.54^{+0.14}_{-0.13}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.4546	$0.455^{+0.024}_{-0.024}$ (−0.1 σ)
A_{100}^{dust}	1.010	$1.01^{+0.49}_{-0.49}$	Age/Gyr	13.730	$13.74^{+0.13}_{-0.13}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5839	$0.584^{+0.014}_{-0.016}$ (−0.0 σ)
A_{143}^{dust}	0.948	$0.95^{+0.44}_{-0.45}$	z_*	1089.18	$1089.3^{+1.4}_{-1.3}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2952	$0.2950^{+0.0068}_{-0.0077}$ (−0.0 σ)
A_{217}^{dust}	0.990	$0.98^{+0.27}_{-0.26}$	r_*	145.17	$145.2^{+1.3}_{-1.3}$ (+0.1 σ)	$\sigma_8(2.33)$	0.3053	$0.3050^{+0.0068}_{-0.0083}$ (+0.0 σ)
$A_{143 \times 217}^{dust}$	1.016	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	1.04165	$1.0416^{+0.0014}_{-0.0014}$ (+0.1 σ)	f_{2000}^{143}	25.2	26^{+9}_{-8} (−0.2 σ)
c_{100}	0.99788	$0.9975^{+0.0027}_{-0.0027}$ (−3.4 σ)	$D_M(z_*)/\text{Gpc}$	13.936	$13.94^{+0.12}_{-0.12}$ (+0.1 σ)	f_{2000}^{217}	103.3	$104.3^{+6.1}_{-6.1}$ (−0.3 σ)
c_{217}	1.00076	$1.0008^{+0.0042}_{-0.0040}$ (+4.1 σ)	z_{drag}	1060.43	$1060.3^{+1.4}_{-1.4}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	28.5	29^{+7}_{-7} (−0.3 σ)
H_0	69.18	$69.0^{+3.1}_{-3.1}$ (+0.1 σ)	r_{drag}	147.74	$147.8^{+1.3}_{-1.3}$ (+0.1 σ)	χ_{small}^2	395.71	$396.8 (\nu: 1.2)$ (−0.0 σ)
Ω_Λ	0.7084	$0.707^{+0.035}_{-0.041}$ (+0.1 σ)	k_D	0.14043	$0.1403^{+0.0013}_{-0.0013}$ (−0.1 σ)	χ_{lowl}^2	21.18	$21.6 (\nu: 0.5)$ (−0.2 σ)
Ω_m	0.2916	$0.293^{+0.041}_{-0.035}$ (−0.1 σ)	$100\theta_D$	0.16052	$0.16061^{+0.00080}_{-0.00073}$ (−0.0 σ)	$\chi_{CamSpec}^2$	7046.0	$7059.9 (\nu: 14.2)$
$\Omega_m h^2$	0.1395	$0.1397^{+0.0060}_{-0.0057}$ (−0.1 σ)	z_{eq}	3319	3322^{+140}_{-140} (−0.1 σ)	χ_{prior}^2	1.4	$7.2 (\nu: 5.4)$ (+0.0 σ)
$\Omega_m h^3$	0.09654	$0.0964^{+0.0013}_{-0.0014}$ (+0.0 σ)	k_{eq}	0.010131	$0.01014^{+0.00044}_{-0.00042}$ (−0.1 σ)	χ_{CMB}^2	7462.8	$7478.3 (\nu: 15.1)$ (+1092.2 σ)
σ_8	0.7937	$0.794^{+0.028}_{-0.029}$ (−0.1 σ)	$100\theta_{eq}$	0.8298	$0.829^{+0.028}_{-0.028}$ (+0.1 σ)			
S_8	0.783	$0.785^{+0.077}_{-0.072}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4578	$0.457^{+0.014}_{-0.014}$ (+0.1 σ)			

Best-fit $\chi_{eff}^2 = 7464.21$; $\Delta\chi_{eff}^2 = 6293.32$; $\bar{\chi}_{eff}^2 = 7485.53$; $\Delta\bar{\chi}_{eff}^2 = 6292.49$; $R - 1 = 0.00653$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.71 (Δ 0.05) commander_dx12_v3.2.29: 21.18 (Δ -0.17) CamSpec like_10.7HM: 7045.95

3.14 base_Alens_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02250^{+0.00057}_{-0.00057} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.022}_{-0.024} \quad (-0.0\sigma)$	$H(0.38)$	$83.5^{+1.0}_{-1.0} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1178^{+0.0034}_{-0.0033} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.966^{+0.032}_{-0.036} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1517^{+28}_{-26} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.8^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$H(0.51)$	$90.10^{+0.87}_{-0.87} \quad (+0.1\sigma)$
τ	$0.050^{+0.021}_{-0.026} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.62^{+0.18}_{-0.20} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1966^{+32}_{-31} \quad (-0.1\sigma)$
A_{L}	$1.21^{+0.21}_{-0.20} \quad (-0.0\sigma)$	z_{re}	$7.1^{+2.1}_{-3.0} \quad (+0.0\sigma)$	$H(0.61)$	$95.64^{+0.76}_{-0.75} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.028^{+0.043}_{-0.053} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.065^{+0.091}_{-0.11} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2289^{+35}_{-34} \quad (-0.1\sigma)$
n_{s}	$0.972^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.032}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-2.0} \quad (-0.0\sigma)$
y_{cal}	$1.0001^{+0.0069}_{-0.0067} \quad (+0.0\sigma)$	D_{40}	$1212^{+33}_{-34} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5749^{+37}_{-37} \quad (-0.1\sigma)$
A_{100}^{PS}	$230^{+70}_{-70} \quad (-0.7\sigma)$	D_{220}	$5720^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.444^{+0.022}_{-0.022} \quad (-0.0\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2526^{+37}_{-36} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.018}_{-0.022} \quad (-0.0\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.018}_{-0.019} \quad (-0.0\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.2\sigma)$	D_{2000}	$231.8^{+5.0}_{-4.9} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.015}_{-0.019} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.75 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.972^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.016}_{-0.018} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.371	Y_{P}	$0.24544^{+0.00024}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.014}_{-0.017} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00024}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.015}_{-0.017} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.11}_{-0.10} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.016} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.765^{+0.085}_{-0.083} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2954^{+0.0067}_{-0.0079} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.48}_{-0.48}$	z_*	$1089.57^{+0.87}_{-0.83} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3050^{+0.0068}_{-0.0083} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.47}$	r_*	$144.90^{+0.81}_{-0.79} \quad (+0.0\sigma)$	f_{2000}^{143}	$27^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$104.8^{+5.4}_{-5.7} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.914^{+0.081}_{-0.076} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.5\sigma)$	z_{drag}	$1060.1^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.3) \quad (+0.0\sigma)$
c_{217}	$1.0008^{+0.0042}_{-0.0039} \quad (+4.1\sigma)$	r_{drag}	$147.53^{+0.90}_{-0.84} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.00 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$68.4^{+1.6}_{-1.6} \quad (+0.1\sigma)$	k_{D}	$0.1405^{+0.0011}_{-0.0012} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7058.9 \quad (\nu: 13.4)$
Ω_{Λ}	$0.698^{+0.019}_{-0.021} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00070}_{-0.00066} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.049 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.302^{+0.021}_{-0.019} \quad (-0.1\sigma)$	z_{eq}	$3353^{+76}_{-75} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.99 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	k_{eq}	$0.01023^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.06 \quad (\nu: 0.5) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0963^{+0.0012}_{-0.0014} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.015}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.3 \quad (\nu: 5.6) \quad (+0.1\sigma)$
σ_8	$0.799^{+0.020}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4543^{+0.0074}_{-0.0074} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (+0.0\sigma)$
S_8	$0.801^{+0.042}_{-0.042} \quad (-0.0\sigma)$	$H(0.15)$	$73.5^{+1.4}_{-1.4} \quad (+0.1\sigma)$	χ_{CMB}^2	$7477.8 \quad (\nu: 14.8) \quad (+1125.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.439^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+14}_{-13} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7491.23$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.73$; $R - 1 = 0.01433$

3.15 base_Alens_CamSpecHM_TT_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02293^{+0.00060}_{-0.00066} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.411^{+0.034}_{-0.028} \quad (-0.1\sigma)$	$H(0.15)$	$75.5^{+2.0}_{-2.2} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1133^{+0.0052}_{-0.0048} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.567^{+0.032}_{-0.026} \quad (-0.1\sigma)$	$D_M(0.15)$	$617^{+21}_{-17} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0419^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.932^{+0.045}_{-0.037} \quad (-0.1\sigma)$	$H(0.38)$	$84.9^{+1.5}_{-1.7} \quad (+0.1\sigma)$
τ	$0.052^{+0.024}_{-0.025} \quad (+0.0\sigma)$	$r_{drag} h$	$104.7^{+4.2}_{-4.3} \quad (+0.1\sigma)$	$D_M(0.38)$	$1480^{+42}_{-36} \quad (-0.1\sigma)$
A_L	$1.33^{+0.26}_{-0.24} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.67^{+0.19}_{-0.20} \quad (-0.0\sigma)$	$H(0.51)$	$91.3^{+1.3}_{-1.3} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.023^{+0.048}_{-0.047} \quad (-0.0\sigma)$	z_{re}	$7.2^{+2.3}_{-2.6} \quad (+0.0\sigma)$	$D_M(0.51)$	$1922^{+50}_{-43} \quad (-0.1\sigma)$
n_s	$0.984^{+0.014}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_s$	$2.06^{+0.10}_{-0.094} \quad (-0.0\sigma)$	$H(0.61)$	$96.6^{+1.0}_{-1.1} \quad (+0.1\sigma)$
y_{cal}	$1.0001^{+0.0061}_{-0.0069} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.852^{+0.034}_{-0.032} \quad (-0.2\sigma)$	$D_M(0.61)$	$2242^{+54}_{-47} \quad (-0.1\sigma)$
A_{100}^{PS}	$225^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1188^{+39}_{-37} \quad (-0.3\sigma)$	$H(2.33)$	$232.8^{+3.0}_{-2.9} \quad (-0.1\sigma)$
A_{143}^{PS}	$30^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5746^{+100}_{-120} \quad (-0.2\sigma)$	$D_M(2.33)$	$5709^{+50}_{-43} \quad (-0.1\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.0\sigma)$	D_{810}	$2521^{+36}_{-35} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.418^{+0.032}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{CIB}	$35^{+20}_{-20} \quad (-1.3\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.727^{+0.022}_{-0.022} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.8\sigma)$	D_{2000}	$233.8^{+4.7}_{-5.1} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.443^{+0.026}_{-0.022} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	> 0.353	$n_{s,0.002}$	$0.984^{+0.014}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.649^{+0.017}_{-0.017} \quad (-0.0\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P	$0.24562^{+0.00026}_{-0.00027} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.446^{+0.023}_{-0.020} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P^{BBN}	$0.24695^{+0.00026}_{-0.00027} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.609^{+0.016}_{-0.015} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.49^{+0.12}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.444^{+0.021}_{-0.018} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.48}$	Age/Gyr	$13.68^{+0.11}_{-0.092} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.581^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.95^{+0.42}_{-0.45}$	z_*	$1088.7^{+1.1}_{-0.99} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2943^{+0.0071}_{-0.0070} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.8^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3052^{+0.0077}_{-0.0076} \quad (+0.0\sigma)$
$A_{143 \times 217}^{dust}$	$1.01^{+0.42}_{-0.42}$	$100\theta_*$	$1.0421^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$24^{+9}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0026} \quad (-3.3\sigma)$	$D_M(z_*)/Gpc$	$13.99^{+0.11}_{-0.11} \quad (+0.1\sigma)$	f_{2000}^{217}	$102.9^{+5.8}_{-5.4} \quad (-0.4\sigma)$
c_{217}	$1.0006^{+0.0041}_{-0.0043} \quad (+3.9\sigma)$	z_{drag}	$1060.7^{+1.3}_{-1.3} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$28^{+6}_{-6} \quad (-0.4\sigma)$
H_0	$70.6^{+2.2}_{-2.5} \quad (+0.1\sigma)$	r_{drag}	$148.3^{+1.2}_{-1.1} \quad (+0.1\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
Ω_Λ	$0.725^{+0.026}_{-0.031} \quad (+0.1\sigma)$	k_D	$0.1400^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	χ_{lowl}^2	$20.64 \quad (\nu: 0.2) \quad (-0.2\sigma)$
Ω_m	$0.275^{+0.031}_{-0.026} \quad (-0.1\sigma)$	$100\theta_D$	$0.16039^{+0.00072}_{-0.00066} \quad (-0.0\sigma)$	$\chi_{CamSpec}^2$	$7062.5 \quad (\nu: 16.4)$
$\Omega_m h^2$	$0.1369^{+0.0048}_{-0.0045} \quad (-0.1\sigma)$	z_{eq}	$3256^{+120}_{-110} \quad (-0.1\sigma)$	$\chi_{H073p45}^2$	$3.3 \quad (\nu: 2.2) \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.0966^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.00994^{+0.00035}_{-0.00033} \quad (-0.1\sigma)$	χ_{prior}^2	$6.9 \quad (\nu: 4.7) \quad (-0.0\sigma)$
σ_8	$0.783^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{eq}$	$0.843^{+0.023}_{-0.023} \quad (+0.1\sigma)$	χ_{CMB}^2	$7479.9 \quad (\nu: 16.9) \quad (+1045.3\sigma)$
S_8	$0.750^{+0.062}_{-0.051} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	$0.464^{+0.012}_{-0.012} \quad (+0.1\sigma)$		

$$\bar{\chi}_{eff}^2 = 7490.17; \Delta \bar{\chi}_{eff}^2 = 6292.40; R - 1 = 0.03353$$

3.16 base_Alens_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02263^{+0.00075}_{-0.00072} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.431^{+0.042}_{-0.039} \quad (-0.1\sigma)$	$H(0.15)$	$74.1^{+2.7}_{-2.7} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1164^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.586^{+0.038}_{-0.036} \quad (-0.1\sigma)$	$D_M(0.15)$	$629^{+27}_{-24} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0414^{+0.0014}_{-0.0014} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.958^{+0.052}_{-0.050} \quad (-0.1\sigma)$	$H(0.38)$	$83.9^{+2.0}_{-2.0} \quad (+0.1\sigma)$
τ	$0.053^{+0.017}_{-0.011} \quad (+0.0\sigma)$	$r_{drag} h$	$102.1^{+5.3}_{-5.4} \quad (+0.1\sigma)$	$D_M(0.38)$	$1505^{+54}_{-50} \quad (-0.1\sigma)$
A_L	$1.24^{+0.27}_{-0.24} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.64^{+0.19}_{-0.21} \quad (-0.1\sigma)$	$H(0.51)$	$90.5^{+1.7}_{-1.6} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.032^{+0.039}_{-0.028} \quad (-0.1\sigma)$	z_{re}	$< 9.05 \quad (+0.0\sigma)$	$D_M(0.51)$	$1953^{+63}_{-60} \quad (-0.1\sigma)$
n_s	$0.976^{+0.018}_{-0.019} \quad (+0.2\sigma)$	$10^9 A_s$	$2.075^{+0.083}_{-0.057} \quad (-0.1\sigma)$	$H(0.61)$	$95.9^{+1.4}_{-1.3} \quad (+0.1\sigma)$
y_{cal}	$1.0001^{+0.0067}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.864^{+0.038}_{-0.037} \quad (-0.2\sigma)$	$D_M(0.61)$	$2274^{+69}_{-65} \quad (-0.1\sigma)$
A_{100}^{PS}	$228^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1205^{+45}_{-43} \quad (-0.3\sigma)$	$H(2.33)$	$234.5^{+3.7}_{-3.5} \quad (-0.1\sigma)$
A_{143}^{PS}	$33^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5727^{+110}_{-110} \quad (-0.2\sigma)$	$D_M(2.33)$	$5736^{+57}_{-59} \quad (-0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{810}	$2525^{+37}_{-37} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.437^{+0.039}_{-0.037} \quad (-0.1\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$814^{+13}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.738^{+0.021}_{-0.021} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{2000}	$232.4^{+5.3}_{-5.6} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.459^{+0.031}_{-0.030} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	> 0.348	$n_{s,0.002}$	$0.976^{+0.018}_{-0.019} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.016}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P	$0.24549^{+0.00032}_{-0.00030} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.460^{+0.026}_{-0.026} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P^{BBN}	$0.24682^{+0.00033}_{-0.00030} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.54^{+0.14}_{-0.13} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.023}_{-0.024} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.49}$	Age/Gyr	$13.74^{+0.13}_{-0.13} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.45}$	z_*	$1089.3^{+1.4}_{-1.3} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2959^{+0.0062}_{-0.0048} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$145.2^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0061}_{-0.0045} \quad (-0.0\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	$1.0416^{+0.0014}_{-0.0014} \quad (+0.1\sigma)$	f_{2000}^{143}	$26^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/Gpc$	$13.94^{+0.12}_{-0.12} \quad (+0.1\sigma)$	f_{2000}^{217}	$104.3^{+6.1}_{-6.0} \quad (-0.3\sigma)$
c_{217}	$1.0008^{+0.0041}_{-0.0040} \quad (+4.1\sigma)$	z_{drag}	$1060.3^{+1.4}_{-1.4} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+7}_{-7} \quad (-0.3\sigma)$
H_0	$69.1^{+3.1}_{-3.2} \quad (+0.1\sigma)$	r_{drag}	$147.8^{+1.3}_{-1.3} \quad (+0.1\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.6) \quad (+0.0\sigma)$
Ω_Λ	$0.707^{+0.036}_{-0.042} \quad (+0.1\sigma)$	k_D	$0.1403^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	χ_{lowl}^2	$21.6 \quad (\nu: 0.6) \quad (-0.2\sigma)$
Ω_m	$0.293^{+0.042}_{-0.036} \quad (-0.1\sigma)$	$100\theta_D$	$0.16061^{+0.00081}_{-0.00073} \quad (-0.0\sigma)$	$\chi_{CamSpec}^2$	$7059.9 \quad (\nu: 14.3)$
$\Omega_m h^2$	$0.1396^{+0.0060}_{-0.0057} \quad (-0.1\sigma)$	z_{eq}	$3321^{+140}_{-140} \quad (-0.1\sigma)$	χ_{prior}^2	$7.2 \quad (\nu: 5.4) \quad (+0.0\sigma)$
$\Omega_m h^3$	$0.0964^{+0.0012}_{-0.0014} \quad (+0.0\sigma)$	k_{eq}	$0.01014^{+0.00044}_{-0.00042} \quad (-0.1\sigma)$	χ_{CMB}^2	$7477.9 \quad (\nu: 14.6) \quad (+1109.4\sigma)$
σ_8	$0.796^{+0.026}_{-0.026} \quad (-0.1\sigma)$	$100\theta_{eq}$	$0.829^{+0.028}_{-0.028} \quad (+0.1\sigma)$		
S_8	$0.787^{+0.077}_{-0.072} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	$0.458^{+0.014}_{-0.014} \quad (+0.1\sigma)$		

$$\bar{\chi}_{eff}^2 = 7485.10; \Delta \bar{\chi}_{eff}^2 = 6292.48; R - 1 = 0.00928$$

3.17 base_Alens_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02250^{+0.00055}_{-0.00058} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.594^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$H(0.38)$	$83.5^{+1.0}_{-1.0} \quad (+0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1178^{+0.0034}_{-0.0033} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.969^{+0.030}_{-0.028} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1517^{+28}_{-26} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0412^{+0.0011}_{-0.0012} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$100.8^{+2.6}_{-2.7} \quad (+0.1\sigma)$	$H(0.51)$	$90.10^{+0.87}_{-0.85} \quad (+0.1\sigma)$
τ	$0.053^{+0.017}_{-0.011} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.62^{+0.18}_{-0.21} \quad (-0.1\sigma)$	$D_{\text{M}}(0.51)$	$1966^{+33}_{-31} \quad (-0.1\sigma)$
A_{L}	$1.20^{+0.20}_{-0.19} \quad (-0.0\sigma)$	z_{re}	$< 9.08 \quad (+0.0\sigma)$	$H(0.61)$	$95.64^{+0.76}_{-0.72} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.034^{+0.038}_{-0.027} \quad (-0.1\sigma)$	$10^9 A_{\text{s}}$	$2.078^{+0.080}_{-0.056} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2289^{+35}_{-34} \quad (-0.1\sigma)$
n_{s}	$0.972^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.870^{+0.032}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$
y_{cal}	$1.0001^{+0.0071}_{-0.0068} \quad (+0.1\sigma)$	D_{40}	$1212^{+33}_{-34} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5749^{+37}_{-37} \quad (-0.0\sigma)$
A_{100}^{PS}	$230^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5719^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.021}_{-0.020} \quad (-0.1\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2526^{+39}_{-37} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.016}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.2\sigma)$	D_{2000}	$231.8^{+5.1}_{-5.0} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.013}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.75 \quad (-0.7\sigma)$	$n_{\text{s},0.002}$	$0.972^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.466^{+0.015}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.371	Y_{P}	$0.24544^{+0.00023}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.012}_{-0.010} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00023}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.56^{+0.11}_{-0.099} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0094} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.765^{+0.082}_{-0.083} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2964^{+0.0058}_{-0.0046} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.49}$	z_*	$1089.57^{+0.86}_{-0.83} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0061}_{-0.0047} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.47}$	r_*	$144.91^{+0.81}_{-0.79} \quad (+0.1\sigma)$	f_{2000}^{143}	$27^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011} \quad (+0.0\sigma)$	f_{2000}^{217}	$104.8^{+5.4}_{-5.8} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.41}_{-0.41}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.915^{+0.080}_{-0.073} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.5\sigma)$	z_{drag}	$1060.1^{+1.2}_{-1.2} \quad (+0.0\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.6) \quad (+0.0\sigma)$
c_{217}	$1.0008^{+0.0042}_{-0.0040} \quad (+4.1\sigma)$	r_{drag}	$147.54^{+0.90}_{-0.80} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.05 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$68.4^{+1.6}_{-1.6} \quad (+0.1\sigma)$	k_{D}	$0.1405^{+0.0010}_{-0.0012} \quad (-0.0\sigma)$	χ_{CamSpec}^2	$7058.9 \quad (\nu: 13.3)$
Ω_{Λ}	$0.698^{+0.019}_{-0.021} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16071^{+0.00071}_{-0.00065} \quad (-0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.049 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.302^{+0.021}_{-0.019} \quad (-0.1\sigma)$	z_{eq}	$3352^{+76}_{-74} \quad (-0.1\sigma)$	χ_{MGS}^2	$2.00 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1409^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	k_{eq}	$0.01023^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	χ_{DR12BAO}^2	$4.06 \quad (\nu: 0.5) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.0963^{+0.0012}_{-0.0013} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	$0.823^{+0.014}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.3 \quad (\nu: 5.7) \quad (+0.0\sigma)$
σ_8	$0.801^{+0.018}_{-0.017} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.4543^{+0.0074}_{-0.0074} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (+0.0\sigma)$
S_8	$0.804^{+0.041}_{-0.039} \quad (-0.1\sigma)$	$H(0.15)$	$73.5^{+1.4}_{-1.4} \quad (+0.1\sigma)$	χ_{CMB}^2	$7477.4 \quad (\nu: 13.9) \quad (+1150.5\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.440^{+0.022}_{-0.022} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$635^{+14}_{-13} \quad (-0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7490.78$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6292.70$; $R - 1 = 0.01851$

3.18 base_Alens_CamSpecHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02293^{+0.00060}_{-0.00066} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.412^{+0.034}_{-0.028} \quad (-0.1\sigma)$	$H(0.15)$	$75.5^{+1.9}_{-2.2} \quad (+0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1133^{+0.0052}_{-0.0045} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.569^{+0.031}_{-0.028} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$617^{+21}_{-17} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0419^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.935^{+0.044}_{-0.038} \quad (-0.0\sigma)$	$H(0.38)$	$84.9^{+1.5}_{-1.7} \quad (+0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$104.7^{+3.8}_{-4.3} \quad (+0.1\sigma)$	$D_{\text{M}}(0.38)$	$1479^{+42}_{-35} \quad (-0.1\sigma)$
A_{L}	$1.33^{+0.25}_{-0.23} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.67^{+0.18}_{-0.20} \quad (-0.0\sigma)$	$H(0.51)$	$91.3^{+1.2}_{-1.4} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.029^{+0.041}_{-0.031} \quad (-0.0\sigma)$	z_{re}	$< 9.25 \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	$1922^{+50}_{-42} \quad (-0.1\sigma)$
n_{s}	$0.984^{+0.013}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_{\text{s}}$	$2.068^{+0.085}_{-0.064} \quad (-0.0\sigma)$	$H(0.61)$	$96.6^{+1.0}_{-1.1} \quad (+0.1\sigma)$
y_{cal}	$1.0000^{+0.0064}_{-0.0070} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.851^{+0.034}_{-0.031} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2242^{+54}_{-46} \quad (-0.1\sigma)$
A_{100}^{PS}	$225^{+70}_{-70} \quad (-0.7\sigma)$	D_{40}	$1188^{+39}_{-35} \quad (-0.3\sigma)$	$H(2.33)$	$232.8^{+3.0}_{-2.8} \quad (-0.1\sigma)$
A_{143}^{PS}	$30^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5744^{+110}_{-110} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5709^{+50}_{-43} \quad (-0.1\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.0\sigma)$	D_{810}	$2520^{+38}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.419^{+0.032}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{CIB}	$35^{+20}_{-20} \quad (-1.3\sigma)$	D_{1420}	$815^{+12}_{-12} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.729^{+0.020}_{-0.018} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 9.05 \quad (-0.8\sigma)$	D_{2000}	$233.7^{+4.8}_{-5.2} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.444^{+0.026}_{-0.023} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.347	$n_{\text{s},0.002}$	$0.984^{+0.013}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.651^{+0.016}_{-0.013} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24562^{+0.00026}_{-0.00027} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.447^{+0.023}_{-0.021} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24695^{+0.00026}_{-0.00027} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.611^{+0.015}_{-0.012} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.49^{+0.12}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.445^{+0.020}_{-0.019} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.47}$	Age/Gyr	$13.68^{+0.11}_{-0.092} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.582^{+0.014}_{-0.011} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.95^{+0.41}_{-0.47}$	z_*	$1088.7^{+1.1}_{-0.99} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2951^{+0.0067}_{-0.0048} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.29}$	r_*	$145.8^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0072}_{-0.0046} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.00^{+0.42}_{-0.44}$	$100\theta_*$	$1.0421^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	f_{2000}^{143}	$24^{+9}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0027} \quad (-3.3\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.99^{+0.11}_{-0.11} \quad (+0.0\sigma)$	f_{2000}^{217}	$102.9^{+5.8}_{-5.5} \quad (-0.3\sigma)$
c_{217}	$1.0005^{+0.0041}_{-0.0043} \quad (+3.8\sigma)$	z_{drag}	$1060.7^{+1.3}_{-1.3} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$28^{+6}_{-6} \quad (-0.4\sigma)$
H_0	$70.6^{+2.2}_{-2.5} \quad (+0.1\sigma)$	r_{drag}	$148.3^{+1.2}_{-1.1} \quad (+0.0\sigma)$	χ_{small}^2	$396.5 \quad (\nu: 0.8) \quad (+0.1\sigma)$
Ω_{Λ}	$0.725^{+0.024}_{-0.030} \quad (+0.1\sigma)$	k_{D}	$0.1400^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	χ_{lowl}^2	$20.65 \quad (\nu: 0.2) \quad (-0.2\sigma)$
Ω_{m}	$0.275^{+0.030}_{-0.024} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16039^{+0.00074}_{-0.00067} \quad (-0.0\sigma)$	χ_{CamSpec}^2	$7062.6 \quad (\nu: 16.9)$
$\Omega_{\text{m}} h^2$	$0.1369^{+0.0048}_{-0.0044} \quad (-0.1\sigma)$	z_{eq}	$3255^{+120}_{-110} \quad (-0.1\sigma)$	χ_{H073p45}^2	$3.3 \quad (\nu: 2.2) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^3$	$0.0966^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.00993^{+0.00035}_{-0.00032} \quad (-0.1\sigma)$	χ_{prior}^2	$6.9 \quad (\nu: 4.8) \quad (-0.1\sigma)$
σ_8	$0.785^{+0.024}_{-0.021} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.843^{+0.022}_{-0.023} \quad (+0.1\sigma)$	χ_{CMB}^2	$7479.7 \quad (\nu: 17.3) \quad (+1057.3\sigma)$
S_8	$0.752^{+0.061}_{-0.052} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.465^{+0.011}_{-0.012} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 7489.90; \Delta \bar{\chi}_{\text{eff}}^2 = 6292.46; R - 1 = 0.05184$$

3.19 base_Alens_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02254	$0.02251^{+0.00050}_{-0.00051} \quad (-0.5\sigma)$	σ_8	0.8000	$0.799^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8228	$0.822^{+0.017}_{-0.017} \quad (+0.2\sigma)$
$\Omega_c h^2$	0.11776	$0.1179^{+0.0040}_{-0.0039} \quad (-0.1\sigma)$	S_8	0.8023	$0.802^{+0.049}_{-0.047} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	0.4542	$0.4540^{+0.0089}_{-0.0087} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	1.04109	$1.04108^{+0.00087}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4394	$0.439^{+0.027}_{-0.026} \quad (-0.1\sigma)$	$H(0.15)$	73.53	$73.5^{+1.6}_{-1.6} \quad (-0.0\sigma)$
τ	0.0508	$0.050^{+0.021}_{-0.024} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5929	$0.592^{+0.025}_{-0.025} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	635.0	$636^{+16}_{-16} \quad (+0.0\sigma)$
A_{L}	1.155	$1.15^{+0.19}_{-0.18} \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	0.9676	$0.967^{+0.036}_{-0.036} \quad (-0.1\sigma)$	$H(0.38)$	83.47	$83.4^{+1.2}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.0309	$3.028^{+0.043}_{-0.049} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	100.81	$100.7^{+3.2}_{-3.2} \quad (+0.1\sigma)$	$D_{\text{M}}(0.38)$	1516.8	$1518^{+32}_{-31} \quad (+0.0\sigma)$
n_{s}	0.9725	$0.971^{+0.013}_{-0.013} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.570	$2.56^{+0.17}_{-0.18} \quad (-0.7\sigma)$	$H(0.51)$	90.09	$90.05^{+0.99}_{-0.95} \quad (-0.1\sigma)$
y_{cal}	1.0001	$1.0000^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	7.25	$7.1^{+2.0}_{-2.7} \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	1966.4	$1968^{+38}_{-37} \quad (+0.0\sigma)$
A_{100}^{PS}	223	$232^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	2.072	$2.065^{+0.091}_{-0.098} \quad (-0.1\sigma)$	$H(0.61)$	95.64	$95.60^{+0.82}_{-0.78} \quad (-0.2\sigma)$
A_{143}^{PS}	46.5	$36^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8715	$1.870^{+0.031}_{-0.030} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2289.4	$2291^{+41}_{-40} \quad (+0.0\sigma)$
A_{217}^{PS}	109.5	$105^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1211.5	$1213^{+36}_{-34} \quad (-0.3\sigma)$	$H(2.33)$	235.27	$235.3^{+2.3}_{-2.3} \quad (-0.3\sigma)$
A_{217}^{CIB}	37.8	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5726	$5723^{+100}_{-99} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	5748.6	$5750^{+36}_{-36} \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.07	$< 8.83 \quad (-0.9\sigma)$	D_{810}	2531.0	$2528^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4447	$0.445^{+0.025}_{-0.024} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.792	> 0.365	D_{1420}	816.1	$815^{+12}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7402	$0.739^{+0.019}_{-0.020} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.70	—	D_{2000}	232.14	$231.5^{+4.2}_{-4.7} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4650	$0.465^{+0.021}_{-0.020} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.94	—	$n_{\text{s},0.002}$	0.9725	$0.971^{+0.013}_{-0.013} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	0.6572	$0.656^{+0.015}_{-0.017} \quad (-0.1\sigma)$
A^{kSZ}	0.2	—	Y_{P}	0.245459	$0.24545^{+0.00021}_{-0.00021} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4647	$0.464^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.51}$	$Y_{\text{P}}^{\text{BBN}}$	0.246786	$0.24677^{+0.00021}_{-0.00021} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.6155	$0.614^{+0.014}_{-0.016} \quad (-0.1\sigma)$
A_{143}^{dust}	0.946	$0.95^{+0.45}_{-0.45}$	10^5D/H	2.555	$2.561^{+0.095}_{-0.089} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4606	$0.460^{+0.016}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{dust}	0.993	$0.98^{+0.27}_{-0.26}$	Age/Gyr	13.765	$13.769^{+0.080}_{-0.080} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	0.5859	$0.585^{+0.013}_{-0.015} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.050	$1.02^{+0.42}_{-0.41}$	z_*	1089.51	$1089.56^{+0.91}_{-0.86} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	0.2958	$0.2952^{+0.0065}_{-0.0073} \quad (-0.1\sigma)$
c_{100}	0.99794	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.88	$144.88^{+0.86}_{-0.84} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3054	$0.3048^{+0.0067}_{-0.0074} \quad (-0.1\sigma)$
c_{217}	1.00093	$1.0009^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	$100\theta_*$	1.04127	$1.04125^{+0.00085}_{-0.00081} \quad (-0.1\sigma)$	f_{2000}^{143}	26.7	$27^{+8}_{-7} \quad (+0.2\sigma)$
c_{TE}	0.9917	$0.992^{+0.014}_{-0.014}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.914	$13.914^{+0.079}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	104.4	$105.1^{+5.4}_{-5.3} \quad (+0.0\sigma)$
c_{EE}	0.9902	$0.990^{+0.013}_{-0.013}$	z_{drag}	1060.16	$1060.1^{+1.0}_{-1.0} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	29.8	$30^{+6}_{-6} \quad (+0.0\sigma)$
H_0	68.35	$68.3^{+1.9}_{-1.9} \quad (-0.0\sigma)$	r_{drag}	147.50	$147.50^{+0.83}_{-0.83} \quad (+0.5\sigma)$	χ_{simall}^2	395.68	$396.8 \quad (\nu: 1.1) \quad (-0.1\sigma)$
Ω_{Λ}	0.6983	$0.697^{+0.023}_{-0.025} \quad (+0.1\sigma)$	k_{D}	0.14057	$0.14054^{+0.00090}_{-0.00088} \quad (-0.7\sigma)$	χ_{lowl}^2	21.90	$22.12 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_{m}	0.3017	$0.303^{+0.025}_{-0.023} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	0.16062	$0.16066^{+0.00058}_{-0.00055} \quad (+0.6\sigma)$	χ_{CamSpec}^2	11496.5	$11512.3 \quad (\nu: 16.0)$
$\Omega_{\text{m}} h^2$	0.14095	$0.1410^{+0.0037}_{-0.0036} \quad (-0.2\sigma)$	z_{eq}	3353	$3355^{+89}_{-87} \quad (-0.2\sigma)$	χ_{prior}^2	1.9	$7.7 \quad (\nu: 5.6) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	0.09633	$0.09629^{+0.00089}_{-0.00086} \quad (-0.7\sigma)$	k_{eq}	0.010233	$0.01024^{+0.00027}_{-0.00027} \quad (-0.2\sigma)$	χ_{CMB}^2	11914.1	$11931.2 \quad (\nu: 16.9) \quad (+1535.4\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11915.94$; $\Delta\chi_{\text{eff}}^2 = 9159.83$; $\bar{\chi}_{\text{eff}}^2 = 11938.97$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9154.70$; $R - 1 = 0.01096$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.68 (Δ 0.01) commander_dx12_v3.2.29: 21.90 (Δ -0.06) CamSpec like_10.7HM_1400_unified: 11496.51

3.20 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02249^{+0.00044}_{-0.00044} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.441^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.37^{+0.87}_{-0.82} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.1181^{+0.0027}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.593^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1519^{+22}_{-22} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04106^{+0.00078}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.968^{+0.029}_{-0.030} \quad (-0.0\sigma)$	$H(0.51)$	$90.01^{+0.71}_{-0.67} \quad (-0.2\sigma)$
τ	$0.049^{+0.021}_{-0.026} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$100.6^{+2.2}_{-2.2} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1970^{+26}_{-26} \quad (+0.1\sigma)$
A_{L}	$1.14^{+0.17}_{-0.16} \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.16}_{-0.17} \quad (-0.7\sigma)$	$H(0.61)$	$95.57^{+0.60}_{-0.56} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.028^{+0.044}_{-0.048} \quad (-0.1\sigma)$	z_{re}	$7.1^{+2.1}_{-2.9} \quad (+0.0\sigma)$	$D_{\text{M}}(0.61)$	$2293^{+28}_{-29} \quad (+0.1\sigma)$
n_{s}	$0.971^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.065^{+0.092}_{-0.098} \quad (-0.1\sigma)$	$H(2.33)$	$235.4^{+1.6}_{-1.7} \quad (-0.3\sigma)$
y_{cal}	$1.0000^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.871^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5752^{+27}_{-28} \quad (+0.4\sigma)$
A_{100}^{PS}	$232^{+70}_{-70} \quad (-0.6\sigma)$	D_{40}	$1214^{+33}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.019}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+100}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.018}_{-0.019} \quad (-0.1\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2528^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+12}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.015}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.9\sigma)$	D_{2000}	$231.4^{+4.2}_{-4.4} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.015}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.354	$n_{\text{s},0.002}$	$0.971^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.014}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24544^{+0.00018}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00018}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.015} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.563^{+0.081}_{-0.079} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2953^{+0.0066}_{-0.0075} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.00^{+0.53}_{-0.51}$	Age/Gyr	$13.772^{+0.060}_{-0.063} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3047^{+0.0068}_{-0.0076} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.45}$	z_*	$1089.60^{+0.68}_{-0.69} \quad (+0.4\sigma)$	f_{2000}^{143}	$27^{+8}_{-7} \quad (+0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.26}$	r_*	$144.84^{+0.65}_{-0.62} \quad (+0.4\sigma)$	f_{2000}^{217}	$105.1^{+5.2}_{-5.1} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.41}$	$100\theta_*$	$1.04123^{+0.00077}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+5}_{-5} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.910^{+0.061}_{-0.059} \quad (+0.5\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{217}	$1.0009^{+0.0042}_{-0.0041} \quad (+4.4\sigma)$	z_{drag}	$1060.08^{+0.96}_{-0.95} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.17 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{TE}	$0.993^{+0.013}_{-0.014}$	r_{drag}	$147.47^{+0.67}_{-0.65} \quad (+0.5\sigma)$	χ_{CamSpec}^2	$11511.8 \quad (\nu: 15.2)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	k_{D}	$0.14056^{+0.00085}_{-0.00083} \quad (-0.7\sigma)$	$\chi_{6\text{DF}}^2$	$0.030 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$68.2^{+1.3}_{-1.3} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16067^{+0.00055}_{-0.00053} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.81 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{Λ}	$0.696^{+0.017}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3359^{+61}_{-62} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	$3.93 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_{m}	$0.304^{+0.017}_{-0.017} \quad (-0.0\sigma)$	k_{eq}	$0.01025^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^2$	$0.1412^{+0.0026}_{-0.0026} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.012} \quad (+0.2\sigma)$	χ_{BAO}^2	$5.77 \quad (\nu: 0.3) \quad (-0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.09628^{+0.00090}_{-0.00086} \quad (-0.7\sigma)$	$100\theta_{\text{s,eq}}$	$0.4536^{+0.0062}_{-0.0060} \quad (+0.2\sigma)$	χ_{CMB}^2	$11930.7 \quad (\nu: 16.4) \quad (+1572.6\sigma)$
σ_8	$0.799^{+0.019}_{-0.022} \quad (-0.1\sigma)$	$H(0.15)$	$73.4^{+1.2}_{-1.1} \quad (-0.1\sigma)$		
S_8	$0.804^{+0.036}_{-0.035} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$636^{+11}_{-11} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11944.29; \Delta\bar{\chi}_{\text{eff}}^2 = 9154.75; R - 1 = 0.01598$$

3.21 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02268^{+0.00048}_{-0.00047} \quad (-0.4\sigma)$	S_8	$0.783^{+0.045}_{-0.046} \quad (-0.1\sigma)$	$H(0.15)$	$74.2^{+1.5}_{-1.5} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1161^{+0.0037}_{-0.0037} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.429^{+0.025}_{-0.025} \quad (-0.1\sigma)$	$D_M(0.15)$	$629^{+14}_{-14} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04132^{+0.00096}_{-0.00083} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.583^{+0.024}_{-0.025} \quad (-0.1\sigma)$	$H(0.38)$	$84.0^{+1.2}_{-1.1} \quad (+0.0\sigma)$
τ	$0.051^{+0.022}_{-0.024} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.954^{+0.034}_{-0.035} \quad (-0.1\sigma)$	$D_M(0.38)$	$1504^{+29}_{-29} \quad (-0.0\sigma)$
A_L	$1.19^{+0.24}_{-0.18} \quad (-0.4\sigma)$	$r_{\text{drag}} h$	$102.1^{+3.0}_{-3.0} \quad (+0.1\sigma)$	$H(0.51)$	$90.49^{+0.96}_{-0.89} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.026^{+0.044}_{-0.047} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.58^{+0.19}_{-0.17} \quad (-0.6\sigma)$	$D_M(0.51)$	$1951^{+34}_{-35} \quad (-0.0\sigma)$
n_s	$0.976^{+0.013}_{-0.013} \quad (+0.2\sigma)$	z_{re}	$7.2^{+2.1}_{-2.7} \quad (+0.1\sigma)$	$H(0.61)$	$95.95^{+0.79}_{-0.73} \quad (-0.1\sigma)$
y_{cal}	$1.0000^{+0.0061}_{-0.0062} \quad (+0.0\sigma)$	$10^9 A_s$	$2.063^{+0.092}_{-0.095} \quad (-0.0\sigma)$	$D_M(0.61)$	$2273^{+37}_{-38} \quad (-0.0\sigma)$
A_{100}^{PS}	$228^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.863^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$H(2.33)$	$234.4^{+2.2}_{-2.2} \quad (-0.3\sigma)$
A_{143}^{PS}	$33^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1204^{+35}_{-37} \quad (-0.3\sigma)$	$D_M(2.33)$	$5735^{+33}_{-34} \quad (+0.2\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.1\sigma)$	D_{220}	$5733^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.435^{+0.023}_{-0.024} \quad (-0.1\sigma)$
A_{217}^{CIB}	$36^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2526^{+33}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.735^{+0.019}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	D_{1420}	$815^{+11}_{-12} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.457^{+0.019}_{-0.021} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.362	D_{2000}	$232.4^{+3.8}_{-4.4} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.654^{+0.016}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{s,0.002}$	$0.976^{+0.013}_{-0.013} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.458^{+0.017}_{-0.018} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P	$0.24551^{+0.00022}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.612^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.24684^{+0.00022}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.454^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.55}$	10^5D/H	$2.530^{+0.086}_{-0.085} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.583^{+0.014}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.94^{+0.47}_{-0.49}$	Age/Gyr	$13.737^{+0.074}_{-0.073} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2949^{+0.0067}_{-0.0070} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.99^{+0.27}_{-0.26}$	z_*	$1089.20^{+0.82}_{-0.73} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3050^{+0.0068}_{-0.0073} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.01^{+0.40}_{-0.41}$	r_*	$145.20^{+0.74}_{-0.80} \quad (+0.4\sigma)$	f_{2000}^{143}	$26^{+8}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	$100\theta_*$	$1.04147^{+0.00094}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{217}	$104.2^{+5.3}_{-4.8} \quad (-0.1\sigma)$
c_{217}	$1.0009^{+0.0040}_{-0.0040} \quad (+4.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.941^{+0.065}_{-0.074} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.991^{+0.013}_{-0.013}$	z_{drag}	$1060.38^{+0.93}_{-0.94} \quad (-0.5\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.1) \quad (-0.0\sigma)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	r_{drag}	$147.77^{+0.75}_{-0.80} \quad (+0.5\sigma)$	χ_{lowl}^2	$21.45 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$69.1^{+1.8}_{-1.7} \quad (+0.1\sigma)$	k_D	$0.14038^{+0.00087}_{-0.00086} \quad (-0.6\sigma)$	χ_{CamSpec}^2	$11514.4 \quad (\nu: 19.8)$
Ω_Λ	$0.708^{+0.021}_{-0.022} \quad (+0.1\sigma)$	$100\theta_D$	$0.16053^{+0.00054}_{-0.00049} \quad (+0.5\sigma)$	χ_{H073p45}^2	$7.0 \quad (\nu: 2.3) \quad (-0.1\sigma)$
Ω_m	$0.292^{+0.022}_{-0.021} \quad (-0.1\sigma)$	z_{eq}	$3318^{+82}_{-85} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.6) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1395^{+0.0034}_{-0.0036} \quad (-0.3\sigma)$	k_{eq}	$0.01013^{+0.00025}_{-0.00026} \quad (-0.3\sigma)$	χ_{CMB}^2	$11932.6 \quad (\nu: 20.0) \quad (+1495.1\sigma)$
$\Omega_m h^3$	$0.09640^{+0.00090}_{-0.00086} \quad (-0.6\sigma)$	$100\theta_{\text{eq}}$	$0.830^{+0.017}_{-0.016} \quad (+0.2\sigma)$		
σ_8	$0.793^{+0.022}_{-0.022} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.4579^{+0.0086}_{-0.0082} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11947.36; \Delta\bar{\chi}_{\text{eff}}^2 = 9155.26; R - 1 = 0.04484$$

3.22 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00049}_{-0.00051} \quad (-0.5\sigma)$	σ_8	$0.801^{+0.020}_{-0.018} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.823^{+0.017}_{-0.018} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1178^{+0.0041}_{-0.0039} \quad (-0.1\sigma)$	S_8	$0.804^{+0.049}_{-0.046} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4541^{+0.0089}_{-0.0088} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04108^{+0.00087}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.441^{+0.027}_{-0.025} \quad (-0.1\sigma)$	$H(0.15)$	$73.5^{+1.6}_{-1.6} \quad (-0.0\sigma)$
τ	$0.053^{+0.017}_{-0.010} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.594^{+0.025}_{-0.024} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$636^{+16}_{-15} \quad (+0.0\sigma)$
A_{L}	$1.14^{+0.18}_{-0.18} \quad (-0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.970^{+0.035}_{-0.033} \quad (-0.1\sigma)$	$H(0.38)$	$83.4^{+1.2}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.034^{+0.038}_{-0.027} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$100.7^{+3.2}_{-3.3} \quad (+0.1\sigma)$	$D_{\text{M}}(0.38)$	$1518^{+33}_{-31} \quad (+0.0\sigma)$
n_{s}	$0.971^{+0.013}_{-0.014} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.17}_{-0.17} \quad (-0.7\sigma)$	$H(0.51)$	$90.06^{+0.98}_{-0.97} \quad (-0.1\sigma)$
y_{cal}	$1.0000^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	z_{re}	$< 9.01 \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1968^{+39}_{-37} \quad (+0.0\sigma)$
A_{100}^{PS}	$231^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	$2.078^{+0.081}_{-0.055} \quad (-0.2\sigma)$	$H(0.61)$	$95.61^{+0.82}_{-0.79} \quad (-0.2\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.870^{+0.031}_{-0.030} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2291^{+42}_{-40} \quad (+0.0\sigma)$
A_{217}^{PS}	$105^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1213^{+36}_{-35} \quad (-0.3\sigma)$	$H(2.33)$	$235.3^{+2.3}_{-2.2} \quad (-0.3\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5723^{+100}_{-99} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5750^{+36}_{-36} \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	D_{810}	$2528^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.025}_{-0.024} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.367	D_{1420}	$815^{+12}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.017}_{-0.015} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$231.5^{+4.3}_{-4.8} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.020} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s},0.002}$	$0.971^{+0.013}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.014}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_{P}	$0.24545^{+0.00020}_{-0.00021} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.466^{+0.018}_{-0.017} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00020}_{-0.00021} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.013}_{-0.010} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.45}$	$10^5 \text{D}/\text{H}$	$2.561^{+0.096}_{-0.088} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.016}_{-0.015} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	Age/Gyr	$13.769^{+0.081}_{-0.079} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0093} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.41}$	z_*	$1089.56^{+0.93}_{-0.85} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2961^{+0.0058}_{-0.0042} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.89^{+0.85}_{-0.85} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3057^{+0.0060}_{-0.0042} \quad (-0.2\sigma)$
c_{217}	$1.0009^{+0.0040}_{-0.0040} \quad (+4.4\sigma)$	$100\theta_*$	$1.04125^{+0.00085}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{143}	$27^{+8}_{-7} \quad (+0.1\sigma)$
c_{TE}	$0.992^{+0.014}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.914^{+0.079}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	$105.0^{+5.5}_{-5.3} \quad (-0.0\sigma)$
c_{EE}	$0.990^{+0.013}_{-0.012}$	z_{drag}	$1060.10^{+0.97}_{-1.0} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (+0.0\sigma)$
H_0	$68.3^{+1.9}_{-1.9} \quad (-0.0\sigma)$	r_{drag}	$147.51^{+0.82}_{-0.82} \quad (+0.5\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.698^{+0.023}_{-0.026} \quad (+0.1\sigma)$	k_{D}	$0.14053^{+0.00089}_{-0.00088} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.16 \quad (\nu: 0.4) \quad (-0.2\sigma)$
Ω_{m}	$0.302^{+0.026}_{-0.023} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16066^{+0.00059}_{-0.00055} \quad (+0.6\sigma)$	χ_{CamSpec}^2	$11512.3 \quad (\nu: 16.0)$
$\Omega_{\text{m}} h^2$	$0.1410^{+0.0037}_{-0.0036} \quad (-0.2\sigma)$	z_{eq}	$3354^{+90}_{-87} \quad (-0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.09628^{+0.00089}_{-0.00086} \quad (-0.7\sigma)$	k_{eq}	$0.01024^{+0.00027}_{-0.00026} \quad (-0.2\sigma)$	χ_{CMB}^2	$11930.9 \quad (\nu: 16.5) \quad (+1566.6\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11938.62; \Delta\bar{\chi}_{\text{eff}}^2 = 9154.74; R - 1 = 0.01153$$

3.23 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02249^{+0.00044}_{-0.00044} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.37^{+0.88}_{-0.83} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0028}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1519^{+22}_{-22} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04106^{+0.00076}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.971^{+0.027}_{-0.026} \quad (-0.1\sigma)$	$H(0.51)$	$90.01^{+0.72}_{-0.68} \quad (-0.2\sigma)$
τ	$0.053^{+0.017}_{-0.010} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.6^{+2.2}_{-2.2} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1969^{+26}_{-27} \quad (+0.1\sigma)$
A_{L}	$1.14^{+0.17}_{-0.16} \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.17}_{-0.17} \quad (-0.7\sigma)$	$H(0.61)$	$95.57^{+0.60}_{-0.56} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.034^{+0.039}_{-0.026} \quad (-0.2\sigma)$	z_{re}	$< 9.01 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2293^{+28}_{-29} \quad (+0.1\sigma)$
n_{s}	$0.971^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.078^{+0.082}_{-0.053} \quad (-0.2\sigma)$	$H(2.33)$	$235.4^{+1.7}_{-1.7} \quad (-0.3\sigma)$
y_{cal}	$1.0000^{+0.0066}_{-0.0067} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5752^{+27}_{-29} \quad (+0.4\sigma)$
A_{100}^{PS}	$232^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1214^{+33}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{PS}	$36^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+99}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.016}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{PS}	$105^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2528^{+34}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.467^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+12}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.014}_{-0.010} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	D_{2000}	$231.5^{+4.3}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.466^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.366	$n_{\mathrm{s},0.002}$	$0.971^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.013}_{-0.0090} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24544^{+0.00018}_{-0.00018} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.013}_{-0.012} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00018}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0084} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.564^{+0.082}_{-0.079} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2962^{+0.0058}_{-0.0040} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.772^{+0.061}_{-0.064} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3057^{+0.0061}_{-0.0041} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.45}$	z_*	$1089.60^{+0.69}_{-0.69} \quad (+0.4\sigma)$	f_{2000}^{143}	$27^{+8}_{-7} \quad (+0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.29}_{-0.27}$	r_*	$144.85^{+0.64}_{-0.63} \quad (+0.4\sigma)$	f_{2000}^{217}	$105.1^{+5.1}_{-5.1} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.40}$	$100\theta_*$	$1.04124^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+5}_{-5} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0026} \quad (-3.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.911^{+0.061}_{-0.060} \quad (+0.5\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.6) \quad (-0.0\sigma)$
c_{217}	$1.0009^{+0.0040}_{-0.0041} \quad (+4.4\sigma)$	z_{drag}	$1060.08^{+0.92}_{-0.95} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.22 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{TE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.48^{+0.67}_{-0.66} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11511.7 \quad (\nu: 15.1)$
c_{EE}	$0.990^{+0.013}_{-0.012}$	k_{D}	$0.14055^{+0.00085}_{-0.00083} \quad (-0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.031 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$68.2^{+1.3}_{-1.3} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16068^{+0.00055}_{-0.00053} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.82 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{Λ}	$0.696^{+0.016}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3358^{+62}_{-62} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.93 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_{m}	$0.304^{+0.017}_{-0.016} \quad (-0.0\sigma)$	k_{eq}	$0.01025^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0026}_{-0.0026} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.012}_{-0.012} \quad (+0.2\sigma)$	χ_{BAO}^2	$5.78 \quad (\nu: 0.3) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09628^{+0.00088}_{-0.00087} \quad (-0.7\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0062}_{-0.0060} \quad (+0.2\sigma)$	χ_{CMB}^2	$11930.3 \quad (\nu: 15.8) \quad (+1608.5\sigma)$
σ_8	$0.802^{+0.018}_{-0.015} \quad (-0.1\sigma)$	$H(0.15)$	$73.4^{+1.1}_{-1.1} \quad (-0.1\sigma)$		
S_8	$0.807^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$636^{+11}_{-11} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11943.89; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9154.76; R - 1 = 0.01823$$

3.24 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02268^{+0.00042}_{-0.00047} \quad (-0.4\sigma)$	S_8	$0.785^{+0.044}_{-0.040} \quad (-0.1\sigma)$	$H(0.15)$	$74.2^{+1.5}_{-1.5} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1161^{+0.0037}_{-0.0035} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.430^{+0.024}_{-0.022} \quad (-0.1\sigma)$	$D_M(0.15)$	$629^{+14}_{-14} \quad (-0.0\sigma)$
$100\theta_{MC}$	$1.04132^{+0.00083}_{-0.00083} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.585^{+0.023}_{-0.021} \quad (-0.1\sigma)$	$H(0.38)$	$84.0^{+1.1}_{-1.1} \quad (-0.0\sigma)$
τ	$0.054^{+0.018}_{-0.011} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.957^{+0.032}_{-0.030} \quad (-0.1\sigma)$	$D_M(0.38)$	$1504^{+29}_{-28} \quad (-0.0\sigma)$
A_L	$1.19^{+0.22}_{-0.18} \quad (-0.4\sigma)$	$r_{drag} h$	$102.2^{+2.9}_{-3.0} \quad (+0.1\sigma)$	$H(0.51)$	$90.49^{+0.87}_{-0.89} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.032^{+0.039}_{-0.027} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.58^{+0.17}_{-0.17} \quad (-0.6\sigma)$	$D_M(0.51)$	$1951^{+34}_{-33} \quad (-0.0\sigma)$
n_s	$0.976^{+0.012}_{-0.013} \quad (+0.2\sigma)$	z_{re}	$< 9.16 \quad (+0.1\sigma)$	$H(0.61)$	$95.95^{+0.70}_{-0.73} \quad (-0.1\sigma)$
y_{cal}	$1.0000^{+0.0061}_{-0.0064} \quad (+0.0\sigma)$	$10^9 A_s$	$2.074^{+0.082}_{-0.056} \quad (-0.1\sigma)$	$D_M(0.61)$	$2273^{+37}_{-35} \quad (-0.0\sigma)$
A_{100}^{PS}	$228^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.863^{+0.031}_{-0.029} \quad (-0.3\sigma)$	$H(2.33)$	$234.4^{+2.2}_{-1.9} \quad (-0.3\sigma)$
A_{143}^{PS}	$33^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1204^{+35}_{-37} \quad (-0.3\sigma)$	$D_M(2.33)$	$5736^{+33}_{-31} \quad (+0.2\sigma)$
A_{217}^{PS}	$105^{+30}_{-40} \quad (-1.1\sigma)$	D_{220}	$5733^{+100}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.436^{+0.023}_{-0.021} \quad (-0.1\sigma)$
A_{217}^{CIB}	$36^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2526^{+34}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.737^{+0.017}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.9\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.458^{+0.019}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	> 0.362	D_{2000}	$232.4^{+3.7}_{-4.4} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.655^{+0.014}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	$n_{s,0.002}$	$0.976^{+0.012}_{-0.013} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.459^{+0.017}_{-0.015} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P	$0.24551^{+0.00019}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.014}_{-0.010} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.24684^{+0.00019}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.54}$	$10^5 D/H$	$2.530^{+0.086}_{-0.075} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.0093} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.94^{+0.47}_{-0.49}$	Age/Gyr	$13.737^{+0.074}_{-0.066} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2958^{+0.0061}_{-0.0045} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.20^{+0.82}_{-0.69} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3058^{+0.0061}_{-0.0045} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	$1.01^{+0.41}_{-0.42}$	r_*	$145.20^{+0.71}_{-0.80} \quad (+0.4\sigma)$	f_{2000}^{143}	$26^{+8}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	$100\theta_*$	$1.04147^{+0.00080}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{217}	$104.2^{+5.3}_{-4.8} \quad (-0.1\sigma)$
c_{217}	$1.0008^{+0.0039}_{-0.0040} \quad (+4.4\sigma)$	$D_M(z_*)/Gpc$	$13.942^{+0.065}_{-0.073} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.991^{+0.013}_{-0.013}$	z_{drag}	$1060.37^{+0.90}_{-0.93} \quad (-0.5\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.7) \quad (+0.1\sigma)$
c_{EE}	$0.990^{+0.012}_{-0.013}$	r_{drag}	$147.78^{+0.74}_{-0.79} \quad (+0.5\sigma)$	χ_{lowl}^2	$21.48 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$69.1^{+1.7}_{-1.7} \quad (+0.0\sigma)$	k_D	$0.14037^{+0.00086}_{-0.00085} \quad (-0.6\sigma)$	$\chi_{CamSpec}^2$	$11514.2 \quad (\nu: 17.4)$
Ω_Λ	$0.708^{+0.020}_{-0.022} \quad (+0.1\sigma)$	$100\theta_D$	$0.16053^{+0.00054}_{-0.00047} \quad (+0.5\sigma)$	$\chi_{H073p45}^2$	$6.9 \quad (\nu: 2.2) \quad (-0.0\sigma)$
Ω_m	$0.292^{+0.022}_{-0.020} \quad (-0.1\sigma)$	z_{eq}	$3317^{+82}_{-76} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1395^{+0.0034}_{-0.0032} \quad (-0.2\sigma)$	k_{eq}	$0.01012^{+0.00025}_{-0.00023} \quad (-0.2\sigma)$	χ_{CMB}^2	$11932.1 \quad (\nu: 17.5) \quad (+1512.6\sigma)$
$\Omega_m h^3$	$0.09640^{+0.00087}_{-0.00086} \quad (-0.6\sigma)$	$100\theta_{eq}$	$0.830^{+0.016}_{-0.016} \quad (+0.2\sigma)$		
σ_8	$0.795^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	$0.4579^{+0.0080}_{-0.0082} \quad (+0.2\sigma)$		

$\bar{\chi}_{eff}^2 = 11946.84$; $\Delta\bar{\chi}_{eff}^2 = 9155.07$; $R - 1 = 0.04629$

3.25 base_Alens_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02219^{+0.00097}_{-0.00093}$	$r_{\text{drag}} h$	99.6	$99.7^{+5.4}_{-5.3}$	$100\theta_{\text{s,eq}}$	0.4514	$0.451^{+0.014}_{-0.014}$
$\Omega_c h^2$	0.1193	$0.1193^{+0.0069}_{-0.0066}$	$\langle d^2 \rangle^{1/2}$	2.09	$2.09^{+0.63}_{-0.89}$	$H(0.15)$	72.78	$72.8^{+2.8}_{-2.7}$
$100\theta_{\text{MC}}$	1.04120	$1.0412^{+0.0014}_{-0.0013}$	z_{re}	7.14	$7.0^{+2.1}_{-3.4}$	$D_{\text{M}}(0.15)$	642.3	642^{+28}_{-26}
τ	0.0487	$0.048^{+0.022}_{-0.028}$	$10^9 A_{\text{s}}$	2.022	$2.02^{+0.12}_{-0.13}$	$H(0.38)$	82.89	$83.0^{+2.1}_{-2.0}$
A_{L}	0.74	$0.76^{+0.60}_{-0.53}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.834	$1.835^{+0.062}_{-0.058}$	$D_{\text{M}}(0.38)$	1532	1530^{+56}_{-54}
$\ln(10^{10} A_{\text{s}})$	3.007	$3.006^{+0.058}_{-0.064}$	D_{40}	1245	1242^{+100}_{-93}	$H(0.51)$	89.61	$89.7^{+1.7}_{-1.6}$
n_{s}	0.947	$0.949^{+0.052}_{-0.051}$	D_{220}	5679	5677^{+160}_{-150}	$D_{\text{M}}(0.51)$	1984	1983^{+65}_{-64}
A_{100}^{dustTE}	0.111	$0.115^{+0.098}_{-0.095}$	D_{810}	2473	2475^{+100}_{-93}	$H(0.61)$	95.23	$95.3^{+1.4}_{-1.3}$
$A_{100 \times 143}^{\text{dustTE}}$	0.137	$0.137^{+0.075}_{-0.076}$	D_{1420}	789.8	791^{+50}_{-45}	$D_{\text{M}}(0.61)$	2309	2307^{+70}_{-69}
$A_{100 \times 217}^{\text{dustTE}}$	0.474	$0.48^{+0.22}_{-0.22}$	D_{2000}	218.8	220^{+23}_{-21}	$H(2.33)$	235.92	$236.0^{+3.9}_{-3.7}$
A_{143}^{dustTE}	0.228	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	0.947	$0.949^{+0.052}_{-0.051}$	$D_{\text{M}}(2.33)$	5768	5765^{+59}_{-65}
$A_{143 \times 217}^{\text{dustTE}}$	0.654	$0.66^{+0.20}_{-0.21}$	Y_{P}	0.245303	$0.24531^{+0.00042}_{-0.00041}$	$f\sigma_8(0.15)$	0.4455	$0.445^{+0.036}_{-0.034}$
A_{217}^{dustTE}	2.03	$2.03^{+0.70}_{-0.69}$	$Y_{\text{P}}^{\text{BBN}}$	0.246630	$0.24664^{+0.00042}_{-0.00041}$	$\sigma_8(0.15)$	0.7297	$0.730^{+0.027}_{-0.027}$
c_{100}	1.00015	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \text{D}/\text{H}$	2.628	$2.62^{+0.18}_{-0.18}$	$f\sigma_8(0.38)$	0.4633	$0.463^{+0.028}_{-0.027}$
c_{217}	0.99802	$0.9980^{+0.0017}_{-0.0017}$	Age/Gyr	13.809	$13.80^{+0.13}_{-0.14}$	$\sigma_8(0.38)$	0.6468	$0.647^{+0.024}_{-0.024}$
y_{cal}	1.0002	$1.0001^{+0.0065}_{-0.0064}$	z_*	1090.15	$1090.1^{+1.7}_{-1.6}$	$f\sigma_8(0.51)$	0.4619	$0.462^{+0.024}_{-0.024}$
H_0	67.50	$67.6^{+3.2}_{-3.2}$	r_*	144.78	$144.8^{+1.4}_{-1.4}$	$\sigma_8(0.51)$	0.6052	$0.605^{+0.023}_{-0.022}$
Ω_{Λ}	0.6881	$0.688^{+0.039}_{-0.045}$	$100\theta_*$	1.04140	$1.0414^{+0.0014}_{-0.0013}$	$f\sigma_8(0.61)$	0.4570	$0.457^{+0.021}_{-0.021}$
Ω_{m}	0.3119	$0.312^{+0.045}_{-0.039}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.902	$13.90^{+0.13}_{-0.13}$	$\sigma_8(0.61)$	0.5759	$0.576^{+0.023}_{-0.022}$
$\Omega_{\text{m}} h^2$	0.1421	$0.1421^{+0.0064}_{-0.0060}$	z_{drag}	1059.36	$1059.5^{+2.0}_{-1.9}$	$f\sigma_8(2.33)$	0.2903	$0.290^{+0.012}_{-0.011}$
$\Omega_{\text{m}} h^3$	0.09593	$0.0960^{+0.0016}_{-0.0015}$	r_{drag}	147.52	$147.5^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	0.2993	$0.299^{+0.013}_{-0.012}$
σ_8	0.7897	$0.790^{+0.030}_{-0.030}$	k_{D}	0.14024	$0.1403^{+0.0015}_{-0.0015}$	χ_{simall}^2	395.6	$396.9 (\nu: 1.4)$
S_8	0.805	$0.805^{+0.072}_{-0.067}$	$100\theta_{\text{D}}$	0.16114	$0.1611^{+0.0011}_{-0.0011}$	χ_{plikTE}^2	851.4	$859.6 (\nu: 8.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4411	$0.441^{+0.039}_{-0.037}$	z_{eq}	3381	3381^{+150}_{-140}	χ_{prior}^2	0.5	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5902	$0.590^{+0.034}_{-0.033}$	k_{eq}	0.010318	$0.01032^{+0.00046}_{-0.00044}$	χ_{CMB}^2	1247.1	$1256.5 (\nu: 9.5)$
$\sigma_8/h^{0.5}$	0.9612	$0.961^{+0.046}_{-0.045}$	$100\theta_{\text{eq}}$	0.8167	$0.817^{+0.029}_{-0.028}$			

Best-fit $\chi_{\text{eff}}^2 = 1247.61$; $\bar{\chi}_{\text{eff}}^2 = 1263.86$; $R - 1 = 0.00958$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.64 plik_rd12_HM_v22_TE: 851.43

3.26 base_Alens_plikHM_TE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02226^{+0.00076}_{-0.00073}$	$\langle d^2 \rangle^{1/2}$	2.14	$2.13^{+0.57}_{-0.75}$	$D_M(0.15)$	639.0	639^{+14}_{-14}
$\Omega_c h^2$	0.11854	$0.1186^{+0.0033}_{-0.0033}$	z_{re}	7.17	$7.1^{+2.1}_{-3.7}$	$H(0.38)$	83.14	$83.2^{+1.1}_{-1.1}$
$100\theta_{\text{MC}}$	1.04129	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s$	2.026	$2.02^{+0.12}_{-0.12}$	$D_M(0.38)$	1525.0	1525^{+28}_{-28}
τ	0.0493	< 0.0671	$10^9 A_s e^{-2\tau}$	1.836	$1.836^{+0.060}_{-0.057}$	$H(0.51)$	89.81	$89.83^{+0.95}_{-0.90}$
A_L	0.787	$0.79^{+0.48}_{-0.47}$	D_{40}	1236	1234^{+79}_{-76}	$D_M(0.51)$	1976.2	1976^{+33}_{-33}
$\ln(10^{10} A_s)$	3.009	$3.007^{+0.057}_{-0.063}$	D_{220}	5684	5681^{+150}_{-150}	$H(0.61)$	95.39	$95.41^{+0.83}_{-0.79}$
n_s	0.9524	$0.953^{+0.040}_{-0.039}$	D_{810}	2481	2480^{+90}_{-86}	$D_M(0.61)$	2300.2	2300^{+36}_{-36}
y_{cal}	1.0003	$1.0001^{+0.0064}_{-0.0065}$	D_{1420}	794.0	794^{+44}_{-40}	$H(2.33)$	235.50	$235.5^{+2.1}_{-2.0}$
A_{100}^{dustTE}	0.115	$0.115^{+0.099}_{-0.095}$	D_{2000}	220.8	221^{+19}_{-17}	$D_M(2.33)$	5761.0	5760^{+40}_{-41}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.137^{+0.075}_{-0.078}$	$n_{s,0.002}$	0.9524	$0.953^{+0.040}_{-0.039}$	$f\sigma_8(0.15)$	0.4421	$0.442^{+0.021}_{-0.022}$
$A_{100 \times 217}^{\text{dustTE}}$	0.476	$0.48^{+0.22}_{-0.22}$	Y_P	0.245343	$0.24534^{+0.00032}_{-0.00033}$	$\sigma_8(0.15)$	0.7298	$0.729^{+0.027}_{-0.027}$
A_{143}^{dustTE}	0.223	$0.22^{+0.13}_{-0.14}$	Y_P^{BBN}	0.246670	$0.24667^{+0.00032}_{-0.00034}$	$f\sigma_8(0.38)$	0.4609	$0.461^{+0.019}_{-0.021}$
$A_{143 \times 217}^{\text{dustTE}}$	0.651	$0.66^{+0.20}_{-0.21}$	10^5D/H	2.610	$2.61^{+0.14}_{-0.14}$	$\sigma_8(0.38)$	0.6474	$0.647^{+0.024}_{-0.023}$
A_{217}^{dustTE}	2.02	$2.03^{+0.72}_{-0.67}$	Age/Gyr	13.793	$13.790^{+0.091}_{-0.093}$	$f\sigma_8(0.51)$	0.4601	$0.460^{+0.018}_{-0.019}$
c_{100}	1.00015	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.95	$1089.9^{+1.1}_{-1.1}$	$\sigma_8(0.51)$	0.6060	$0.606^{+0.023}_{-0.022}$
c_{217}	0.99802	$0.9980^{+0.0017}_{-0.0016}$	r_*	144.91	$144.89^{+0.84}_{-0.86}$	$f\sigma_8(0.61)$	0.4556	$0.455^{+0.018}_{-0.018}$
H_0	67.88	$67.9^{+1.6}_{-1.6}$	$100\theta_*$	1.04148	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(0.61)$	0.5768	$0.576^{+0.022}_{-0.020}$
Ω_Λ	0.6931	$0.693^{+0.020}_{-0.021}$	$D_M(z_*)/\text{Gpc}$	13.914	$13.911^{+0.081}_{-0.086}$	$f\sigma_8(2.33)$	0.2910	$0.291^{+0.011}_{-0.010}$
Ω_m	0.3069	$0.307^{+0.021}_{-0.020}$	z_{drag}	1059.55	$1059.6^{+1.7}_{-1.6}$	$\sigma_8(2.33)$	0.3002	$0.300^{+0.012}_{-0.011}$
$\Omega_m h^2$	0.14143	$0.1415^{+0.0031}_{-0.0031}$	r_{drag}	147.62	$147.60^{+0.96}_{-1.0}$	χ_{small}^2	395.6	$396.8 (\nu: 1.4)$
$\Omega_m h^3$	0.09601	$0.0961^{+0.0015}_{-0.0014}$	k_D	0.14021	$0.1402^{+0.0014}_{-0.0014}$	χ_{plikTE}^2	851.6	$858.9 (\nu: 7.1)$
σ_8	0.7893	$0.789^{+0.029}_{-0.030}$	$100\theta_D$	0.16104	$0.16103^{+0.00099}_{-0.00099}$	$\chi_{6\text{DF}}^2$	0.003	$0.046 (\nu: 0.0)$
S_8	0.7983	$0.798^{+0.041}_{-0.043}$	z_{eq}	3364	3365^{+75}_{-75}	χ_{MGS}^2	1.54	$1.62 (\nu: 0.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4372	$0.437^{+0.022}_{-0.023}$	k_{eq}	0.010268	$0.01027^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	3.63	$4.3 (\nu: 0.8)$
$\sigma_8 \Omega_m^{0.25}$	0.5874	$0.587^{+0.024}_{-0.026}$	$100\theta_{\text{eq}}$	0.8201	$0.820^{+0.014}_{-0.014}$	χ_{prior}^2	0.5	$7.4 (\nu: 6.7)$
$\sigma_8/h^{0.5}$	0.9579	$0.957^{+0.036}_{-0.038}$	$100\theta_{s,\text{eq}}$	0.4530	$0.4530^{+0.0073}_{-0.0071}$	χ_{BAO}^2	5.18	$6.0 (\nu: 0.6)$
$r_{\text{drag}} h$	100.21	$100.2^{+2.6}_{-2.6}$	$H(0.15)$	73.11	$73.1^{+1.4}_{-1.4}$	χ_{CMB}^2	1247.3	$1255.8 (\nu: 8.6)$

Best-fit $\chi_{\text{eff}}^2 = 1252.89$; $\bar{\chi}_{\text{eff}}^2 = 1269.15$; $R - 1 = 0.01278$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.63 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.63 plik_rd12_HM_v22_TE: 851.63

3.27 base_Alens_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02220^{+0.00098}_{-0.00092}$	$r_{\mathrm{drag}}h$	$99.7^{+5.4}_{-5.3}$	$100\theta_{\mathrm{s,eq}}$	$0.452^{+0.015}_{-0.014}$
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0069}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.10^{+0.64}_{-0.88}$	$H(0.15)$	$72.9^{+2.8}_{-2.7}$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0014}_{-0.0013}$	z_{re}	< 9.03	$D_{\mathrm{M}}(0.15)$	641^{+28}_{-26}
τ	$0.052^{+0.017}_{-0.011}$	$10^9 A_{\mathrm{s}}$	$2.04^{+0.11}_{-0.086}$	$H(0.38)$	$83.0^{+2.1}_{-2.0}$
A_{L}	$0.76^{+0.60}_{-0.53}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.836^{+0.062}_{-0.058}$	$D_{\mathrm{M}}(0.38)$	1530^{+56}_{-54}
$\ln(10^{10} A_{\mathrm{s}})$	$3.014^{+0.054}_{-0.043}$	D_{40}	1241^{+100}_{-92}	$H(0.51)$	$89.7^{+1.7}_{-1.6}$
n_{s}	$0.950^{+0.052}_{-0.051}$	D_{220}	5677^{+160}_{-150}	$D_{\mathrm{M}}(0.51)$	1981^{+65}_{-64}
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.097}_{-0.095}$	D_{810}	2477^{+100}_{-94}	$H(0.61)$	$95.3^{+1.4}_{-1.3}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.137^{+0.075}_{-0.077}$	D_{1420}	792^{+49}_{-45}	$D_{\mathrm{M}}(0.61)$	2306^{+70}_{-70}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.22}$	D_{2000}	220^{+23}_{-20}	$H(2.33)$	$235.9^{+3.9}_{-3.7}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$n_{\mathrm{s},0.002}$	$0.950^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(2.33)$	5764^{+59}_{-65}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.22}$	Y_{P}	$0.24532^{+0.00042}_{-0.00041}$	$f\sigma_8(0.15)$	$0.446^{+0.035}_{-0.034}$
$A_{217}^{\mathrm{dustTE}}$	$2.03^{+0.70}_{-0.68}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00042}_{-0.00041}$	$\sigma_8(0.15)$	$0.732^{+0.026}_{-0.022}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.18}_{-0.18}$	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.027}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.80^{+0.13}_{-0.14}$	$\sigma_8(0.38)$	$0.649^{+0.023}_{-0.020}$
y_{cal}	$1.0001^{+0.0065}_{-0.0064}$	z_*	$1090.1^{+1.7}_{-1.6}$	$f\sigma_8(0.51)$	$0.463^{+0.023}_{-0.023}$
H_0	$67.6^{+3.2}_{-3.2}$	r_*	$144.8^{+1.4}_{-1.4}$	$\sigma_8(0.51)$	$0.608^{+0.022}_{-0.019}$
Ω_{Λ}	$0.689^{+0.039}_{-0.046}$	$100\theta_*$	$1.0415^{+0.0014}_{-0.0013}$	$f\sigma_8(0.61)$	$0.458^{+0.020}_{-0.020}$
Ω_{m}	$0.311^{+0.046}_{-0.039}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.13}_{-0.13}$	$\sigma_8(0.61)$	$0.578^{+0.021}_{-0.018}$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0064}_{-0.0060}$	z_{drag}	$1059.5^{+2.0}_{-1.9}$	$f\sigma_8(2.33)$	$0.292^{+0.011}_{-0.0093}$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0016}_{-0.0014}$	r_{drag}	$147.5^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	$0.301^{+0.013}_{-0.010}$
σ_8	$0.793^{+0.028}_{-0.026}$	k_{D}	$0.1403^{+0.0015}_{-0.0015}$	χ_{simall}^2	$396.4 (\nu: 0.8)$
S_8	$0.807^{+0.071}_{-0.066}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0011}_{-0.0011}$	χ_{plikTE}^2	$859.6 (\nu: 8.3)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.039}_{-0.036}$	z_{eq}	3379^{+150}_{-140}	χ_{prior}^2	$7.4 (\nu: 6.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.033}_{-0.032}$	k_{eq}	$0.01031^{+0.00046}_{-0.00044}$	χ_{CMB}^2	$1256.1 (\nu: 9.1)$
$\sigma_8/h^{0.5}$	$0.964^{+0.045}_{-0.044}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.029}_{-0.028}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1263.45$; $R - 1 = 0.01017$

3.28 base_Alens_plikHM_TE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02226^{+0.00077}_{-0.00072}$	$\langle d^2 \rangle^{1/2}$	$2.13^{+0.57}_{-0.76}$	$D_M(0.15)$	639^{+14}_{-14}
$\Omega_c h^2$	$0.1186^{+0.0033}_{-0.0033}$	z_{re}	< 9.01	$H(0.38)$	$83.2^{+1.1}_{-1.1}$
$100\theta_{\text{MC}}$	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s$	$2.04^{+0.11}_{-0.082}$	$D_M(0.38)$	1524^{+28}_{-28}
τ	$0.052^{+0.017}_{-0.011}$	$10^9 A_s e^{-2\tau}$	$1.836^{+0.061}_{-0.058}$	$H(0.51)$	$89.83^{+0.94}_{-0.90}$
A_L	$0.79^{+0.49}_{-0.47}$	D_{40}	1235^{+78}_{-76}	$D_M(0.51)$	1976^{+33}_{-34}
$\ln(10^{10} A_s)$	$3.014^{+0.051}_{-0.041}$	D_{220}	5680^{+150}_{-150}	$H(0.61)$	$95.41^{+0.82}_{-0.79}$
n_s	$0.953^{+0.040}_{-0.039}$	D_{810}	2481^{+91}_{-87}	$D_M(0.61)$	2299^{+36}_{-36}
y_{cal}	$1.0001^{+0.0064}_{-0.0065}$	D_{1420}	794^{+45}_{-40}	$H(2.33)$	$235.5^{+2.1}_{-2.1}$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.095}$	D_{2000}	221^{+19}_{-18}	$D_M(2.33)$	5760^{+40}_{-41}
$A_{100 \times 143}^{\text{dustTE}}$	$0.137^{+0.075}_{-0.081}$	$n_{s,0.002}$	$0.953^{+0.040}_{-0.039}$	$f\sigma_8(0.15)$	$0.443^{+0.021}_{-0.020}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	Y_P	$0.24534^{+0.00032}_{-0.00033}$	$\sigma_8(0.15)$	$0.732^{+0.025}_{-0.021}$
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.15}$	Y_P^{BBN}	$0.24667^{+0.00032}_{-0.00033}$	$f\sigma_8(0.38)$	$0.462^{+0.019}_{-0.017}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$10^5 D/H$	$2.61^{+0.14}_{-0.14}$	$\sigma_8(0.38)$	$0.649^{+0.022}_{-0.019}$
A_{217}^{dustTE}	$2.03^{+0.71}_{-0.68}$	Age/Gyr	$13.790^{+0.091}_{-0.093}$	$f\sigma_8(0.51)$	$0.461^{+0.017}_{-0.016}$
c_{100}	$1.0002^{+0.0018}_{-0.0019}$	z_*	$1089.9^{+1.1}_{-1.1}$	$\sigma_8(0.51)$	$0.608^{+0.021}_{-0.018}$
c_{217}	$0.9980^{+0.0017}_{-0.0016}$	r_*	$144.89^{+0.85}_{-0.86}$	$f\sigma_8(0.61)$	$0.457^{+0.017}_{-0.015}$
H_0	$67.9^{+1.6}_{-1.6}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0012}$	$\sigma_8(0.61)$	$0.579^{+0.020}_{-0.017}$
Ω_Λ	$0.693^{+0.020}_{-0.021}$	$D_M(z_*)/\text{Gpc}$	$13.911^{+0.082}_{-0.087}$	$f\sigma_8(2.33)$	$0.292^{+0.010}_{-0.0086}$
Ω_m	$0.307^{+0.021}_{-0.020}$	z_{drag}	$1059.6^{+1.7}_{-1.6}$	$\sigma_8(2.33)$	$0.301^{+0.011}_{-0.0095}$
$\Omega_m h^2$	$0.1415^{+0.0032}_{-0.0032}$	r_{drag}	$147.60^{+0.99}_{-0.99}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
$\Omega_m h^3$	$0.0961^{+0.0015}_{-0.0014}$	k_D	$0.1402^{+0.0014}_{-0.0014}$	χ_{plikTE}^2	$859.0 (\nu: 7.1)$
σ_8	$0.792^{+0.027}_{-0.023}$	$100\theta_D$	$0.16103^{+0.00098}_{-0.0010}$	$\chi_{6\text{DF}}^2$	$0.045 (\nu: 0.0)$
S_8	$0.800^{+0.040}_{-0.038}$	z_{eq}	3365^{+76}_{-76}	χ_{MGS}^2	$1.63 (\nu: 0.2)$
$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.022}_{-0.021}$	k_{eq}	$0.01027^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	$4.3 (\nu: 0.8)$
$\sigma_8 \Omega_m^{0.25}$	$0.589^{+0.023}_{-0.021}$	$100\theta_{\text{eq}}$	$0.820^{+0.015}_{-0.014}$	χ_{prior}^2	$7.3 (\nu: 6.3)$
$\sigma_8/h^{0.5}$	$0.961^{+0.034}_{-0.031}$	$100\theta_{s,\text{eq}}$	$0.4530^{+0.0075}_{-0.0072}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$r_{\text{drag}} h$	$100.2^{+2.7}_{-2.6}$	$H(0.15)$	$73.1^{+1.4}_{-1.4}$	χ_{CMB}^2	$1255.4 (\nu: 7.9)$

$\bar{\chi}_{\text{eff}}^2 = 1268.67; R - 1 = 0.01556$

3.29 base_Alens_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02434	$0.0245^{+0.0034}_{-0.0032}$	D_{40}	1225	1222^{+82}_{-79}	$D_M(0.15)$	614	612^{+65}_{-55}
$\Omega_c h^2$	0.1140	$0.114^{+0.014}_{-0.012}$	D_{220}	6006	6026^{+510}_{-510}	$H(0.38)$	85.4	$85.7^{+5.6}_{-5.2}$
$100\theta_{MC}$	1.04001	$1.0401^{+0.0023}_{-0.0023}$	D_{810}	2590	2595^{+97}_{-100}	$D_M(0.38)$	1473	1467^{+130}_{-120}
τ	0.0541	$0.053^{+0.024}_{-0.027}$	D_{1420}	844.3	847^{+47}_{-48}	$H(0.51)$	91.75	$92.1^{+4.9}_{-4.3}$
A_L	1.31	$1.32^{+0.72}_{-0.63}$	D_{2000}	244.7	246^{+20}_{-20}	$D_M(0.51)$	1913	1907^{+160}_{-140}
$\ln(10^{10} A_s)$	3.055	$3.054^{+0.060}_{-0.063}$	$n_{s,0.002}$	0.9858	$0.989^{+0.042}_{-0.040}$	$H(0.61)$	97.13	$97.4^{+4.4}_{-3.7}$
n_s	0.9858	$0.989^{+0.042}_{-0.040}$	Y_P	0.24615	$0.2462^{+0.0013}_{-0.0013}$	$D_M(0.61)$	2231	2223^{+170}_{-160}
y_{cal}	0.9998	$0.9999^{+0.0064}_{-0.0064}$	Y_P^{BBN}	0.24748	$0.2476^{+0.0013}_{-0.0013}$	$H(2.33)$	234.5	$234.4^{+6.1}_{-4.8}$
H_0	70.9	$71.3^{+7.4}_{-7.6}$	$10^5 D/H$	2.26	$2.24^{+0.56}_{-0.45}$	$D_M(2.33)$	5676	5664^{+180}_{-190}
Ω_Λ	0.723	$0.725^{+0.065}_{-0.093}$	Age/Gyr	13.599	$13.58^{+0.40}_{-0.42}$	$f\sigma_8(0.15)$	0.423	$0.420^{+0.083}_{-0.071}$
Ω_m	0.277	$0.275^{+0.093}_{-0.065}$	z_*	1087.14	$1087.0^{+4.9}_{-3.9}$	$\sigma_8(0.15)$	0.7346	$0.732^{+0.037}_{-0.042}$
$\Omega_m h^2$	0.1390	$0.139^{+0.011}_{-0.0088}$	r_*	144.49	$144.5^{+1.7}_{-1.7}$	$f\sigma_8(0.38)$	0.449	$0.446^{+0.064}_{-0.061}$
$\Omega_m h^3$	0.09847	$0.0988^{+0.0051}_{-0.0045}$	$100\theta_*$	1.03999	$1.0400^{+0.0022}_{-0.0022}$	$\sigma_8(0.38)$	0.6551	$0.653^{+0.027}_{-0.031}$
σ_8	0.7912	$0.788^{+0.048}_{-0.051}$	$D_M(z_*)/\text{Gpc}$	13.893	$13.89^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	0.451	$0.448^{+0.053}_{-0.054}$
S_8	0.760	$0.75^{+0.17}_{-0.13}$	z_{drag}	1063.9	$1064.3^{+6.5}_{-6.5}$	$\sigma_8(0.51)$	0.6147	$0.613^{+0.023}_{-0.026}$
$\sigma_8 \Omega_m^{0.5}$	0.416	$0.413^{+0.091}_{-0.074}$	r_{drag}	146.53	$146.5^{+1.9}_{-1.8}$	$f\sigma_8(0.61)$	0.4493	$0.447^{+0.046}_{-0.048}$
$\sigma_8 \Omega_m^{0.25}$	0.574	$0.571^{+0.078}_{-0.070}$	k_D	0.14280	$0.1429^{+0.0033}_{-0.0034}$	$\sigma_8(0.61)$	0.5859	$0.584^{+0.021}_{-0.023}$
$\sigma_8/h^{0.5}$	0.940	$0.93^{+0.11}_{-0.10}$	$100\theta_D$	0.15836	$0.1583^{+0.0037}_{-0.0029}$	$f\sigma_8(2.33)$	0.2969	$0.2963^{+0.0095}_{-0.0099}$
$r_{drag} h$	103.8	104^{+11}_{-11}	z_{eq}	3305	3300^{+260}_{-210}	$\sigma_8(2.33)$	0.3078	$0.3074^{+0.0098}_{-0.0099}$
$\langle d^2 \rangle^{1/2}$	2.68	$2.67^{+0.57}_{-0.68}$	k_{eq}	0.01009	$0.01007^{+0.00079}_{-0.00064}$	χ_{simall}^2	395.57	$396.7 (\nu: 1.2)$
z_{re}	7.16	$7.0^{+2.0}_{-2.8}$	$100\theta_{eq}$	0.836	$0.838^{+0.051}_{-0.055}$	χ_{plikEE}^2	737.6	$743.5 (\nu: 5.9)$
$10^9 A_s$	2.123	$2.12^{+0.13}_{-0.13}$	$100\theta_{s,eq}$	0.4596	$0.461^{+0.024}_{-0.026}$	χ_{prior}^2	0.00	$0.99 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.905	$1.907^{+0.064}_{-0.063}$	$H(0.15)$	75.8	$76.2^{+6.8}_{-6.7}$	χ_{CMB}^2	1133.1	$1140.3 (\nu: 7.1)$

Best-fit $\chi_{eff}^2 = 1133.14$; $\bar{\chi}_{eff}^2 = 1141.29$; $R - 1 = 0.00947$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.57 plik_rd12_HM_v22_EE: 737.57

3.30 base_Alens_plikHM_EE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02352	$0.0235^{+0.0016}_{-0.0018}$	D_{810}	2577	2577^{+84}_{-85}	$D_M(0.51)$	1954.5	1954^{+48}_{-47}
$\Omega_c h^2$	0.11747	$0.1174^{+0.0039}_{-0.0038}$	D_{1420}	836.5	836^{+37}_{-37}	$H(0.61)$	96.10	$96.1^{+1.5}_{-1.4}$
$100\theta_{MC}$	1.03980	$1.0398^{+0.0021}_{-0.0021}$	D_{2000}	240.9	241^{+15}_{-14}	$D_M(0.61)$	2276	2275^{+53}_{-52}
τ	0.0521	$0.051^{+0.021}_{-0.026}$	$n_{s,0.002}$	0.9786	$0.978^{+0.028}_{-0.025}$	$H(2.33)$	235.93	$235.9^{+2.4}_{-2.6}$
A_L	1.23	$1.24^{+0.61}_{-0.56}$	Y_P	0.24587	$0.24587^{+0.00066}_{-0.00076}$	$D_M(2.33)$	5723	5722^{+75}_{-76}
$\ln(10^{10} A_s)$	3.051	$3.049^{+0.053}_{-0.059}$	Y_P^{BBN}	0.24720	$0.24720^{+0.00066}_{-0.00077}$	$f\sigma_8(0.15)$	0.4449	$0.444^{+0.026}_{-0.026}$
n_s	0.9786	$0.978^{+0.028}_{-0.025}$	$10^5 D/H$	2.386	$2.38^{+0.32}_{-0.25}$	$\sigma_8(0.15)$	0.7438	$0.743^{+0.025}_{-0.024}$
y_{cal}	0.9998	$0.9999^{+0.0068}_{-0.0066}$	Age/Gyr	13.704	$13.70^{+0.17}_{-0.17}$	$f\sigma_8(0.38)$	0.4659	$0.465^{+0.022}_{-0.022}$
H_0	68.83	$68.9^{+2.2}_{-2.2}$	z_*	1088.33	$1088.3^{+2.3}_{-2.0}$	$\sigma_8(0.38)$	0.6607	$0.660^{+0.022}_{-0.021}$
Ω_Λ	0.7011	$0.701^{+0.022}_{-0.024}$	r_*	144.21	$144.2^{+1.3}_{-1.3}$	$f\sigma_8(0.51)$	0.4660	$0.465^{+0.020}_{-0.020}$
Ω_m	0.2989	$0.299^{+0.024}_{-0.022}$	$100\theta_*$	1.03988	$1.0398^{+0.0022}_{-0.0021}$	$\sigma_8(0.51)$	0.6189	$0.618^{+0.021}_{-0.020}$
$\Omega_m h^2$	0.14163	$0.1416^{+0.0036}_{-0.0036}$	$D_M(z_*)/\text{Gpc}$	13.868	$13.87^{+0.13}_{-0.13}$	$f\sigma_8(0.61)$	0.4620	$0.461^{+0.020}_{-0.018}$
$\Omega_m h^3$	0.09748	$0.0975^{+0.0031}_{-0.0029}$	z_{drag}	1062.37	$1062.4^{+3.5}_{-4.0}$	$\sigma_8(0.61)$	0.5893	$0.588^{+0.019}_{-0.018}$
σ_8	0.8036	$0.802^{+0.029}_{-0.027}$	r_{drag}	146.50	$146.5^{+1.8}_{-1.7}$	$f\sigma_8(2.33)$	0.2976	$0.2972^{+0.0095}_{-0.0093}$
S_8	0.8022	$0.801^{+0.050}_{-0.048}$	k_D	0.14232	$0.1423^{+0.0028}_{-0.0031}$	$\sigma_8(2.33)$	0.3074	$0.3070^{+0.0094}_{-0.0098}$
$\sigma_8 \Omega_m^{0.5}$	0.4394	$0.439^{+0.028}_{-0.027}$	$100\theta_D$	0.15917	$0.1592^{+0.0023}_{-0.0019}$	χ_{small}^2	395.62	$396.8 (\nu: 1.2)$
$\sigma_8 \Omega_m^{0.25}$	0.5942	$0.593^{+0.028}_{-0.027}$	z_{eq}	3369	3368^{+86}_{-87}	χ_{plikEE}^2	738.1	$743.1 (\nu: 5.8)$
$\sigma_8/h^{0.5}$	0.9686	$0.967^{+0.042}_{-0.040}$	k_{eq}	0.010283	$0.01028^{+0.00026}_{-0.00027}$	χ_{6DF}^2	0.004	$0.060 (\nu: 0.0)$
$r_{drag} h$	100.83	$100.9^{+3.0}_{-2.9}$	$100\theta_{eq}$	0.8216	$0.822^{+0.016}_{-0.015}$	χ_{MGS}^2	1.89	$2.00 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	2.66	$2.66^{+0.58}_{-0.68}$	$100\theta_{s,eq}$	0.4528	$0.4529^{+0.0081}_{-0.0078}$	$\chi_{DR12BAO}^2$	3.60	$4.4 (\nu: 0.7)$
z_{re}	7.18	$7.0^{+2.0}_{-2.8}$	$H(0.15)$	74.00	$74.0^{+2.0}_{-2.0}$	χ_{prior}^2	0.01	$1.0 (\nu: 1.0)$
$10^9 A_s$	2.114	$2.11^{+0.12}_{-0.12}$	$D_M(0.15)$	630.7	631^{+19}_{-18}	χ_{BAO}^2	5.50	$6.5 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.905	$1.906^{+0.059}_{-0.062}$	$H(0.38)$	83.93	$84.0^{+1.7}_{-1.7}$	χ_{CMB}^2	1133.7	$1139.9 (\nu: 6.9)$
D_{40}	1225	1227^{+80}_{-86}	$D_M(0.38)$	1507.3	1507^{+39}_{-39}			
D_{220}	5885	5895^{+360}_{-350}	$H(0.51)$	90.55	$90.6^{+1.6}_{-1.5}$			

Best-fit $\chi_{eff}^2 = 1139.18$; $\bar{\chi}_{eff}^2 = 1147.38$; $R - 1 = 0.01879$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.89 DR12BAO: 3.60 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.62 plik_rd12_HM_v22_EE: 738.06

3.31 base_Alens_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0245^{+0.0034}_{-0.0032}$	D_{40}	1221^{+81}_{-79}	$D_{\text{M}}(0.15)$	612^{+64}_{-55}
$\Omega_{\text{c}}h^2$	$0.114^{+0.013}_{-0.012}$	D_{220}	6020^{+520}_{-500}	$H(0.38)$	$85.7^{+5.5}_{-5.1}$
$100\theta_{\text{MC}}$	$1.0401^{+0.0023}_{-0.0023}$	D_{810}	2594^{+97}_{-99}	$D_{\text{M}}(0.38)$	1468^{+130}_{-120}
τ	$0.057^{+0.019}_{-0.014}$	D_{1420}	847^{+47}_{-48}	$H(0.51)$	$92.0^{+4.9}_{-4.3}$
A_{L}	$1.31^{+0.71}_{-0.61}$	D_{2000}	246^{+20}_{-20}	$D_{\text{M}}(0.51)$	1907^{+150}_{-140}
$\ln(10^{10}A_{\text{s}})$	$3.062^{+0.055}_{-0.047}$	$n_{\text{s},0.002}$	$0.989^{+0.041}_{-0.039}$	$H(0.61)$	$97.4^{+4.4}_{-3.7}$
n_{s}	$0.989^{+0.041}_{-0.039}$	Y_{P}	$0.2462^{+0.0013}_{-0.0013}$	$D_{\text{M}}(0.61)$	2224^{+170}_{-160}
y_{cal}	$0.9999^{+0.0063}_{-0.0064}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2476^{+0.0013}_{-0.0013}$	$H(2.33)$	$234.4^{+5.9}_{-4.8}$
H_0	$71.2^{+7.4}_{-7.4}$	$10^5\text{D}/\text{H}$	$2.24^{+0.55}_{-0.45}$	$D_{\text{M}}(2.33)$	5665^{+180}_{-190}
Ω_{Λ}	$0.725^{+0.065}_{-0.091}$	Age/Gyr	$13.58^{+0.40}_{-0.42}$	$f\sigma_8(0.15)$	$0.422^{+0.082}_{-0.071}$
Ω_{m}	$0.275^{+0.091}_{-0.065}$	z_*	$1087.0^{+4.8}_{-4.0}$	$\sigma_8(0.15)$	$0.735^{+0.036}_{-0.039}$
$\Omega_{\text{m}}h^2$	$0.139^{+0.011}_{-0.0087}$	r_*	$144.5^{+1.6}_{-1.7}$	$f\sigma_8(0.38)$	$0.447^{+0.063}_{-0.060}$
$\Omega_{\text{m}}h^3$	$0.0987^{+0.0051}_{-0.0045}$	$100\theta_*$	$1.0400^{+0.0022}_{-0.0022}$	$\sigma_8(0.38)$	$0.656^{+0.025}_{-0.028}$
σ_8	$0.791^{+0.046}_{-0.050}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.89^{+0.16}_{-0.16}$	$f\sigma_8(0.51)$	$0.450^{+0.053}_{-0.053}$
S_8	$0.76^{+0.16}_{-0.13}$	z_{drag}	$1064.2^{+6.5}_{-6.4}$	$\sigma_8(0.51)$	$0.615^{+0.022}_{-0.023}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.415^{+0.089}_{-0.073}$	r_{drag}	$146.5^{+1.9}_{-1.9}$	$f\sigma_8(0.61)$	$0.448^{+0.045}_{-0.048}$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.573^{+0.076}_{-0.069}$	k_{D}	$0.1429^{+0.0033}_{-0.0034}$	$\sigma_8(0.61)$	$0.587^{+0.019}_{-0.020}$
$\sigma_8/h^{0.5}$	$0.94^{+0.11}_{-0.10}$	$100\theta_{\text{D}}$	$0.1583^{+0.0037}_{-0.0029}$	$f\sigma_8(2.33)$	$0.2974^{+0.0089}_{-0.0082}$
$r_{\text{drag}}h$	104^{+11}_{-11}	z_{eq}	3299^{+250}_{-210}	$\sigma_8(2.33)$	$0.3086^{+0.0092}_{-0.0080}$
$\langle d^2 \rangle^{1/2}$	$2.67^{+0.57}_{-0.67}$	k_{eq}	$0.01007^{+0.00077}_{-0.00063}$	χ_{simall}^2	$396.4 (\nu: 0.8)$
z_{re}	< 8.92	$100\theta_{\text{eq}}$	$0.838^{+0.051}_{-0.054}$	χ_{plikEE}^2	$743.5 (\nu: 5.9)$
$10^9 A_{\text{s}}$	$2.14^{+0.12}_{-0.099}$	$100\theta_{\text{s,eq}}$	$0.461^{+0.024}_{-0.026}$	χ_{prior}^2	$0.99 (\nu: 1.0)$
$10^9 A_{\text{s}}e^{-2\tau}$	$1.906^{+0.064}_{-0.063}$	$H(0.15)$	$76.2^{+6.7}_{-6.5}$	χ_{CMB}^2	$1139.9 (\nu: 6.6)$

$$\bar{\chi}_{\text{eff}}^2 = 1140.89; R - 1 = 0.00557$$

3.32 base_Alens_plikHM_EE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0235^{+0.0016}_{-0.0017}$	D_{810}	2577^{+86}_{-83}	$D_{\mathrm{M}}(0.51)$	1954^{+47}_{-47}
$\Omega_{\mathrm{c}}h^2$	$0.1174^{+0.0039}_{-0.0038}$	D_{1420}	836^{+37}_{-35}	$H(0.61)$	$96.1^{+1.5}_{-1.4}$
$100\theta_{\mathrm{MC}}$	$1.0397^{+0.0021}_{-0.0021}$	D_{2000}	241^{+15}_{-14}	$D_{\mathrm{M}}(0.61)$	2275^{+52}_{-52}
τ	$0.055^{+0.017}_{-0.012}$	$n_{\mathrm{s},0.002}$	$0.978^{+0.027}_{-0.025}$	$H(2.33)$	$235.9^{+2.4}_{-2.6}$
A_{L}	$1.23^{+0.60}_{-0.55}$	Y_{P}	$0.24587^{+0.00064}_{-0.00070}$	$D_{\mathrm{M}}(2.33)$	5722^{+74}_{-76}
$\ln(10^{10}A_{\mathrm{s}})$	$3.056^{+0.048}_{-0.044}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24719^{+0.00064}_{-0.00070}$	$f\sigma_8(0.15)$	$0.446^{+0.025}_{-0.023}$
n_{s}	$0.978^{+0.027}_{-0.025}$	$10^5\mathrm{D}/\mathrm{H}$	$2.39^{+0.30}_{-0.25}$	$\sigma_8(0.15)$	$0.745^{+0.025}_{-0.020}$
y_{cal}	$0.9999^{+0.0072}_{-0.0067}$	Age/Gyr	$13.70^{+0.17}_{-0.17}$	$f\sigma_8(0.38)$	$0.467^{+0.021}_{-0.020}$
H_0	$68.9^{+2.2}_{-2.2}$	z_*	$1088.3^{+2.1}_{-1.9}$	$\sigma_8(0.38)$	$0.662^{+0.021}_{-0.017}$
Ω_{Λ}	$0.701^{+0.022}_{-0.024}$	r_*	$144.2^{+1.4}_{-1.3}$	$f\sigma_8(0.51)$	$0.467^{+0.020}_{-0.018}$
Ω_{m}	$0.299^{+0.024}_{-0.022}$	$100\theta_*$	$1.0398^{+0.0021}_{-0.0021}$	$\sigma_8(0.51)$	$0.620^{+0.019}_{-0.016}$
$\Omega_{\mathrm{m}}h^2$	$0.1416^{+0.0037}_{-0.0037}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.13}_{-0.12}$	$f\sigma_8(0.61)$	$0.463^{+0.018}_{-0.016}$
$\Omega_{\mathrm{m}}h^3$	$0.0975^{+0.0030}_{-0.0030}$	z_{drag}	$1062.4^{+3.5}_{-3.8}$	$\sigma_8(0.61)$	$0.590^{+0.018}_{-0.015}$
σ_8	$0.805^{+0.028}_{-0.023}$	r_{drag}	$146.5^{+1.8}_{-1.7}$	$f\sigma_8(2.33)$	$0.2982^{+0.0092}_{-0.0074}$
S_8	$0.803^{+0.049}_{-0.045}$	k_{D}	$0.1423^{+0.0028}_{-0.0031}$	$\sigma_8(2.33)$	$0.3081^{+0.0090}_{-0.0076}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.440^{+0.027}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.1592^{+0.0023}_{-0.0019}$	χ_{simall}^2	$396.4 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.026}_{-0.024}$	z_{eq}	3368^{+88}_{-87}	χ_{plikEE}^2	$743.1 (\nu: 5.7)$
$\sigma_8/h^{0.5}$	$0.970^{+0.039}_{-0.034}$	k_{eq}	$0.01028^{+0.00027}_{-0.00027}$	$\chi_{6\mathrm{DF}}^2$	$0.060 (\nu: 0.0)$
$r_{\mathrm{drag}}h$	$100.9^{+2.9}_{-3.0}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.016}_{-0.016}$	χ_{MGS}^2	$2.00 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	$2.66^{+0.58}_{-0.67}$	$100\theta_{\mathrm{s,eq}}$	$0.4530^{+0.0081}_{-0.0079}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.7)$
z_{re}	< 8.96	$H(0.15)$	$74.0^{+2.0}_{-1.9}$	χ_{prior}^2	$1.0 (\nu: 1.1)$
$10^9 A_{\mathrm{s}}$	$2.13^{+0.10}_{-0.092}$	$D_{\mathrm{M}}(0.15)$	631^{+19}_{-18}	χ_{BAO}^2	$6.5 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.905^{+0.059}_{-0.062}$	$H(0.38)$	$84.0^{+1.7}_{-1.6}$	χ_{CMB}^2	$1139.5 (\nu: 6.5)$
D_{40}	1227^{+73}_{-83}	$D_{\mathrm{M}}(0.38)$	1507^{+39}_{-39}		
D_{220}	5892^{+330}_{-340}	$H(0.51)$	$90.6^{+1.6}_{-1.4}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1146.99$; $R - 1 = 0.01334$

3.33 base_Alens_CamSpecHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02233	$0.0224^{+0.0011}_{-0.00098}$ (+0.5 σ)	D_{40}	1216	1209^{+100}_{-96} (−0.9 σ)	$D_M(0.15)$	635.9	634^{+27}_{-26} (−0.7 σ)
$\Omega_c h^2$	0.1177	$0.1174^{+0.0067}_{-0.0064}$ (−0.7 σ)	D_{220}	5715	5710^{+160}_{-160} (+0.5 σ)	$H(0.38)$	83.37	$83.5^{+2.2}_{-2.0}$ (+0.7 σ)
$100\theta_{MC}$	1.04130	$1.0414^{+0.0014}_{-0.0014}$ (+0.2 σ)	D_{810}	2532	2536^{+100}_{-100} (+1.6 σ)	$D_M(0.38)$	1519	1516^{+54}_{-54} (−0.7 σ)
τ	0.0504	$0.050^{+0.023}_{-0.029}$ (+0.2 σ)	D_{1420}	816	819^{+52}_{-49} (+1.5 σ)	$H(0.51)$	89.99	$90.1^{+1.8}_{-1.6}$ (+0.7 σ)
A_L	0.89	$0.93^{+0.62}_{-0.54}$ (+0.8 σ)	D_{2000}	229.3	231^{+24}_{-22} (+1.3 σ)	$D_M(0.51)$	1969	1965^{+64}_{-64} (−0.7 σ)
$\ln(10^{10} A_s)$	3.028	$3.027^{+0.061}_{-0.062}$ (+0.9 σ)	$n_{s,0.002}$	0.969	$0.973^{+0.055}_{-0.052}$ (+1.2 σ)	$H(0.61)$	95.53	$95.6^{+1.5}_{-1.3}$ (+0.7 σ)
n_s	0.969	$0.973^{+0.055}_{-0.052}$ (+1.2 σ)	Y_P	0.245379	$0.24539^{+0.00045}_{-0.00044}$ (+0.5 σ)	$D_M(0.61)$	2292	2288^{+69}_{-70} (−0.7 σ)
y_{cal}	1.0001	$0.99997^{+0.0066}_{-0.0065}$ (−0.0 σ)	Y_P^{BBN}	0.246705	$0.24672^{+0.00045}_{-0.00044}$ (+0.5 σ)	$H(2.33)$	235.07	$234.9^{+3.7}_{-3.6}$ (−0.7 σ)
H_0	68.25	$68.4^{+3.3}_{-3.1}$ (+0.7 σ)	$10^5 D/H$	2.593	$2.59^{+0.19}_{-0.19}$ (−0.5 σ)	$D_M(2.33)$	5755	5751^{+63}_{-68} (−0.6 σ)
Ω_Λ	0.6979	$0.700^{+0.038}_{-0.043}$ (+0.7 σ)	Age/Gyr	13.780	$13.77^{+0.14}_{-0.15}$ (−0.6 σ)	$f\sigma_8(0.15)$	0.4442	$0.443^{+0.035}_{-0.036}$ (−0.2 σ)
Ω_m	0.3021	$0.300^{+0.043}_{-0.038}$ (−0.7 σ)	z_*	1089.77	$1089.7^{+1.7}_{-1.7}$ (−0.6 σ)	$\sigma_8(0.15)$	0.7388	$0.739^{+0.028}_{-0.028}$ (+0.9 σ)
$\Omega_m h^2$	0.1407	$0.1404^{+0.0060}_{-0.0057}$ (−0.7 σ)	r_*	145.05	$145.1^{+1.3}_{-1.3}$ (+0.7 σ)	$f\sigma_8(0.38)$	0.4643	$0.463^{+0.028}_{-0.030}$ (+0.0 σ)
$\Omega_m h^3$	0.09604	$0.0961^{+0.0017}_{-0.0016}$ (+0.1 σ)	$100\theta_*$	1.04150	$1.0416^{+0.0013}_{-0.0013}$ (+0.2 σ)	$\sigma_8(0.38)$	0.6560	$0.656^{+0.025}_{-0.025}$ (+1.0 σ)
σ_8	0.7986	$0.798^{+0.031}_{-0.032}$ (+0.7 σ)	$D_M(z_*)/\text{Gpc}$	13.927	$13.93^{+0.13}_{-0.12}$ (+0.7 σ)	$f\sigma_8(0.51)$	0.4640	$0.463^{+0.024}_{-0.026}$ (+0.1 σ)
S_8	0.801	$0.798^{+0.070}_{-0.068}$ (−0.3 σ)	z_{drag}	1059.67	$1059.8^{+2.1}_{-2.0}$ (+0.4 σ)	$\sigma_8(0.51)$	0.6143	$0.614^{+0.024}_{-0.023}$ (+1.1 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4389	$0.437^{+0.038}_{-0.037}$ (−0.3 σ)	r_{drag}	147.74	$147.8^{+1.4}_{-1.3}$ (+0.6 σ)	$f\sigma_8(0.61)$	0.4599	$0.459^{+0.022}_{-0.024}$ (+0.3 σ)
$\sigma_8 \Omega_m^{0.25}$	0.5920	$0.591^{+0.034}_{-0.036}$ (+0.0 σ)	k_D	0.14016	$0.1402^{+0.0015}_{-0.0015}$ (−0.3 σ)	$\sigma_8(0.61)$	0.5848	$0.585^{+0.023}_{-0.022}$ (+1.1 σ)
$\sigma_8/h^{0.5}$	0.9666	$0.965^{+0.047}_{-0.050}$ (+0.2 σ)	$100\theta_D$	0.16095	$0.1609^{+0.0012}_{-0.0012}$ (−0.4 σ)	$f\sigma_8(2.33)$	0.2952	$0.295^{+0.012}_{-0.011}$ (+1.2 σ)
$r_{drag} h$	100.8	$101.1^{+5.5}_{-5.2}$ (+0.7 σ)	z_{eq}	3347	3341^{+140}_{-140} (−0.7 σ)	$\sigma_8(2.33)$	0.3048	$0.305^{+0.013}_{-0.012}$ (+1.2 σ)
$\langle d^2 \rangle^{1/2}$	2.26	$2.28^{+0.56}_{-0.74}$ (+0.7 σ)	k_{eq}	0.010216	$0.01020^{+0.00044}_{-0.00042}$ (−0.7 σ)	χ^2_{small}	395.7	396.9 (ν : 1.5) (+0.0 σ)
z_{re}	7.25	$7.2^{+2.3}_{-3.4}$ (+0.1 σ)	$100\theta_{eq}$	0.8234	$0.825^{+0.029}_{-0.028}$ (+0.7 σ)	$\chi^2_{CamSpec}$	2575.8	2581.9 (ν : 6.2)
$10^9 A_s$	2.065	$2.06^{+0.13}_{-0.12}$ (+0.9 σ)	$100\theta_{s,eq}$	0.4547	$0.455^{+0.014}_{-0.014}$ (+0.7 σ)	χ^2_{prior}	10.03	11.0 (ν : 1.0) (+1.0 σ)
$10^9 A_s e^{-2\tau}$	1.867	$1.867^{+0.062}_{-0.064}$ (+1.4 σ)	$H(0.15)$	73.43	$73.6^{+2.9}_{-2.7}$ (+0.7 σ)	χ^2_{CMB}	2971.5	2978.8 (ν : 7.6) (+395.5 σ)

Best-fit $\chi^2_{eff} = 2981.49$; $\Delta\chi^2_{eff} = 1733.88$; $\bar{\chi}^2_{eff} = 2989.81$; $\Delta\bar{\chi}^2_{eff} = 1725.95$; $R - 1 = 0.00461$

χ^2_{eff} : CMB - small_100x143_offlike5_EE_Aplanck_B: 395.66 (Δ 0.02) CamSpec like_10.7HM_1400_unified: 2575.80

3.34 base_Alens_CamSpecHM_TE_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02230^{+0.00078}_{-0.00076} \quad (+0.1\sigma)$	D_{810}	$2530^{+97}_{-95} \quad (+1.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+33}_{-34} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1181^{+0.0034}_{-0.0034} \quad (-0.4\sigma)$	D_{1420}	$816^{+46}_{-43} \quad (+1.3\sigma)$	$H(0.61)$	$95.48^{+0.86}_{-0.82} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	D_{2000}	$229^{+21}_{-19} \quad (+1.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2295^{+36}_{-37} \quad (-0.3\sigma)$
τ	$0.050^{+0.023}_{-0.027} \quad (+0.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.041}_{-0.041} \quad (+1.0\sigma)$	$H(2.33)$	$235.3^{+2.1}_{-2.1} \quad (-0.4\sigma)$
A_{L}	$0.89^{+0.48}_{-0.49} \quad (+0.5\sigma)$	Y_{P}	$0.24536^{+0.00033}_{-0.00035} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+42}_{-43} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.026^{+0.061}_{-0.059} \quad (+0.9\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00033}_{-0.00035} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.022}_{-0.022} \quad (+0.5\sigma)$
n_{s}	$0.968^{+0.041}_{-0.041} \quad (+1.0\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.60^{+0.15}_{-0.14} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.029}_{-0.026} \quad (+1.0\sigma)$
y_{cal}	$1.0000^{+0.0066}_{-0.0066} \quad (-0.0\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.785^{+0.097}_{-0.099} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.021}_{-0.020} \quad (+0.6\sigma)$
H_0	$68.1^{+1.7}_{-1.6} \quad (+0.3\sigma)$	z_*	$1089.8^{+1.1}_{-1.1} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.025}_{-0.023} \quad (+1.0\sigma)$
Ω_{Λ}	$0.696^{+0.020}_{-0.021} \quad (+0.4\sigma)$	r_*	$144.99^{+0.89}_{-0.89} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.019}_{-0.019} \quad (+0.7\sigma)$
Ω_{m}	$0.304^{+0.021}_{-0.020} \quad (-0.4\sigma)$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.024}_{-0.022} \quad (+1.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1410^{+0.0032}_{-0.0032} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.921^{+0.087}_{-0.085} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.019}_{-0.018} \quad (+0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0016}_{-0.0016} \quad (-0.0\sigma)$	z_{drag}	$1059.6^{+1.7}_{-1.8} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.023}_{-0.021} \quad (+1.0\sigma)$
σ_8	$0.799^{+0.031}_{-0.029} \quad (+0.9\sigma)$	r_{drag}	$147.7^{+1.0}_{-0.99} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.011} \quad (+1.0\sigma)$
S_8	$0.804^{+0.042}_{-0.041} \quad (+0.4\sigma)$	k_{D}	$0.1402^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.012}_{-0.011} \quad (+1.0\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.023}_{-0.023} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0011}_{-0.0010} \quad (-0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.0\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.593^{+0.026}_{-0.025} \quad (+0.7\sigma)$	z_{eq}	$3354^{+76}_{-76} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$2581.1 \quad (\nu: 5.4)$
$\sigma_8/h^{0.5}$	$0.968^{+0.038}_{-0.038} \quad (+0.8\sigma)$	k_{eq}	$0.01024^{+0.00023}_{-0.00023} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$r_{\mathrm{drag}}h$	$100.6^{+2.7}_{-2.6} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.015}_{-0.014} \quad (+0.4\sigma)$	χ_{MGS}^2	$1.84 \quad (\nu: 0.2) \quad (+0.4\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.24^{+0.51}_{-0.70} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4540^{+0.0075}_{-0.0072} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 \quad (\nu: 0.5) \quad (-0.2\sigma)$
z_{re}	$7.2^{+2.3}_{-3.1} \quad (+0.1\sigma)$	$H(0.15)$	$73.3^{+1.5}_{-1.4} \quad (+0.3\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_{\mathrm{s}}$	$2.06^{+0.13}_{-0.12} \quad (+0.9\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+14}_{-14} \quad (-0.3\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (+0.0\sigma)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.866^{+0.063}_{-0.066} \quad (+1.3\sigma)$	$H(0.38)$	$83.3^{+1.1}_{-1.1} \quad (+0.3\sigma)$	χ_{CMB}^2	$2978.0 \quad (\nu: 6.7) \quad (+416.5\sigma)$
D_{40}	$1217^{+81}_{-78} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+28}_{-29} \quad (-0.3\sigma)$		
D_{220}	$5707^{+160}_{-160} \quad (+0.5\sigma)$	$H(0.51)$	$89.92^{+0.98}_{-0.92} \quad (+0.2\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2995.04$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 1725.89$; $R - 1 = 0.00758$

3.35 base_Alens_CamSpecHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0224^{+0.0011}_{-0.00099} \quad (+0.5\sigma)$	D_{40}	$1209^{+100}_{-96} \quad (-0.8\sigma)$	$D_{\mathrm{M}}(0.15)$	$634^{+27}_{-26} \quad (-0.7\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1173^{+0.0067}_{-0.0064} \quad (-0.7\sigma)$	D_{220}	$5709^{+160}_{-170} \quad (+0.5\sigma)$	$H(0.38)$	$83.5^{+2.2}_{-2.0} \quad (+0.7\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	D_{810}	$2536^{+100}_{-100} \quad (+1.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1515^{+55}_{-54} \quad (-0.7\sigma)$
τ	$0.053^{+0.019}_{-0.012} \quad (+0.2\sigma)$	D_{1420}	$819^{+52}_{-49} \quad (+1.5\sigma)$	$H(0.51)$	$90.1^{+1.8}_{-1.6} \quad (+0.7\sigma)$
A_{L}	$0.93^{+0.61}_{-0.54} \quad (+0.8\sigma)$	D_{2000}	$231^{+24}_{-22} \quad (+1.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1965^{+64}_{-64} \quad (-0.7\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.034^{+0.056}_{-0.046} \quad (+1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.973^{+0.055}_{-0.052} \quad (+1.2\sigma)$	$H(0.61)$	$95.6^{+1.5}_{-1.3} \quad (+0.6\sigma)$
n_{s}	$0.973^{+0.055}_{-0.052} \quad (+1.2\sigma)$	Y_{P}	$0.24539^{+0.00045}_{-0.00044} \quad (+0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2288^{+69}_{-70} \quad (-0.7\sigma)$
y_{cal}	$0.99995^{+0.0065}_{-0.0065} \quad (-0.1\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00045}_{-0.00044} \quad (+0.5\sigma)$	$H(2.33)$	$234.9^{+3.7}_{-3.5} \quad (-0.7\sigma)$
H_0	$68.5^{+3.3}_{-3.2} \quad (+0.7\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.58^{+0.19}_{-0.19} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5750^{+63}_{-68} \quad (-0.6\sigma)$
Ω_{Λ}	$0.700^{+0.038}_{-0.043} \quad (+0.7\sigma)$	Age/Gyr	$13.77^{+0.14}_{-0.15} \quad (-0.6\sigma)$	$f\sigma_8(0.15)$	$0.444^{+0.035}_{-0.034} \quad (-0.2\sigma)$
Ω_{m}	$0.300^{+0.043}_{-0.038} \quad (-0.7\sigma)$	z_*	$1089.7^{+1.8}_{-1.7} \quad (-0.6\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.027}_{-0.025} \quad (+0.9\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0060}_{-0.0057} \quad (-0.7\sigma)$	r_*	$145.1^{+1.3}_{-1.3} \quad (+0.6\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.028} \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0017}_{-0.0016} \quad (+0.1\sigma)$	$100\theta_*$	$1.0416^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.024}_{-0.021} \quad (+1.1\sigma)$
σ_8	$0.801^{+0.029}_{-0.028} \quad (+0.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.12}_{-0.12} \quad (+0.6\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.023}_{-0.024} \quad (+0.1\sigma)$
S_8	$0.800^{+0.069}_{-0.066} \quad (-0.3\sigma)$	z_{drag}	$1059.8^{+2.1}_{-2.0} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.022}_{-0.020} \quad (+1.2\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.438^{+0.038}_{-0.036} \quad (-0.3\sigma)$	r_{drag}	$147.8^{+1.4}_{-1.3} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.021}_{-0.022} \quad (+0.3\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.033}_{-0.033} \quad (+0.0\sigma)$	k_{D}	$0.1401^{+0.0015}_{-0.0015} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.022}_{-0.019} \quad (+1.2\sigma)$
$\sigma_8/h^{0.5}$	$0.968^{+0.045}_{-0.046} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0012}_{-0.0012} \quad (-0.4\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.0099} \quad (+1.2\sigma)$
$r_{\mathrm{drag}}h$	$101.2^{+5.5}_{-5.3} \quad (+0.7\sigma)$	z_{eq}	$3339^{+140}_{-140} \quad (-0.7\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011} \quad (+1.3\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.28^{+0.56}_{-0.75} \quad (+0.6\sigma)$	k_{eq}	$0.01019^{+0.00044}_{-0.00042} \quad (-0.7\sigma)$	χ_{small}^2	$396.5 \quad (\nu: 0.9) \quad (+0.1\sigma)$
z_{re}	$< 9.29 \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.028}_{-0.028} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$2581.9 \quad (\nu: 6.2)$
$10^9 A_{\mathrm{s}}$	$2.08^{+0.12}_{-0.094} \quad (+1.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.014}_{-0.014} \quad (+0.7\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+1.0\sigma)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.868^{+0.063}_{-0.063} \quad (+1.3\sigma)$	$H(0.15)$	$73.6^{+2.8}_{-2.7} \quad (+0.7\sigma)$	χ_{CMB}^2	$2978.4 \quad (\nu: 7.1) \quad (+403.8\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2989.43; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 1725.99; R - 1 = 0.00501$$

3.36 base_Alens_CamSpecHM_TE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02230^{+0.00077}_{-0.00076} \quad (+0.1\sigma)$	D_{810}	$2531^{+96}_{-98} \quad (+1.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+33}_{-34} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1180^{+0.0034}_{-0.0034} \quad (-0.4\sigma)$	D_{1420}	$816^{+45}_{-46} \quad (+1.3\sigma)$	$H(0.61)$	$95.48^{+0.87}_{-0.81} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	D_{2000}	$229^{+21}_{-20} \quad (+1.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2295^{+36}_{-37} \quad (-0.3\sigma)$
τ	$0.053^{+0.018}_{-0.012} \quad (+0.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.040}_{-0.042} \quad (+1.0\sigma)$	$H(2.33)$	$235.2^{+2.1}_{-2.1} \quad (-0.4\sigma)$
A_{L}	$0.88^{+0.48}_{-0.49} \quad (+0.5\sigma)$	Y_{P}	$0.24536^{+0.00032}_{-0.00035} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+42}_{-43} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.032^{+0.057}_{-0.045} \quad (+1.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00032}_{-0.00035} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.021}_{-0.021} \quad (+0.5\sigma)$
n_{s}	$0.969^{+0.040}_{-0.042} \quad (+1.0\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.60^{+0.15}_{-0.14} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.027}_{-0.023} \quad (+1.0\sigma)$
y_{cal}	$1.0000^{+0.0066}_{-0.0067} \quad (-0.1\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.785^{+0.006}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.467^{+0.020}_{-0.018} \quad (+0.7\sigma)$
H_0	$68.1^{+1.7}_{-1.6} \quad (+0.3\sigma)$	z_*	$1089.8^{+1.1}_{-1.1} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.024}_{-0.021} \quad (+1.1\sigma)$
Ω_{Λ}	$0.696^{+0.020}_{-0.021} \quad (+0.4\sigma)$	r_*	$144.99^{+0.88}_{-0.90} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.466^{+0.019}_{-0.017} \quad (+0.8\sigma)$
Ω_{m}	$0.304^{+0.021}_{-0.020} \quad (-0.4\sigma)$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.022}_{-0.019} \quad (+1.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1410^{+0.0032}_{-0.0032} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.922^{+0.086}_{-0.085} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.018}_{-0.016} \quad (+0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0016}_{-0.0016} \quad (-0.1\sigma)$	z_{drag}	$1059.6^{+1.7}_{-1.8} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.021}_{-0.018} \quad (+1.1\sigma)$
σ_8	$0.802^{+0.029}_{-0.025} \quad (+1.0\sigma)$	r_{drag}	$147.7^{+1.1}_{-1.0} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.0095} \quad (+1.1\sigma)$
S_8	$0.807^{+0.041}_{-0.040} \quad (+0.4\sigma)$	k_{D}	$0.1402^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.011}_{-0.010} \quad (+1.1\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.022}_{-0.022} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0011}_{-0.00099} \quad (-0.1\sigma)$	χ_{small}^2	$396.5 \quad (\nu: 1.0) \quad (+0.1\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.025}_{-0.023} \quad (+0.7\sigma)$	z_{eq}	$3354^{+76}_{-76} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$2581.2 \quad (\nu: 5.4)$
$\sigma_8/h^{0.5}$	$0.971^{+0.038}_{-0.034} \quad (+0.8\sigma)$	k_{eq}	$0.01024^{+0.00023}_{-0.00023} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$r_{\mathrm{drag}}h$	$100.6^{+2.6}_{-2.6} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.015}_{-0.014} \quad (+0.4\sigma)$	χ_{MGS}^2	$1.85 \quad (\nu: 0.2) \quad (+0.4\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.24^{+0.51}_{-0.74} \quad (+0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4541^{+0.0075}_{-0.0072} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 \quad (\nu: 0.5) \quad (-0.2\sigma)$
z_{re}	$< 9.26 \quad (+0.1\sigma)$	$H(0.15)$	$73.3^{+1.5}_{-1.4} \quad (+0.3\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.1) \quad (+1.0\sigma)$
$10^9 A_{\mathrm{s}}$	$2.07^{+0.12}_{-0.092} \quad (+1.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+14}_{-14} \quad (-0.3\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (+0.0\sigma)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.866^{+0.063}_{-0.066} \quad (+1.3\sigma)$	$H(0.38)$	$83.3^{+1.2}_{-1.1} \quad (+0.3\sigma)$	χ_{CMB}^2	$2977.7 \quad (\nu: 6.3) \quad (+433.9\sigma)$
D_{40}	$1217^{+81}_{-77} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+28}_{-29} \quad (-0.3\sigma)$		
D_{220}	$5707^{+160}_{-160} \quad (+0.4\sigma)$	$H(0.51)$	$89.92^{+0.99}_{-0.92} \quad (+0.2\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2994.70$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 1726.03$; $R - 1 = 0.00997$

3.37 base_Alens_CamSpecHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02349	$0.0236^{+0.0033}_{-0.0031} \quad (-0.7\sigma)$	D_{40}	1258	$1257^{+82}_{-78} \quad (+1.1\sigma)$	$D_M(0.15)$	634	$632^{+66}_{-58} \quad (+0.9\sigma)$
$\Omega_c h^2$	0.1180	$0.118^{+0.014}_{-0.012} \quad (+0.9\sigma)$	D_{220}	5982	$5998^{+520}_{-530} \quad (-0.1\sigma)$	$H(0.38)$	83.7	$83.9^{+5.4}_{-4.8} \quad (-0.8\sigma)$
$100\theta_{MC}$	1.03926	$1.0393^{+0.0023}_{-0.0023} \quad (-0.8\sigma)$	D_{810}	2600	$2601^{+99}_{-100} \quad (+0.2\sigma)$	$D_M(0.38)$	1514	$1510^{+130}_{-120} \quad (+0.9\sigma)$
τ	0.0509	$0.051^{+0.023}_{-0.026} \quad (-0.3\sigma)$	D_{1420}	841.1	$842^{+47}_{-50} \quad (-0.3\sigma)$	$H(0.51)$	90.32	$90.6^{+4.6}_{-4.0} \quad (-0.8\sigma)$
A_L	1.14	$1.16^{+0.65}_{-0.57} \quad (-0.6\sigma)$	D_{2000}	240.9	$242^{+19}_{-21} \quad (-0.5\sigma)$	$D_M(0.51)$	1962	$1957^{+160}_{-150} \quad (+0.9\sigma)$
$\ln(10^{10} A_s)$	3.059	$3.059^{+0.055}_{-0.060} \quad (+0.2\sigma)$	$n_{s,0.002}$	0.9702	$0.972^{+0.038}_{-0.037} \quad (-1.0\sigma)$	$H(0.61)$	95.90	$96.1^{+4.1}_{-3.3} \quad (-0.8\sigma)$
n_s	0.9702	$0.972^{+0.038}_{-0.037} \quad (-1.0\sigma)$	Y_P	0.24586	$0.2459^{+0.0012}_{-0.0013} \quad (-0.7\sigma)$	$D_M(0.61)$	2285	$2279^{+170}_{-160} \quad (+0.9\sigma)$
y_{cal}	1.0000	$0.9999^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	Y_P^{BBN}	0.24719	$0.2472^{+0.0012}_{-0.0013} \quad (-0.7\sigma)$	$H(2.33)$	236.2	$236.2^{+6.5}_{-5.3} \quad (+0.8\sigma)$
H_0	68.4	$68.7^{+7.5}_{-7.3} \quad (-0.9\sigma)$	$10^5 D/H$	2.39	$2.38^{+0.59}_{-0.47} \quad (+0.7\sigma)$	$D_M(2.33)$	5732	$5723^{+170}_{-180} \quad (+0.8\sigma)$
Ω_Λ	0.697	$0.697^{+0.074}_{-0.10} \quad (-0.9\sigma)$	Age/Gyr	13.725	$13.71^{+0.38}_{-0.41} \quad (+0.8\sigma)$	$f\sigma_8(0.15)$	0.449	$0.447^{+0.086}_{-0.077} \quad (+0.9\sigma)$
Ω_m	0.303	$0.303^{+0.10}_{-0.074} \quad (+0.9\sigma)$	z_*	1088.40	$1088.3^{+5.1}_{-4.2} \quad (+0.8\sigma)$	$\sigma_8(0.15)$	0.7453	$0.743^{+0.036}_{-0.040} \quad (+0.7\sigma)$
$\Omega_m h^2$	0.1421	$0.142^{+0.011}_{-0.0096} \quad (+0.9\sigma)$	r_*	144.10	$144.1^{+1.7}_{-1.7} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	0.469	$0.467^{+0.064}_{-0.063} \quad (+0.9\sigma)$
$\Omega_m h^3$	0.09726	$0.0975^{+0.0049}_{-0.0043} \quad (-0.7\sigma)$	$100\theta_*$	1.03933	$1.0394^{+0.0022}_{-0.0022} \quad (-0.8\sigma)$	$\sigma_8(0.38)$	0.6616	$0.660^{+0.025}_{-0.029} \quad (+0.6\sigma)$
σ_8	0.8057	$0.804^{+0.046}_{-0.051} \quad (+0.8\sigma)$	$D_M(z_*)/\text{Gpc}$	13.865	$13.86^{+0.16}_{-0.16} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.469	$0.466^{+0.052}_{-0.055} \quad (+0.9\sigma)$
S_8	0.810	$0.81^{+0.18}_{-0.15} \quad (+0.9\sigma)$	z_{drag}	1062.3	$1062.6^{+6.4}_{-6.4} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	0.6195	$0.618^{+0.022}_{-0.025} \quad (+0.6\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.444	$0.442^{+0.096}_{-0.081} \quad (+0.9\sigma)$	r_{drag}	146.40	$146.3^{+1.8}_{-1.9} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4643	$0.462^{+0.044}_{-0.048} \quad (+0.8\sigma)$
$\sigma_8 \Omega_m^{0.25}$	0.598	$0.596^{+0.079}_{-0.074} \quad (+0.9\sigma)$	k_D	0.14241	$0.1425^{+0.0034}_{-0.0034} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	0.5897	$0.589^{+0.020}_{-0.022} \quad (+0.5\sigma)$
$\sigma_8/h^{0.5}$	0.974	$0.97^{+0.11}_{-0.11} \quad (+0.9\sigma)$	$100\theta_D$	0.15911	$0.1590^{+0.0040}_{-0.0031} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	0.2977	$0.2972^{+0.0091}_{-0.0095} \quad (+0.3\sigma)$
$r_{drag} h$	100.2	$101^{+11}_{-11} \quad (-0.9\sigma)$	z_{eq}	3380	$3377^{+260}_{-230} \quad (+0.9\sigma)$	$\sigma_8(2.33)$	0.3072	$0.3070^{+0.0095}_{-0.0099} \quad (-0.1\sigma)$
$\langle d^2 \rangle^{1/2}$	2.59	$2.60^{+0.59}_{-0.69} \quad (-0.3\sigma)$	k_{eq}	0.01032	$0.01031^{+0.00081}_{-0.00070} \quad (+0.9\sigma)$	χ_{small}^2	395.60	$396.8 \quad (\nu: 1.3) \quad (+0.0\sigma)$
z_{re}	7.07	$7.0^{+2.2}_{-2.9} \quad (-0.0\sigma)$	$100\theta_{eq}$	0.819	$0.821^{+0.052}_{-0.053} \quad (-0.9\sigma)$	$\chi_{CamSpec}^2$	1886.1	$1892.2 \quad (\nu: 6.2)$
$10^9 A_s$	2.132	$2.13^{+0.12}_{-0.12} \quad (+0.2\sigma)$	$100\theta_{s,eq}$	0.4515	$0.452^{+0.025}_{-0.026} \quad (-0.9\sigma)$	χ_{prior}^2	10.03	$11.0 \quad (\nu: 1.0) \quad (+7.1\sigma)$
$10^9 A_s e^{-2\tau}$	1.925	$1.927^{+0.065}_{-0.063} \quad (+0.8\sigma)$	$H(0.15)$	73.7	$73.9^{+6.7}_{-6.3} \quad (-0.9\sigma)$	χ_{CMB}^2	2281.7	$2289.0 \quad (\nu: 7.4) \quad (+305.0\sigma)$

Best-fit $\chi_{eff}^2 = 2291.75$; $\Delta\chi_{eff}^2 = 1158.60$; $\bar{\chi}_{eff}^2 = 2300.05$; $\Delta\bar{\chi}_{eff}^2 = 1158.75$; $R - 1 = 0.00814$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.60 (Δ 0.03) CamSpec like_10.7HM_1400_unified: 1886.12

3.38 base_Alens_CamSpecHM_EE_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0236^{+0.0017}_{-0.0016} \quad (+0.1\sigma)$	D_{810}	$2601^{+87}_{-87} \quad (+0.7\sigma)$	$D_{\mathrm{M}}(0.51)$	$1956^{+47}_{-48} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0039}_{-0.0037} \quad (+0.0\sigma)$	D_{1420}	$842^{+37}_{-36} \quad (+0.4\sigma)$	$H(0.61)$	$96.1^{+1.5}_{-1.3} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0394^{+0.0019}_{-0.0021} \quad (-0.5\sigma)$	D_{2000}	$242^{+15}_{-14} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2278^{+52}_{-53} \quad (+0.1\sigma)$
τ	$0.051^{+0.023}_{-0.026} \quad (-0.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.972^{+0.025}_{-0.027} \quad (-0.6\sigma)$	$H(2.33)$	$236.0^{+2.8}_{-2.5} \quad (+0.1\sigma)$
A_{L}	$1.16^{+0.59}_{-0.52} \quad (-0.4\sigma)$	Y_{P}	$0.24589^{+0.00069}_{-0.00067} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5725^{+71}_{-78} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.059^{+0.056}_{-0.059} \quad (+0.4\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24722^{+0.00069}_{-0.00067} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.025}_{-0.025} \quad (+0.2\sigma)$
n_{s}	$0.972^{+0.025}_{-0.027} \quad (-0.6\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.37^{+0.29}_{-0.26} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.025}_{-0.025} \quad (+0.1\sigma)$
y_{cal}	$0.99996^{+0.0065}_{-0.0065} \quad (+0.0\sigma)$	Age/Gyr	$13.71^{+0.17}_{-0.18} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.022}_{-0.022} \quad (+0.2\sigma)$
H_0	$68.8^{+2.3}_{-2.1} \quad (-0.1\sigma)$	z_*	$1088.3^{+2.1}_{-2.0} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.021}_{-0.021} \quad (+0.1\sigma)$
Ω_{Λ}	$0.700^{+0.023}_{-0.024} \quad (-0.1\sigma)$	r_*	$144.1^{+1.3}_{-1.5} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.466^{+0.020}_{-0.020} \quad (+0.2\sigma)$
Ω_{m}	$0.300^{+0.024}_{-0.023} \quad (+0.1\sigma)$	$100\theta_*$	$1.0394^{+0.0019}_{-0.0021} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.019}_{-0.019} \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1417^{+0.0039}_{-0.0035} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.13}_{-0.15} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.018}_{-0.019} \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0974^{+0.0032}_{-0.0029} \quad (-0.1\sigma)$	z_{drag}	$1062.5^{+3.7}_{-3.7} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.018}_{-0.018} \quad (+0.1\sigma)$
σ_8	$0.804^{+0.027}_{-0.028} \quad (+0.2\sigma)$	r_{drag}	$146.4^{+1.8}_{-1.9} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0092}_{-0.0091} \quad (+0.1\sigma)$
S_8	$0.804^{+0.049}_{-0.048} \quad (+0.2\sigma)$	k_{D}	$0.1425^{+0.0030}_{-0.0030} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0095}_{-0.0095} \quad (+0.1\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.440^{+0.027}_{-0.027} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1590^{+0.0022}_{-0.0020} \quad (-0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (+0.0\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.027}_{-0.027} \quad (+0.2\sigma)$	z_{eq}	$3371^{+92}_{-84} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$1891.3 \quad (\nu: 5.1)$
$\sigma_8/h^{0.5}$	$0.970^{+0.039}_{-0.041} \quad (+0.2\sigma)$	k_{eq}	$0.01029^{+0.00028}_{-0.00025} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.015}_{-0.016} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.85 \quad (\nu: 0.3) \quad (-0.2\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.59^{+0.59}_{-0.67} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4525^{+0.0079}_{-0.0082} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.9) \quad (+0.1\sigma)$
z_{re}	$7.0^{+2.1}_{-2.9} \quad (-0.1\sigma)$	$H(0.15)$	$73.9^{+2.1}_{-1.9} \quad (-0.1\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+7.0\sigma)$
10^9A_{s}	$2.13^{+0.12}_{-0.12} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$631^{+19}_{-19} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 0.9) \quad (+0.0\sigma)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.925^{+0.065}_{-0.063} \quad (+0.8\sigma)$	$H(0.38)$	$83.9^{+1.7}_{-1.6} \quad (-0.1\sigma)$	χ_{CMB}^2	$2288.1 \quad (\nu: 6.5) \quad (+308.0\sigma)$
D_{40}	$1256^{+85}_{-80} \quad (+0.9\sigma)$	$D_{\mathrm{M}}(0.38)$	$1509^{+39}_{-40} \quad (+0.1\sigma)$		
D_{220}	$5995^{+340}_{-350} \quad (+0.8\sigma)$	$H(0.51)$	$90.5^{+1.6}_{-1.4} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2305.61; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 1158.23; R - 1 = 0.01338$$

3.39 base_Alens_CamSpecHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0236^{+0.0033}_{-0.0032} \quad (-0.7\sigma)$	D_{40}	$1256^{+82}_{-80} \quad (+1.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$633^{+68}_{-58} \quad (+0.9\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.118^{+0.014}_{-0.012} \quad (+0.9\sigma)$	D_{220}	$5990^{+510}_{-530} \quad (-0.2\sigma)$	$H(0.38)$	$83.9^{+5.3}_{-4.9} \quad (-0.8\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0393^{+0.0023}_{-0.0023} \quad (-0.8\sigma)$	D_{810}	$2600^{+97}_{-100} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1511^{+140}_{-120} \quad (+0.9\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (-0.4\sigma)$	D_{1420}	$842^{+46}_{-50} \quad (-0.3\sigma)$	$H(0.51)$	$90.5^{+4.6}_{-4.0} \quad (-0.8\sigma)$
A_{L}	$1.16^{+0.64}_{-0.56} \quad (-0.6\sigma)$	D_{2000}	$241^{+19}_{-21} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1958^{+160}_{-150} \quad (+0.9\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.066^{+0.050}_{-0.045} \quad (+0.2\sigma)$	$n_{\mathrm{s},0.002}$	$0.972^{+0.038}_{-0.038} \quad (-1.0\sigma)$	$H(0.61)$	$96.1^{+4.0}_{-3.3} \quad (-0.8\sigma)$
n_{s}	$0.972^{+0.038}_{-0.038} \quad (-1.0\sigma)$	Y_{P}	$0.2459^{+0.0012}_{-0.0013} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.61)$	$2280^{+170}_{-160} \quad (+0.9\sigma)$
y_{cal}	$0.99996^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2472^{+0.0012}_{-0.0013} \quad (-0.7\sigma)$	$H(2.33)$	$236.2^{+6.5}_{-5.3} \quad (+0.8\sigma)$
H_0	$68.7^{+7.5}_{-7.4} \quad (-0.9\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.38^{+0.60}_{-0.47} \quad (+0.7\sigma)$	$D_{\mathrm{M}}(2.33)$	$5725^{+170}_{-180} \quad (+0.8\sigma)$
Ω_{Λ}	$0.697^{+0.074}_{-0.10} \quad (-0.9\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.71^{+0.39}_{-0.40} \quad (+0.8\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.087}_{-0.077} \quad (+0.9\sigma)$
Ω_{m}	$0.303^{+0.10}_{-0.074} \quad (+0.9\sigma)$	z_*	$1088.3^{+5.1}_{-4.1} \quad (+0.8\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.034}_{-0.039} \quad (+0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.011}_{-0.0094} \quad (+0.9\sigma)$	r_*	$144.1^{+1.7}_{-1.8} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.064}_{-0.063} \quad (+0.9\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0974^{+0.0048}_{-0.0044} \quad (-0.7\sigma)$	$100\theta_*$	$1.0394^{+0.0022}_{-0.0021} \quad (-0.7\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.024}_{-0.027} \quad (+0.7\sigma)$
σ_8	$0.807^{+0.045}_{-0.049} \quad (+0.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.86^{+0.16}_{-0.17} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.052}_{-0.054} \quad (+0.9\sigma)$
S_8	$0.81^{+0.18}_{-0.15} \quad (+0.9\sigma)$	z_{drag}	$1062.5^{+6.3}_{-6.5} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.022} \quad (+0.6\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.097}_{-0.081} \quad (+0.9\sigma)$	r_{drag}	$146.4^{+1.8}_{-1.9} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.044}_{-0.048} \quad (+0.9\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.598^{+0.080}_{-0.073} \quad (+0.9\sigma)$	k_{D}	$0.1425^{+0.0033}_{-0.0035} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.018}_{-0.019} \quad (+0.6\sigma)$
$\sigma_8/h^{0.5}$	$0.97^{+0.11}_{-0.10} \quad (+0.9\sigma)$	$100\theta_{\mathrm{D}}$	$0.1591^{+0.0040}_{-0.0031} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0084}_{-0.0080} \quad (+0.3\sigma)$
$r_{\mathrm{drag}}h$	$101^{+11}_{-11} \quad (-0.9\sigma)$	z_{eq}	$3377^{+270}_{-220} \quad (+0.9\sigma)$	$\sigma_8(2.33)$	$0.3081^{+0.0089}_{-0.0081} \quad (-0.1\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.60^{+0.58}_{-0.69} \quad (-0.3\sigma)$	k_{eq}	$0.01031^{+0.00082}_{-0.00068} \quad (+0.9\sigma)$	χ_{small}^2	$396.5 \quad (\nu: 1.0) \quad (+0.1\sigma)$
z_{re}	$< 9.03 \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.051}_{-0.054} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$1892.2 \quad (\nu: 6.3)$
$10^9 A_{\mathrm{s}}$	$2.15^{+0.11}_{-0.094} \quad (+0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.452^{+0.024}_{-0.026} \quad (-0.9\sigma)$	χ_{prior}^2	$11.0 \quad (\nu: 1.0) \quad (+7.1\sigma)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.926^{+0.065}_{-0.064} \quad (+0.8\sigma)$	$H(0.15)$	$73.9^{+6.7}_{-6.5} \quad (-0.9\sigma)$	χ_{CMB}^2	$2288.7 \quad (\nu: 7.1) \quad (+316.5\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2299.69; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 1158.80; R - 1 = 0.00845$$

3.40 base_Alens_CamSpecHM_EE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0236^{+0.0017}_{-0.0016} \quad (+0.1\sigma)$	D_{810}	$2601^{+88}_{-86} \quad (+0.7\sigma)$	$D_M(0.51)$	$1957^{+47}_{-48} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1175^{+0.0039}_{-0.0037} \quad (+0.1\sigma)$	D_{1420}	$842^{+38}_{-35} \quad (+0.4\sigma)$	$H(0.61)$	$96.0^{+1.5}_{-1.3} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0393^{+0.0019}_{-0.0020} \quad (-0.5\sigma)$	D_{2000}	$242^{+15}_{-14} \quad (+0.1\sigma)$	$D_M(0.61)$	$2279^{+52}_{-53} \quad (+0.2\sigma)$
τ	$0.054^{+0.019}_{-0.011} \quad (-0.0\sigma)$	$n_{s,0.002}$	$0.972^{+0.025}_{-0.026} \quad (-0.6\sigma)$	$H(2.33)$	$235.9^{+2.8}_{-2.5} \quad (+0.0\sigma)$
A_L	$1.15^{+0.59}_{-0.53} \quad (-0.4\sigma)$	Y_P	$0.24588^{+0.00068}_{-0.00068} \quad (+0.1\sigma)$	$D_M(2.33)$	$5726^{+70}_{-77} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.066^{+0.050}_{-0.044} \quad (+0.5\sigma)$	Y_P^{BBN}	$0.24721^{+0.00068}_{-0.00068} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.025}_{-0.024} \quad (+0.2\sigma)$
n_s	$0.972^{+0.025}_{-0.026} \quad (-0.6\sigma)$	$10^5 D/H$	$2.38^{+0.29}_{-0.26} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.024}_{-0.019} \quad (+0.2\sigma)$
y_{cal}	$0.99997^{+0.0065}_{-0.0065} \quad (+0.0\sigma)$	Age/Gyr	$13.71^{+0.17}_{-0.18} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.468^{+0.021}_{-0.020} \quad (+0.2\sigma)$
H_0	$68.7^{+2.2}_{-2.1} \quad (-0.2\sigma)$	z_*	$1088.3^{+2.1}_{-2.0} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.020}_{-0.015} \quad (+0.2\sigma)$
Ω_Λ	$0.700^{+0.023}_{-0.024} \quad (-0.2\sigma)$	r_*	$144.2^{+1.3}_{-1.4} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.019}_{-0.018} \quad (+0.2\sigma)$
Ω_m	$0.300^{+0.024}_{-0.023} \quad (+0.2\sigma)$	$100\theta_*$	$1.0394^{+0.0019}_{-0.0021} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.019}_{-0.014} \quad (+0.2\sigma)$
$\Omega_m h^2$	$0.1417^{+0.0038}_{-0.0034} \quad (+0.1\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.87^{+0.13}_{-0.14} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.017}_{-0.016} \quad (+0.2\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0032}_{-0.0030} \quad (-0.1\sigma)$	z_{drag}	$1062.5^{+3.7}_{-3.6} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.017}_{-0.013} \quad (+0.2\sigma)$
σ_8	$0.807^{+0.027}_{-0.022} \quad (+0.2\sigma)$	r_{drag}	$146.4^{+1.8}_{-1.9} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2986^{+0.0082}_{-0.0065} \quad (+0.1\sigma)$
S_8	$0.807^{+0.048}_{-0.046} \quad (+0.2\sigma)$	k_D	$0.1424^{+0.0030}_{-0.0029} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3084^{+0.0086}_{-0.0069} \quad (+0.1\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.026}_{-0.025} \quad (+0.2\sigma)$	$100\theta_D$	$0.1591^{+0.0022}_{-0.0020} \quad (-0.1\sigma)$	χ^2_{small}	$396.5 \quad (\nu: 1.0) \quad (+0.1\sigma)$
$\sigma_8 \Omega_m^{0.25}$	$0.597^{+0.025}_{-0.024} \quad (+0.2\sigma)$	z_{eq}	$3370^{+91}_{-82} \quad (+0.1\sigma)$	$\chi^2_{CamSpec}$	$1891.3 \quad (\nu: 5.1)$
$\sigma_8/h^{0.5}$	$0.973^{+0.037}_{-0.034} \quad (+0.2\sigma)$	k_{eq}	$0.01029^{+0.00028}_{-0.00025} \quad (+0.1\sigma)$	χ^2_{6DF}	$0.055 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$r_{drag} h$	$100.6^{+3.0}_{-2.9} \quad (-0.2\sigma)$	$100\theta_{eq}$	$0.821^{+0.015}_{-0.016} \quad (-0.1\sigma)$	χ^2_{MGS}	$1.85 \quad (\nu: 0.2) \quad (-0.2\sigma)$
$\langle d^2 \rangle^{1/2}$	$2.59^{+0.60}_{-0.67} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	$0.4526^{+0.0079}_{-0.0081} \quad (-0.1\sigma)$	$\chi^2_{DR12BAO}$	$4.6 \quad (\nu: 0.9) \quad (+0.1\sigma)$
z_{re}	$< 9.08 \quad (-0.1\sigma)$	$H(0.15)$	$73.9^{+2.0}_{-1.9} \quad (-0.2\sigma)$	χ^2_{prior}	$11.0 \quad (\nu: 1.0) \quad (+6.7\sigma)$
$10^9 A_s$	$2.15^{+0.11}_{-0.093} \quad (+0.5\sigma)$	$D_M(0.15)$	$632^{+19}_{-19} \quad (+0.2\sigma)$	χ^2_{BAO}	$6.5 \quad (\nu: 0.9) \quad (-0.0\sigma)$
$10^9 A_s e^{-2\tau}$	$1.924^{+0.065}_{-0.063} \quad (+0.8\sigma)$	$H(0.38)$	$83.9^{+1.7}_{-1.6} \quad (-0.2\sigma)$	χ^2_{CMB}	$2287.7 \quad (\nu: 6.1) \quad (+319.3\sigma)$
D_{40}	$1255^{+79}_{-80} \quad (+0.9\sigma)$	$D_M(0.38)$	$1509^{+39}_{-39} \quad (+0.2\sigma)$		
D_{220}	$5988^{+340}_{-350} \quad (+0.7\sigma)$	$H(0.51)$	$90.5^{+1.6}_{-1.4} \quad (-0.2\sigma)$		

$\bar{\chi}^2_{eff} = 2305.22$; $\Delta\bar{\chi}^2_{eff} = 1158.23$; $R - 1 = 0.01446$

3.41 base_Alens_plikHM_TT_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02241	$0.02239^{+0.00072}_{-0.00065}$	S_8	0.766	$0.799^{+0.094}_{-0.081}$	k_{eq}	0.010192	$0.01017^{+0.00042}_{-0.00041}$
$\Omega_c h^2$	0.1173	$0.1171^{+0.0062}_{-0.0061}$	$\sigma_8 \Omega_m^{0.5}$	0.4198	$0.438^{+0.051}_{-0.044}$	$100\theta_{\text{eq}}$	0.8250	$0.826^{+0.028}_{-0.027}$
$100\theta_{\text{MC}}$	1.04120	$1.0412^{+0.0013}_{-0.0013}$	$\sigma_8 \Omega_m^{0.25}$	0.567	$0.592^{+0.060}_{-0.048}$	$100\theta_{\text{s,eq}}$	0.4555	$0.456^{+0.014}_{-0.014}$
τ	0.010	< 0.146	$\sigma_8/h^{0.5}$	0.927	$0.967^{+0.095}_{-0.071}$	$H(0.15)$	73.58	$73.7^{+2.6}_{-2.4}$
A_L	1.168	$1.07^{+0.19}_{-0.20}$	$r_{\text{drag}} h$	101.1	$101.3^{+5.1}_{-4.9}$	$D_M(0.15)$	634.4	634^{+24}_{-24}
$\ln(10^{10} A_s)$	2.948	$3.04^{+0.18}_{-0.11}$	$\langle d^2 \rangle^{1/2}$	2.477	$2.478^{+0.080}_{-0.083}$	$H(0.38)$	83.48	$83.5^{+2.0}_{-1.8}$
n_s	0.9716	$0.972^{+0.019}_{-0.018}$	z_{re}	2.1	$7.4^{+8.0}_{-5.7}$	$D_M(0.38)$	1515.8	1514^{+49}_{-50}
y_{cal}	1.0000	$1.0000^{+0.0065}_{-0.0067}$	$10^9 A_s$	1.908	$2.09^{+0.40}_{-0.22}$	$H(0.51)$	90.07	$90.1^{+1.6}_{-1.4}$
A_{217}^{CIB}	47.3	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8694	$1.867^{+0.037}_{-0.037}$	$D_M(0.51)$	1965	1964^{+57}_{-59}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.48	—	D_{40}	1206.1	1216^{+53}_{-45}	$H(0.61)$	95.60	$95.6^{+1.3}_{-1.1}$
A_{143}^{tSZ}	7.0	—	D_{220}	5724	5722^{+110}_{-110}	$D_M(0.61)$	2289	2287^{+61}_{-64}
A_{100}^{PS}	250	259^{+70}_{-70}	D_{810}	2531.8	2529^{+36}_{-38}	$H(2.33)$	234.86	$234.7^{+3.6}_{-3.5}$
A_{143}^{PS}	48.8	46^{+20}_{-20}	D_{1420}	815.8	815^{+13}_{-13}	$D_M(2.33)$	5752	5751^{+50}_{-56}
$A_{143 \times 217}^{\text{PS}}$	48.9	42^{+20}_{-20}	D_{2000}	230.95	$230.6^{+4.9}_{-4.9}$	$f\sigma_8(0.15)$	0.4250	$0.443^{+0.050}_{-0.043}$
A_{217}^{PS}	119.5	114^{+30}_{-30}	$n_{\text{s},0.002}$	0.9716	$0.972^{+0.019}_{-0.018}$	$\sigma_8(0.15)$	0.710	$0.741^{+0.069}_{-0.045}$
A^{kSZ}	0.0	—	Y_{P}	0.245410	$0.24540^{+0.00030}_{-0.00029}$	$f\sigma_8(0.38)$	0.4448	$0.464^{+0.048}_{-0.039}$
A_{100}^{dustTT}	8.92	$9.0^{+4.7}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.246736	$0.24673^{+0.00031}_{-0.00029}$	$\sigma_8(0.38)$	0.6301	$0.658^{+0.061}_{-0.038}$
A_{143}^{dustTT}	10.82	$10.7^{+4.7}_{-4.6}$	$10^5 \text{D}/\text{H}$	2.579	$2.58^{+0.12}_{-0.13}$	$f\sigma_8(0.51)$	0.4448	$0.464^{+0.046}_{-0.036}$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.5}_{-8.8}$	Age/Gyr	13.774	$13.77^{+0.11}_{-0.12}$	$\sigma_8(0.51)$	0.5902	$0.617^{+0.058}_{-0.035}$
A_{217}^{dustTT}	94.8	94^{+20}_{-20}	z_*	1089.64	$1089.6^{+1.3}_{-1.3}$	$f\sigma_8(0.61)$	0.4410	$0.460^{+0.045}_{-0.033}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	r_*	145.10	$145.2^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.5619	$0.587^{+0.055}_{-0.033}$
c_{217}	0.99822	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04138	$1.0414^{+0.0013}_{-0.0013}$	$f\sigma_8(2.33)$	0.2838	$0.297^{+0.028}_{-0.016}$
H_0	68.42	$68.5^{+3.0}_{-2.8}$	$D_M(z_*)/\text{Gpc}$	13.933	$13.94^{+0.12}_{-0.12}$	$\sigma_8(2.33)$	0.2931	$0.306^{+0.030}_{-0.016}$
Ω_Λ	0.7002	$0.701^{+0.035}_{-0.039}$	z_{drag}	1059.82	$1059.8^{+1.4}_{-1.3}$	χ_{lensing}^2	9.3	$10.1 (\nu: 2.0)$
Ω_m	0.2998	$0.299^{+0.039}_{-0.035}$	r_{drag}	147.76	$147.8^{+1.3}_{-1.3}$	χ_{lowl}^2	21.32	$22.5 (\nu: 1.1)$
$\Omega_m h^2$	0.1404	$0.1401^{+0.0057}_{-0.0057}$	k_{D}	0.14019	$0.1401^{+0.0014}_{-0.0013}$	χ_{plik}^2	757.8	$770.6 (\nu: 15.9)$
$\Omega_m h^3$	0.09605	$0.0960^{+0.0013}_{-0.0012}$	$100\theta_{\text{D}}$	0.16084	$0.16087^{+0.00073}_{-0.00075}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.8)$
σ_8	0.767	$0.801^{+0.079}_{-0.048}$	z_{eq}	3339	3333^{+140}_{-140}	χ_{CMB}^2	788.4	$803.1 (\nu: 16.0)$

Best-fit $\chi_{\text{eff}}^2 = 789.69$; $\bar{\chi}_{\text{eff}}^2 = 810.42$; $R - 1 = 0.00995$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.30 commander_dx12_v3_2_29: 21.32 plik_rd12_HM_v22_TT: 757.80

3.42 base_Alens_plikHM_TT_lowl_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02233^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.970^{+0.088}_{-0.057}$	$D_M(0.38)$	1521^{+26}_{-26}
$\Omega_c h^2$	$0.1179^{+0.0032}_{-0.0033}$	$r_{\text{drag}} h$	$100.6^{+2.6}_{-2.5}$	$H(0.51)$	$89.92^{+0.85}_{-0.81}$
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.476^{+0.080}_{-0.081}$	$D_M(0.51)$	1971^{+31}_{-31}
τ	< 0.135	z_{re}	$7.0^{+7.7}_{-5.4}$	$H(0.61)$	$95.47^{+0.73}_{-0.69}$
A_L	$1.07^{+0.15}_{-0.20}$	$10^9 A_s$	$2.08^{+0.38}_{-0.20}$	$D_M(0.61)$	2295^{+33}_{-34}
$\ln(10^{10} A_s)$	$3.03^{+0.17}_{-0.097}$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.030}_{-0.032}$	$H(2.33)$	$235.1^{+2.0}_{-2.0}$
n_s	$0.970^{+0.012}_{-0.012}$	D_{40}	1219^{+48}_{-37}	$D_M(2.33)$	5758^{+34}_{-35}
y_{cal}	$1.0001^{+0.0065}_{-0.0068}$	D_{220}	5719^{+110}_{-110}	$f\sigma_8(0.15)$	$0.446^{+0.044}_{-0.030}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{810}	2530^{+35}_{-37}	$\sigma_8(0.15)$	$0.741^{+0.066}_{-0.039}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	814^{+13}_{-12}	$f\sigma_8(0.38)$	$0.466^{+0.044}_{-0.028}$
A_{143}^{tSZ}	$5.3^{+4.3}_{-4.7}$	D_{2000}	$230.4^{+4.4}_{-4.5}$	$\sigma_8(0.38)$	$0.658^{+0.058}_{-0.033}$
A_{100}^{PS}	260^{+70}_{-70}	$n_{s,0.002}$	$0.970^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.466^{+0.044}_{-0.026}$
A_{143}^{PS}	47^{+20}_{-20}	Y_P	$0.24538^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	$0.616^{+0.055}_{-0.031}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	Y_P^{BBN}	$0.24670^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.461^{+0.042}_{-0.027}$
A_{217}^{PS}	114^{+30}_{-30}	$10^5 D/H$	$2.59^{+0.10}_{-0.098}$	$\sigma_8(0.61)$	$0.586^{+0.052}_{-0.029}$
A^{kSZ}	—	Age/Gyr	$13.787^{+0.078}_{-0.078}$	$f\sigma_8(2.33)$	$0.296^{+0.026}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	z_*	$1089.79^{+0.82}_{-0.81}$	$\sigma_8(2.33)$	$0.305^{+0.027}_{-0.015}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$145.02^{+0.82}_{-0.80}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.4}_{-9.0}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.927^{+0.079}_{-0.077}$	f_{2000}^{217}	$107.1^{+4.9}_{-4.8}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.7^{+1.2}_{-1.2}$	χ_{lensing}^2	$10.1 (\nu: 1.9)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	$147.71^{+0.87}_{-0.87}$	χ_{lowl}^2	$22.6 (\nu: 0.8)$
H_0	$68.1^{+1.6}_{-1.5}$	k_D	$0.1402^{+0.0012}_{-0.0011}$	χ_{plik}^2	$769.7 (\nu: 13.8)$
Ω_Λ	$0.697^{+0.019}_{-0.020}$	$100\theta_D$	$0.16092^{+0.00071}_{-0.00068}$	$\chi_{6\text{DF}}^2$	$0.043 (\nu: 0.0)$
Ω_m	$0.303^{+0.020}_{-0.019}$	z_{eq}	3350^{+74}_{-75}	χ_{MGS}^2	$1.87 (\nu: 0.2)$
$\Omega_m h^2$	$0.1408^{+0.0031}_{-0.0031}$	k_{eq}	$0.01023^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	$4.06 (\nu: 0.5)$
$\Omega_m h^3$	$0.0960^{+0.0012}_{-0.0011}$	$100\theta_{\text{eq}}$	$0.823^{+0.015}_{-0.014}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.801^{+0.071}_{-0.043}$	$100\theta_{s,\text{eq}}$	$0.4544^{+0.0074}_{-0.0071}$	χ_{CMB}^2	$802.4 (\nu: 14.5)$
S_8	$0.805^{+0.081}_{-0.056}$	$H(0.15)$	$73.3^{+1.4}_{-1.3}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_m^{0.5}$	$0.441^{+0.044}_{-0.031}$	$D_M(0.15)$	637^{+13}_{-13}		
$\sigma_8 \Omega_m^{0.25}$	$0.594^{+0.056}_{-0.035}$	$H(0.38)$	$83.3^{+1.0}_{-0.98}$		

$\bar{\chi}_{\text{eff}}^2 = 815.62$; $R - 1 = 0.01089$

3.43 base_Alens_plikHM_TT_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02241^{+0.00073}_{-0.00066}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.048}_{-0.044}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.014}_{-0.014}$
$\Omega_{\mathrm{c}} h^2$	$0.1167^{+0.0062}_{-0.0060}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.054}_{-0.044}$	$H(0.15)$	$73.8^{+2.6}_{-2.4}$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.987^{+0.085}_{-0.064}$	$D_{\mathrm{M}}(0.15)$	632^{+24}_{-24}
τ	$0.078^{+0.079}_{-0.038}$	$r_{\mathrm{drag}} h$	$101.6^{+5.0}_{-4.9}$	$H(0.38)$	$83.6^{+1.9}_{-1.8}$
A_{L}	$1.03^{+0.17}_{-0.17}$	$\langle d^2 \rangle^{1/2}$	$2.477^{+0.079}_{-0.084}$	$D_{\mathrm{M}}(0.38)$	1512^{+48}_{-49}
$\ln(10^{10} A_{\mathrm{s}})$	$3.08^{+0.15}_{-0.083}$	z_{re}	< 16.0	$H(0.51)$	$90.2^{+1.6}_{-1.4}$
n_{s}	$0.973^{+0.019}_{-0.018}$	$10^9 A_{\mathrm{s}}$	$2.18^{+0.36}_{-0.18}$	$D_{\mathrm{M}}(0.51)$	1961^{+57}_{-57}
y_{cal}	$1.0000^{+0.0064}_{-0.0067}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.865^{+0.037}_{-0.036}$	$H(0.61)$	$95.7^{+1.3}_{-1.1}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{40}	1220^{+54}_{-46}	$D_{\mathrm{M}}(0.61)$	2284^{+61}_{-62}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5720^{+110}_{-110}	$H(2.33)$	$234.5^{+3.6}_{-3.4}$
A_{143}^{tSZ}	$5.3^{+4.3}_{-4.8}$	D_{810}	2528^{+36}_{-37}	$D_{\mathrm{M}}(2.33)$	5749^{+50}_{-57}
A_{100}^{PS}	258^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.15)$	$0.451^{+0.047}_{-0.042}$
A_{143}^{PS}	45^{+20}_{-20}	D_{2000}	$230.8^{+4.9}_{-4.9}$	$\sigma_8(0.15)$	$0.757^{+0.059}_{-0.038}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.973^{+0.019}_{-0.018}$	$f\sigma_8(0.38)$	$0.473^{+0.044}_{-0.036}$
A_{217}^{PS}	114^{+30}_{-30}	Y_{P}	$0.24541^{+0.00031}_{-0.00030}$	$\sigma_8(0.38)$	$0.673^{+0.053}_{-0.032}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00031}_{-0.00030}$	$f\sigma_8(0.51)$	$0.473^{+0.042}_{-0.033}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.6}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	$0.630^{+0.050}_{-0.029}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.8}_{-4.5}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.11}_{-0.12}$	$f\sigma_8(0.61)$	$0.469^{+0.040}_{-0.030}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.5}$	z_*	$1089.6^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	$0.600^{+0.048}_{-0.027}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	r_*	$145.3^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	$0.303^{+0.024}_{-0.013}$
c_{100}	$0.9996^{+0.0017}_{-0.0016}$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	$0.313^{+0.026}_{-0.013}$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.12}_{-0.12}$	f_{2000}^{143}	29^{+8}_{-8}
H_0	$68.7^{+2.9}_{-2.8}$	z_{drag}	$1059.8^{+1.4}_{-1.3}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
Ω_{Λ}	$0.703^{+0.035}_{-0.038}$	r_{drag}	$147.9^{+1.2}_{-1.3}$	f_{2000}^{217}	$106.6^{+5.4}_{-5.4}$
Ω_{m}	$0.297^{+0.038}_{-0.035}$	k_{D}	$0.1400^{+0.0014}_{-0.0013}$	$\chi_{\mathrm{lensing}}^2$	$10.0 (\nu: 2.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1398^{+0.0058}_{-0.0055}$	$100\theta_{\mathrm{D}}$	$0.16086^{+0.00076}_{-0.00075}$	χ_{lowl}^2	$22.9 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0011}$	z_{eq}	3325^{+140}_{-130}	χ_{plik}^2	$770.8 (\nu: 16.4)$
σ_8	$0.818^{+0.068}_{-0.041}$	k_{eq}	$0.01015^{+0.00042}_{-0.00040}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.813^{+0.087}_{-0.080}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.027}_{-0.027}$	χ_{CMB}^2	$803.8 (\nu: 16.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 811.07; R - 1 = 0.01320$$

3.44 base_Alens_plikHM_TT_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02233^{+0.00056}_{-0.00056}$	$\sigma_8/h^{0.5}$	$0.992^{+0.073}_{-0.049}$	$D_M(0.38)$	1520^{+27}_{-26}
$\Omega_c h^2$	$0.1177^{+0.0033}_{-0.0033}$	$r_{\text{drag}} h$	$100.7^{+2.6}_{-2.6}$	$H(0.51)$	$89.94^{+0.85}_{-0.83}$
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.475^{+0.078}_{-0.090}$	$D_M(0.51)$	1970^{+32}_{-31}
τ	$0.074^{+0.069}_{-0.035}$	z_{re}	< 15.1	$H(0.61)$	$95.49^{+0.72}_{-0.70}$
A_L	$1.02^{+0.13}_{-0.16}$	$10^9 A_s$	$2.17^{+0.32}_{-0.16}$	$D_M(0.61)$	2294^{+35}_{-33}
$\ln(10^{10} A_s)$	$3.08^{+0.14}_{-0.076}$	$10^9 A_s e^{-2\tau}$	$1.870^{+0.031}_{-0.031}$	$H(2.33)$	$235.0^{+2.0}_{-2.0}$
n_s	$0.970^{+0.012}_{-0.012}$	D_{40}	1224^{+50}_{-39}	$D_M(2.33)$	5757^{+34}_{-35}
y_{cal}	$1.0001^{+0.0065}_{-0.0068}$	D_{220}	5716^{+100}_{-110}	$f\sigma_8(0.15)$	$0.456^{+0.039}_{-0.027}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{810}	2530^{+35}_{-37}	$\sigma_8(0.15)$	$0.758^{+0.054}_{-0.032}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+12}_{-13}	$f\sigma_8(0.38)$	$0.476^{+0.039}_{-0.024}$
A_{143}^{tSZ}	$5.3^{+4.4}_{-4.7}$	D_{2000}	$230.4^{+4.4}_{-4.6}$	$\sigma_8(0.38)$	$0.673^{+0.048}_{-0.027}$
A_{100}^{PS}	259^{+80}_{-70}	$n_{s,0.002}$	$0.970^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.476^{+0.035}_{-0.024}$
A_{143}^{PS}	46^{+20}_{-20}	Y_P	$0.24538^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	$0.630^{+0.045}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	Y_P^{BBN}	$0.24670^{+0.00022}_{-0.00026}$	$f\sigma_8(0.61)$	$0.472^{+0.035}_{-0.023}$
A_{217}^{PS}	114^{+30}_{-30}	10^5D/H	$2.59^{+0.11}_{-0.10}$	$\sigma_8(0.61)$	$0.600^{+0.043}_{-0.024}$
A^{kSZ}	—	Age/Gyr	$13.786^{+0.079}_{-0.080}$	$f\sigma_8(2.33)$	$0.303^{+0.022}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.9}_{-4.5}$	z_*	$1089.77^{+0.84}_{-0.81}$	$\sigma_8(2.33)$	$0.312^{+0.023}_{-0.012}$
A_{143}^{dustTT}	$10.8^{+4.5}_{-4.4}$	r_*	$145.05^{+0.83}_{-0.82}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.2}_{-8.2}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.930^{+0.081}_{-0.080}$	f_{2000}^{217}	$107.0^{+5.2}_{-4.8}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.7^{+1.2}_{-1.2}$	χ_{lensing}^2	$10.1 (\nu: 1.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	r_{drag}	$147.74^{+0.90}_{-0.89}$	χ_{lowl}^2	$23.2 (\nu: 1.0)$
H_0	$68.2^{+1.5}_{-1.6}$	k_D	$0.1402^{+0.0012}_{-0.0011}$	χ_{plik}^2	$769.8 (\nu: 14.5)$
Ω_Λ	$0.697^{+0.019}_{-0.021}$	$100\theta_D$	$0.16092^{+0.00079}_{-0.00068}$	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0)$
Ω_m	$0.303^{+0.021}_{-0.019}$	z_{eq}	3347^{+76}_{-74}	χ_{MGS}^2	$1.93 (\nu: 0.2)$
$\Omega_m h^2$	$0.1407^{+0.0032}_{-0.0031}$	k_{eq}	$0.01022^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	$4.05 (\nu: 0.5)$
$\Omega_m h^3$	$0.0959^{+0.0012}_{-0.0012}$	$100\theta_{\text{eq}}$	$0.823^{+0.014}_{-0.014}$	χ_{prior}^2	$7.3 (\nu: 7.1)$
σ_8	$0.819^{+0.059}_{-0.035}$	$100\theta_{s,\text{eq}}$	$0.4546^{+0.0074}_{-0.0073}$	χ_{CMB}^2	$803.1 (\nu: 15.0)$
S_8	$0.823^{+0.072}_{-0.050}$	$H(0.15)$	$73.4^{+1.3}_{-1.4}$	χ_{BAO}^2	$6.0 (\nu: 0.7)$
$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.039}_{-0.027}$	$D_M(0.15)$	636^{+13}_{-13}		
$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.046}_{-0.032}$	$H(0.38)$	$83.3^{+1.0}_{-1.0}$		

$$\bar{\chi}_{\text{eff}}^2 = 816.39; R - 1 = 0.01678$$

3.45 base_Alens_plikHM_TTTEE_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022527	$0.02251^{+0.00043}_{-0.00042}$	Ω_m	0.3046	$0.305^{+0.025}_{-0.023}$	$100\theta_D$	0.160625	$0.16065^{+0.00047}_{-0.00046}$
$\Omega_c h^2$	0.11828	$0.1183^{+0.0040}_{-0.0039}$	$\Omega_m h^2$	0.14146	$0.1414^{+0.0038}_{-0.0037}$	z_{eq}	3365	3365^{+92}_{-87}
$100\theta_{MC}$	1.04109	$1.04109^{+0.00078}_{-0.00082}$	$\Omega_m h^3$	0.09640	$0.09636^{+0.00076}_{-0.00082}$	k_{eq}	0.010270	$0.01027^{+0.00028}_{-0.00027}$
τ	0.010	< 0.137	σ_8	0.770	$0.803^{+0.072}_{-0.045}$	$100\theta_{eq}$	0.8206	$0.821^{+0.017}_{-0.017}$
A_L	1.159	$1.07^{+0.16}_{-0.20}$	S_8	0.776	$0.809^{+0.087}_{-0.061}$	$100\theta_{s,eq}$	0.4531	$0.4531^{+0.0088}_{-0.0088}$
$\ln(10^{10} A_s)$	2.951	$3.03^{+0.17}_{-0.10}$	$\sigma_8 \Omega_m^{0.5}$	0.4249	$0.443^{+0.048}_{-0.033}$	$H(0.15)$	73.36	$73.3^{+1.6}_{-1.5}$
n_s	0.9703	$0.970^{+0.014}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	0.5719	$0.596^{+0.060}_{-0.037}$	$D_M(0.15)$	636.7	637^{+15}_{-15}
y_{cal}	0.9999	$0.99995^{+0.0063}_{-0.0064}$	$\sigma_8/h^{0.5}$	0.932	$0.973^{+0.090}_{-0.062}$	$H(0.38)$	83.36	$83.3^{+1.2}_{-1.1}$
A_{217}^{CIB}	45.6	46^{+20}_{-20}	$r_{drag} h$	100.43	$100.4^{+3.2}_{-3.1}$	$D_M(0.38)$	1520.1	1520^{+30}_{-30}
$\xi^{tSZ \times CIB}$	0.65	—	$\langle d^2 \rangle^{1/2}$	2.482	$2.483^{+0.080}_{-0.080}$	$H(0.51)$	90.01	$90.00^{+0.93}_{-0.86}$
A_{143}^{tSZ}	7.18	> 0.862	z_{re}	2.1	$7.1^{+7.8}_{-5.5}$	$D_M(0.51)$	1970.2	1971^{+35}_{-36}
A_{100}^{PS}	246	255^{+70}_{-70}	$10^9 A_s$	1.912	$2.08^{+0.38}_{-0.20}$	$H(0.61)$	95.58	$95.57^{+0.76}_{-0.68}$
A_{143}^{PS}	48.6	44^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8740	$1.873^{+0.032}_{-0.031}$	$D_M(0.61)$	2293.5	2294^{+38}_{-39}
$A_{143 \times 217}^{PS}$	51.7	41^{+20}_{-20}	D_{40}	1210.1	1221^{+47}_{-37}	$H(2.33)$	235.60	$235.6^{+2.4}_{-2.3}$
A_{217}^{PS}	121.1	115^{+30}_{-30}	D_{220}	5731	5731^{+100}_{-98}	$D_M(2.33)$	5750.7	5751^{+31}_{-33}
A^{kSZ}	0.0	—	D_{810}	2534.3	2532^{+34}_{-34}	$f\sigma_8(0.15)$	0.4297	$0.448^{+0.047}_{-0.033}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.8}$	D_{1420}	817.2	816^{+12}_{-12}	$\sigma_8(0.15)$	0.712	$0.742^{+0.066}_{-0.041}$
A_{143}^{dustTT}	11.02	$10.9^{+4.6}_{-4.5}$	D_{2000}	231.62	$231.3^{+3.9}_{-3.8}$	$f\sigma_8(0.38)$	0.4486	$0.468^{+0.048}_{-0.030}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.5^{+8.2}_{-8.4}$	$n_{s,0.002}$	0.9703	$0.970^{+0.014}_{-0.013}$	$\sigma_8(0.38)$	0.6318	$0.659^{+0.059}_{-0.035}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	Y_P	0.245454	$0.24545^{+0.00017}_{-0.00017}$	$f\sigma_8(0.51)$	0.4481	$0.467^{+0.044}_{-0.031}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.094}$	Y_P^{BBN}	0.246781	$0.24677^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	0.5916	$0.617^{+0.055}_{-0.032}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.075}_{-0.077}$	$10^5 D/H$	2.557	$2.561^{+0.078}_{-0.077}$	$f\sigma_8(0.61)$	0.4439	$0.463^{+0.043}_{-0.029}$
$A_{100 \times 217}^{dustTE}$	0.483	$0.48^{+0.22}_{-0.21}$	Age/Gyr	13.769	$13.771^{+0.068}_{-0.071}$	$\sigma_8(0.61)$	0.5631	$0.587^{+0.052}_{-0.030}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.15}$	z_*	1089.57	$1089.60^{+0.81}_{-0.79}$	$f\sigma_8(2.33)$	0.2842	$0.296^{+0.027}_{-0.015}$
$A_{143 \times 217}^{dustTE}$	0.660	$0.66^{+0.21}_{-0.20}$	r_*	144.76	$144.77^{+0.83}_{-0.89}$	$\sigma_8(2.33)$	0.2933	$0.306^{+0.028}_{-0.015}$
A_{217}^{dustTE}	2.06	$2.07^{+0.69}_{-0.69}$	$100\theta_*$	1.04126	$1.04126^{+0.00077}_{-0.00081}$	$\chi^2_{lensing}$	9.96	$10.6 (\nu: 2.7)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.902	$13.904^{+0.077}_{-0.082}$	χ^2_{lowl}	21.55	$22.8 (\nu: 0.9)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1060.16	$1060.13^{+0.84}_{-0.81}$	χ^2_{plik}	2341.8	$2357.0 (\nu: 17.6)$
H_0	68.15	$68.1^{+1.8}_{-1.8}$	r_{drag}	147.37	$147.40^{+0.81}_{-0.86}$	χ^2_{prior}	1.7	$11.5 (\nu: 9.8)$
Ω_Λ	0.6954	$0.695^{+0.023}_{-0.025}$	k_D	0.14069	$0.14065^{+0.00087}_{-0.00083}$	χ^2_{CMB}	2373.3	$2390.4 (\nu: 17.6)$

Best-fit $\chi^2_{eff} = 2375.01$; $\bar{\chi}^2_{eff} = 2401.86$; $R - 1 = 0.02631$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.96 commander_dx12_v3_2_29: 21.55 plik_rd12_HM_v22b_TTTEE: 2341.84

3.46 base_Alens_plikHM_TTTEEE_lowl_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00037}_{-0.00035}$	σ_8	$0.802^{+0.071}_{-0.042}$	$D_M(0.15)$	637^{+11}_{-11}
$\Omega_c h^2$	$0.1183^{+0.0028}_{-0.0028}$	S_8	$0.809^{+0.080}_{-0.053}$	$H(0.38)$	$83.34^{+0.83}_{-0.79}$
$100\theta_{MC}$	$1.04109^{+0.00076}_{-0.00081}$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.044}_{-0.029}$	$D_M(0.38)$	1520^{+21}_{-22}
τ	< 0.137	$\sigma_8 \Omega_m^{0.25}$	$0.596^{+0.054}_{-0.036}$	$H(0.51)$	$90.00^{+0.67}_{-0.63}$
A_L	$1.07^{+0.15}_{-0.19}$	$\sigma_8/h^{0.5}$	$0.972^{+0.088}_{-0.056}$	$D_M(0.51)$	1971^{+25}_{-25}
$\ln(10^{10} A_s)$	$3.03^{+0.17}_{-0.099}$	$r_{\text{drag}} h$	$100.4^{+2.2}_{-2.1}$	$H(0.61)$	$95.57^{+0.54}_{-0.52}$
n_s	$0.970^{+0.011}_{-0.0098}$	$\langle d^2 \rangle^{1/2}$	$2.483^{+0.083}_{-0.080}$	$D_M(0.61)$	2294^{+27}_{-27}
y_{cal}	$0.99996^{+0.0063}_{-0.0063}$	z_{re}	$7.1^{+7.7}_{-5.6}$	$H(2.33)$	$235.6^{+1.7}_{-1.7}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.08^{+0.38}_{-0.20}$	$D_M(2.33)$	5751^{+24}_{-24}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.873^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	$0.448^{+0.044}_{-0.028}$
A_{143}^{tSZ}	> 0.862	D_{40}	1221^{+46}_{-34}	$\sigma_8(0.15)$	$0.742^{+0.065}_{-0.038}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5731^{+100}_{-96}	$f\sigma_8(0.38)$	$0.468^{+0.043}_{-0.029}$
A_{143}^{PS}	44^{+20}_{-20}	D_{810}	2532^{+32}_{-33}	$\sigma_8(0.38)$	$0.659^{+0.058}_{-0.033}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	816^{+11}_{-11}	$f\sigma_8(0.51)$	$0.467^{+0.042}_{-0.028}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.3^{+3.7}_{-3.7}$	$\sigma_8(0.51)$	$0.617^{+0.054}_{-0.031}$
A^{kSZ}	—	$n_{s,0.002}$	$0.970^{+0.011}_{-0.0098}$	$f\sigma_8(0.61)$	$0.463^{+0.041}_{-0.027}$
A_{100}^{dustTT}	$9.0^{+4.8}_{-5.0}$	Y_P	$0.24545^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.587^{+0.052}_{-0.029}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.3}$	Y_P^{BBN}	$0.24677^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	$0.296^{+0.026}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.9}$	10^5D/H	$2.561^{+0.066}_{-0.066}$	$\sigma_8(2.33)$	$0.306^{+0.027}_{-0.015}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.771^{+0.055}_{-0.054}$	f_{2000}^{143}	28^{+7}_{-7}
A_{100}^{dustTE}	$0.113^{+0.10}_{-0.094}$	z_*	$1089.60^{+0.61}_{-0.61}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.072}_{-0.083}$	r_*	$144.77^{+0.63}_{-0.63}$	f_{2000}^{217}	$106.1^{+4.7}_{-4.7}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04126^{+0.00075}_{-0.00080}$	χ_{lensing}^2	$10.6 (\nu: 2.7)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.904^{+0.060}_{-0.060}$	χ_{lowl}^2	$22.7 (\nu: 0.8)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{drag}	$1060.13^{+0.80}_{-0.76}$	χ_{plik}^2	$2356.4 (\nu: 16.6)$
A_{217}^{dustTE}	$2.06^{+0.72}_{-0.68}$	r_{drag}	$147.40^{+0.64}_{-0.65}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14065^{+0.00074}_{-0.00074}$	χ_{MGS}^2	$1.72 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16066^{+0.00043}_{-0.00044}$	χ_{DR12BAO}^2	$4.00 (\nu: 0.3)$
H_0	$68.1^{+1.3}_{-1.2}$	z_{eq}	3364^{+62}_{-62}	χ_{prior}^2	$11.5 (\nu: 9.6)$
Ω_Λ	$0.695^{+0.016}_{-0.017}$	k_{eq}	$0.01027^{+0.00019}_{-0.00019}$	χ_{CMB}^2	$2389.8 (\nu: 16.3)$
Ω_m	$0.305^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012}$	χ_{BAO}^2	$5.75 (\nu: 0.3)$
$\Omega_m h^2$	$0.1414^{+0.0026}_{-0.0026}$	$100\theta_{s,\text{eq}}$	$0.4531^{+0.0062}_{-0.0060}$		
$\Omega_m h^3$	$0.09636^{+0.00075}_{-0.00083}$	$H(0.15)$	$73.3^{+1.1}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2406.97; R - 1 = 0.02917$$

3.47 base_Alens_plikHM_TTTEE_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00044}_{-0.00041}$	$\Omega_m h^2$	$0.1413^{+0.0037}_{-0.0037}$	k_{eq}	$0.01026^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	$0.1181^{+0.0039}_{-0.0040}$	$\Omega_m h^3$	$0.09634^{+0.00075}_{-0.00080}$	$100\theta_{\text{eq}}$	$0.821^{+0.018}_{-0.016}$
$100\theta_{\text{MC}}$	$1.04110^{+0.00076}_{-0.00082}$	σ_8	$0.821^{+0.063}_{-0.039}$	$100\theta_{\text{s,eq}}$	$0.4535^{+0.0090}_{-0.0084}$
τ	$0.075^{+0.071}_{-0.036}$	S_8	$0.826^{+0.080}_{-0.062}$	$H(0.15)$	$73.4^{+1.6}_{-1.4}$
A_L	$1.02^{+0.14}_{-0.17}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.044}_{-0.034}$	$D_M(0.15)$	636^{+14}_{-15}
$\ln(10^{10} A_s)$	$3.08^{+0.14}_{-0.078}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.054}_{-0.035}$	$H(0.38)$	$83.4^{+1.2}_{-1.0}$
n_s	$0.970^{+0.014}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.994^{+0.086}_{-0.053}$	$D_M(0.38)$	1519^{+29}_{-31}
y_{cal}	$0.99996^{+0.0063}_{-0.0065}$	$r_{\text{drag}} h$	$100.5^{+3.2}_{-3.0}$	$H(0.51)$	$90.02^{+0.94}_{-0.82}$
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.482^{+0.080}_{-0.078}$	$D_M(0.51)$	1969^{+34}_{-36}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 15.3	$H(0.61)$	$95.59^{+0.75}_{-0.66}$
A_{143}^{tSZ}	> 0.865	$10^9 A_s$	$2.18^{+0.33}_{-0.17}$	$D_M(0.61)$	2293^{+36}_{-39}
A_{100}^{PS}	255^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.872^{+0.034}_{-0.032}$	$H(2.33)$	$235.5^{+2.4}_{-2.3}$
A_{143}^{PS}	44^{+20}_{-20}	D_{40}	1226^{+45}_{-39}	$D_M(2.33)$	5751^{+30}_{-33}
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	D_{220}	5729^{+100}_{-100}	$f\sigma_8(0.15)$	$0.458^{+0.043}_{-0.032}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2532^{+35}_{-35}	$\sigma_8(0.15)$	$0.759^{+0.057}_{-0.035}$
A^{kSZ}	—	D_{1420}	816^{+12}_{-12}	$f\sigma_8(0.38)$	$0.478^{+0.043}_{-0.028}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	D_{2000}	$231.4^{+3.9}_{-3.8}$	$\sigma_8(0.38)$	$0.674^{+0.051}_{-0.029}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.4}$	$n_{\text{s},0.002}$	$0.970^{+0.014}_{-0.013}$	$f\sigma_8(0.51)$	$0.477^{+0.042}_{-0.026}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.3}_{-8.5}$	Y_{P}	$0.24545^{+0.00018}_{-0.00016}$	$\sigma_8(0.51)$	$0.631^{+0.047}_{-0.027}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00018}_{-0.00016}$	$f\sigma_8(0.61)$	$0.473^{+0.041}_{-0.025}$
A_{100}^{dustTE}	$0.113^{+0.098}_{-0.095}$	$10^5 \text{D}/\text{H}$	$2.560^{+0.077}_{-0.079}$	$\sigma_8(0.61)$	$0.601^{+0.045}_{-0.025}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.074}_{-0.077}$	Age/Gyr	$13.770^{+0.068}_{-0.071}$	$f\sigma_8(2.33)$	$0.303^{+0.023}_{-0.012}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	z_*	$1089.58^{+0.76}_{-0.81}$	$\sigma_8(2.33)$	$0.313^{+0.024}_{-0.012}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	r_*	$144.81^{+0.85}_{-0.88}$	f_{2000}^{143}	28^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$100\theta_*$	$1.04127^{+0.00075}_{-0.00080}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{217}^{dustTE}	$2.06^{+0.69}_{-0.69}$	$D_M(z_*)/\text{Gpc}$	$13.907^{+0.077}_{-0.082}$	f_{2000}^{217}	$106.0^{+4.9}_{-4.9}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.13^{+0.84}_{-0.81}$	χ_{lensing}^2	$10.6 (\nu: 2.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	$147.43^{+0.81}_{-0.86}$	χ_{lowl}^2	$23.3 (\nu: 1.1)$
H_0	$68.2^{+1.8}_{-1.7}$	k_{D}	$0.14062^{+0.00087}_{-0.00083}$	χ_{plik}^2	$2356.9 (\nu: 18.0)$
Ω_Λ	$0.696^{+0.024}_{-0.024}$	$100\theta_{\text{D}}$	$0.16065^{+0.00047}_{-0.00047}$	χ_{prior}^2	$11.5 (\nu: 9.9)$
Ω_{m}	$0.304^{+0.024}_{-0.024}$	z_{eq}	3361^{+88}_{-88}	χ_{CMB}^2	$2390.9 (\nu: 17.5)$

$$\bar{\chi}_{\text{eff}}^2 = 2402.39; R - 1 = 0.02911$$

3.48 base_Alens_plikHM_TTTEEE_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00037}_{-0.00036}$	σ_8	$0.820^{+0.060}_{-0.035}$	$D_M(0.15)$	637^{+11}_{-11}
$\Omega_c h^2$	$0.1182^{+0.0028}_{-0.0028}$	S_8	$0.826^{+0.070}_{-0.049}$	$H(0.38)$	$83.36^{+0.83}_{-0.81}$
$100\theta_{MC}$	$1.04110^{+0.00075}_{-0.00081}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.038}_{-0.027}$	$D_M(0.38)$	1520^{+22}_{-21}
τ	$0.074^{+0.070}_{-0.035}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.051}_{-0.029}$	$H(0.51)$	$90.01^{+0.66}_{-0.64}$
A_L	$1.02^{+0.13}_{-0.17}$	$\sigma_8/h^{0.5}$	$0.994^{+0.075}_{-0.048}$	$D_M(0.51)$	1970^{+25}_{-25}
$\ln(10^{10} A_s)$	$3.08^{+0.14}_{-0.077}$	$r_{\text{drag}} h$	$100.5^{+2.2}_{-2.1}$	$H(0.61)$	$95.57^{+0.55}_{-0.52}$
n_s	$0.970^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.482^{+0.081}_{-0.076}$	$D_M(0.61)$	2293^{+27}_{-28}
y_{cal}	$0.99997^{+0.0064}_{-0.0065}$	z_{re}	< 15.1	$H(2.33)$	$235.5^{+1.7}_{-1.7}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.17^{+0.32}_{-0.17}$	$D_M(2.33)$	5751^{+24}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.872^{+0.027}_{-0.029}$	$f\sigma_8(0.15)$	$0.458^{+0.038}_{-0.026}$
A_{143}^{tSZ}	> 0.830	D_{40}	1226^{+43}_{-38}	$\sigma_8(0.15)$	$0.759^{+0.055}_{-0.032}$
A_{100}^{PS}	255^{+70}_{-70}	D_{220}	5729^{+100}_{-100}	$f\sigma_8(0.38)$	$0.478^{+0.040}_{-0.024}$
A_{143}^{PS}	44^{+20}_{-20}	D_{810}	2532^{+32}_{-34}	$\sigma_8(0.38)$	$0.673^{+0.049}_{-0.027}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	816^{+11}_{-11}	$f\sigma_8(0.51)$	$0.477^{+0.040}_{-0.022}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+3.6}_{-3.6}$	$\sigma_8(0.51)$	$0.631^{+0.045}_{-0.025}$
A^{kSZ}	—	$n_{s,0.002}$	$0.970^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	$0.473^{+0.035}_{-0.023}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-5.0}$	Y_P	$0.24545^{+0.00015}_{-0.00014}$	$\sigma_8(0.61)$	$0.600^{+0.043}_{-0.024}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.2}$	Y_P^{BBN}	$0.24677^{+0.00015}_{-0.00014}$	$f\sigma_8(2.33)$	$0.303^{+0.022}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+9.3}_{-8.9}$	10^5D/H	$2.561^{+0.067}_{-0.067}$	$\sigma_8(2.33)$	$0.313^{+0.023}_{-0.012}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.771^{+0.055}_{-0.056}$	f_{2000}^{143}	28^{+7}_{-7}
A_{100}^{dustTE}	$0.112^{+0.098}_{-0.092}$	z_*	$1089.59^{+0.61}_{-0.61}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.072}_{-0.086}$	r_*	$144.79^{+0.63}_{-0.64}$	f_{2000}^{217}	$106.0^{+4.8}_{-4.3}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04127^{+0.00074}_{-0.00080}$	χ_{lensing}^2	$10.6 (\nu: 2.7)$
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.15}$	$D_M(z_*)/\text{Gpc}$	$13.905^{+0.060}_{-0.061}$	χ_{lowl}^2	$23.3 (\nu: 0.9)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{drag}	$1060.12^{+0.80}_{-0.76}$	χ_{plik}^2	$2356.3 (\nu: 16.3)$
A_{217}^{dustTE}	$2.06^{+0.69}_{-0.67}$	r_{drag}	$147.42^{+0.63}_{-0.67}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0017}$	k_D	$0.14063^{+0.00075}_{-0.00072}$	χ_{MGS}^2	$1.76 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16066^{+0.00043}_{-0.00045}$	χ_{DR12BAO}^2	$3.97 (\nu: 0.3)$
H_0	$68.2^{+1.3}_{-1.3}$	z_{eq}	3363^{+63}_{-62}	χ_{prior}^2	$11.5 (\nu: 9.5)$
Ω_Λ	$0.696^{+0.016}_{-0.017}$	k_{eq}	$0.01026^{+0.00019}_{-0.00019}$	χ_{CMB}^2	$2390.2 (\nu: 16.1)$
Ω_m	$0.304^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012}$	χ_{BAO}^2	$5.76 (\nu: 0.3)$
$\Omega_m h^2$	$0.1414^{+0.0026}_{-0.0026}$	$100\theta_{s,\text{eq}}$	$0.4533^{+0.0062}_{-0.0061}$		
$\Omega_m h^3$	$0.09635^{+0.00075}_{-0.00082}$	$H(0.15)$	$73.4^{+1.1}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2407.51; R - 1 = 0.04162$$

3.49 base_Alens_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02243	$0.02239^{+0.00065}_{-0.00066}$	$\sigma_8 \Omega_m^{0.25}$	0.5884	$0.589^{+0.036}_{-0.035}$	$D_M(0.15)$	632.9	634^{+24}_{-23}
$\Omega_c h^2$	0.1169	$0.1172^{+0.0062}_{-0.0060}$	$\sigma_8/h^{0.5}$	0.9620	$0.963^{+0.049}_{-0.049}$	$H(0.38)$	83.59	$83.5^{+1.9}_{-1.7}$
$100\theta_{MC}$	1.04121	$1.0412^{+0.0013}_{-0.0013}$	$r_{drag}h$	101.43	$101.2^{+5.0}_{-4.8}$	$D_M(0.38)$	1512.8	1515^{+48}_{-48}
τ	0.0509	$0.050^{+0.021}_{-0.026}$	$\langle d^2 \rangle^{1/2}$	2.477	$2.479^{+0.076}_{-0.080}$	$H(0.51)$	90.16	$90.1^{+1.5}_{-1.4}$
A_L	1.084	$1.08^{+0.14}_{-0.13}$	z_{re}	7.27	$7.1^{+2.0}_{-3.0}$	$D_M(0.51)$	1962	1965^{+56}_{-56}
$\ln(10^{10} A_s)$	3.0285	$3.027^{+0.044}_{-0.052}$	$10^9 A_s$	2.067	$2.063^{+0.093}_{-0.10}$	$H(0.61)$	95.66	$95.6^{+1.3}_{-1.1}$
n_s	0.9733	$0.971^{+0.017}_{-0.017}$	$10^9 A_s e^{-2\tau}$	1.8666	$1.868^{+0.038}_{-0.037}$	$D_M(0.61)$	2285	2288^{+60}_{-61}
y_{cal}	0.9998	$1.0001^{+0.0065}_{-0.0064}$	D_{40}	1208.2	1214^{+45}_{-42}	$H(2.33)$	234.60	$234.8^{+3.6}_{-3.5}$
A_{217}^{CIB}	46.7	47^{+20}_{-20}	D_{220}	5719	5725^{+110}_{-110}	$D_M(2.33)$	5750	5752^{+50}_{-54}
$\xi^{tSZ \times CIB}$	0.54	—	D_{810}	2530.3	2530^{+37}_{-37}	$f\sigma_8(0.15)$	0.4401	$0.441^{+0.037}_{-0.036}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.9	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7377	$0.737^{+0.022}_{-0.023}$
A_{100}^{PS}	249	260^{+70}_{-70}	D_{2000}	231.12	$230.5^{+4.9}_{-4.8}$	$f\sigma_8(0.38)$	0.4613	$0.462^{+0.029}_{-0.029}$
A_{143}^{PS}	48.8	46^{+20}_{-20}	$n_{s,0.002}$	0.9733	$0.971^{+0.017}_{-0.017}$	$\sigma_8(0.38)$	0.6554	$0.655^{+0.017}_{-0.019}$
$A_{143 \times 217}^{PS}$	50.1	42^{+20}_{-20}	Y_P	0.245419	$0.24540^{+0.00027}_{-0.00030}$	$f\sigma_8(0.51)$	0.4615	$0.462^{+0.025}_{-0.026}$
A_{217}^{PS}	120.0	114^{+30}_{-30}	Y_P^{BBN}	0.246746	$0.24672^{+0.00027}_{-0.00030}$	$\sigma_8(0.51)$	0.6140	$0.613^{+0.015}_{-0.017}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.574	$2.58^{+0.13}_{-0.12}$	$f\sigma_8(0.61)$	0.4578	$0.458^{+0.023}_{-0.023}$
A_{100}^{dustTT}	8.94	$9.0^{+4.8}_{-4.7}$	Age/Gyr	13.769	$13.77^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	0.5847	$0.584^{+0.014}_{-0.016}$
A_{143}^{dustTT}	10.81	$10.8^{+4.5}_{-4.5}$	z_*	1089.57	$1089.7^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	0.2954	$0.2949^{+0.0068}_{-0.0077}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.4}_{-8.6}$	r_*	145.19	$145.1^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	0.3051	$0.3046^{+0.0069}_{-0.0080}$
A_{217}^{dustTT}	94.9	93^{+20}_{-20}	$100\theta_*$	1.04140	$1.0414^{+0.0013}_{-0.0013}$	f_{2000}^{143}	28.4	30^{+8}_{-8}
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.942	$13.94^{+0.12}_{-0.12}$	$f_{2000}^{143 \times 217}$	31.8	32^{+5}_{-5}
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.86	$1059.8^{+1.3}_{-1.3}$	f_{2000}^{217}	106.2	$106.9^{+5.2}_{-5.1}$
H_0	68.61	$68.5^{+2.9}_{-2.8}$	r_{drag}	147.85	$147.8^{+1.3}_{-1.3}$	$\chi^2_{lensing}$	9.31	$10.1 (\nu: 2.0)$
Ω_Λ	0.7026	$0.700^{+0.034}_{-0.038}$	k_D	0.14011	$0.1401^{+0.0013}_{-0.0013}$	χ^2_{small}	395.67	$396.8 (\nu: 1.2)$
Ω_m	0.2974	$0.300^{+0.038}_{-0.034}$	$100\theta_D$	0.16082	$0.16087^{+0.00074}_{-0.00068}$	χ^2_{lowl}	21.74	$22.2 (\nu: 0.7)$
$\Omega_m h^2$	0.1400	$0.1402^{+0.0058}_{-0.0056}$	z_{eq}	3329	3336^{+140}_{-130}	χ^2_{plik}	757.8	$770.4 (\nu: 15.4)$
$\Omega_m h^3$	0.09603	$0.0960^{+0.0011}_{-0.0012}$	k_{eq}	0.010162	$0.01018^{+0.00042}_{-0.00041}$	χ^2_{prior}	1.3	$7.3 (\nu: 6.8)$
σ_8	0.7968	$0.796^{+0.027}_{-0.028}$	$100\theta_{eq}$	0.8269	$0.826^{+0.027}_{-0.026}$	χ^2_{CMB}	1184.5	$1199.5 (\nu: 15.9)$
S_8	0.793	$0.796^{+0.073}_{-0.069}$	$100\theta_{s,eq}$	0.4565	$0.456^{+0.014}_{-0.013}$			
$\sigma_8 \Omega_m^{0.5}$	0.4345	$0.436^{+0.040}_{-0.038}$	$H(0.15)$	73.73	$73.6^{+2.5}_{-2.4}$			

Best-fit $\chi^2_{eff} = 1185.80$; $\bar{\chi}^2_{eff} = 1206.83$; $R - 1 = 0.00595$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 9.31 small_100x143_offlike5_EE_Aplanck_B: 395.67 commander_dx12_v3.2.29: 21.74 plik_rd12_HM.v22_TT: 757.79

3.50 base_Alens_plikHM_TT_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02237	$0.02233^{+0.00052}_{-0.00055}$	$\sigma_8/h^{0.5}$	0.9689	$0.968^{+0.032}_{-0.032}$	$D_M(0.38)$	1520.0	1521^{+26}_{-26}
$\Omega_c h^2$	0.11787	$0.1179^{+0.0033}_{-0.0032}$	$r_{\text{drag}} h$	100.67	$100.6^{+2.6}_{-2.6}$	$H(0.51)$	89.95	$89.92^{+0.83}_{-0.81}$
$100\theta_{\text{MC}}$	1.04114	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.478	$2.478^{+0.075}_{-0.077}$	$D_M(0.51)$	1970.3	1971^{+31}_{-30}
τ	0.0504	$0.049^{+0.020}_{-0.027}$	z_{re}	7.24	$7.1^{+2.1}_{-3.1}$	$H(0.61)$	95.50	$95.48^{+0.71}_{-0.69}$
A_L	1.070	$1.07^{+0.11}_{-0.097}$	$10^9 A_s$	2.069	$2.065^{+0.093}_{-0.11}$	$D_M(0.61)$	2293.8	2295^{+33}_{-33}
$\ln(10^{10} A_s)$	3.030	$3.027^{+0.044}_{-0.056}$	$10^9 A_s e^{-2\tau}$	1.8709	$1.871^{+0.031}_{-0.030}$	$H(2.33)$	235.17	$235.1^{+2.1}_{-2.0}$
n_s	0.9703	$0.969^{+0.011}_{-0.012}$	D_{40}	1214.8	1217^{+36}_{-34}	$D_M(2.33)$	5755.9	5758^{+34}_{-33}
y_{cal}	0.99995	$1.0001^{+0.0067}_{-0.0064}$	D_{220}	5719	5722^{+100}_{-110}	$f\sigma_8(0.15)$	0.4456	$0.445^{+0.021}_{-0.021}$
A_{217}^{CIB}	48.4	47^{+20}_{-20}	D_{810}	2531.3	2530^{+37}_{-37}	$\sigma_8(0.15)$	0.7401	$0.739^{+0.019}_{-0.021}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.28	—	D_{1420}	815.3	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4656	$0.465^{+0.018}_{-0.018}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.72	$230.3^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	0.6569	$0.656^{+0.016}_{-0.018}$
A_{100}^{PS}	252	261^{+70}_{-70}	$n_{s,0.002}$	0.9703	$0.969^{+0.011}_{-0.012}$	$f\sigma_8(0.51)$	0.4652	$0.465^{+0.016}_{-0.017}$
A_{143}^{PS}	46.0	47^{+20}_{-20}	Y_P	0.245394	$0.24538^{+0.00020}_{-0.00025}$	$\sigma_8(0.51)$	0.6152	$0.614^{+0.014}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	43.9	42^{+20}_{-20}	Y_P^{BBN}	0.246721	$0.24670^{+0.00020}_{-0.00025}$	$f\sigma_8(0.61)$	0.4609	$0.460^{+0.015}_{-0.015}$
A_{217}^{PS}	117.6	114^{+30}_{-30}	$10^5 D/H$	2.586	$2.59^{+0.10}_{-0.094}$	$\sigma_8(0.61)$	0.5856	$0.585^{+0.013}_{-0.016}$
A^{kSZ}	0.0	—	Age/Gyr	13.782	$13.786^{+0.078}_{-0.076}$	$f\sigma_8(2.33)$	0.2956	$0.2951^{+0.0067}_{-0.0079}$
A_{100}^{dustTT}	8.98	$9.0^{+4.8}_{-4.8}$	z_*	1089.74	$1089.78^{+0.83}_{-0.79}$	$\sigma_8(2.33)$	0.3051	$0.3046^{+0.0069}_{-0.0084}$
A_{143}^{dustTT}	10.86	$10.8^{+4.6}_{-4.3}$	r_*	144.99	$145.01^{+0.83}_{-0.81}$	f_{2000}^{143}	29.1	30^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.6}_{-8.5}$	$100\theta_*$	1.04132	$1.0413^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32.2	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.923	$13.926^{+0.080}_{-0.078}$	f_{2000}^{217}	106.71	$107.2^{+4.8}_{-5.0}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.78	$1059.7^{+1.1}_{-1.2}$	χ_{lensing}^2	9.42	$10.1 (\nu: 1.9)$
c_{217}	0.99825	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	147.66	$147.70^{+0.89}_{-0.87}$	χ_{small}^2	395.68	$396.8 (\nu: 1.2)$
H_0	68.18	$68.1^{+1.5}_{-1.5}$	k_D	0.14026	$0.1402^{+0.0011}_{-0.0011}$	χ_{lowl}^2	22.20	$22.43 (\nu: 0.4)$
Ω_Λ	0.6969	$0.697^{+0.019}_{-0.020}$	$100\theta_D$	0.16086	$0.16091^{+0.00070}_{-0.00064}$	χ_{plik}^2	757.2	$769.6 (\nu: 14.3)$
Ω_m	0.3031	$0.303^{+0.020}_{-0.019}$	z_{eq}	3351	3350^{+76}_{-74}	$\chi_{6\text{DF}}^2$	0.002	$0.044 (\nu: 0.0)$
$\Omega_m h^2$	0.14088	$0.1409^{+0.0032}_{-0.0031}$	k_{eq}	0.010228	$0.01023^{+0.00023}_{-0.00023}$	χ_{MGS}^2	1.82	$1.87 (\nu: 0.2)$
$\Omega_m h^3$	0.09605	$0.0960^{+0.0011}_{-0.0012}$	$100\theta_{\text{eq}}$	0.8227	$0.823^{+0.014}_{-0.014}$	χ_{DR12BAO}^2	3.39	$4.1 (\nu: 0.5)$
σ_8	0.8000	$0.799^{+0.021}_{-0.023}$	$100\theta_{s,\text{eq}}$	0.4543	$0.4543^{+0.0074}_{-0.0072}$	χ_{prior}^2	1.5	$7.4 (\nu: 7.0)$
S_8	0.8041	$0.803^{+0.041}_{-0.040}$	$H(0.15)$	73.37	$73.3^{+1.3}_{-1.3}$	χ_{CMB}^2	1184.5	$1199.0 (\nu: 15.3)$
$\sigma_8 \Omega_m^{0.5}$	0.4404	$0.440^{+0.022}_{-0.022}$	$D_M(0.15)$	636.5	637^{+13}_{-13}	χ_{BAO}^2	5.22	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_m^{0.25}$	0.5936	$0.593^{+0.022}_{-0.022}$	$H(0.38)$	83.33	$83.3^{+1.0}_{-0.97}$			

Best-fit $\chi_{\text{eff}}^2 = 1191.14$; $\bar{\chi}_{\text{eff}}^2 = 1212.35$; $R - 1 = 0.01232$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.40 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 9.42 small_100x143.offlike5_EE_Aplanck_B: 395.68 comman-
der_dx12.v3.2.29: 22.20 plik_rd12_HM.v22_TT: 757.15

3.51 base_Alens_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00066}_{-0.00067}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.035}_{-0.035}$	$D_{\mathrm{M}}(0.15)$	634^{+24}_{-23}
$\Omega_{\mathrm{c}}h^2$	$0.1171^{+0.0062}_{-0.0060}$	$\sigma_8/h^{0.5}$	$0.965^{+0.049}_{-0.047}$	$H(0.38)$	$83.5^{+1.9}_{-1.7}$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}}h$	$101.3^{+5.0}_{-4.8}$	$D_{\mathrm{M}}(0.38)$	1515^{+48}_{-48}
τ	$0.053^{+0.017}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.479^{+0.077}_{-0.081}$	$H(0.51)$	$90.1^{+1.5}_{-1.4}$
A_{L}	$1.08^{+0.13}_{-0.13}$	z_{re}	< 9.02	$D_{\mathrm{M}}(0.51)$	1964^{+56}_{-56}
$\ln(10^{10}A_{\mathrm{s}})$	$3.033^{+0.039}_{-0.029}$	$10^9 A_{\mathrm{s}}$	$2.076^{+0.083}_{-0.059}$	$H(0.61)$	$95.6^{+1.3}_{-1.1}$
n_{s}	$0.971^{+0.018}_{-0.017}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.868^{+0.038}_{-0.037}$	$D_{\mathrm{M}}(0.61)$	2287^{+60}_{-61}
y_{cal}	$1.0001^{+0.0066}_{-0.0064}$	D_{40}	1214^{+46}_{-42}	$H(2.33)$	$234.7^{+3.7}_{-3.5}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5725^{+110}_{-110}	$D_{\mathrm{M}}(2.33)$	5752^{+51}_{-55}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2529^{+37}_{-37}	$f\sigma_8(0.15)$	$0.442^{+0.037}_{-0.035}$
A_{143}^{tSZ}	$5.3^{+4.4}_{-4.8}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.739^{+0.021}_{-0.020}$
A_{100}^{PS}	259^{+70}_{-70}	D_{2000}	$230.6^{+5.0}_{-4.7}$	$f\sigma_8(0.38)$	$0.463^{+0.029}_{-0.029}$
A_{143}^{PS}	46^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.971^{+0.018}_{-0.017}$	$\sigma_8(0.38)$	$0.657^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24540^{+0.00027}_{-0.00030}$	$f\sigma_8(0.51)$	$0.463^{+0.025}_{-0.025}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00028}_{-0.00030}$	$\sigma_8(0.51)$	$0.615^{+0.014}_{-0.013}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.13}_{-0.12}$	$f\sigma_8(0.61)$	$0.459^{+0.022}_{-0.022}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	$0.586^{+0.013}_{-0.011}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.5}_{-4.5}$	z_{*}	$1089.6^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	$0.2958^{+0.0061}_{-0.0048}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.5}$	r_{*}	$145.2^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	$0.3056^{+0.0062}_{-0.0043}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_{*}$	$1.0414^{+0.0013}_{-0.0013}$	f_{2000}^{143}	30^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.94^{+0.12}_{-0.12}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-6}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	$1059.8^{+1.3}_{-1.3}$	f_{2000}^{217}	$106.9^{+5.3}_{-5.2}$
H_0	$68.5^{+2.9}_{-2.8}$	r_{drag}	$147.8^{+1.3}_{-1.3}$	$\chi_{\mathrm{lensing}}^2$	$10.1 (\nu: 2.0)$
Ω_{Λ}	$0.701^{+0.035}_{-0.038}$	k_{D}	$0.1401^{+0.0013}_{-0.0013}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
Ω_{m}	$0.299^{+0.038}_{-0.035}$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00074}_{-0.00069}$	χ_{lowl}^2	$22.3 (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1402^{+0.0057}_{-0.0056}$	z_{eq}	3334^{+140}_{-130}	χ_{plik}^2	$770.4 (\nu: 15.6)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0011}_{-0.0012}$	k_{eq}	$0.01018^{+0.00042}_{-0.00041}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.799^{+0.025}_{-0.025}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.027}_{-0.026}$	χ_{CMB}^2	$1199.2 (\nu: 15.7)$
S_8	$0.798^{+0.072}_{-0.068}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.014}_{-0.013}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.437^{+0.039}_{-0.037}$	$H(0.15)$	$73.6^{+2.5}_{-2.4}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.48$; $R - 1 = 0.00707$

3.52 base_Alens_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00052}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.971^{+0.030}_{-0.028}$	$D_{\mathrm{M}}(0.38)$	1521^{+26}_{-26}
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0033}_{-0.0032}$	$r_{\mathrm{drag}}h$	$100.7^{+2.6}_{-2.6}$	$H(0.51)$	$89.93^{+0.83}_{-0.81}$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.477^{+0.078}_{-0.077}$	$D_{\mathrm{M}}(0.51)$	1971^{+31}_{-31}
τ	$0.053^{+0.016}_{-0.011}$	z_{re}	< 9.01	$H(0.61)$	$95.48^{+0.71}_{-0.70}$
A_{L}	$1.063^{+0.095}_{-0.094}$	$10^9 A_{\mathrm{s}}$	$2.078^{+0.082}_{-0.055}$	$D_{\mathrm{M}}(0.61)$	2295^{+33}_{-33}
$\ln(10^{10} A_{\mathrm{s}})$	$3.034^{+0.039}_{-0.027}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.030}_{-0.031}$	$H(2.33)$	$235.1^{+2.0}_{-2.0}$
n_{s}	$0.969^{+0.011}_{-0.012}$	D_{40}	1218^{+37}_{-33}	$D_{\mathrm{M}}(2.33)$	5758^{+34}_{-34}
y_{cal}	$1.0001^{+0.0067}_{-0.0064}$	D_{220}	5722^{+110}_{-110}	$f\sigma_8(0.15)$	$0.447^{+0.021}_{-0.020}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{810}	2530^{+38}_{-37}	$\sigma_8(0.15)$	$0.741^{+0.017}_{-0.014}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	814^{+14}_{-13}	$f\sigma_8(0.38)$	$0.466^{+0.017}_{-0.017}$
A_{143}^{tSZ}	—	D_{2000}	$230.3^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.658^{+0.014}_{-0.011}$
A_{100}^{PS}	261^{+80}_{-70}	$n_{\mathrm{s},0.002}$	$0.969^{+0.011}_{-0.012}$	$f\sigma_8(0.51)$	$0.466^{+0.015}_{-0.014}$
A_{143}^{PS}	47^{+20}_{-20}	Y_{P}	$0.24538^{+0.00020}_{-0.00025}$	$\sigma_8(0.51)$	$0.616^{+0.013}_{-0.0098}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00020}_{-0.00025}$	$f\sigma_8(0.61)$	$0.462^{+0.014}_{-0.013}$
A_{217}^{PS}	114^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.10}_{-0.094}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0091}$
A^{kSZ}	—	Age/Gyr	$13.786^{+0.078}_{-0.076}$	$f\sigma_8(2.33)$	$0.2961^{+0.0059}_{-0.0042}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.9}_{-4.7}$	z_*	$1089.78^{+0.82}_{-0.79}$	$\sigma_8(2.33)$	$0.3056^{+0.0062}_{-0.0042}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.5}_{-4.3}$	r_*	$145.02^{+0.82}_{-0.80}$	f_{2000}^{143}	30^{+8}_{-7}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.6}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.927^{+0.080}_{-0.078}$	f_{2000}^{217}	$107.2^{+4.8}_{-5.0}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.7^{+1.1}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$10.1 (\nu: 2.0)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	$147.71^{+0.88}_{-0.84}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
H_0	$68.1^{+1.5}_{-1.5}$	k_{D}	$0.1402^{+0.0010}_{-0.0011}$	χ_{lowl}^2	$22.50 (\nu: 0.4)$
Ω_{Λ}	$0.697^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00069}_{-0.00063}$	χ_{plik}^2	$769.6 (\nu: 14.6)$
Ω_{m}	$0.303^{+0.020}_{-0.019}$	z_{eq}	3350^{+75}_{-73}	$\chi_{6\mathrm{DF}}^2$	$0.045 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1408^{+0.0031}_{-0.0031}$	k_{eq}	$0.01022^{+0.00023}_{-0.00022}$	χ_{MGS}^2	$1.88 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0011}_{-0.0012}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.014}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.07 (\nu: 0.5)$
σ_8	$0.801^{+0.019}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4544^{+0.0073}_{-0.0072}$	χ_{prior}^2	$7.3 (\nu: 7.1)$
S_8	$0.806^{+0.040}_{-0.039}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{CMB}^2	$1198.7 (\nu: 15.1)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.022}_{-0.021}$	$D_{\mathrm{M}}(0.15)$	637^{+13}_{-13}	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.021}_{-0.020}$	$H(0.38)$	$83.3^{+1.0}_{-0.98}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1212.01$; $R - 1 = 0.01863$

3.53 base_Alens_plikHM_TTTEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022553	$0.02251^{+0.00044}_{-0.00043}$	$\Omega_m h^3$	0.09641	$0.09637^{+0.00075}_{-0.00074}$	$100\theta_{s,eq}$	0.4536	$0.4532^{+0.0086}_{-0.0083}$
$\Omega_c h^2$	0.11803	$0.1182^{+0.0038}_{-0.0038}$	σ_8	0.8008	$0.800^{+0.021}_{-0.024}$	$H(0.15)$	73.46	$73.4^{+1.6}_{-1.5}$
$100\theta_{MC}$	1.04111	$1.04110^{+0.00080}_{-0.00085}$	S_8	0.8049	$0.806^{+0.047}_{-0.047}$	$D_M(0.15)$	635.7	637^{+15}_{-15}
τ	0.0506	$0.049^{+0.021}_{-0.026}$	$\sigma_8 \Omega_m^{0.5}$	0.4409	$0.441^{+0.026}_{-0.026}$	$H(0.38)$	83.43	$83.4^{+1.2}_{-1.1}$
A_L	1.075	$1.07^{+0.11}_{-0.098}$	$\sigma_8 \Omega_m^{0.25}$	0.5942	$0.594^{+0.024}_{-0.025}$	$D_M(0.38)$	1518.0	1520^{+30}_{-30}
$\ln(10^{10} A_s)$	3.0314	$3.029^{+0.043}_{-0.051}$	$\sigma_8/h^{0.5}$	0.9692	$0.969^{+0.034}_{-0.036}$	$H(0.51)$	90.07	$90.01^{+0.93}_{-0.86}$
n_s	0.9718	$0.970^{+0.012}_{-0.012}$	$r_{drag} h$	100.63	$100.5^{+3.1}_{-3.0}$	$D_M(0.51)$	1967.8	1970^{+35}_{-36}
y_{cal}	0.99996	$1.0001^{+0.0063}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.483	$2.482^{+0.076}_{-0.077}$	$H(0.61)$	95.63	$95.58^{+0.75}_{-0.69}$
A_{217}^{CIB}	44.2	46^{+20}_{-20}	z_{re}	7.23	$7.1^{+2.0}_{-2.9}$	$D_M(0.61)$	2290.9	2293^{+38}_{-39}
$\xi^{tSZ \times CIB}$	0.83	—	$10^9 A_s$	2.073	$2.067^{+0.090}_{-0.10}$	$H(2.33)$	235.46	$235.6^{+2.2}_{-2.2}$
A_{143}^{tSZ}	7.00	> 1.03	$10^9 A_s e^{-2\tau}$	1.8733	$1.874^{+0.030}_{-0.030}$	$D_M(2.33)$	5748.6	5751^{+32}_{-33}
A_{100}^{PS}	244	255^{+70}_{-70}	D_{40}	1213.7	1219^{+35}_{-35}	$f\sigma_8(0.15)$	0.4461	$0.446^{+0.024}_{-0.024}$
A_{143}^{PS}	50.3	44^{+20}_{-20}	D_{220}	5730	5735^{+100}_{-98}	$\sigma_8(0.15)$	0.7408	$0.740^{+0.019}_{-0.021}$
$A_{143 \times 217}^{PS}$	55.3	42^{+20}_{-20}	D_{810}	2535.0	2533^{+35}_{-35}	$f\sigma_8(0.38)$	0.4661	$0.466^{+0.020}_{-0.021}$
A_{217}^{PS}	122.8	115^{+30}_{-30}	D_{1420}	818.0	816^{+12}_{-13}	$\sigma_8(0.38)$	0.6576	$0.657^{+0.016}_{-0.018}$
A^{kSZ}	0.0	—	D_{2000}	232.01	$231.3^{+4.1}_{-4.3}$	$f\sigma_8(0.51)$	0.4657	$0.465^{+0.017}_{-0.019}$
A_{100}^{dustTT}	8.82	$8.9^{+4.9}_{-4.8}$	$n_{s,0.002}$	0.9718	$0.970^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	0.6158	$0.615^{+0.014}_{-0.016}$
A_{143}^{dustTT}	11.02	$10.9^{+4.7}_{-4.6}$	Y_P	0.245463	$0.24545^{+0.00018}_{-0.00017}$	$f\sigma_8(0.61)$	0.4614	$0.461^{+0.016}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.5^{+8.4}_{-8.6}$	Y_P^{BBN}	0.246790	$0.24678^{+0.00018}_{-0.00017}$	$\sigma_8(0.61)$	0.5862	$0.585^{+0.013}_{-0.015}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	$10^5 D/H$	2.553	$2.560^{+0.080}_{-0.079}$	$f\sigma_8(2.33)$	0.2959	$0.2953^{+0.0066}_{-0.0076}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.095}$	Age/Gyr	13.765	$13.770^{+0.070}_{-0.072}$	$\sigma_8(2.33)$	0.3054	$0.3048^{+0.0067}_{-0.0077}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.074}_{-0.075}$	z_*	1089.52	$1089.59^{+0.80}_{-0.81}$	f_{2000}^{143}	27.2	28^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.21}_{-0.22}$	r_*	144.80	$144.78^{+0.81}_{-0.81}$	$f_{2000}^{143 \times 217}$	30.80	31^{+5}_{-5}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04128	$1.04128^{+0.00079}_{-0.00083}$	f_{2000}^{217}	105.36	$106.2^{+4.9}_{-4.7}$
$A_{143 \times 217}^{dustTE}$	0.661	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.906	$13.904^{+0.074}_{-0.075}$	$\chi_{lensing}^2$	10.2	$10.5 (\nu: 2.4)$
A_{217}^{dustTE}	2.06	$2.06^{+0.68}_{-0.68}$	z_{drag}	1060.20	$1060.14^{+0.86}_{-0.82}$	χ_{small}^2	395.66	$396.8 (\nu: 1.2)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.41	$147.40^{+0.76}_{-0.78}$	χ_{lowl}^2	22.06	$22.46 (\nu: 0.4)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14067	$0.14065^{+0.00079}_{-0.00077}$	χ_{plik}^2	2341.8	$2357.1 (\nu: 17.7)$
H_0	68.27	$68.2^{+1.8}_{-1.7}$	$100\theta_D$	0.160601	$0.16065^{+0.00047}_{-0.00047}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.2)$
Ω_Λ	0.6969	$0.695^{+0.023}_{-0.024}$	z_{eq}	3360	3364^{+85}_{-84}	χ_{CMB}^2	2769.7	$2786.9 (\nu: 17.8)$
Ω_m	0.3031	$0.305^{+0.024}_{-0.023}$	k_{eq}	0.010254	$0.01027^{+0.00026}_{-0.00026}$			
$\Omega_m h^2$	0.14123	$0.1414^{+0.0035}_{-0.0035}$	$100\theta_{eq}$	0.8217	$0.821^{+0.017}_{-0.016}$			

Best-fit $\chi_{eff}^2 = 2771.20$; $\bar{\chi}_{eff}^2 = 2798.40$; $R - 1 = 0.01801$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 10.18 simall.100x143_offlike5_EE_Aplanck_B: 395.66 commander_dx12_v3.2.29: 22.06 plik_rd12_HM_v22b_TTTEE: 2341.85

3.54 base_Alens_plikHM_TTTEE_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022543	$0.02251^{+0.00036}_{-0.00036}$	σ_8	0.8002	$0.800^{+0.020}_{-0.022}$	$D_M(0.15)$	636.5	637^{+11}_{-11}
$\Omega_c h^2$	0.11826	$0.1183^{+0.0027}_{-0.0028}$	S_8	0.8060	$0.806^{+0.036}_{-0.035}$	$H(0.38)$	83.37	$83.36^{+0.85}_{-0.79}$
$100\theta_{MC}$	1.04109	$1.04111^{+0.00074}_{-0.00077}$	$\sigma_8 \Omega_m^{0.5}$	0.4415	$0.442^{+0.020}_{-0.019}$	$D_M(0.38)$	1519.7	1520^{+21}_{-22}
τ	0.0492	$0.049^{+0.020}_{-0.025}$	$\sigma_8 \Omega_m^{0.25}$	0.5943	$0.594^{+0.020}_{-0.020}$	$H(0.51)$	90.02	$90.01^{+0.67}_{-0.63}$
A_L	1.072	$1.071^{+0.094}_{-0.087}$	$\sigma_8/h^{0.5}$	0.9692	$0.969^{+0.029}_{-0.030}$	$D_M(0.51)$	1969.7	1970^{+25}_{-26}
$\ln(10^{10} A_s)$	3.0288	$3.029^{+0.043}_{-0.052}$	$r_{drag} h$	100.45	$100.4^{+2.2}_{-2.1}$	$H(0.61)$	95.59	$95.57^{+0.56}_{-0.52}$
n_s	0.9704	$0.969^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.482	$2.482^{+0.076}_{-0.077}$	$D_M(0.61)$	2293.0	2294^{+27}_{-28}
y_{cal}	0.9998	$1.0001^{+0.0066}_{-0.0066}$	z_{re}	7.09	$7.1^{+2.0}_{-2.9}$	$H(2.33)$	235.60	$235.6^{+1.6}_{-1.6}$
A_{217}^{CIB}	45.8	46^{+20}_{-20}	$10^9 A_s$	2.067	$2.068^{+0.090}_{-0.10}$	$D_M(2.33)$	5750.0	5751^{+24}_{-25}
$\xi^{tSZ \times CIB}$	0.62	—	$10^9 A_s e^{-2\tau}$	1.8735	$1.874^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	0.4466	$0.447^{+0.019}_{-0.018}$
A_{143}^{tSZ}	7.17	> 0.956	D_{40}	1216.2	1219^{+32}_{-31}	$\sigma_8(0.15)$	0.7401	$0.740^{+0.018}_{-0.020}$
A_{100}^{PS}	246	255^{+70}_{-70}	D_{220}	5732	5735^{+97}_{-96}	$f\sigma_8(0.38)$	0.4662	$0.466^{+0.016}_{-0.016}$
A_{143}^{PS}	48.0	44^{+20}_{-20}	D_{810}	2533.8	2534^{+34}_{-35}	$\sigma_8(0.38)$	0.6568	$0.657^{+0.015}_{-0.018}$
$A_{143 \times 217}^{PS}$	50.9	42^{+20}_{-20}	D_{1420}	817.1	817^{+12}_{-13}	$f\sigma_8(0.51)$	0.4657	$0.466^{+0.015}_{-0.015}$
A_{217}^{PS}	120.4	115^{+30}_{-30}	D_{2000}	231.65	$231.3^{+3.9}_{-4.2}$	$\sigma_8(0.51)$	0.6150	$0.615^{+0.014}_{-0.016}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9704	$0.969^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	0.4613	$0.461^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.88	$8.9^{+5.0}_{-4.9}$	Y_P	0.245460	$0.24545^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.5854	$0.585^{+0.013}_{-0.015}$
A_{143}^{dustTT}	11.03	$10.9^{+4.6}_{-4.8}$	Y_P^{BBN}	0.246786	$0.24677^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	0.2954	$0.2954^{+0.0067}_{-0.0076}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.5^{+8.4}_{-8.9}$	$10^5 D/H$	2.554	$2.560^{+0.066}_{-0.065}$	$\sigma_8(2.33)$	0.3049	$0.3048^{+0.0068}_{-0.0078}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	Age/Gyr	13.768	$13.770^{+0.054}_{-0.057}$	f_{2000}^{143}	27.7	28^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.113^{+0.099}_{-0.096}$	z_*	1089.55	$1089.59^{+0.60}_{-0.61}$	$f_{2000}^{143 \times 217}$	31.14	31^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.078}_{-0.080}$	r_*	144.75	$144.77^{+0.62}_{-0.61}$	f_{2000}^{217}	105.65	$106.2^{+4.7}_{-4.6}$
$A_{100 \times 217}^{dustTE}$	0.479	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04126	$1.04128^{+0.00072}_{-0.00076}$	$\chi_{lensing}^2$	9.99	$10.5 (\nu: 2.4)$
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.902	$13.904^{+0.059}_{-0.058}$	χ_{small}^2	395.70	$396.8 (\nu: 1.2)$
$A_{143 \times 217}^{dustTE}$	0.662	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.20	$1060.14^{+0.75}_{-0.78}$	χ_{lowl}^2	22.25	$22.46 (\nu: 0.3)$
A_{217}^{dustTE}	2.07	$2.06^{+0.68}_{-0.67}$	r_{drag}	147.36	$147.40^{+0.63}_{-0.62}$	χ_{plik}^2	2341.7	$2356.5 (\nu: 17.1)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14071	$0.14065^{+0.00071}_{-0.00073}$	χ_{6DF}^2	0.000	$0.029 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160604	$0.16065^{+0.00043}_{-0.00043}$	χ_{MGS}^2	1.68	$1.74 (\nu: 0.1)$
H_0	68.17	$68.1^{+1.3}_{-1.2}$	z_{eq}	3365	3364^{+61}_{-62}	$\chi_{DR12BAO}^2$	3.53	$3.98 (\nu: 0.3)$
Ω_Λ	0.6956	$0.695^{+0.016}_{-0.017}$	k_{eq}	0.010270	$0.01027^{+0.00019}_{-0.00019}$	χ_{prior}^2	1.6	$11.6 (\nu: 10.1)$
Ω_m	0.3044	$0.305^{+0.017}_{-0.016}$	$100\theta_{eq}$	0.8207	$0.821^{+0.012}_{-0.012}$	χ_{CMB}^2	2769.6	$2786.3 (\nu: 17.1)$
$\Omega_m h^2$	0.14145	$0.1414^{+0.0026}_{-0.0026}$	$100\theta_{s,eq}$	0.4531	$0.4532^{+0.0061}_{-0.0059}$	χ_{BAO}^2	5.20	$5.75 (\nu: 0.3)$
$\Omega_m h^3$	0.09642	$0.09637^{+0.00076}_{-0.00070}$	$H(0.15)$	73.38	$73.4^{+1.1}_{-1.1}$			

Best-fit $\chi_{eff}^2 = 2776.44$; $\bar{\chi}_{eff}^2 = 2803.67$; $R - 1 = 0.02408$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.53 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.99 small_100x143_offlike5_EE_Aplanck_B: 395.70 commander_dx12.v3.2.29: 22.25 plik_rd12_HM_v22b_TTTEE: 2341.65

3.55 base_Alens_plikHM_TTTEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02252^{+0.00044}_{-0.00043}$	$\Omega_{\text{m}}h^3$	$0.09637^{+0.00074}_{-0.00077}$	$100\theta_{\text{s,eq}}$	$0.4533^{+0.0084}_{-0.0083}$
$\Omega_{\text{c}}h^2$	$0.1182^{+0.0038}_{-0.0038}$	σ_8	$0.802^{+0.020}_{-0.018}$	$H(0.15)$	$73.4^{+1.6}_{-1.5}$
$100\theta_{\text{MC}}$	$1.04111^{+0.00080}_{-0.00086}$	S_8	$0.808^{+0.047}_{-0.046}$	$D_{\text{M}}(0.15)$	636^{+15}_{-15}
τ	$0.053^{+0.016}_{-0.010}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.443^{+0.026}_{-0.025}$	$H(0.38)$	$83.4^{+1.2}_{-1.1}$
A_{L}	$1.06^{+0.10}_{-0.096}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.596^{+0.023}_{-0.023}$	$D_{\text{M}}(0.38)$	1520^{+30}_{-30}
$\ln(10^{10}A_{\text{s}})$	$3.035^{+0.037}_{-0.027}$	$\sigma_8/h^{0.5}$	$0.972^{+0.033}_{-0.032}$	$H(0.51)$	$90.02^{+0.92}_{-0.86}$
n_{s}	$0.970^{+0.012}_{-0.012}$	$r_{\text{drag}}h$	$100.5^{+3.1}_{-3.0}$	$D_{\text{M}}(0.51)$	1970^{+35}_{-36}
y_{cal}	$1.0001^{+0.0064}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.482^{+0.078}_{-0.076}$	$H(0.61)$	$95.59^{+0.74}_{-0.70}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 8.98	$D_{\text{M}}(0.61)$	2293^{+37}_{-38}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_{\text{s}}$	$2.081^{+0.079}_{-0.056}$	$H(2.33)$	$235.5^{+2.2}_{-2.2}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.873^{+0.030}_{-0.030}$	$D_{\text{M}}(2.33)$	5750^{+32}_{-33}
A_{100}^{PS}	255^{+70}_{-70}	D_{40}	1219^{+35}_{-35}	$f\sigma_8(0.15)$	$0.448^{+0.024}_{-0.023}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5734^{+100}_{-99}	$\sigma_8(0.15)$	$0.742^{+0.017}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	D_{810}	2533^{+35}_{-35}	$f\sigma_8(0.38)$	$0.467^{+0.019}_{-0.019}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	816^{+12}_{-13}	$\sigma_8(0.38)$	$0.659^{+0.014}_{-0.012}$
A^{kSZ}	—	D_{2000}	$231.4^{+4.1}_{-4.2}$	$f\sigma_8(0.51)$	$0.467^{+0.017}_{-0.017}$
A_{100}^{dustTT}	$9.0^{+4.9}_{-4.8}$	$n_{\text{s},0.002}$	$0.970^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	$0.617^{+0.013}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	Y_{P}	$0.24545^{+0.00018}_{-0.00017}$	$f\sigma_8(0.61)$	$0.463^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.4}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00018}_{-0.00017}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0094}$
A_{217}^{dustTT}	94^{+20}_{-20}	10^5D/H	$2.559^{+0.080}_{-0.079}$	$f\sigma_8(2.33)$	$0.2963^{+0.0058}_{-0.0043}$
A_{100}^{dustTE}	$0.113^{+0.10}_{-0.096}$	Age/Gyr	$13.769^{+0.071}_{-0.071}$	$\sigma_8(2.33)$	$0.3058^{+0.0061}_{-0.0042}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.074}_{-0.075}$	z_*	$1089.58^{+0.80}_{-0.80}$	f_{2000}^{143}	28^{+7}_{-7}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	r_*	$144.79^{+0.80}_{-0.82}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.04128^{+0.00079}_{-0.00083}$	f_{2000}^{217}	$106.1^{+4.9}_{-4.7}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.905^{+0.074}_{-0.075}$	χ_{lensing}^2	$10.5 (\nu: 2.4)$
A_{217}^{dustTE}	$2.06^{+0.68}_{-0.68}$	z_{drag}	$1060.15^{+0.85}_{-0.83}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.41^{+0.76}_{-0.78}$	χ_{lowl}^2	$22.51 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14064^{+0.00080}_{-0.00078}$	χ_{plik}^2	$2357.1 (\nu: 17.7)$
H_0	$68.2^{+1.8}_{-1.7}$	$100\theta_{\text{D}}$	$0.16064^{+0.00047}_{-0.00047}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{Λ}	$0.696^{+0.022}_{-0.024}$	z_{eq}	3362^{+85}_{-83}	χ_{CMB}^2	$2786.4 (\nu: 17.2)$
Ω_{m}	$0.304^{+0.024}_{-0.022}$	k_{eq}	$0.01026^{+0.00026}_{-0.00025}$		
$\Omega_{\text{m}}h^2$	$0.1414^{+0.0035}_{-0.0035}$	$100\theta_{\text{eq}}$	$0.821^{+0.017}_{-0.016}$		

$$\bar{\chi}_{\text{eff}}^2 = 2797.97; R - 1 = 0.02423$$

3.56 base_Alens_plikHM_TTTEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00036}_{-0.00036}$	σ_8	$0.803^{+0.018}_{-0.016}$	$D_M(0.15)$	637^{+11}_{-11}
$\Omega_c h^2$	$0.1182^{+0.0027}_{-0.0027}$	S_8	$0.809^{+0.034}_{-0.034}$	$H(0.38)$	$83.36^{+0.84}_{-0.79}$
$100\theta_{MC}$	$1.04110^{+0.00074}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.019}_{-0.019}$	$D_M(0.38)$	1520^{+21}_{-22}
τ	$0.053^{+0.016}_{-0.010}$	$\sigma_8 \Omega_m^{0.25}$	$0.596^{+0.019}_{-0.018}$	$H(0.51)$	$90.01^{+0.68}_{-0.63}$
A_L	$1.064^{+0.092}_{-0.087}$	$\sigma_8/h^{0.5}$	$0.972^{+0.027}_{-0.026}$	$D_M(0.51)$	1970^{+25}_{-26}
$\ln(10^{10} A_s)$	$3.036^{+0.038}_{-0.027}$	$r_{\text{drag}} h$	$100.5^{+2.2}_{-2.1}$	$H(0.61)$	$95.58^{+0.56}_{-0.52}$
n_s	$0.9696^{+0.0099}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.482^{+0.076}_{-0.076}$	$D_M(0.61)$	2293^{+27}_{-28}
y_{cal}	$1.0001^{+0.0067}_{-0.0062}$	z_{re}	< 8.97	$H(2.33)$	$235.6^{+1.6}_{-1.6}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.082^{+0.080}_{-0.055}$	$D_M(2.33)$	5751^{+24}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.874^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	$0.448^{+0.018}_{-0.018}$
A_{143}^{tSZ}	$5.6^{+4.1}_{-5.0}$	D_{40}	1219^{+32}_{-31}	$\sigma_8(0.15)$	$0.742^{+0.016}_{-0.013}$
A_{100}^{PS}	255^{+70}_{-70}	D_{220}	5735^{+98}_{-97}	$f\sigma_8(0.38)$	$0.468^{+0.015}_{-0.015}$
A_{143}^{PS}	44^{+20}_{-20}	D_{810}	2533^{+34}_{-35}	$\sigma_8(0.38)$	$0.659^{+0.014}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	816^{+12}_{-12}	$f\sigma_8(0.51)$	$0.467^{+0.014}_{-0.013}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.4^{+4.0}_{-4.2}$	$\sigma_8(0.51)$	$0.617^{+0.013}_{-0.0094}$
A^{kSZ}	—	$n_{s,0.002}$	$0.9696^{+0.0099}_{-0.010}$	$f\sigma_8(0.61)$	$0.463^{+0.013}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.9}_{-4.8}$	Y_P	$0.24545^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.587^{+0.012}_{-0.0087}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.7}$	Y_P^{BBN}	$0.24677^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2964^{+0.0059}_{-0.0041}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.6}_{-8.4}$	$10^5 D/H$	$2.560^{+0.067}_{-0.065}$	$\sigma_8(2.33)$	$0.3059^{+0.0060}_{-0.0042}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.770^{+0.055}_{-0.057}$	f_{2000}^{143}	28^{+7}_{-7}
A_{100}^{dustTE}	$0.113^{+0.096}_{-0.097}$	z_*	$1089.59^{+0.61}_{-0.62}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.078}_{-0.077}$	r_*	$144.78^{+0.63}_{-0.61}$	f_{2000}^{217}	$106.2^{+4.7}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04128^{+0.00072}_{-0.00079}$	χ_{lensing}^2	$10.5 (\nu: 2.5)$
A_{143}^{dustTE}	$0.22^{+0.15}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	$13.904^{+0.059}_{-0.057}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{drag}	$1060.14^{+0.75}_{-0.78}$	χ_{lowl}^2	$22.52 (\nu: 0.3)$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.67}$	r_{drag}	$147.40^{+0.64}_{-0.62}$	χ_{plik}^2	$2356.5 (\nu: 17.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14065^{+0.00070}_{-0.00074}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16065^{+0.00043}_{-0.00043}$	χ_{MGS}^2	$1.75 (\nu: 0.1)$
H_0	$68.2^{+1.3}_{-1.2}$	z_{eq}	3363^{+61}_{-62}	χ_{DR12BAO}^2	$3.98 (\nu: 0.3)$
Ω_Λ	$0.696^{+0.016}_{-0.017}$	k_{eq}	$0.01027^{+0.00019}_{-0.00019}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_m	$0.304^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012}$	χ_{CMB}^2	$2785.9 (\nu: 16.5)$
$\Omega_m h^2$	$0.1414^{+0.0026}_{-0.0026}$	$100\theta_{s,\text{eq}}$	$0.4532^{+0.0061}_{-0.0059}$	χ_{BAO}^2	$5.75 (\nu: 0.3)$
$\Omega_m h^3$	$0.09637^{+0.00072}_{-0.00073}$	$H(0.15)$	$73.4^{+1.1}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2803.19; R - 1 = 0.03248$$

3.57 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022439	$0.02243^{+0.00049}_{-0.00045} \quad (-0.5\sigma)$	S_8	0.8055	$0.805^{+0.048}_{-0.048} \quad (-0.0\sigma)$	$H(0.15)$	73.34	$73.3^{+1.6}_{-1.6} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.11807	$0.1182^{+0.0040}_{-0.0040} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4412	$0.441^{+0.026}_{-0.026} \quad (-0.0\sigma)$	$D_M(0.15)$	636.8	$637^{+16}_{-16} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04105	$1.04104^{+0.00084}_{-0.00086} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.5941	$0.594^{+0.024}_{-0.026} \quad (-0.0\sigma)$	$H(0.38)$	83.32	$83.3^{+1.2}_{-1.1} \quad (-0.2\sigma)$
τ	0.0504	$0.049^{+0.020}_{-0.025} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9693	$0.969^{+0.035}_{-0.036} \quad (-0.0\sigma)$	$D_M(0.38)$	1520.5	$1521^{+31}_{-32} \quad (+0.1\sigma)$
A_L	1.062	$1.06^{+0.11}_{-0.10} \quad (-0.2\sigma)$	$r_{drag} h$	100.52	$100.5^{+3.3}_{-3.1} \quad (-0.0\sigma)$	$H(0.51)$	89.96	$89.94^{+0.97}_{-0.90} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0296	$3.027^{+0.042}_{-0.050} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.472	$2.471^{+0.078}_{-0.077} \quad (-0.4\sigma)$	$D_M(0.51)$	1970.8	$1972^{+36}_{-37} \quad (+0.1\sigma)$
n_s	0.9700	$0.970^{+0.013}_{-0.013} \quad (-0.0\sigma)$	z_{re}	7.24	$7.1^{+1.9}_{-2.9} \quad (+0.0\sigma)$	$H(0.61)$	95.52	$95.51^{+0.80}_{-0.72} \quad (-0.3\sigma)$
y_{cal}	1.0000	$1.0000^{+0.0062}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_s$	2.069	$2.063^{+0.088}_{-0.10} \quad (-0.1\sigma)$	$D_M(0.61)$	2294.3	$2295^{+39}_{-40} \quad (+0.1\sigma)$
A_{100}^{PS}	240	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8704	$1.871^{+0.031}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	235.37	$235.4^{+2.3}_{-2.3} \quad (-0.2\sigma)$
A_{143}^{PS}	37	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	1215.4	$1216^{+36}_{-35} \quad (-0.2\sigma)$	$D_M(2.33)$	5754.4	$5755^{+33}_{-35} \quad (+0.3\sigma)$
A_{217}^{PS}	105.3	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	5721	$5721^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4463	$0.446^{+0.024}_{-0.025} \quad (-0.0\sigma)$
A_{217}^{CIB}	37.5	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2530.1	$2530^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7401	$0.739^{+0.019}_{-0.021} \quad (-0.1\sigma)$
A_{143}^{tSZ}	3.47	$< 8.79 \quad (-0.9\sigma)$	D_{1420}	815.2	$815^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4661	$0.466^{+0.020}_{-0.021} \quad (-0.0\sigma)$
$r_{143 \times 217}^{PS}$	0.676	$0.66^{+0.31}_{-0.34}$	D_{2000}	230.79	$230.6^{+4.2}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6569	$0.656^{+0.015}_{-0.018} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	0.41	—	$n_{s,0.002}$	0.9700	$0.970^{+0.013}_{-0.013} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	0.4656	$0.465^{+0.017}_{-0.019} \quad (-0.0\sigma)$
$\xi^{tSZ \times CIB}$	0.36	—	Y_P	0.245422	$0.24542^{+0.00019}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.6150	$0.614^{+0.014}_{-0.016} \quad (-0.1\sigma)$
A^{kSZ}	4.7	—	Y_P^{BBN}	0.246749	$0.24674^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	0.4612	$0.461^{+0.016}_{-0.017} \quad (-0.1\sigma)$
A_{100}^{dust}	1.02	$1.02^{+0.50}_{-0.51}$	$10^5 D/H$	2.573	$2.576^{+0.084}_{-0.088} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	0.5854	$0.585^{+0.013}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{dust}	0.957	$0.96^{+0.44}_{-0.46}$	Age/Gyr	13.778	$13.780^{+0.072}_{-0.078} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2955	$0.2950^{+0.0065}_{-0.0074} \quad (-0.1\sigma)$
A_{217}^{dust}	0.971	$0.98^{+0.26}_{-0.26}$	z_*	1089.66	$1089.69^{+0.83}_{-0.86} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3050	$0.3045^{+0.0066}_{-0.0075} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.052	$1.02^{+0.42}_{-0.42}$	r_*	144.88	$144.87^{+0.87}_{-0.84} \quad (+0.3\sigma)$	f_{2000}^{143}	28.5	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	0.99749	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04123	$1.04122^{+0.00082}_{-0.00084} \quad (-0.2\sigma)$	f_{2000}^{217}	106.0	$106.1^{+5.1}_{-5.1} \quad (-0.1\sigma)$
c_{217}	1.00069	$1.0010^{+0.0041}_{-0.0039} \quad (+4.6\sigma)$	$D_M(z_*)/\text{Gpc}$	13.914	$13.913^{+0.081}_{-0.077} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	31.3	$31^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	0.9949	$0.995^{+0.014}_{-0.012}$	z_{drag}	1059.97	$1059.94^{+0.95}_{-0.88} \quad (-0.6\sigma)$	$\chi^2_{lensing}$	9.02	$9.8 \quad (\nu: 1.4) \quad (-0.3\sigma)$
c_{EE}	0.9915	$0.992^{+0.012}_{-0.013}$	r_{drag}	147.53	$147.52^{+0.85}_{-0.83} \quad (+0.4\sigma)$	χ^2_{small}	395.66	$396.8 \quad (\nu: 1.1) \quad (-0.0\sigma)$
H_0	68.14	$68.1^{+1.9}_{-1.8} \quad (-0.1\sigma)$	k_D	0.14046	$0.14046^{+0.00088}_{-0.00091} \quad (-0.6\sigma)$	χ^2_{lowl}	22.23	$22.37 \quad (\nu: 0.4) \quad (-0.1\sigma)$
Ω_Λ	0.6960	$0.695^{+0.024}_{-0.025} \quad (-0.0\sigma)$	$100\theta_D$	0.16074	$0.16076^{+0.00053}_{-0.00054} \quad (+0.6\sigma)$	$\chi^2_{CamSpec}$	11498.6	$11513.3 \quad (\nu: 16.1)$
Ω_m	0.3040	$0.305^{+0.025}_{-0.024} \quad (+0.0\sigma)$	z_{eq}	3358	$3360^{+88}_{-89} \quad (-0.1\sigma)$	χ^2_{prior}	2.1	$7.7 \quad (\nu: 5.5) \quad (-0.9\sigma)$
$\Omega_m h^2$	0.14115	$0.1412^{+0.0037}_{-0.0037} \quad (-0.1\sigma)$	k_{eq}	0.010248	$0.01025^{+0.00027}_{-0.00027} \quad (-0.1\sigma)$	χ^2_{CMB}	11925.5	$11942.2 \quad (\nu: 17.0) \quad (+1535.0\sigma)$
$\Omega_m h^3$	0.09618	$0.09616^{+0.00083}_{-0.00078} \quad (-0.7\sigma)$	$100\theta_{eq}$	0.8216	$0.821^{+0.018}_{-0.017} \quad (+0.1\sigma)$			
σ_8	0.8001	$0.799^{+0.021}_{-0.024} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	0.4537	$0.4535^{+0.0091}_{-0.0086} \quad (+0.1\sigma)$			

Best-fit $\chi^2_{eff} = 11927.65$; $\Delta\chi^2_{eff} = 9156.45$; $\bar{\chi}^2_{eff} = 11949.88$; $\Delta\bar{\chi}^2_{eff} = 9151.48$; $R - 1 = 0.01480$

χ^2_{eff} : CMB - smicadx12.Dec5.ftl.mv2.ndclpp.p.teb.consext8: 9.02 (Δ -1.15) small.100x143_offlike5.EE.Aplanck.B: 395.66 (Δ -0.00) commander.dx12.v3.2.29: 22.23 (Δ 0.17) CamSpec like.10.7HM.1400.unified: 11498.60

3.58 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00041}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.441^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$H(0.38)$	$83.29^{+0.84}_{-0.81} \quad (-0.2\sigma)$
$\Omega_c h^2$	$0.1182^{+0.0028}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.594^{+0.020}_{-0.021} \quad (-0.1\sigma)$	$D_M(0.38)$	$1521^{+22}_{-22} \quad (+0.2\sigma)$
$100\theta_{MC}$	$1.04104^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.969^{+0.029}_{-0.031} \quad (-0.1\sigma)$	$H(0.51)$	$89.94^{+0.68}_{-0.65} \quad (-0.3\sigma)$
τ	$0.049^{+0.020}_{-0.025} \quad (-0.0\sigma)$	$r_{\text{drag}} h$	$100.4^{+2.2}_{-2.2} \quad (-0.0\sigma)$	$D_M(0.51)$	$1972^{+26}_{-26} \quad (+0.2\sigma)$
A_L	$1.064^{+0.098}_{-0.093} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.471^{+0.080}_{-0.078} \quad (-0.4\sigma)$	$H(0.61)$	$95.50^{+0.58}_{-0.54} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.027^{+0.042}_{-0.051} \quad (-0.1\sigma)$	z_{re}	$7.1^{+2.0}_{-2.9} \quad (-0.0\sigma)$	$D_M(0.61)$	$2295^{+28}_{-28} \quad (+0.2\sigma)$
n_s	$0.969^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$10^9 A_s$	$2.063^{+0.089}_{-0.10} \quad (-0.1\sigma)$	$H(2.33)$	$235.4^{+1.7}_{-1.7} \quad (-0.2\sigma)$
y_{cal}	$1.0000^{+0.0062}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$D_M(2.33)$	$5755^{+25}_{-27} \quad (+0.4\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1216^{+34}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.446^{+0.019}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5720^{+100}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.018}_{-0.020} \quad (-0.1\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2530^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.016}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.015}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.9\sigma)$	D_{2000}	$230.6^{+4.2}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.014}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	$0.969^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.014}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.24541^{+0.00016}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.461^{+0.014}_{-0.015} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.24674^{+0.00016}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.013}_{-0.015} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.576^{+0.073}_{-0.074} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2950^{+0.0065}_{-0.0074} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.781^{+0.057}_{-0.060} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3045^{+0.0067}_{-0.0077} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.46}$	z_*	$1089.69^{+0.65}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	r_*	$144.87^{+0.66}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{217}	$106.1^{+5.1}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.42}$	$100\theta_*$	$1.04122^{+0.00073}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.913^{+0.063}_{-0.061} \quad (+0.4\sigma)$	χ_{lensing}^2	$9.8 \quad (\nu: 1.4) \quad (-0.3\sigma)$
c_{217}	$1.0010^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.93^{+0.88}_{-0.84} \quad (-0.7\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.1) \quad (-0.1\sigma)$
c_{TE}	$0.995^{+0.014}_{-0.012}$	r_{drag}	$147.52^{+0.68}_{-0.67} \quad (+0.5\sigma)$	χ_{lowl}^2	$22.35 \quad (\nu: 0.3) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_D	$0.14046^{+0.00082}_{-0.00081} \quad (-0.7\sigma)$	χ_{CamSpec}^2	$11512.7 \quad (\nu: 15.3)$
H_0	$68.1^{+1.3}_{-1.3} \quad (-0.1\sigma)$	$100\theta_D$	$0.16076^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	$\chi_{6\text{DF}}^2$	$0.031 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_Λ	$0.695^{+0.017}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3360^{+64}_{-63} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.74 \quad (\nu: 0.1) \quad (-0.0\sigma)$
Ω_m	$0.305^{+0.017}_{-0.017} \quad (+0.0\sigma)$	k_{eq}	$0.01025^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	$3.99 \quad (\nu: 0.4) \quad (+0.0\sigma)$
$\Omega_m h^2$	$0.1412^{+0.0027}_{-0.0026} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.821^{+0.012}_{-0.012} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.5) \quad (-0.9\sigma)$
$\Omega_m h^3$	$0.09616^{+0.00080}_{-0.00077} \quad (-0.7\sigma)$	$100\theta_{s,\text{eq}}$	$0.4535^{+0.0063}_{-0.0061} \quad (+0.1\sigma)$	χ_{CMB}^2	$11941.7 \quad (\nu: 16.6) \quad (+1566.8\sigma)$
σ_8	$0.799^{+0.020}_{-0.023} \quad (-0.1\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.1} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.76 \quad (\nu: 0.3) \quad (+0.0\sigma)$
S_8	$0.805^{+0.036}_{-0.036} \quad (-0.1\sigma)$	$D_M(0.15)$	$637^{+11}_{-11} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11955.09; \Delta\bar{\chi}_{\text{eff}}^2 = 9151.42; R - 1 = 0.01872$$

3.59 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02243^{+0.00049}_{-0.00045} \quad (-0.5\sigma)$	S_8	$0.808^{+0.047}_{-0.047} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+1.7}_{-1.5} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0039}_{-0.0041} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.026}_{-0.026} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-16} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04104^{+0.00085}_{-0.00086} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.023}_{-0.024} \quad (-0.0\sigma)$	$H(0.38)$	$83.3^{+1.2}_{-1.1} \quad (-0.2\sigma)$
τ	$0.0522^{+0.016}_{-0.0099} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.971^{+0.033}_{-0.033} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+31}_{-32} \quad (+0.1\sigma)$
A_{L}	$1.06^{+0.10}_{-0.10} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.3}_{-3.1} \quad (-0.0\sigma)$	$H(0.51)$	$89.95^{+0.97}_{-0.91} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.037}_{-0.025} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.471^{+0.080}_{-0.077} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+36}_{-38} \quad (+0.1\sigma)$
n_{s}	$0.970^{+0.013}_{-0.013} \quad (-0.0\sigma)$	z_{re}	$< 8.90 \quad (-0.0\sigma)$	$H(0.61)$	$95.51^{+0.80}_{-0.73} \quad (-0.3\sigma)$
y_{cal}	$0.99998^{+0.0063}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.076^{+0.078}_{-0.052} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2295^{+39}_{-41} \quad (+0.2\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.031}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$235.4^{+2.3}_{-2.4} \quad (-0.2\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1217^{+37}_{-35} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+33}_{-35} \quad (+0.4\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5720^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.024} \quad (-0.0\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2530^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.017}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.467^{+0.019}_{-0.020} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.33}_{-0.31}$	D_{2000}	$230.7^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.014}_{-0.011} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.970^{+0.013}_{-0.013} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.467^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24542^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.013}_{-0.0099} \quad (-0.2\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.576^{+0.085}_{-0.088} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.012}_{-0.0090} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.780^{+0.073}_{-0.078} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2959^{+0.0057}_{-0.0041} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.69^{+0.84}_{-0.86} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3054^{+0.0060}_{-0.0040} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.42}$	r_*	$144.87^{+0.89}_{-0.82} \quad (+0.3\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04122^{+0.00083}_{-0.00084} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.1^{+5.2}_{-5.1} \quad (-0.0\sigma)$
c_{217}	$1.0010^{+0.0041}_{-0.0039} \quad (+4.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.914^{+0.081}_{-0.076} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+5}_{-5} \quad (+0.0\sigma)$
c_{TE}	$0.995^{+0.014}_{-0.012}$	z_{drag}	$1059.93^{+0.95}_{-0.92} \quad (-0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.8 \quad (\nu: 1.5) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.013}$	r_{drag}	$147.52^{+0.85}_{-0.80} \quad (+0.4\sigma)$	χ_{small}^2	$396.31 \quad (\nu: 0.5) \quad (-0.0\sigma)$
H_0	$68.1^{+1.9}_{-1.8} \quad (-0.1\sigma)$	k_{D}	$0.14045^{+0.00088}_{-0.00092} \quad (-0.6\sigma)$	χ_{lowl}^2	$22.43 \quad (\nu: 0.5) \quad (-0.1\sigma)$
Ω_{Λ}	$0.695^{+0.024}_{-0.025} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16076^{+0.00053}_{-0.00054} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.3 \quad (\nu: 16.5)$
Ω_{m}	$0.305^{+0.025}_{-0.024} \quad (+0.0\sigma)$	z_{eq}	$3359^{+86}_{-91} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.5) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0036}_{-0.0038} \quad (-0.1\sigma)$	k_{eq}	$0.01025^{+0.00026}_{-0.00028} \quad (-0.1\sigma)$	χ_{CMB}^2	$11941.9 \quad (\nu: 17.0) \quad (+1558.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09616^{+0.00083}_{-0.00079} \quad (-0.7\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.018}_{-0.016} \quad (+0.1\sigma)$		
σ_8	$0.802^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4536^{+0.0093}_{-0.0084} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.57; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.61; R - 1 = 0.01602$$

3.60 base_Alens_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02242^{+0.00041}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$H(0.38)$	$83.29^{+0.85}_{-0.81} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0028}_{-0.0028} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.596^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+22}_{-22} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04104^{+0.00074}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.972^{+0.027}_{-0.025} \quad (-0.1\sigma)$	$H(0.51)$	$89.94^{+0.69}_{-0.66} \quad (-0.3\sigma)$
τ	$0.052^{+0.016}_{-0.010} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+2.2}_{-2.2} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+26}_{-26} \quad (+0.2\sigma)$
A_{L}	$1.057^{+0.092}_{-0.092} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.471^{+0.082}_{-0.078} \quad (-0.4\sigma)$	$H(0.61)$	$95.50^{+0.58}_{-0.54} \quad (-0.4\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.036}_{-0.025} \quad (-0.2\sigma)$	z_{re}	$< 8.95 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2295^{+28}_{-28} \quad (+0.2\sigma)$
n_{s}	$0.970^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.076^{+0.077}_{-0.051} \quad (-0.2\sigma)$	$H(2.33)$	$235.4^{+1.7}_{-1.7} \quad (-0.2\sigma)$
y_{cal}	$1.0000^{+0.0063}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.029}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+26}_{-27} \quad (+0.5\sigma)$
A_{100}^{PS}	$237^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1217^{+34}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5720^{+100}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.016}_{-0.012} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2530^{+36}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.467^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.013}_{-0.0099} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.9\sigma)$	D_{2000}	$230.6^{+4.2}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.467^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.970^{+0.011}_{-0.011} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.012}_{-0.0089} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00016}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.012}_{-0.012} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00016}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.012}_{-0.0083} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.576^{+0.073}_{-0.074} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2959^{+0.0058}_{-0.0040} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.781^{+0.057}_{-0.059} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3054^{+0.0060}_{-0.0040} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.44}$	z_*	$1089.69^{+0.65}_{-0.66} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	r_*	$144.87^{+0.66}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{217}	$106.1^{+5.1}_{-4.9} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	$1.04122^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+5}_{-5} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.913^{+0.063}_{-0.061} \quad (+0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.8 \quad (\nu: 1.5) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.93^{+0.88}_{-0.83} \quad (-0.7\sigma)$	χ_{small}^2	$396.31 \quad (\nu: 0.5) \quad (-0.1\sigma)$
c_{TE}	$0.995^{+0.014}_{-0.012}$	r_{drag}	$147.52^{+0.68}_{-0.68} \quad (+0.5\sigma)$	χ_{lowl}^2	$22.41 \quad (\nu: 0.3) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.014}$	k_{D}	$0.14045^{+0.00081}_{-0.00081} \quad (-0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.7 \quad (\nu: 15.6)$
H_0	$68.1^{+1.3}_{-1.3} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16076^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.031 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{Λ}	$0.695^{+0.017}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3359^{+63}_{-63} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.74 \quad (\nu: 0.1) \quad (-0.0\sigma)$
Ω_{m}	$0.305^{+0.017}_{-0.017} \quad (+0.0\sigma)$	k_{eq}	$0.01025^{+0.00019}_{-0.00019} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.99 \quad (\nu: 0.4) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0026}_{-0.0027} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.012}_{-0.012} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.6) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09616^{+0.00079}_{-0.00079} \quad (-0.7\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4535^{+0.0063}_{-0.0061} \quad (+0.1\sigma)$	χ_{CMB}^2	$11941.3 \quad (\nu: 16.5) \quad (+1592.9\sigma)$
σ_8	$0.802^{+0.018}_{-0.015} \quad (-0.2\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.1} \quad (-0.2\sigma)$	χ_{BAO}^2	$5.76 \quad (\nu: 0.3) \quad (+0.0\sigma)$
S_8	$0.808^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+11}_{-11} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11954.75; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.56; R - 1 = 0.02132$$

3.61 base_Alens_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02267	$0.02259^{+0.00075}_{-0.00075}$	$\sigma_8/h^{0.5}$	0.957	$0.956^{+0.055}_{-0.053}$	$D_M(0.15)$	628.9	630^{+27}_{-25}
$\Omega_c h^2$	0.1164	$0.1165^{+0.0069}_{-0.0062}$	$r_{\text{drag}} h$	102.0	$101.9^{+5.3}_{-5.4}$	$H(0.38)$	83.95	$83.8^{+2.1}_{-2.0}$
$100\theta_{\text{MC}}$	1.04145	$1.0414^{+0.0014}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.656	$2.63^{+0.20}_{-0.20}$	$D_M(0.38)$	1504	1507^{+54}_{-52}
τ	0.0517	$0.050^{+0.022}_{-0.026}$	z_{re}	7.30	$7.1^{+2.1}_{-3.0}$	$H(0.51)$	90.48	$90.4^{+1.7}_{-1.6}$
A_L	1.260	$1.24^{+0.27}_{-0.24}$	$10^9 A_s$	2.068	$2.061^{+0.095}_{-0.11}$	$D_M(0.51)$	1952	1955^{+63}_{-61}
$\ln(10^{10} A_s)$	3.029	$3.025^{+0.045}_{-0.055}$	$10^9 A_s e^{-2\tau}$	1.8652	$1.864^{+0.039}_{-0.038}$	$H(0.61)$	95.95	$95.9^{+1.4}_{-1.3}$
n_s	0.9761	$0.974^{+0.019}_{-0.019}$	D_{40}	1204.1	1208^{+47}_{-45}	$D_M(0.61)$	2274	2277^{+68}_{-66}
y_{cal}	0.99997	$1.0000^{+0.0066}_{-0.0066}$	D_{220}	5732	5730^{+110}_{-110}	$H(2.33)$	234.53	$234.5^{+4.0}_{-3.5}$
A_{100}^{PS}	226	240^{+70}_{-70}	D_{810}	2525.9	2523^{+38}_{-37}	$D_M(2.33)$	5735	5739^{+58}_{-61}
A_{143}^{tSZ}	6.4	—	D_{1420}	814.9	813^{+14}_{-14}	$f\sigma_8(0.15)$	0.4363	$0.436^{+0.041}_{-0.038}$
A^{kSZ}	0.0	—	D_{2000}	232.8	$231.7^{+5.4}_{-5.5}$	$\sigma_8(0.15)$	0.7368	$0.735^{+0.023}_{-0.026}$
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.50}$	$n_{\text{s},0.002}$	0.9761	$0.974^{+0.019}_{-0.019}$	$f\sigma_8(0.38)$	0.4584	$0.458^{+0.033}_{-0.031}$
A_{143}^{power}	7.7	$8.0^{+6.2}_{-5.4}$	Y_{P}	0.245507	$0.24548^{+0.00032}_{-0.00032}$	$\sigma_8(0.38)$	0.6552	$0.654^{+0.018}_{-0.021}$
A_{217}^{power}	6.5	$6.6^{+6.6}_{-3.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.246834	$0.24681^{+0.00032}_{-0.00032}$	$f\sigma_8(0.51)$	0.4592	$0.459^{+0.028}_{-0.027}$
$A_{143 \times 217}^{\text{power}}$	3.25	< 7.95	10^5D/H	2.531	$2.55^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	0.6140	$0.612^{+0.016}_{-0.019}$
$\gamma_{143}^{\text{power}}$	1.48	> 0.204	Age/Gyr	13.735	$13.75^{+0.13}_{-0.13}$	$f\sigma_8(0.61)$	0.4558	$0.455^{+0.025}_{-0.025}$
$\gamma_{217}^{\text{power}}$	2.38	—	z_*	1089.23	$1089.4^{+1.4}_{-1.3}$	$\sigma_8(0.61)$	0.5848	$0.583^{+0.015}_{-0.017}$
$\gamma_{143 \times 217}^{\text{power}}$	2.17	—	r_*	145.14	$145.2^{+1.3}_{-1.4}$	$f\sigma_8(2.33)$	0.2956	$0.2947^{+0.0070}_{-0.0082}$
c_{100}	0.99828	$0.9979^{+0.0026}_{-0.0028}$	$100\theta_*$	1.04160	$1.0416^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.3056	$0.3047^{+0.0071}_{-0.0083}$
c_{217}	0.99823	$0.9992^{+0.0041}_{-0.0031}$	$D_M(z_*)/\text{Gpc}$	13.934	$13.94^{+0.12}_{-0.13}$	f_{2000}^{143}	17.4	$19.4^{+8.9}_{-8.1}$
H_0	69.07	$68.9^{+3.1}_{-3.1}$	z_{drag}	1060.39	$1060.2^{+1.4}_{-1.4}$	f_{2000}^{217}	13.0	$13.8^{+6.0}_{-5.7}$
Ω_Λ	0.7072	$0.705^{+0.036}_{-0.043}$	r_{drag}	147.72	$147.8^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	6.1	$7.6^{+6.5}_{-5.8}$
Ω_{m}	0.2928	$0.295^{+0.043}_{-0.036}$	k_{D}	0.14043	$0.1403^{+0.0013}_{-0.0013}$	χ_{simall}^2	395.68	$396.8 (\nu: 1.2)$
$\Omega_{\text{m}} h^2$	0.1397	$0.1398^{+0.0065}_{-0.0057}$	$100\theta_{\text{D}}$	0.16054	$0.16065^{+0.00082}_{-0.00073}$	χ_{lowl}^2	21.40	$21.8 (\nu: 0.6)$
$\Omega_{\text{m}} h^3$	0.09650	$0.0963^{+0.0013}_{-0.0013}$	z_{eq}	3323	3325^{+150}_{-140}	χ_{CamSpec}^2	6699.1	$6713.2 (\nu: 13.5)$
σ_8	0.7953	$0.794^{+0.029}_{-0.031}$	k_{eq}	0.010142	$0.01015^{+0.00047}_{-0.00041}$	χ_{prior}^2	1.6	$5.1 (\nu: 4.0)$
S_8	0.786	$0.786^{+0.082}_{-0.073}$	$100\theta_{\text{eq}}$	0.8290	$0.829^{+0.028}_{-0.030}$	χ_{CMB}^2	7116.1	$7131.9 (\nu: 14.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4304	$0.431^{+0.045}_{-0.040}$	$100\theta_{\text{s,eq}}$	0.4574	$0.457^{+0.014}_{-0.015}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5851	$0.585^{+0.040}_{-0.037}$	$H(0.15)$	74.16	$74.0^{+2.7}_{-2.7}$			

Best-fit $\chi_{\text{eff}}^2 = 7117.73$; $\bar{\chi}_{\text{eff}}^2 = 7136.94$; $R - 1 = 0.00677$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.68 commander_dx12_v3.2_29: 21.40 CamSpec like_10.7cleaned: 6699.06

3.62 base_Alens_plikHM_TT

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02262	$0.02251^{+0.00075}_{-0.00074}$	σ_8	0.848	$0.832^{+0.11}_{-0.079}$	$100\theta_D$	0.16058	$0.16070^{+0.00081}_{-0.00075}$
$\Omega_c h^2$	0.1169	$0.1176^{+0.0074}_{-0.0069}$	S_8	0.842	$0.83^{+0.13}_{-0.11}$	z_{eq}	3334	3348^{+160}_{-150}
$100\theta_{\text{MC}}$	1.04136	$1.0413^{+0.0014}_{-0.0014}$	$\sigma_8 \Omega_m^{0.5}$	0.461	$0.456^{+0.072}_{-0.059}$	k_{eq}	0.010174	$0.01022^{+0.00050}_{-0.00046}$
τ	0.112	< 0.209	$\sigma_8 \Omega_m^{0.25}$	0.625	$0.616^{+0.088}_{-0.066}$	$100\theta_{\text{eq}}$	0.8268	$0.824^{+0.031}_{-0.031}$
A_L	1.100	$1.13^{+0.35}_{-0.31}$	$\sigma_8/h^{0.5}$	1.022	$1.01^{+0.14}_{-0.10}$	$100\theta_{\text{s,eq}}$	0.4563	$0.455^{+0.016}_{-0.016}$
$\ln(10^{10} A_s)$	3.152	$3.11^{+0.24}_{-0.17}$	$r_{\text{drag}} h$	101.6	$101.0^{+5.9}_{-5.8}$	$H(0.15)$	73.94	$73.6^{+3.0}_{-2.9}$
n_s	0.9755	$0.972^{+0.022}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.648	$2.63^{+0.19}_{-0.20}$	$D_M(0.15)$	631.0	634^{+29}_{-28}
A_{217}^{CIB}	42.7	45^{+20}_{-20}	z_{re}	12.7	$10.5^{+9.4}_{-8.7}$	$H(0.38)$	83.78	$83.5^{+2.2}_{-2.1}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	$10^9 A_s$	2.339	$2.25^{+0.59}_{-0.38}$	$D_M(0.38)$	1509	1515^{+58}_{-57}
A_{143}^{tSZ}	6.71	> 1.01	$10^9 A_s e^{-2\tau}$	1.8686	$1.871^{+0.041}_{-0.039}$	$H(0.51)$	90.34	$90.2^{+1.8}_{-1.6}$
A_{100}^{PS}	239	252^{+70}_{-70}	D_{40}	1233	1235^{+85}_{-57}	$D_M(0.51)$	1957	1965^{+67}_{-67}
A_{143}^{PS}	49.6	43^{+20}_{-20}	D_{220}	5733	5733^{+110}_{-110}	$H(0.61)$	95.84	$95.7^{+1.5}_{-1.3}$
$A_{143 \times 217}^{\text{PS}}$	56.8	41^{+20}_{-20}	D_{810}	2528.8	2528^{+37}_{-36}	$D_M(0.61)$	2279	2287^{+73}_{-72}
A_{217}^{PS}	122.9	115^{+20}_{-30}	D_{1420}	815.7	814^{+13}_{-13}	$H(2.33)$	234.79	$235.2^{+4.3}_{-3.9}$
A^{kSZ}	0.00	< 9.15	D_{2000}	233.0	$231.9^{+5.6}_{-5.3}$	$D_M(2.33)$	5740	5747^{+58}_{-63}
A_{100}^{dustTT}	8.73	$8.8^{+4.8}_{-4.8}$	$n_{\text{s},0.002}$	0.9755	$0.972^{+0.022}_{-0.021}$	$f\sigma_8(0.15)$	0.467	$0.462^{+0.071}_{-0.057}$
A_{143}^{dustTT}	10.53	$10.5^{+4.6}_{-4.6}$	Y_{P}	0.245488	$0.24545^{+0.00033}_{-0.00033}$	$\sigma_8(0.15)$	0.785	$0.770^{+0.098}_{-0.071}$
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$17.9^{+8.4}_{-8.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.246814	$0.24677^{+0.00033}_{-0.00033}$	$f\sigma_8(0.38)$	0.490	$0.483^{+0.069}_{-0.053}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	10^5D/H	2.541	$2.56^{+0.14}_{-0.13}$	$\sigma_8(0.38)$	0.698	$0.684^{+0.086}_{-0.062}$
c_{100}	0.99970	$0.9996^{+0.0015}_{-0.0016}$	Age/Gyr	13.745	$13.76^{+0.13}_{-0.13}$	$f\sigma_8(0.51)$	0.490	$0.483^{+0.068}_{-0.051}$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	z_*	1089.33	$1089.5^{+1.4}_{-1.4}$	$\sigma_8(0.51)$	0.654	$0.640^{+0.081}_{-0.057}$
y_{cal}	0.9999	$1.0001^{+0.0066}_{-0.0063}$	r_*	145.05	$145.0^{+1.5}_{-1.5}$	$f\sigma_8(0.61)$	0.487	$0.479^{+0.067}_{-0.048}$
H_0	68.82	$68.5^{+3.4}_{-3.4}$	$100\theta_*$	1.04152	$1.0414^{+0.0014}_{-0.0014}$	$\sigma_8(0.61)$	0.622	$0.610^{+0.077}_{-0.054}$
Ω_Λ	0.7041	$0.699^{+0.041}_{-0.047}$	$D_M(z_*)/\text{Gpc}$	13.927	$13.92^{+0.13}_{-0.14}$	$f\sigma_8(2.33)$	0.3145	$0.308^{+0.039}_{-0.027}$
Ω_{m}	0.2959	$0.301^{+0.047}_{-0.041}$	z_{drag}	1060.28	$1060.1^{+1.5}_{-1.4}$	$\sigma_8(2.33)$	0.3250	$0.318^{+0.041}_{-0.027}$
$\Omega_{\text{m}} h^2$	0.1401	$0.1408^{+0.0069}_{-0.0063}$	r_{drag}	147.64	$147.6^{+1.4}_{-1.5}$	χ_{plik}^2	752.3	$767.2 (\nu: 15.0)$
$\Omega_{\text{m}} h^3$	0.09645	$0.0963^{+0.0013}_{-0.0012}$	k_{D}	0.14047	$0.1405^{+0.0014}_{-0.0014}$	χ_{prior}^2	0.97	$7.0 (\nu: 6.2)$

Best-fit $\chi_{\text{eff}}^2 = 753.23$; $\bar{\chi}_{\text{eff}}^2 = 774.27$; $R - 1 = 0.00661$
 χ_{eff}^2 : CMB - plik_rd12_HM_v22_TT: 752.27

3.63 base_Alens_plikHM_TT_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00076}_{-0.00076}$	S_8	$0.85^{+0.12}_{-0.10}$	k_{eq}	$0.01021^{+0.00050}_{-0.00047}$
$\Omega_c h^2$	$0.1175^{+0.0074}_{-0.0070}$	$\sigma_8 \Omega_m^{0.5}$	$0.463^{+0.068}_{-0.055}$	$100\theta_{\text{eq}}$	$0.825^{+0.031}_{-0.031}$
$100\theta_{\text{MC}}$	$1.0413^{+0.0015}_{-0.0014}$	$\sigma_8 \Omega_m^{0.25}$	$0.626^{+0.081}_{-0.060}$	$100\theta_{\text{s,eq}}$	$0.455^{+0.016}_{-0.016}$
τ	$0.107^{+0.11}_{-0.068}$	$\sigma_8/h^{0.5}$	$1.02^{+0.13}_{-0.091}$	$H(0.15)$	$73.7^{+3.0}_{-2.9}$
A_L	$1.09^{+0.31}_{-0.28}$	$r_{\text{drag}} h$	$101.1^{+6.0}_{-5.8}$	$D_M(0.15)$	634^{+29}_{-28}
$\ln(10^{10} A_s)$	$3.14^{+0.21}_{-0.14}$	$\langle d^2 \rangle^{1/2}$	$2.63^{+0.19}_{-0.20}$	$H(0.38)$	$83.6^{+2.3}_{-2.1}$
n_s	$0.973^{+0.022}_{-0.021}$	z_{re}	< 19.8	$D_M(0.38)$	1514^{+58}_{-57}
A_{217}^{CIB}	45^{+20}_{-20}	$10^9 A_s$	$2.33^{+0.53}_{-0.32}$	$H(0.51)$	$90.2^{+1.8}_{-1.6}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.870^{+0.041}_{-0.039}$	$D_M(0.51)$	1963^{+68}_{-68}
A_{143}^{tSZ}	> 1.08	D_{40}	1241^{+83}_{-59}	$H(0.61)$	$95.7^{+1.5}_{-1.3}$
A_{100}^{PS}	252^{+70}_{-70}	D_{220}	5732^{+110}_{-110}	$D_M(0.61)$	2286^{+73}_{-73}
A_{143}^{PS}	42^{+20}_{-20}	D_{810}	2528^{+37}_{-36}	$H(2.33)$	$235.1^{+4.3}_{-4.0}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	D_{1420}	814^{+13}_{-13}	$D_M(2.33)$	5746^{+58}_{-64}
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$232.0^{+5.6}_{-5.4}$	$f\sigma_8(0.15)$	$0.469^{+0.066}_{-0.054}$
A^{kSZ}	< 9.11	$n_{\text{s},0.002}$	$0.973^{+0.022}_{-0.021}$	$\sigma_8(0.15)$	$0.783^{+0.088}_{-0.061}$
A_{100}^{dustTT}	$8.8^{+4.7}_{-4.8}$	Y_{P}	$0.24545^{+0.00033}_{-0.00033}$	$f\sigma_8(0.38)$	$0.491^{+0.064}_{-0.049}$
A_{143}^{dustTT}	$10.4^{+4.6}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00033}_{-0.00034}$	$\sigma_8(0.38)$	$0.695^{+0.078}_{-0.052}$
$A_{143 \times 217}^{\text{dustTT}}$	$17.9^{+8.4}_{-8.5}$	10^5D/H	$2.56^{+0.14}_{-0.13}$	$f\sigma_8(0.51)$	$0.491^{+0.062}_{-0.045}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.76^{+0.13}_{-0.14}$	$\sigma_8(0.51)$	$0.651^{+0.073}_{-0.048}$
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_*	$1089.5^{+1.5}_{-1.4}$	$f\sigma_8(0.61)$	$0.486^{+0.060}_{-0.043}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_*	$145.0^{+1.5}_{-1.5}$	$\sigma_8(0.61)$	$0.620^{+0.069}_{-0.045}$
y_{cal}	$1.0001^{+0.0066}_{-0.0063}$	$100\theta_*$	$1.0415^{+0.0014}_{-0.0014}$	$f\sigma_8(2.33)$	$0.313^{+0.035}_{-0.022}$
H_0	$68.5^{+3.5}_{-3.4}$	$D_M(z_*)/\text{Gpc}$	$13.92^{+0.13}_{-0.14}$	$\sigma_8(2.33)$	$0.323^{+0.037}_{-0.023}$
Ω_Λ	$0.700^{+0.041}_{-0.047}$	z_{drag}	$1060.1^{+1.4}_{-1.5}$	f_{2000}^{143}	27^{+9}_{-9}
Ω_m	$0.300^{+0.047}_{-0.041}$	r_{drag}	$147.6^{+1.4}_{-1.5}$	$f_{2000}^{143 \times 217}$	30^{+7}_{-6}
$\Omega_m h^2$	$0.1406^{+0.0069}_{-0.0064}$	k_{D}	$0.1404^{+0.0014}_{-0.0014}$	f_{2000}^{217}	$105.3^{+6.0}_{-5.9}$
$\Omega_m h^3$	$0.0963^{+0.0013}_{-0.0012}$	$100\theta_{\text{D}}$	$0.16070^{+0.00082}_{-0.00074}$	χ_{plik}^2	$767.3 (\nu: 15.2)$
σ_8	$0.846^{+0.096}_{-0.068}$	z_{eq}	3345^{+170}_{-150}	χ_{prior}^2	$7.0 (\nu: 6.2)$

$$\bar{\chi}_{\text{eff}}^2 = 774.31; R - 1 = 0.00620$$

3.64 base_Alens_plikHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02266	$0.02261^{+0.00075}_{-0.00076}$	S_8	0.757	$0.792^{+0.10}_{-0.085}$	k_{eq}	0.010159	$0.01014^{+0.00045}_{-0.00043}$
$\Omega_c h^2$	0.1166	$0.1165^{+0.0068}_{-0.0064}$	$\sigma_8 \Omega_m^{0.5}$	0.415	$0.434^{+0.055}_{-0.046}$	$100\theta_{\text{eq}}$	0.8279	$0.829^{+0.029}_{-0.029}$
$100\theta_{\text{MC}}$	1.04140	$1.0414^{+0.0014}_{-0.0013}$	$\sigma_8 \Omega_m^{0.25}$	0.563	$0.589^{+0.065}_{-0.049}$	$100\theta_{\text{s,eq}}$	0.4568	$0.457^{+0.015}_{-0.015}$
τ	0.010	< 0.150	$\sigma_8/h^{0.5}$	0.920	$0.964^{+0.10}_{-0.074}$	$H(0.15)$	74.06	$74.1^{+2.8}_{-2.7}$
A_L	1.360	$1.23^{+0.30}_{-0.29}$	$r_{\text{drag}} h$	101.8	$101.9^{+5.4}_{-5.3}$	$D_M(0.15)$	629.9	630^{+27}_{-26}
$\ln(10^{10} A_s)$	2.948	$3.04^{+0.19}_{-0.11}$	$\langle d^2 \rangle^{1/2}$	2.654	$2.64^{+0.19}_{-0.21}$	$H(0.38)$	83.87	$83.9^{+2.1}_{-2.0}$
n_s	0.9753	$0.975^{+0.019}_{-0.019}$	z_{re}	2.1	$7.5^{+8.1}_{-5.8}$	$D_M(0.38)$	1506	1506^{+54}_{-52}
y_{cal}	0.99995	$1.0001^{+0.0063}_{-0.0063}$	$10^9 A_s$	1.907	$2.10^{+0.42}_{-0.22}$	$H(0.51)$	90.42	$90.4^{+1.7}_{-1.6}$
A_{217}^{CIB}	42.8	45^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8686	$1.866^{+0.038}_{-0.036}$	$D_M(0.51)$	1954	1954^{+63}_{-62}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.93	—	D_{40}	1200	1212^{+55}_{-46}	$H(0.61)$	95.91	$95.9^{+1.4}_{-1.3}$
A_{143}^{tSZ}	6.79	> 1.07	D_{220}	5739	5736^{+110}_{-100}	$D_M(0.61)$	2276	2276^{+68}_{-68}
A_{100}^{PS}	239	249^{+70}_{-70}	D_{810}	2529.2	2527^{+35}_{-35}	$H(2.33)$	234.67	$234.5^{+3.9}_{-3.6}$
A_{143}^{PS}	48.4	41^{+20}_{-20}	D_{1420}	815.8	814^{+13}_{-13}	$D_M(2.33)$	5737	5738^{+58}_{-61}
$A_{143 \times 217}^{\text{PS}}$	55.5	41^{+20}_{-20}	D_{2000}	233.0	$232.4^{+5.3}_{-5.2}$	$f\sigma_8(0.15)$	0.4202	$0.440^{+0.054}_{-0.045}$
A_{217}^{PS}	123.0	115^{+30}_{-30}	$n_{\text{s},0.002}$	0.9753	$0.975^{+0.019}_{-0.019}$	$\sigma_8(0.15)$	0.708	$0.741^{+0.072}_{-0.047}$
A^{kSZ}	0.00	< 8.93	Y_{P}	0.245502	$0.24549^{+0.00032}_{-0.00032}$	$f\sigma_8(0.38)$	0.4411	$0.462^{+0.052}_{-0.040}$
A_{100}^{dustTT}	8.88	$9.0^{+4.7}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.246829	$0.24682^{+0.00033}_{-0.00032}$	$\sigma_8(0.38)$	0.629	$0.659^{+0.064}_{-0.040}$
A_{143}^{dustTT}	10.64	$10.5^{+4.6}_{-4.7}$	$10^5 \text{D}/\text{H}$	2.534	$2.54^{+0.14}_{-0.13}$	$f\sigma_8(0.51)$	0.4417	$0.462^{+0.051}_{-0.037}$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$17.9^{+8.4}_{-8.7}$	Age/Gyr	13.739	$13.74^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	0.5897	$0.618^{+0.060}_{-0.036}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	z_*	1089.26	$1089.3^{+1.4}_{-1.3}$	$f\sigma_8(0.61)$	0.4384	$0.459^{+0.049}_{-0.035}$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	r_*	145.09	$145.2^{+1.3}_{-1.4}$	$\sigma_8(0.61)$	0.5616	$0.588^{+0.057}_{-0.034}$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04155	$1.0416^{+0.0014}_{-0.0013}$	$f\sigma_8(2.33)$	0.2838	$0.297^{+0.029}_{-0.016}$
H_0	68.96	$69.0^{+3.2}_{-3.2}$	$D_M(z_*)/\text{Gpc}$	13.930	$13.94^{+0.12}_{-0.13}$	$\sigma_8(2.33)$	0.2934	$0.307^{+0.030}_{-0.017}$
Ω_Λ	0.7057	$0.706^{+0.037}_{-0.042}$	z_{drag}	1060.35	$1060.2^{+1.4}_{-1.5}$	χ_{lowl}^2	20.98	$22.2 (\nu: 1.1)$
Ω_m	0.2943	$0.294^{+0.042}_{-0.037}$	r_{drag}	147.67	$147.8^{+1.3}_{-1.3}$	χ_{plik}^2	753.0	$767.1 (\nu: 14.8)$
$\Omega_m h^2$	0.1399	$0.1397^{+0.0062}_{-0.0058}$	k_{D}	0.14048	$0.1403^{+0.0013}_{-0.0013}$	χ_{prior}^2	1.1	$7.1 (\nu: 6.3)$
$\Omega_m h^3$	0.09649	$0.0964^{+0.0013}_{-0.0013}$	$100\theta_{\text{D}}$	0.16054	$0.16062^{+0.00084}_{-0.00074}$	χ_{CMB}^2	773.9	$789.3 (\nu: 15.4)$
σ_8	0.764	$0.800^{+0.079}_{-0.053}$	z_{eq}	3328	3324^{+150}_{-140}			

Best-fit $\chi_{\text{eff}}^2 = 775.00$; $\bar{\chi}_{\text{eff}}^2 = 796.44$; $R - 1 = 0.00820$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 20.98 plik_rd12_HM_v22_TT: 752.97

3.65 base_Alens_plikHM_TT_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02263^{+0.00076}_{-0.00076}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.051}_{-0.044}$	$100\theta_{\mathrm{s,eq}}$	$0.458^{+0.015}_{-0.015}$
$\Omega_{\mathrm{c}} h^2$	$0.1162^{+0.0069}_{-0.0064}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.058}_{-0.045}$	$H(0.15)$	$74.2^{+2.8}_{-2.8}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0014}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.984^{+0.092}_{-0.066}$	$D_{\mathrm{M}}(0.15)$	629^{+28}_{-26}
τ	$0.080^{+0.079}_{-0.039}$	$r_{\mathrm{drag}} h$	$102.2^{+5.4}_{-5.6}$	$H(0.38)$	$84.0^{+2.1}_{-2.0}$
A_{L}	$1.18^{+0.27}_{-0.26}$	$\langle d^2 \rangle^{1/2}$	$2.64^{+0.19}_{-0.21}$	$D_{\mathrm{M}}(0.38)$	1504^{+56}_{-53}
$\ln(10^{10} A_{\mathrm{s}})$	$3.09^{+0.16}_{-0.085}$	z_{re}	< 16.0	$H(0.51)$	$90.5^{+1.7}_{-1.6}$
n_{s}	$0.976^{+0.019}_{-0.020}$	$10^9 A_{\mathrm{s}}$	$2.19^{+0.36}_{-0.18}$	$D_{\mathrm{M}}(0.51)$	1951^{+65}_{-62}
y_{cal}	$1.0001^{+0.0064}_{-0.0062}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.865^{+0.038}_{-0.036}$	$H(0.61)$	$96.0^{+1.4}_{-1.3}$
A_{217}^{CIB}	45^{+20}_{-20}	D_{40}	1217^{+55}_{-45}	$D_{\mathrm{M}}(0.61)$	2273^{+70}_{-68}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5735^{+110}_{-100}	$H(2.33)$	$234.3^{+3.9}_{-3.6}$
A_{143}^{tSZ}	> 1.11	D_{810}	2526^{+36}_{-36}	$D_{\mathrm{M}}(2.33)$	5736^{+58}_{-61}
A_{100}^{PS}	248^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.15)$	$0.448^{+0.049}_{-0.043}$
A_{143}^{PS}	41^{+20}_{-20}	D_{2000}	$232.6^{+5.4}_{-5.2}$	$\sigma_8(0.15)$	$0.758^{+0.066}_{-0.037}$
$A_{143 \times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.976^{+0.019}_{-0.020}$	$f\sigma_8(0.38)$	$0.471^{+0.046}_{-0.037}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24550^{+0.00033}_{-0.00032}$	$\sigma_8(0.38)$	$0.674^{+0.055}_{-0.033}$
A^{kSZ}	< 8.87	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24682^{+0.00033}_{-0.00032}$	$f\sigma_8(0.51)$	$0.472^{+0.045}_{-0.034}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.54^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	$0.631^{+0.051}_{-0.030}$
$A_{143}^{\mathrm{dust}TT}$	$10.4^{+4.6}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.13}_{-0.13}$	$f\sigma_8(0.61)$	$0.468^{+0.043}_{-0.031}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$17.9^{+8.4}_{-8.6}$	z_*	$1089.3^{+1.4}_{-1.4}$	$\sigma_8(0.61)$	$0.601^{+0.049}_{-0.028}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	r_*	$145.2^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	$0.304^{+0.025}_{-0.013}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0416^{+0.0014}_{-0.0013}$	$\sigma_8(2.33)$	$0.314^{+0.026}_{-0.014}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.12}_{-0.13}$	f_{2000}^{143}	26^{+9}_{-9}
H_0	$69.1^{+3.2}_{-3.3}$	z_{drag}	$1060.3^{+1.4}_{-1.5}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
Ω_{Λ}	$0.708^{+0.036}_{-0.044}$	r_{drag}	$147.8^{+1.3}_{-1.3}$	f_{2000}^{217}	$104.7^{+5.7}_{-5.9}$
Ω_{m}	$0.292^{+0.044}_{-0.036}$	k_{D}	$0.1403^{+0.0013}_{-0.0013}$	χ_{lowl}^2	$22.6 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^2$	$0.1394^{+0.0064}_{-0.0058}$	$100\theta_{\mathrm{D}}$	$0.16061^{+0.00084}_{-0.00074}$	χ_{plik}^2	$767.1 (\nu: 15.1)$
$\Omega_{\mathrm{m}} h^3$	$0.0964^{+0.0013}_{-0.0013}$	z_{eq}	3317^{+150}_{-140}	χ_{prior}^2	$7.2 (\nu: 6.4)$
σ_8	$0.818^{+0.072}_{-0.043}$	k_{eq}	$0.01012^{+0.00047}_{-0.00042}$	χ_{CMB}^2	$789.8 (\nu: 15.7)$
S_8	$0.807^{+0.094}_{-0.081}$	$100\theta_{\mathrm{eq}}$	$0.830^{+0.029}_{-0.030}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 796.93$; $R - 1 = 0.00997$

3.66 base_Alens_plikHM_TT_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02259	$0.02249^{+0.00077}_{-0.00079}$	S_8	0.797	$0.804^{+0.091}_{-0.078}$	k_{eq}	0.010204	$0.01025^{+0.00049}_{-0.00044}$
$\Omega_c h^2$	0.1173	$0.1180^{+0.0073}_{-0.0066}$	$\sigma_8 \Omega_m^{0.5}$	0.4365	$0.440^{+0.050}_{-0.043}$	$100\theta_{\text{eq}}$	0.8249	$0.822^{+0.030}_{-0.031}$
$100\theta_{\text{MC}}$	1.04127	$1.0412^{+0.0014}_{-0.0014}$	$\sigma_8 \Omega_m^{0.25}$	0.5905	$0.593^{+0.044}_{-0.040}$	$100\theta_{\text{s,eq}}$	0.4553	$0.454^{+0.015}_{-0.016}$
τ	0.0508	$0.050^{+0.021}_{-0.027}$	$\sigma_8/h^{0.5}$	0.964	$0.968^{+0.061}_{-0.056}$	$H(0.15)$	73.76	$73.5^{+2.8}_{-2.9}$
A_L	1.235	$1.20^{+0.26}_{-0.24}$	$r_{\text{drag}} h$	101.2	$100.7^{+5.6}_{-5.8}$	$D_M(0.15)$	632.8	636^{+30}_{-26}
$\ln(10^{10} A_s)$	3.032	$3.030^{+0.046}_{-0.056}$	$\langle d^2 \rangle^{1/2}$	2.650	$2.63^{+0.20}_{-0.21}$	$H(0.38)$	83.65	$83.4^{+2.1}_{-2.1}$
n_s	0.9731	$0.970^{+0.020}_{-0.020}$	z_{re}	7.23	$7.1^{+2.1}_{-3.1}$	$D_M(0.38)$	1512	1518^{+59}_{-53}
y_{cal}	1.0003	$1.0000^{+0.0063}_{-0.0063}$	$10^9 A_s$	2.073	$2.071^{+0.097}_{-0.11}$	$H(0.51)$	90.24	$90.1^{+1.7}_{-1.7}$
A_{217}^{CIB}	42.7	46^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8730	$1.874^{+0.042}_{-0.040}$	$D_M(0.51)$	1961	1968^{+69}_{-63}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.99	—	D_{40}	1213.0	1219^{+50}_{-49}	$H(0.61)$	95.76	$95.6^{+1.4}_{-1.3}$
A_{143}^{tSZ}	6.82	$5.4^{+4.2}_{-4.8}$	D_{220}	5742	5738^{+110}_{-110}	$D_M(0.61)$	2284	2291^{+74}_{-68}
A_{100}^{PS}	239	254^{+70}_{-70}	D_{810}	2531.8	2529^{+36}_{-35}	$H(2.33)$	235.04	$235.4^{+4.2}_{-3.8}$
A_{143}^{PS}	50.4	44^{+20}_{-20}	D_{1420}	815.8	814^{+13}_{-12}	$D_M(2.33)$	5743	5750^{+61}_{-61}
$A_{143 \times 217}^{\text{PS}}$	57.7	41^{+20}_{-20}	D_{2000}	232.8	$231.5^{+5.4}_{-5.4}$	$f\sigma_8(0.15)$	0.4420	$0.445^{+0.046}_{-0.041}$
A_{217}^{PS}	123.8	115^{+30}_{-30}	$n_{\text{s},0.002}$	0.9731	$0.970^{+0.020}_{-0.020}$	$\sigma_8(0.15)$	0.7395	$0.740^{+0.026}_{-0.027}$
A^{kSZ}	0.0	—	Y_{P}	0.245477	$0.24544^{+0.00033}_{-0.00036}$	$f\sigma_8(0.38)$	0.4630	$0.465^{+0.036}_{-0.033}$
A_{100}^{dustTT}	8.72	$8.9^{+4.7}_{-4.8}$	$Y_{\text{P}}^{\text{BBN}}$	0.246804	$0.24677^{+0.00033}_{-0.00036}$	$\sigma_8(0.38)$	0.6569	$0.657^{+0.019}_{-0.021}$
A_{143}^{dustTT}	10.61	$10.5^{+4.6}_{-4.5}$	10^5D/H	2.546	$2.56^{+0.15}_{-0.14}$	$f\sigma_8(0.51)$	0.4631	$0.465^{+0.031}_{-0.029}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$17.9^{+8.2}_{-8.4}$	Age/Gyr	13.753	$13.77^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	0.6153	$0.615^{+0.017}_{-0.018}$
A_{217}^{dustTT}	96.4	93^{+20}_{-20}	z_*	1089.41	$1089.6^{+1.6}_{-1.4}$	$f\sigma_8(0.61)$	0.4592	$0.461^{+0.027}_{-0.026}$
c_{100}	0.99969	$0.9996^{+0.0016}_{-0.0016}$	r_*	144.96	$144.9^{+1.4}_{-1.5}$	$\sigma_8(0.61)$	0.5859	$0.585^{+0.016}_{-0.017}$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04143	$1.0414^{+0.0014}_{-0.0014}$	$f\sigma_8(2.33)$	0.2959	$0.2955^{+0.0073}_{-0.0082}$
H_0	68.61	$68.3^{+3.2}_{-3.4}$	$D_M(z_*)/\text{Gpc}$	13.919	$13.91^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	0.3057	$0.3050^{+0.0073}_{-0.0083}$
Ω_Λ	0.7014	$0.697^{+0.039}_{-0.048}$	z_{drag}	1060.24	$1060.1^{+1.5}_{-1.5}$	χ_{simall}^2	395.66	$396.8 (\nu: 1.3)$
Ω_m	0.2986	$0.303^{+0.048}_{-0.039}$	r_{drag}	147.56	$147.5^{+1.4}_{-1.4}$	χ_{plik}^2	752.6	$767.3 (\nu: 15.2)$
$\Omega_m h^2$	0.1405	$0.1411^{+0.0067}_{-0.0061}$	k_{D}	0.14054	$0.1405^{+0.0014}_{-0.0014}$	χ_{prior}^2	1.1	$7.0 (\nu: 6.1)$
$\Omega_m h^3$	0.09643	$0.0963^{+0.0013}_{-0.0013}$	$100\theta_{\text{D}}$	0.16059	$0.16071^{+0.00085}_{-0.00077}$	χ_{CMB}^2	1148.2	$1164.1 (\nu: 16.6)$
σ_8	0.7988	$0.800^{+0.032}_{-0.032}$	z_{eq}	3343	3357^{+160}_{-150}			

Best-fit $\chi_{\text{eff}}^2 = 1149.29$; $\bar{\chi}_{\text{eff}}^2 = 1171.08$; $R - 1 = 0.00738$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.66 plik_rd12_HM_v22_TT: 752.58

3.67 base_Alens_plikHM_TTTEE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022605	$0.02256^{+0.00045}_{-0.00044}$	Ω_Λ	0.6966	$0.695^{+0.024}_{-0.026}$	r_{drag}	147.32	$147.30^{+0.84}_{-0.84}$
$\Omega_c h^2$	0.11816	$0.1184^{+0.0041}_{-0.0040}$	Ω_m	0.3034	$0.305^{+0.026}_{-0.024}$	k_D	0.14080	$0.14079^{+0.00086}_{-0.00085}$
$100\theta_{\text{MC}}$	1.04113	$1.04110^{+0.00085}_{-0.00086}$	$\Omega_m h^2$	0.14141	$0.1416^{+0.0039}_{-0.0038}$	$100\theta_D$	0.160530	$0.16058^{+0.00049}_{-0.00049}$
τ	0.108	< 0.198	$\Omega_m h^3$	0.09654	$0.09649^{+0.00080}_{-0.00080}$	z_{eq}	3364	3369^{+92}_{-90}
A_L	1.056	$1.09^{+0.28}_{-0.27}$	σ_8	0.849	$0.833^{+0.10}_{-0.073}$	k_{eq}	0.010267	$0.01028^{+0.00028}_{-0.00027}$
$\ln(10^{10} A_s)$	3.147	$3.11^{+0.23}_{-0.17}$	S_8	0.854	$0.840^{+0.12}_{-0.088}$	$100\theta_{\text{eq}}$	0.8210	$0.820^{+0.018}_{-0.017}$
n_s	0.9723	$0.970^{+0.014}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	0.468	$0.460^{+0.063}_{-0.048}$	$100\theta_{s,\text{eq}}$	0.4532	$0.4527^{+0.0090}_{-0.0088}$
A_{217}^{CIB}	42.2	45^{+20}_{-20}	$\sigma_8 \Omega_m^{0.25}$	0.630	$0.619^{+0.077}_{-0.060}$	$H(0.15)$	73.47	$73.3^{+1.6}_{-1.6}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.997	—	$\sigma_8/h^{0.5}$	1.027	$1.01^{+0.12}_{-0.095}$	$D_M(0.15)$	635.6	637^{+16}_{-16}
A_{143}^{tSZ}	6.93	> 1.13	$r_{\text{drag}} h$	100.57	$100.3^{+3.3}_{-3.2}$	$H(0.38)$	83.45	$83.4^{+1.2}_{-1.1}$
A_{100}^{PS}	238	251^{+70}_{-70}	$\langle d^2 \rangle^{1/2}$	2.609	$2.60^{+0.16}_{-0.15}$	$D_M(0.38)$	1517.8	1520^{+31}_{-31}
A_{143}^{PS}	49.3	42^{+20}_{-20}	z_{re}	12.4	$10.3^{+8.9}_{-8.5}$	$H(0.51)$	90.09	$90.02^{+0.97}_{-0.90}$
$A_{143 \times 217}^{\text{PS}}$	57.2	41^{+20}_{-20}	$10^9 A_s$	2.327	$2.24^{+0.55}_{-0.36}$	$D_M(0.51)$	1967.5	1970^{+37}_{-37}
A_{217}^{PS}	124.0	116^{+20}_{-30}	$10^9 A_s e^{-2\tau}$	1.8747	$1.875^{+0.031}_{-0.033}$	$H(0.61)$	95.66	$95.60^{+0.79}_{-0.72}$
A^{kSZ}	0.00	< 8.84	D_{40}	1238	1238^{+80}_{-50}	$D_M(0.61)$	2290.5	2294^{+39}_{-40}
A_{100}^{dustTT}	8.60	$8.7^{+4.8}_{-4.7}$	D_{220}	5736	5738^{+100}_{-100}	$H(2.33)$	235.60	$235.7^{+2.4}_{-2.3}$
A_{143}^{dustTT}	10.62	$10.5^{+4.6}_{-4.7}$	D_{810}	2532.6	2531^{+36}_{-36}	$D_M(2.33)$	5746.5	5749^{+33}_{-34}
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.1^{+8.4}_{-8.6}$	D_{1420}	816.7	815^{+12}_{-12}	$f\sigma_8(0.15)$	0.473	$0.466^{+0.063}_{-0.047}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	D_{2000}	232.82	$232.0^{+4.3}_{-4.2}$	$\sigma_8(0.15)$	0.785	$0.770^{+0.092}_{-0.067}$
A_{100}^{dustTE}	0.111	$0.113^{+0.097}_{-0.095}$	$n_{s,0.002}$	0.9723	$0.970^{+0.014}_{-0.013}$	$f\sigma_8(0.38)$	0.494	$0.486^{+0.061}_{-0.048}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.075}_{-0.076}$	Y_P	0.245482	$0.24547^{+0.00019}_{-0.00017}$	$\sigma_8(0.38)$	0.697	$0.684^{+0.081}_{-0.058}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	Y_P^{BBN}	0.246808	$0.24679^{+0.00019}_{-0.00017}$	$f\sigma_8(0.51)$	0.494	$0.485^{+0.060}_{-0.046}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$10^5 D/H$	2.544	$2.552^{+0.082}_{-0.081}$	$\sigma_8(0.51)$	0.653	$0.640^{+0.076}_{-0.054}$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	Age/Gyr	13.760	$13.766^{+0.072}_{-0.075}$	$f\sigma_8(0.61)$	0.489	$0.481^{+0.059}_{-0.045}$
A_{217}^{dustTE}	2.06	$2.06^{+0.68}_{-0.68}$	z_*	1089.47	$1089.55^{+0.83}_{-0.82}$	$\sigma_8(0.61)$	0.621	$0.609^{+0.072}_{-0.051}$
c_{100}	0.99977	$0.9997^{+0.0016}_{-0.0016}$	r_*	144.73	$144.69^{+0.87}_{-0.87}$	$f\sigma_8(2.33)$	0.3136	$0.307^{+0.037}_{-0.025}$
c_{217}	0.99813	$0.9981^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04130	$1.04127^{+0.00083}_{-0.00084}$	$\sigma_8(2.33)$	0.3237	$0.317^{+0.038}_{-0.026}$
y_{cal}	0.9999	$0.9999^{+0.0064}_{-0.0066}$	$D_M(z_*)/\text{Gpc}$	13.899	$13.896^{+0.079}_{-0.082}$	χ_{plik}^2	2336.5	$2354.1 (\nu: 17.3)$
H_0	68.27	$68.1^{+1.9}_{-1.8}$	z_{drag}	1060.35	$1060.26^{+0.86}_{-0.86}$	χ_{prior}^2	1.4	$11.3 (\nu: 9.8)$

Best-fit $\chi_{\text{eff}}^2 = 2337.89$; $\bar{\chi}_{\text{eff}}^2 = 2365.39$; $R - 1 = 0.00672$
 χ_{eff}^2 : CMB - plik_rd12_HM_v22b_TTTEE: 2336.52

3.68 base_Alens_plikHM_TTTEE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02256^{+0.00045}_{-0.00044}$	Ω_{m}	$0.305^{+0.026}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.16058^{+0.00050}_{-0.00048}$
$\Omega_{\mathrm{c}}h^2$	$0.1184^{+0.0042}_{-0.0040}$	$\Omega_{\mathrm{m}}h^2$	$0.1416^{+0.0039}_{-0.0038}$	z_{eq}	3368^{+92}_{-90}
$100\theta_{\mathrm{MC}}$	$1.04111^{+0.00086}_{-0.00085}$	$\Omega_{\mathrm{m}}h^3$	$0.09648^{+0.00080}_{-0.00079}$	k_{eq}	$0.01028^{+0.00028}_{-0.00027}$
τ	$0.104^{+0.099}_{-0.064}$	σ_8	$0.846^{+0.090}_{-0.061}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.018}_{-0.018}$
A_{L}	$1.05^{+0.25}_{-0.24}$	S_8	$0.853^{+0.11}_{-0.079}$	$100\theta_{\mathrm{s,eq}}$	$0.4528^{+0.0090}_{-0.0089}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.14^{+0.20}_{-0.13}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.467^{+0.058}_{-0.043}$	$H(0.15)$	$73.4^{+1.6}_{-1.6}$
n_{s}	$0.970^{+0.014}_{-0.013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.629^{+0.073}_{-0.050}$	$D_{\mathrm{M}}(0.15)$	637^{+16}_{-16}
A_{217}^{CIB}	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	$1.03^{+0.12}_{-0.077}$	$H(0.38)$	$83.4^{+1.2}_{-1.1}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$r_{\mathrm{drag}}h$	$100.4^{+3.3}_{-3.2}$	$D_{\mathrm{M}}(0.38)$	1520^{+32}_{-31}
A_{143}^{tSZ}	> 1.13	$\langle d^2 \rangle^{1/2}$	$2.60^{+0.16}_{-0.16}$	$H(0.51)$	$90.03^{+0.97}_{-0.90}$
A_{100}^{PS}	250^{+70}_{-70}	z_{re}	< 19.2	$D_{\mathrm{M}}(0.51)$	1970^{+37}_{-37}
A_{143}^{PS}	42^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.31^{+0.49}_{-0.30}$	$H(0.61)$	$95.60^{+0.79}_{-0.72}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.875^{+0.031}_{-0.033}$	$D_{\mathrm{M}}(0.61)$	2293^{+40}_{-40}
A_{217}^{PS}	116^{+20}_{-30}	D_{40}	1244^{+76}_{-50}	$H(2.33)$	$235.7^{+2.4}_{-2.4}$
A^{kSZ}	< 8.79	D_{220}	5737^{+100}_{-100}	$D_{\mathrm{M}}(2.33)$	5749^{+32}_{-34}
$A_{100}^{\mathrm{dustTT}}$	$8.7^{+4.8}_{-4.6}$	D_{810}	2531^{+36}_{-36}	$f\sigma_8(0.15)$	$0.473^{+0.057}_{-0.042}$
$A_{143}^{\mathrm{dustTT}}$	$10.5^{+4.6}_{-4.7}$	D_{1420}	815^{+12}_{-12}	$\sigma_8(0.15)$	$0.783^{+0.082}_{-0.055}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.1^{+8.4}_{-8.6}$	D_{2000}	$232.1^{+4.3}_{-4.2}$	$f\sigma_8(0.38)$	$0.493^{+0.058}_{-0.040}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.970^{+0.014}_{-0.013}$	$\sigma_8(0.38)$	$0.695^{+0.073}_{-0.047}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.098}_{-0.095}$	Y_{P}	$0.24547^{+0.00019}_{-0.00017}$	$f\sigma_8(0.51)$	$0.493^{+0.057}_{-0.038}$
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.134^{+0.075}_{-0.076}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24679^{+0.00019}_{-0.00017}$	$\sigma_8(0.51)$	$0.650^{+0.068}_{-0.044}$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$10^5\mathrm{D}/\mathrm{H}$	$2.552^{+0.081}_{-0.080}$	$f\sigma_8(0.61)$	$0.488^{+0.053}_{-0.038}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.766^{+0.072}_{-0.075}$	$\sigma_8(0.61)$	$0.619^{+0.065}_{-0.042}$
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{*}	$1089.55^{+0.83}_{-0.82}$	$f\sigma_8(2.33)$	$0.312^{+0.033}_{-0.021}$
$A_{217}^{\mathrm{dustTE}}$	$2.06^{+0.68}_{-0.68}$	r_{*}	$144.70^{+0.87}_{-0.87}$	$\sigma_8(2.33)$	$0.322^{+0.034}_{-0.021}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{*}$	$1.04127^{+0.00084}_{-0.00082}$	f_{2000}^{143}	27^{+8}_{-7}
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.897^{+0.080}_{-0.081}$	$f_{2000}^{143\times 217}$	30^{+5}_{-5}
y_{cal}	$0.9999^{+0.0064}_{-0.0067}$	z_{drag}	$1060.25^{+0.86}_{-0.86}$	f_{2000}^{217}	$105.1^{+5.2}_{-4.9}$
H_0	$68.1^{+1.9}_{-1.9}$	r_{drag}	$147.31^{+0.84}_{-0.83}$	χ_{plik}^2	$2354.1 (\nu: 17.4)$
Ω_{Λ}	$0.695^{+0.024}_{-0.026}$	k_{D}	$0.14078^{+0.00085}_{-0.00085}$	χ_{prior}^2	$11.3 (\nu: 9.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2365.44; R - 1 = 0.00596$$

3.69 base_Alens_plikHM_TTTEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022624	$0.02260^{+0.00046}_{-0.00043}$	Ω_m	0.3028	$0.303^{+0.024}_{-0.023}$	$100\theta_D$	0.160509	$0.16055^{+0.00048}_{-0.00048}$
$\Omega_c h^2$	0.11807	$0.1180^{+0.0039}_{-0.0040}$	$\Omega_m h^2$	0.14134	$0.1412^{+0.0037}_{-0.0037}$	z_{eq}	3362	3359^{+87}_{-88}
$100\theta_{\text{MC}}$	1.04114	$1.04114^{+0.00083}_{-0.00083}$	$\Omega_m h^3$	0.09656	$0.09649^{+0.00079}_{-0.00078}$	k_{eq}	0.010261	$0.01025^{+0.00027}_{-0.00027}$
τ	0.010	< 0.140	σ_8	0.769	$0.804^{+0.073}_{-0.046}$	$100\theta_{\text{eq}}$	0.8214	$0.822^{+0.017}_{-0.017}$
A_L	1.289	$1.17^{+0.23}_{-0.24}$	S_8	0.773	$0.807^{+0.086}_{-0.064}$	$100\theta_{\text{s,eq}}$	0.4534	$0.4537^{+0.0089}_{-0.0085}$
$\ln(10^{10} A_s)$	2.951	$3.04^{+0.17}_{-0.10}$	$\sigma_8 \Omega_m^{0.5}$	0.4233	$0.442^{+0.047}_{-0.035}$	$H(0.15)$	73.52	$73.5^{+1.6}_{-1.5}$
n_s	0.9718	$0.971^{+0.013}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	0.5706	$0.596^{+0.060}_{-0.039}$	$D_M(0.15)$	635.1	635^{+15}_{-15}
y_{cal}	0.9998	$0.99999^{+0.0064}_{-0.0064}$	$\sigma_8/h^{0.5}$	0.931	$0.973^{+0.097}_{-0.060}$	$H(0.38)$	83.49	$83.5^{+1.2}_{-1.1}$
A_{217}^{CIB}	42.4	45^{+20}_{-20}	$r_{\text{drag}} h$	100.65	$100.7^{+3.2}_{-3.1}$	$D_M(0.38)$	1516.9	1517^{+30}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.998	—	$\langle d^2 \rangle^{1/2}$	2.612	$2.60^{+0.15}_{-0.15}$	$H(0.51)$	90.13	$90.12^{+0.96}_{-0.88}$
A_{143}^{tSZ}	6.87	> 1.33	z_{re}	2.1	$7.3^{+7.7}_{-5.6}$	$D_M(0.51)$	1966.4	1966^{+36}_{-36}
A_{100}^{PS}	239	249^{+70}_{-70}	$10^9 A_s$	1.913	$2.09^{+0.39}_{-0.21}$	$H(0.61)$	95.68	$95.68^{+0.78}_{-0.70}$
A_{143}^{PS}	49.5	42^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8749	$1.873^{+0.031}_{-0.032}$	$D_M(0.61)$	2289.2	2289^{+38}_{-39}
$A_{143 \times 217}^{\text{PS}}$	57.5	42^{+20}_{-20}	D_{40}	1208.3	1220^{+47}_{-39}	$H(2.33)$	235.56	$235.5^{+2.3}_{-2.3}$
A_{217}^{PS}	124.2	116^{+30}_{-30}	D_{220}	5739	5737^{+99}_{-100}	$D_M(2.33)$	5745.3	5746^{+32}_{-34}
A^{kSZ}	0.00	< 8.71	D_{810}	2532.6	2531^{+35}_{-35}	$f\sigma_8(0.15)$	0.4283	$0.448^{+0.047}_{-0.034}$
A_{100}^{dustTT}	8.83	$8.8^{+4.8}_{-4.8}$	D_{1420}	816.5	816^{+12}_{-12}	$\sigma_8(0.15)$	0.712	$0.744^{+0.068}_{-0.041}$
A_{143}^{dustTT}	10.73	$10.6^{+4.5}_{-4.6}$	D_{2000}	232.68	$232.3^{+4.3}_{-4.2}$	$f\sigma_8(0.38)$	0.4476	$0.468^{+0.047}_{-0.032}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.1^{+8.5}_{-8.3}$	$n_{\text{s},0.002}$	0.9718	$0.971^{+0.013}_{-0.013}$	$\sigma_8(0.38)$	0.6318	$0.660^{+0.060}_{-0.035}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	Y_{P}	0.245488	$0.24548^{+0.00020}_{-0.00017}$	$f\sigma_8(0.51)$	0.4472	$0.467^{+0.046}_{-0.030}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.095}$	$Y_{\text{P}}^{\text{BBN}}$	0.246815	$0.24681^{+0.00020}_{-0.00017}$	$\sigma_8(0.51)$	0.5916	$0.618^{+0.056}_{-0.033}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.077}_{-0.076}$	$10^5 D/H$	2.540	$2.545^{+0.079}_{-0.081}$	$f\sigma_8(0.61)$	0.4432	$0.463^{+0.046}_{-0.028}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	Age/Gyr	13.757	$13.759^{+0.070}_{-0.074}$	$\sigma_8(0.61)$	0.5632	$0.589^{+0.053}_{-0.031}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	z_*	1089.44	$1089.46^{+0.80}_{-0.82}$	$f\sigma_8(2.33)$	0.2843	$0.297^{+0.027}_{-0.015}$
$A_{143 \times 217}^{\text{dustTE}}$	0.657	$0.66^{+0.21}_{-0.21}$	r_*	144.74	$144.78^{+0.87}_{-0.84}$	$\sigma_8(2.33)$	0.2935	$0.307^{+0.028}_{-0.016}$
A_{217}^{dustTE}	2.05	$2.05^{+0.69}_{-0.69}$	$100\theta_*$	1.04131	$1.04131^{+0.00081}_{-0.00082}$	χ_{lowl}^2	21.43	$22.6 (\nu: 1.0)$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.900	$13.904^{+0.080}_{-0.077}$	χ_{plik}^2	2337.2	$2353.9 (\nu: 16.8)$
c_{217}	0.99815	$0.9981^{+0.0016}_{-0.0016}$	z_{drag}	1060.39	$1060.31^{+0.88}_{-0.84}$	χ_{prior}^2	1.4	$11.2 (\nu: 9.6)$
H_0	68.32	$68.3^{+1.8}_{-1.8}$	r_{drag}	147.32	$147.38^{+0.84}_{-0.80}$	χ_{CMB}^2	2358.7	$2376.5 (\nu: 17.5)$
Ω_Λ	0.6972	$0.697^{+0.023}_{-0.024}$	k_D	0.14081	$0.14074^{+0.00083}_{-0.00086}$			

Best-fit $\chi_{\text{eff}}^2 = 2360.02$; $\bar{\chi}_{\text{eff}}^2 = 2387.73$; $R - 1 = 0.00854$

χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 21.43 plik_rd12_HM_v22b_TTTEE: 2337.22

3.70 base_Alens_plikHM_TTTEEE_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02260^{+0.00046}_{-0.00043}$	$\Omega_{\mathrm{m}}h^2$	$0.1411^{+0.0037}_{-0.0037}$	k_{eq}	$0.01025^{+0.00027}_{-0.00027}$
$\Omega_{\mathrm{c}}h^2$	$0.1179^{+0.0039}_{-0.0040}$	$\Omega_{\mathrm{m}}h^3$	$0.09649^{+0.00080}_{-0.00078}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.018}_{-0.017}$
$100\theta_{\mathrm{MC}}$	$1.04115^{+0.00082}_{-0.00085}$	σ_8	$0.822^{+0.062}_{-0.038}$	$100\theta_{\mathrm{s,eq}}$	$0.4539^{+0.0090}_{-0.0086}$
τ	$0.077^{+0.072}_{-0.036}$	S_8	$0.824^{+0.077}_{-0.060}$	$H(0.15)$	$73.6^{+1.6}_{-1.5}$
A_{L}	$1.12^{+0.19}_{-0.21}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.042}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	635^{+15}_{-15}
$\ln(10^{10}A_{\mathrm{s}})$	$3.08^{+0.14}_{-0.079}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.052}_{-0.035}$	$H(0.38)$	$83.5^{+1.2}_{-1.1}$
n_{s}	$0.972^{+0.013}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.994^{+0.083}_{-0.052}$	$D_{\mathrm{M}}(0.38)$	1516^{+30}_{-31}
y_{cal}	$0.99999^{+0.0065}_{-0.0063}$	$r_{\mathrm{drag}}h$	$100.8^{+3.2}_{-3.1}$	$H(0.51)$	$90.14^{+0.95}_{-0.88}$
A_{217}^{CIB}	44^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.60^{+0.15}_{-0.16}$	$D_{\mathrm{M}}(0.51)$	1966^{+35}_{-36}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 15.5	$H(0.61)$	$95.69^{+0.78}_{-0.71}$
A_{143}^{tSZ}	> 1.36	$10^9 A_{\mathrm{s}}$	$2.19^{+0.33}_{-0.17}$	$D_{\mathrm{M}}(0.61)$	2288^{+38}_{-39}
A_{100}^{PS}	248^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.873^{+0.032}_{-0.032}$	$H(2.33)$	$235.4^{+2.3}_{-2.3}$
A_{143}^{PS}	41^{+20}_{-20}	D_{40}	1225^{+47}_{-39}	$D_{\mathrm{M}}(2.33)$	5746^{+32}_{-34}
$A_{143 \times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{220}	5736^{+100}_{-97}	$f\sigma_8(0.15)$	$0.457^{+0.042}_{-0.032}$
A_{217}^{PS}	116^{+20}_{-30}	D_{810}	2530^{+36}_{-34}	$\sigma_8(0.15)$	$0.760^{+0.057}_{-0.034}$
A^{kSZ}	< 8.64	D_{1420}	816^{+12}_{-12}	$f\sigma_8(0.38)$	$0.478^{+0.041}_{-0.028}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.8}_{-4.8}$	D_{2000}	$232.4^{+4.3}_{-4.2}$	$\sigma_8(0.38)$	$0.675^{+0.050}_{-0.029}$
$A_{143}^{\mathrm{dustTT}}$	$10.5^{+4.5}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	$0.477^{+0.040}_{-0.026}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.0^{+8.5}_{-8.4}$	Y_{P}	$0.24548^{+0.00020}_{-0.00017}$	$\sigma_8(0.51)$	$0.632^{+0.047}_{-0.026}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24681^{+0.00020}_{-0.00017}$	$f\sigma_8(0.61)$	$0.473^{+0.039}_{-0.024}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.099}_{-0.095}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.544^{+0.080}_{-0.082}$	$\sigma_8(0.61)$	$0.602^{+0.045}_{-0.025}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.076}_{-0.076}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.758^{+0.071}_{-0.075}$	$f\sigma_8(2.33)$	$0.304^{+0.023}_{-0.012}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.45^{+0.81}_{-0.82}$	$\sigma_8(2.33)$	$0.314^{+0.024}_{-0.012}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	r_*	$144.81^{+0.87}_{-0.84}$	f_{2000}^{143}	26^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	$1.04132^{+0.00081}_{-0.00084}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
$A_{217}^{\mathrm{dustTE}}$	$2.05^{+0.69}_{-0.68}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.906^{+0.080}_{-0.078}$	f_{2000}^{217}	$104.8^{+4.9}_{-4.9}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.31^{+0.92}_{-0.88}$	χ_{lowl}^2	$23.2 (\nu: 1.1)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	$147.40^{+0.84}_{-0.82}$	χ_{plik}^2	$2353.8 (\nu: 17.0)$
H_0	$68.4^{+1.9}_{-1.8}$	k_{D}	$0.14071^{+0.00085}_{-0.00086}$	χ_{prior}^2	$11.2 (\nu: 9.5)$
Ω_{Λ}	$0.698^{+0.023}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.16055^{+0.00049}_{-0.00049}$	χ_{CMB}^2	$2377.1 (\nu: 17.8)$
Ω_{m}	$0.302^{+0.024}_{-0.023}$	z_{eq}	3357^{+88}_{-89}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2388.28; R - 1 = 0.01143$$

3.71 base_Alens_plikHM_TTTEE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022613	$0.02256^{+0.00046}_{-0.00044}$	$\Omega_m h^2$	0.14147	$0.1418^{+0.0037}_{-0.0037}$	k_{eq}	0.010271	$0.01029^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	0.11821	$0.1186^{+0.0040}_{-0.0040}$	$\Omega_m h^3$	0.09656	$0.09650^{+0.00079}_{-0.00075}$	$100\theta_{\text{eq}}$	0.8208	$0.819^{+0.017}_{-0.017}$
$100\theta_{\text{MC}}$	1.04112	$1.04109^{+0.00082}_{-0.00084}$	σ_8	0.8025	$0.802^{+0.022}_{-0.026}$	$100\theta_{\text{s,eq}}$	0.4531	$0.4524^{+0.0089}_{-0.0085}$
τ	0.0518	$0.049^{+0.021}_{-0.028}$	S_8	0.8074	$0.810^{+0.051}_{-0.049}$	$H(0.15)$	73.46	$73.3^{+1.6}_{-1.6}$
A_L	1.183	$1.17^{+0.17}_{-0.16}$	$\sigma_8 \Omega_m^{0.5}$	0.4422	$0.443^{+0.028}_{-0.027}$	$D_M(0.15)$	635.7	637^{+16}_{-15}
$\ln(10^{10} A_s)$	3.035	$3.031^{+0.045}_{-0.057}$	$\sigma_8 \Omega_m^{0.25}$	0.5957	$0.596^{+0.026}_{-0.026}$	$H(0.38)$	83.45	$83.3^{+1.2}_{-1.1}$
n_s	0.9714	$0.969^{+0.013}_{-0.012}$	$\sigma_8/h^{0.5}$	0.9714	$0.972^{+0.037}_{-0.038}$	$D_M(0.38)$	1518.0	1521^{+31}_{-31}
y_{cal}	0.9997	$1.0000^{+0.0065}_{-0.0064}$	$r_{\text{drag}} h$	100.54	$100.2^{+3.3}_{-3.1}$	$H(0.51)$	90.09	$90.00^{+0.96}_{-0.90}$
A_{217}^{CIB}	42.4	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.612	$2.60^{+0.15}_{-0.16}$	$D_M(0.51)$	1967.7	1972^{+37}_{-37}
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	z_{re}	7.35	$7.1^{+2.1}_{-3.2}$	$H(0.61)$	95.66	$95.58^{+0.79}_{-0.73}$
A_{143}^{tSZ}	6.81	$5.6^{+4.3}_{-4.5}$	$10^9 A_s$	2.080	$2.072^{+0.096}_{-0.11}$	$D_M(0.61)$	2290.7	2295^{+39}_{-40}
A_{100}^{PS}	240	252^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8752	$1.877^{+0.032}_{-0.031}$	$H(2.33)$	235.64	$235.8^{+2.3}_{-2.3}$
A_{143}^{PS}	49.6	43^{+20}_{-20}	D_{40}	1216.0	1222^{+36}_{-37}	$D_M(2.33)$	5746.4	5750^{+33}_{-34}
$A_{143 \times 217}^{\text{PS}}$	57.4	42^{+20}_{-20}	D_{220}	5738	5743^{+99}_{-99}	$f\sigma_8(0.15)$	0.4474	$0.448^{+0.026}_{-0.025}$
A_{217}^{PS}	124.1	116^{+30}_{-30}	D_{810}	2532.4	2532^{+36}_{-35}	$\sigma_8(0.15)$	0.7423	$0.741^{+0.019}_{-0.023}$
A^{kSZ}	0.00	< 9.05	D_{1420}	816.3	815^{+12}_{-12}	$f\sigma_8(0.38)$	0.4673	$0.468^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.69	$8.8^{+4.7}_{-4.8}$	D_{2000}	232.62	$231.9^{+4.3}_{-4.2}$	$\sigma_8(0.38)$	0.6589	$0.658^{+0.016}_{-0.019}$
A_{143}^{dustTT}	10.73	$10.6^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9714	$0.969^{+0.013}_{-0.012}$	$f\sigma_8(0.51)$	0.4668	$0.467^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.1^{+8.5}_{-8.4}$	Y_{P}	0.245484	$0.24546^{+0.00019}_{-0.00017}$	$\sigma_8(0.51)$	0.6170	$0.616^{+0.015}_{-0.018}$
A_{217}^{dustTT}	95.4	93^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246811	$0.24679^{+0.00020}_{-0.00018}$	$f\sigma_8(0.61)$	0.4625	$0.462^{+0.017}_{-0.018}$
A_{100}^{dustTE}	0.113	$0.114^{+0.10}_{-0.096}$	$10^5 D/H$	2.542	$2.552^{+0.082}_{-0.083}$	$\sigma_8(0.61)$	0.5873	$0.586^{+0.014}_{-0.017}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.076}_{-0.075}$	Age/Gyr	13.759	$13.767^{+0.073}_{-0.075}$	$f\sigma_8(2.33)$	0.2964	$0.2957^{+0.0069}_{-0.0084}$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	z_*	1089.46	$1089.57^{+0.84}_{-0.84}$	$\sigma_8(2.33)$	0.3059	$0.3051^{+0.0071}_{-0.0087}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	r_*	144.71	$144.66^{+0.84}_{-0.82}$	f_{2000}^{143}	25.6	27^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	0.659	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04128	$1.04126^{+0.00080}_{-0.00083}$	$f_{2000}^{143 \times 217}$	29.7	30^{+5}_{-5}
A_{217}^{dustTE}	2.07	$2.06^{+0.70}_{-0.69}$	$D_M(z_*)/\text{Gpc}$	13.897	$13.893^{+0.076}_{-0.077}$	f_{2000}^{217}	104.3	$105.4^{+5.0}_{-5.0}$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.35	$1060.26^{+0.89}_{-0.86}$	χ_{small}^2	395.71	$396.9 (\nu: 1.4)$
c_{217}	0.99810	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	147.30	$147.26^{+0.80}_{-0.80}$	χ_{plik}^2	2337.0	$2353.9 (\nu: 16.5)$
H_0	68.25	$68.1^{+1.9}_{-1.8}$	k_{D}	0.14083	$0.14083^{+0.00085}_{-0.00082}$	χ_{prior}^2	1.3	$11.3 (\nu: 9.7)$
Ω_Λ	0.6963	$0.694^{+0.024}_{-0.025}$	$100\theta_{\text{D}}$	0.16052	$0.16058^{+0.00050}_{-0.00049}$	χ_{CMB}^2	2732.7	$2750.8 (\nu: 17.8)$
Ω_{m}	0.3037	$0.306^{+0.025}_{-0.024}$	z_{eq}	3365	3373^{+88}_{-88}			

Best-fit $\chi_{\text{eff}}^2 = 2734.06$; $\bar{\chi}_{\text{eff}}^2 = 2762.07$; $R - 1 = 0.00592$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.71 plik_rd12_HM_v22b_TTTEE: 2337.00

3.72 base_Alens_CamSpecHM_TT

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02262	$0.02256^{+0.00082}_{-0.00077}$ ($+0.2\sigma$)	S_8	0.848	$0.83^{+0.13}_{-0.11}$ ($+0.0\sigma$)	$100\theta_{\mathrm{eq}}$	0.8273	$0.826^{+0.032}_{-0.031}$ ($+0.1\sigma$)
$\Omega_{\mathrm{c}} h^2$	0.1168	$0.1172^{+0.0073}_{-0.0070}$ (-0.1σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.464	$0.457^{+0.072}_{-0.062}$ ($+0.0\sigma$)	$100\theta_{\mathrm{s,eq}}$	0.4565	$0.456^{+0.016}_{-0.016}$ ($+0.1\sigma$)
$100\theta_{\mathrm{MC}}$	1.04141	$1.0414^{+0.0014}_{-0.0014}$ ($+0.2\sigma$)	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.630	$0.618^{+0.086}_{-0.071}$ ($+0.1\sigma$)	$H(0.15)$	73.98	$73.8^{+3.0}_{-2.9}$ ($+0.2\sigma$)
τ	0.121	< 0.218 ($+0.1\sigma$)	$\sigma_8/h^{0.5}$	1.030	$1.01^{+0.14}_{-0.11}$ ($+0.1\sigma$)	$D_{\mathrm{M}}(0.15)$	630.6	633^{+29}_{-28} (-0.2σ)
A_{L}	1.080	$1.12^{+0.37}_{-0.31}$ (-0.0σ)	$r_{\mathrm{drag}} h$	101.7	$101.3^{+5.9}_{-5.8}$ ($+0.1\sigma$)	$H(0.38)$	83.81	$83.7^{+2.3}_{-2.1}$ ($+0.2\sigma$)
$\ln(10^{10} A_{\mathrm{s}})$	3.169	$3.12^{+0.24}_{-0.19}$ ($+0.1\sigma$)	$\langle d^2 \rangle^{1/2}$	2.642	$2.63^{+0.20}_{-0.21}$ ($+0.0\sigma$)	$D_{\mathrm{M}}(0.38)$	1508	1512^{+58}_{-57} (-0.2σ)
n_{s}	0.9764	$0.974^{+0.022}_{-0.022}$ ($+0.3\sigma$)	z_{re}	13.4	$11.0^{+9.4}_{-9.2}$ ($+0.1\sigma$)	$H(0.51)$	90.37	$90.3^{+1.8}_{-1.7}$ ($+0.2\sigma$)
A_{100}^{PS}	220	230^{+70}_{-70} (-0.8σ)	$10^9 A_{\mathrm{s}}$	2.38	$2.28^{+0.60}_{-0.41}$ ($+0.1\sigma$)	$D_{\mathrm{M}}(0.51)$	1956	1961^{+68}_{-67} (-0.2σ)
A_{143}^{PS}	43.7	34^{+20}_{-20} (-1.0σ)	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8663	$1.867^{+0.041}_{-0.041}$ (-0.3σ)	$H(0.61)$	95.86	$95.8^{+1.5}_{-1.3}$ ($+0.2\sigma$)
A_{217}^{PS}	108.4	104^{+30}_{-30} (-1.1σ)	D_{40}	1235	1233^{+88}_{-64} (-0.1σ)	$D_{\mathrm{M}}(0.61)$	2278	2283^{+73}_{-73} (-0.2σ)
A_{217}^{CIB}	37.8	37^{+20}_{-20} (-1.2σ)	D_{220}	5724	5723^{+110}_{-110} (-0.2σ)	$H(2.33)$	234.73	$235.0^{+4.2}_{-4.0}$ (-0.1σ)
A_{143}^{tSZ}	6.31	< 8.91 (-0.7σ)	D_{810}	2526.9	2525^{+37}_{-36} (-0.2σ)	$D_{\mathrm{M}}(2.33)$	5739	5743^{+61}_{-64} (-0.2σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.764	> 0.353	D_{1420}	815.5	814^{+13}_{-13} (-0.0σ)	$f\sigma_8(0.15)$	0.470	$0.463^{+0.070}_{-0.061}$ ($+0.0\sigma$)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.78	—	D_{2000}	232.9	$232.1^{+5.6}_{-5.6}$ ($+0.1\sigma$)	$\sigma_8(0.15)$	0.791	$0.774^{+0.099}_{-0.077}$ ($+0.1\sigma$)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.89	—	$n_{\mathrm{s},0.002}$	0.9764	$0.974^{+0.022}_{-0.022}$ ($+0.3\sigma$)	$f\sigma_8(0.38)$	0.494	$0.484^{+0.068}_{-0.057}$ ($+0.1\sigma$)
A^{kSZ}	0.0	—	Y_{P}	0.245487	$0.24547^{+0.00035}_{-0.00034}$ ($+0.2\sigma$)	$\sigma_8(0.38)$	0.703	$0.688^{+0.088}_{-0.066}$ ($+0.1\sigma$)
A_{100}^{dust}	0.99	$1.00^{+0.50}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246814	$0.24679^{+0.00035}_{-0.00034}$ ($+0.2\sigma$)	$f\sigma_8(0.51)$	0.494	$0.485^{+0.066}_{-0.054}$ ($+0.1\sigma$)
A_{143}^{dust}	0.965	$0.95^{+0.45}_{-0.46}$	$10^5 \mathrm{D}/\mathrm{H}$	2.541	$2.55^{+0.15}_{-0.14}$ (-0.2σ)	$\sigma_8(0.51)$	0.659	$0.644^{+0.082}_{-0.061}$ ($+0.1\sigma$)
A_{217}^{dust}	0.989	$0.98^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	13.744	$13.75^{+0.13}_{-0.14}$ (-0.2σ)	$f\sigma_8(0.61)$	0.490	$0.481^{+0.065}_{-0.052}$ ($+0.1\sigma$)
$A_{143 \times 217}^{\mathrm{dust}}$	1.007	$1.01^{+0.41}_{-0.42}$	z_*	1089.33	$1089.4^{+1.5}_{-1.5}$ (-0.2σ)	$\sigma_8(0.61)$	0.628	$0.614^{+0.079}_{-0.058}$ ($+0.1\sigma$)
y_{cal}	1.0001	$1.0000^{+0.0065}_{-0.0064}$ (-0.0σ)	r_*	145.08	$145.0^{+1.5}_{-1.5}$ ($+0.1\sigma$)	$f\sigma_8(2.33)$	0.3172	$0.310^{+0.040}_{-0.029}$ ($+0.1\sigma$)
c_{100}	0.99783	$0.9976^{+0.0027}_{-0.0027}$ (-3.4σ)	$100\theta_*$	1.04157	$1.0415^{+0.0014}_{-0.0014}$ ($+0.2\sigma$)	$\sigma_8(2.33)$	0.3278	$0.320^{+0.042}_{-0.029}$ ($+0.1\sigma$)
c_{217}	1.00083	$1.0008^{+0.0040}_{-0.0040}$ ($+4.2\sigma$)	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.929	$13.92^{+0.13}_{-0.14}$ ($+0.1\sigma$)	f_{2000}^{143}	25.8	26^{+9}_{-9} (-0.3σ)
H_0	68.87	$68.7^{+3.5}_{-3.4}$ ($+0.2\sigma$)	z_{drag}	1060.28	$1060.2^{+1.6}_{-1.5}$ ($+0.2\sigma$)	f_{2000}^{217}	103.7	$104.5^{+6.4}_{-6.3}$ (-0.4σ)
Ω_{Λ}	0.7048	$0.701^{+0.041}_{-0.047}$ ($+0.1\sigma$)	r_{drag}	147.67	$147.6^{+1.4}_{-1.4}$ ($+0.1\sigma$)	$f_{2000}^{143 \times 217}$	28.8	29^{+7}_{-7} (-0.4σ)
Ω_{m}	0.2952	$0.299^{+0.047}_{-0.041}$ (-0.1σ)	k_{D}	0.14044	$0.1404^{+0.0014}_{-0.0014}$ (-0.0σ)	$\chi_{\mathrm{CamSpec}}^2$	7045.0	7059.9 ($\nu: 14.8$)
$\Omega_{\mathrm{m}} h^2$	0.1400	$0.1404^{+0.0068}_{-0.0064}$ (-0.1σ)	$100\theta_{\mathrm{D}}$	0.16060	$0.16066^{+0.00082}_{-0.00080}$ (-0.1σ)	χ_{prior}^2	1.4	7.2 ($\nu: 5.4$) ($+0.0\sigma$)
$\Omega_{\mathrm{m}} h^3$	0.09645	$0.0964^{+0.0013}_{-0.0013}$ ($+0.1\sigma$)	z_{eq}	3331	3341^{+160}_{-150} (-0.1σ)			
σ_8	0.855	$0.836^{+0.11}_{-0.086}$ ($+0.1\sigma$)	k_{eq}	0.010167	$0.01020^{+0.00050}_{-0.00047}$ (-0.1σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 7046.45$; $\Delta\chi_{\mathrm{eff}}^2 = 6293.22$; $\bar{\chi}_{\mathrm{eff}}^2 = 7067.10$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.84$; $R - 1 = 0.00805$
 χ_{eff}^2 : CMB - CamSpec like_10.7HM: 7045.02

3.73 base_Alens_CamSpecHM_TT_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02248^{+0.00059}_{-0.00058}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.461^{+0.064}_{-0.048}$	$H(0.15)$	$73.4^{+1.4}_{-1.3}$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0034}_{-0.0034}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.621^{+0.080}_{-0.063}$	$D_{\mathrm{M}}(0.15)$	636^{+13}_{-13}
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0012}_{-0.0011}$	$\sigma_8/h^{0.5}$	$1.01^{+0.13}_{-0.10}$	$H(0.38)$	$83.4^{+1.1}_{-1.0}$
τ	< 0.211	$r_{\mathrm{drag}} h$	$100.6^{+2.7}_{-2.6}$	$D_{\mathrm{M}}(0.38)$	1519^{+27}_{-27}
A_{L}	$1.11^{+0.33}_{-0.29}$	$\langle d^2 \rangle^{1/2}$	$2.62^{+0.19}_{-0.20}$	$H(0.51)$	$90.04^{+0.89}_{-0.85}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.24}_{-0.18}$	z_{re}	$10.8^{+9.4}_{-9.1}$	$D_{\mathrm{M}}(0.51)$	1969^{+32}_{-32}
n_{s}	$0.972^{+0.013}_{-0.013}$	$10^9 A_{\mathrm{s}}$	$2.27^{+0.58}_{-0.39}$	$H(0.61)$	$95.60^{+0.77}_{-0.72}$
A_{100}^{PS}	231^{+60}_{-60}	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.031}_{-0.030}$	$D_{\mathrm{M}}(0.61)$	2292^{+34}_{-35}
A_{143}^{PS}	35^{+20}_{-20}	D_{40}	1236^{+86}_{-52}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
A_{217}^{PS}	104^{+30}_{-30}	D_{220}	5719^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5750^{+36}_{-38}
A_{217}^{CIB}	37^{+20}_{-20}	D_{810}	2526^{+38}_{-36}	$f\sigma_8(0.15)$	$0.466^{+0.064}_{-0.048}$
A_{143}^{tSZ}	< 8.93	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.774^{+0.098}_{-0.071}$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.354	D_{2000}	$231.7^{+5.1}_{-4.9}$	$f\sigma_8(0.38)$	$0.487^{+0.063}_{-0.050}$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.972^{+0.013}_{-0.013}$	$\sigma_8(0.38)$	$0.687^{+0.087}_{-0.062}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24544^{+0.00025}_{-0.00025}$	$f\sigma_8(0.51)$	$0.487^{+0.063}_{-0.049}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00025}_{-0.00025}$	$\sigma_8(0.51)$	$0.644^{+0.081}_{-0.058}$
A_{100}^{dust}	$1.00^{+0.49}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.57^{+0.11}_{-0.11}$	$f\sigma_8(0.61)$	$0.482^{+0.062}_{-0.047}$
A_{143}^{dust}	$0.95^{+0.45}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.768^{+0.081}_{-0.085}$	$\sigma_8(0.61)$	$0.613^{+0.077}_{-0.055}$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.61^{+0.88}_{-0.86}$	$f\sigma_8(2.33)$	$0.309^{+0.039}_{-0.028}$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.42}$	r_*	$144.84^{+0.84}_{-0.84}$	$\sigma_8(2.33)$	$0.319^{+0.040}_{-0.028}$
y_{cal}	$1.0000^{+0.0063}_{-0.0065}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011}$	f_{2000}^{143}	27^{+9}_{-8}
c_{100}	$0.9976^{+0.0026}_{-0.0028}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.908^{+0.083}_{-0.082}$	f_{2000}^{217}	$104.9^{+6.0}_{-5.6}$
c_{217}	$1.0008^{+0.0040}_{-0.0041}$	z_{drag}	$1060.1^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
H_0	$68.2^{+1.6}_{-1.6}$	r_{drag}	$147.48^{+0.92}_{-0.91}$	$\chi_{\mathrm{CamSpec}}^2$	$7059.1 (\nu: 13.8)$
Ω_{Λ}	$0.697^{+0.020}_{-0.021}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{6\mathrm{DF}}^2$	$0.046 (\nu: 0.0)$
Ω_{m}	$0.303^{+0.021}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16072^{+0.00077}_{-0.00069}$	χ_{MGS}^2	$1.86 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0032}_{-0.0032}$	z_{eq}	3359^{+77}_{-77}	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 (\nu: 0.6)$
$\Omega_{\mathrm{m}} h^3$	$0.0963^{+0.0013}_{-0.0013}$	k_{eq}	$0.01025^{+0.00024}_{-0.00023}$	χ_{prior}^2	$7.2 (\nu: 5.4)$
σ_8	$0.837^{+0.11}_{-0.078}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.015}_{-0.014}$	χ_{BAO}^2	$6.0 (\nu: 0.7)$
S_8	$0.842^{+0.12}_{-0.088}$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0076}_{-0.0074}$		
$\bar{\chi}_{\mathrm{eff}}^2 = 7072.33; R - 1 = 0.01128$					

3.74 base_Alens_CamSpecHM_TT_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02256^{+0.00081}_{-0.00078} \quad (+0.2\sigma)$	S_8	$0.85^{+0.12}_{-0.11} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.032}_{-0.031} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1171^{+0.0073}_{-0.0069} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.464^{+0.067}_{-0.058} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.016}_{-0.016} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.628^{+0.079}_{-0.064} \quad (+0.1\sigma)$	$H(0.15)$	$73.8^{+3.0}_{-2.9} \quad (+0.1\sigma)$
τ	$0.114^{+0.11}_{-0.074} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.03^{+0.13}_{-0.098} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$632^{+29}_{-28} \quad (-0.1\sigma)$
A_{L}	$1.08^{+0.32}_{-0.28} \quad (-0.0\sigma)$	$r_{\mathrm{drag}}h$	$101.4^{+5.9}_{-5.8} \quad (+0.1\sigma)$	$H(0.38)$	$83.7^{+2.3}_{-2.1} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.21}_{-0.15} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.63^{+0.20}_{-0.20} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1511^{+58}_{-56} \quad (-0.1\sigma)$
n_{s}	$0.975^{+0.022}_{-0.021} \quad (+0.3\sigma)$	z_{re}	$< 20.3 \quad (+0.2\sigma)$	$H(0.51)$	$90.3^{+1.8}_{-1.6} \quad (+0.2\sigma)$
A_{100}^{PS}	$229^{+70}_{-70} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}}$	$2.35^{+0.55}_{-0.35} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1959^{+68}_{-67} \quad (-0.1\sigma)$
A_{143}^{PS}	$34^{+20}_{-20} \quad (-1.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.866^{+0.041}_{-0.040} \quad (-0.2\sigma)$	$H(0.61)$	$95.8^{+1.5}_{-1.3} \quad (+0.2\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{40}	$1238^{+83}_{-63} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2282^{+73}_{-72} \quad (-0.1\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.3\sigma)$	D_{220}	$5721^{+110}_{-110} \quad (-0.2\sigma)$	$H(2.33)$	$234.9^{+4.2}_{-3.9} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.7\sigma)$	D_{810}	$2525^{+37}_{-36} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5742^{+61}_{-64} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.353	D_{1420}	$814^{+14}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.470^{+0.065}_{-0.057} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$232.2^{+5.6}_{-5.6} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.787^{+0.088}_{-0.065} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.975^{+0.022}_{-0.021} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.492^{+0.062}_{-0.052} \quad (+0.1\sigma)$
A^{kSZ}	—	Y_{P}	$0.24547^{+0.00035}_{-0.00034} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.699^{+0.079}_{-0.056} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24680^{+0.00035}_{-0.00034} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.492^{+0.061}_{-0.048} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.55^{+0.15}_{-0.14} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.655^{+0.074}_{-0.052} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.75^{+0.13}_{-0.14} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.488^{+0.059}_{-0.046} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.41}_{-0.41}$	z_*	$1089.4^{+1.5}_{-1.5} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.624^{+0.070}_{-0.049} \quad (+0.1\sigma)$
y_{cal}	$1.0000^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	r_*	$145.0^{+1.5}_{-1.5} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.315^{+0.036}_{-0.024} \quad (+0.1\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	$1.0415^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.326^{+0.037}_{-0.025} \quad (+0.2\sigma)$
c_{217}	$1.0008^{+0.0040}_{-0.0040} \quad (+4.2\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.13}_{-0.13} \quad (+0.1\sigma)$	f_{2000}^{143}	$26^{+9}_{-9} \quad (-0.3\sigma)$
H_0	$68.7^{+3.4}_{-3.4} \quad (+0.1\sigma)$	z_{drag}	$1060.2^{+1.6}_{-1.5} \quad (+0.1\sigma)$	f_{2000}^{217}	$104.4^{+6.5}_{-6.3} \quad (-0.4\sigma)$
Ω_{Λ}	$0.702^{+0.040}_{-0.046} \quad (+0.1\sigma)$	r_{drag}	$147.6^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+7}_{-7} \quad (-0.4\sigma)$
Ω_{m}	$0.298^{+0.046}_{-0.040} \quad (-0.1\sigma)$	k_{D}	$0.1404^{+0.0014}_{-0.0014} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7059.9 \quad (\nu: 14.8)$
$\Omega_{\mathrm{m}}h^2$	$0.1403^{+0.0067}_{-0.0064} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16066^{+0.00082}_{-0.00080} \quad (-0.1\sigma)$	χ_{prior}^2	$7.2 \quad (\nu: 5.4) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0964^{+0.0014}_{-0.0013} \quad (+0.1\sigma)$	z_{eq}	$3338^{+160}_{-150} \quad (-0.1\sigma)$		
σ_8	$0.850^{+0.096}_{-0.073} \quad (+0.1\sigma)$	k_{eq}	$0.01019^{+0.00049}_{-0.00047} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7067.05$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.74$; $R - 1 = 0.01053$

3.75 base_Alens_CamSpecHM_TT_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02248^{+0.00059}_{-0.00058}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.469^{+0.057}_{-0.042}$	$H(0.15)$	$73.4^{+1.4}_{-1.3}$
$\Omega_{\text{c}} h^2$	$0.1181^{+0.0034}_{-0.0034}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.631^{+0.072}_{-0.053}$	$D_{\text{M}}(0.15)$	636^{+13}_{-13}
$100\theta_{\text{MC}}$	$1.0412^{+0.0012}_{-0.0011}$	$\sigma_8/h^{0.5}$	$1.03^{+0.12}_{-0.084}$	$H(0.38)$	$83.4^{+1.1}_{-1.0}$
τ	$0.110^{+0.11}_{-0.071}$	$r_{\text{drag}} h$	$100.6^{+2.7}_{-2.6}$	$D_{\text{M}}(0.38)$	1519^{+27}_{-27}
A_{L}	$1.07^{+0.27}_{-0.26}$	$\langle d^2 \rangle^{1/2}$	$2.62^{+0.19}_{-0.19}$	$H(0.51)$	$90.04^{+0.90}_{-0.84}$
$\ln(10^{10} A_{\text{s}})$	$3.15^{+0.21}_{-0.15}$	z_{re}	< 20.0	$D_{\text{M}}(0.51)$	1969^{+32}_{-32}
n_{s}	$0.972^{+0.013}_{-0.013}$	$10^9 A_{\text{s}}$	$2.34^{+0.53}_{-0.33}$	$H(0.61)$	$95.60^{+0.78}_{-0.73}$
A_{100}^{PS}	231^{+60}_{-60}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.870^{+0.031}_{-0.029}$	$D_{\text{M}}(0.61)$	2292^{+34}_{-35}
A_{143}^{PS}	35^{+20}_{-20}	D_{40}	1242^{+81}_{-52}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
A_{217}^{PS}	104^{+30}_{-30}	D_{220}	5717^{+110}_{-100}	$D_{\text{M}}(2.33)$	5750^{+36}_{-38}
A_{217}^{CIB}	37^{+20}_{-20}	D_{810}	2526^{+37}_{-35}	$f\sigma_8(0.15)$	$0.474^{+0.056}_{-0.043}$
A_{143}^{tSZ}	< 8.93	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.787^{+0.088}_{-0.059}$
$r_{143 \times 217}^{\text{PS}}$	> 0.354	D_{2000}	$231.8^{+5.0}_{-4.9}$	$f\sigma_8(0.38)$	$0.495^{+0.057}_{-0.042}$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.972^{+0.013}_{-0.013}$	$\sigma_8(0.38)$	$0.699^{+0.078}_{-0.052}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24543^{+0.00025}_{-0.00025}$	$f\sigma_8(0.51)$	$0.495^{+0.056}_{-0.041}$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24676^{+0.00025}_{-0.00025}$	$\sigma_8(0.51)$	$0.654^{+0.073}_{-0.049}$
A_{100}^{dust}	$0.999^{+0.49}_{-0.49}$	$10^5 \text{D}/\text{H}$	$2.57^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	$0.490^{+0.055}_{-0.040}$
A_{143}^{dust}	$0.95^{+0.45}_{-0.46}$	Age/Gyr	$13.769^{+0.082}_{-0.086}$	$\sigma_8(0.61)$	$0.623^{+0.069}_{-0.046}$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.62^{+0.88}_{-0.86}$	$f\sigma_8(2.33)$	$0.314^{+0.035}_{-0.023}$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.42}$	r_*	$144.85^{+0.84}_{-0.83}$	$\sigma_8(2.33)$	$0.324^{+0.036}_{-0.024}$
y_{cal}	$0.99999^{+0.0064}_{-0.0065}$	$100\theta_*$	$1.0414^{+0.0011}_{-0.0011}$	f_{2000}^{143}	27^{+9}_{-8}
c_{100}	$0.9976^{+0.0026}_{-0.0028}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.909^{+0.083}_{-0.083}$	f_{2000}^{217}	$104.8^{+6.0}_{-5.7}$
c_{217}	$1.0008^{+0.0040}_{-0.0040}$	z_{drag}	$1060.0^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
H_0	$68.2^{+1.6}_{-1.6}$	r_{drag}	$147.49^{+0.91}_{-0.91}$	χ_{CamSpec}^2	$7059.1 (\nu: 13.9)$
Ω_{Λ}	$0.697^{+0.020}_{-0.021}$	k_{D}	$0.1405^{+0.0011}_{-0.0012}$	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0)$
Ω_{m}	$0.303^{+0.021}_{-0.020}$	$100\theta_{\text{D}}$	$0.16072^{+0.00076}_{-0.00069}$	χ_{MGS}^2	$1.87 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	$0.1412^{+0.0032}_{-0.0032}$	z_{eq}	3358^{+77}_{-76}	χ_{DR12BAO}^2	$4.1 (\nu: 0.5)$
$\Omega_{\text{m}} h^3$	$0.0963^{+0.0013}_{-0.0013}$	k_{eq}	$0.01025^{+0.00024}_{-0.00023}$	χ_{prior}^2	$7.2 (\nu: 5.4)$
σ_8	$0.851^{+0.095}_{-0.065}$	$100\theta_{\text{eq}}$	$0.822^{+0.015}_{-0.014}$	χ_{BAO}^2	$6.0 (\nu: 0.7)$
S_8	$0.855^{+0.10}_{-0.076}$	$100\theta_{\text{s,eq}}$	$0.4537^{+0.0076}_{-0.0073}$		
$\bar{\chi}_{\text{eff}}^2 = 7072.34; R - 1 = 0.01270$					

3.76 base_Alens_CamSpecHM_TT_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02267	$0.02266^{+0.00078}_{-0.00075} (+0.2\sigma)$	S_8	0.756	$0.793^{+0.10}_{-0.087} (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8283	$0.830^{+0.030}_{-0.028} (+0.1\sigma)$
$\Omega_c h^2$	0.1165	$0.1162^{+0.0066}_{-0.0065} (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.414	$0.434^{+0.057}_{-0.047} (+0.0\sigma)$	$100\theta_{\text{s,eq}}$	0.4570	$0.458^{+0.015}_{-0.014} (+0.1\sigma)$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0014}_{-0.0014} (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.562	$0.591^{+0.066}_{-0.052} (+0.1\sigma)$	$H(0.15)$	74.11	$74.2^{+2.8}_{-2.7} (+0.2\sigma)$
τ	0.010	$< 0.159 (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.919	$0.967^{+0.10}_{-0.077} (+0.1\sigma)$	$D_{\text{M}}(0.15)$	629.4	$628^{+26}_{-26} (-0.1\sigma)$
A_{L}	1.362	$1.22^{+0.32}_{-0.29} (-0.0\sigma)$	$r_{\text{drag}} h$	101.9	$102.2^{+5.5}_{-5.3} (+0.1\sigma)$	$H(0.38)$	83.92	$84.0^{+2.1}_{-2.0} (+0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	2.947	$3.05^{+0.19}_{-0.12} (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.652	$2.64^{+0.19}_{-0.20} (-0.0\sigma)$	$D_{\text{M}}(0.38)$	1505	$1503^{+53}_{-53} (-0.2\sigma)$
n_{s}	0.9760	$0.977^{+0.020}_{-0.019} (+0.3\sigma)$	z_{re}	2.1	$8.1^{+8.2}_{-6.4} (+0.2\sigma)$	$H(0.51)$	90.46	$90.5^{+1.7}_{-1.6} (+0.2\sigma)$
y_{cal}	1.0001	$1.0000^{+0.0064}_{-0.0064} (-0.0\sigma)$	$10^9 A_{\text{s}}$	1.905	$2.12^{+0.44}_{-0.25} (+0.1\sigma)$	$D_{\text{M}}(0.51)$	1953	$1950^{+62}_{-62} (-0.2\sigma)$
A_{100}^{PS}	218	$228^{+60}_{-70} (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8667	$1.863^{+0.038}_{-0.038} (-0.2\sigma)$	$H(0.61)$	95.94	$96.0^{+1.4}_{-1.3} (+0.2\sigma)$
A_{143}^{PS}	45.1	$33^{+20}_{-20} (-1.0\sigma)$	D_{40}	1198	$1209^{+55}_{-47} (-0.2\sigma)$	$D_{\text{M}}(0.61)$	2275	$2272^{+67}_{-68} (-0.2\sigma)$
A_{217}^{PS}	108.8	$105^{+30}_{-30} (-1.0\sigma)$	D_{220}	5732	$5726^{+110}_{-110} (-0.2\sigma)$	$H(2.33)$	234.64	$234.4^{+3.8}_{-3.7} (-0.1\sigma)$
A_{217}^{CIB}	37.6	$36^{+20}_{-20} (-1.3\sigma)$	D_{810}	2527.5	$2524^{+36}_{-35} (-0.2\sigma)$	$D_{\text{M}}(2.33)$	5735	$5734^{+58}_{-61} (-0.2\sigma)$
A_{143}^{tSZ}	6.32	$< 8.92 (-0.8\sigma)$	D_{1420}	815.5	$815^{+13}_{-13} (+0.0\sigma)$	$f\sigma_8(0.15)$	0.420	$0.440^{+0.055}_{-0.046} (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.793	> 0.355	D_{2000}	232.9	$232.6^{+5.5}_{-5.5} (+0.1\sigma)$	$\sigma_8(0.15)$	0.708	$0.745^{+0.074}_{-0.051} (+0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.77	—	$n_{\text{s},0.002}$	0.9760	$0.977^{+0.020}_{-0.019} (+0.3\sigma)$	$f\sigma_8(0.38)$	0.4406	$0.463^{+0.052}_{-0.042} (+0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.999	—	Y_{P}	0.245506	$0.24551^{+0.00033}_{-0.00031} (+0.2\sigma)$	$\sigma_8(0.38)$	0.629	$0.662^{+0.066}_{-0.043} (+0.1\sigma)$
A^{kSZ}	0.0	—	$Y_{\text{P}}^{\text{BBN}}$	0.246833	$0.24684^{+0.00033}_{-0.00032} (+0.2\sigma)$	$f\sigma_8(0.51)$	0.4413	$0.464^{+0.050}_{-0.039} (+0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	10^5D/H	2.532	$2.53^{+0.14}_{-0.14} (-0.2\sigma)$	$\sigma_8(0.51)$	0.590	$0.621^{+0.062}_{-0.039} (+0.1\sigma)$
A_{143}^{dust}	0.962	$0.95^{+0.45}_{-0.46}$	Age/Gyr	13.735	$13.73^{+0.13}_{-0.13} (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4380	$0.460^{+0.049}_{-0.037} (+0.1\sigma)$
A_{217}^{dust}	0.988	$0.98^{+0.26}_{-0.26}$	z_*	1089.24	$1089.2^{+1.4}_{-1.4} (-0.2\sigma)$	$\sigma_8(0.61)$	0.5614	$0.591^{+0.059}_{-0.037} (+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.016	$1.01^{+0.41}_{-0.42}$	r_*	145.10	$145.2^{+1.4}_{-1.4} (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2838	$0.299^{+0.030}_{-0.018} (+0.2\sigma)$
c_{100}	0.99790	$0.9976^{+0.0027}_{-0.0027} (-3.4\sigma)$	$100\theta_*$	1.04163	$1.0417^{+0.0013}_{-0.0014} (+0.2\sigma)$	$\sigma_8(2.33)$	0.2934	$0.309^{+0.032}_{-0.018} (+0.2\sigma)$
c_{217}	1.00088	$1.0007^{+0.0041}_{-0.0039} (+4.1\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.930	$13.94^{+0.12}_{-0.12} (+0.0\sigma)$	f_{2000}^{143}	25.7	$26^{+9}_{-9} (-0.3\sigma)$
H_0	69.02	$69.2^{+3.2}_{-3.1} (+0.1\sigma)$	z_{drag}	1060.39	$1060.3^{+1.5}_{-1.5} (+0.2\sigma)$	f_{2000}^{217}	103.7	$104.0^{+6.3}_{-6.3} (-0.4\sigma)$
Ω_{Λ}	0.7064	$0.708^{+0.037}_{-0.041} (+0.1\sigma)$	r_{drag}	147.67	$147.8^{+1.3}_{-1.3} (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	28.9	$29^{+7}_{-7} (-0.4\sigma)$
Ω_{m}	0.2936	$0.292^{+0.041}_{-0.037} (-0.1\sigma)$	k_{D}	0.14048	$0.1403^{+0.0013}_{-0.0013} (+0.0\sigma)$	χ_{lowl}^2	20.86	$22.0 (\nu: 1.1) (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	0.1399	$0.1395^{+0.0062}_{-0.0059} (-0.1\sigma)$	$100\theta_{\text{D}}$	0.16054	$0.16059^{+0.00081}_{-0.00076} (-0.1\sigma)$	χ_{CamSpec}^2	7046.1	$7060.0 (\nu: 14.2)$
$\Omega_{\text{m}} h^3$	0.09653	$0.0965^{+0.0013}_{-0.0013} (+0.2\sigma)$	z_{eq}	3327	$3318^{+150}_{-140} (-0.1\sigma)$	χ_{prior}^2	1.4	$7.2 (\nu: 5.3) (+0.0\sigma)$
σ_8	0.764	$0.804^{+0.081}_{-0.057} (+0.1\sigma)$	k_{eq}	0.010154	$0.01013^{+0.00045}_{-0.00043} (-0.1\sigma)$	χ_{CMB}^2	7066.9	$7082.0 (\nu: 14.2) (+1135.2\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 7068.30$; $\Delta\chi_{\text{eff}}^2 = 6293.30$; $\bar{\chi}_{\text{eff}}^2 = 7089.14$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.70$; $R - 1 = 0.00730$
 χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 20.86 (Δ -0.12) CamSpec like_10.7HM: 7046.06

3.77 base_Alens_CamSpecHM_TT_lowl_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02251^{+0.00057}_{-0.00056}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.058}_{-0.040}$	$H(0.38)$	$83.5^{+1.1}_{-1.0}$
$\Omega_{\mathrm{c}} h^2$	$0.1178^{+0.0033}_{-0.0033}$	$\sigma_8 / h^{0.5}$	$0.974^{+0.093}_{-0.063}$	$D_{\mathrm{M}}(0.38)$	1516^{+27}_{-27}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}} h$	$100.9^{+2.7}_{-2.6}$	$H(0.51)$	$90.12^{+0.88}_{-0.83}$
τ	< 0.145	$\langle d^2 \rangle^{1/2}$	$2.63^{+0.20}_{-0.19}$	$D_{\mathrm{M}}(0.51)$	1966^{+32}_{-32}
A_{L}	$1.20^{+0.26}_{-0.26}$	z_{re}	$7.6^{+7.8}_{-5.9}$	$H(0.61)$	$95.66^{+0.76}_{-0.72}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.04^{+0.18}_{-0.11}$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.40}_{-0.22}$	$D_{\mathrm{M}}(0.61)$	2289^{+34}_{-34}
n_{s}	$0.972^{+0.012}_{-0.012}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.029}_{-0.029}$	$H(2.33)$	$235.3^{+2.0}_{-2.0}$
y_{cal}	$1.0000^{+0.0062}_{-0.0066}$	D_{40}	1216^{+49}_{-37}	$D_{\mathrm{M}}(2.33)$	5747^{+35}_{-36}
A_{100}^{PS}	230^{+60}_{-70}	D_{220}	5718^{+110}_{-100}	$f\sigma_8(0.15)$	$0.448^{+0.048}_{-0.032}$
A_{143}^{PS}	34^{+20}_{-20}	D_{810}	2526^{+36}_{-34}	$\sigma_8(0.15)$	$0.745^{+0.069}_{-0.043}$
A_{217}^{PS}	104^{+30}_{-40}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.468^{+0.045}_{-0.032}$
A_{217}^{CIB}	37^{+20}_{-20}	D_{2000}	$231.9^{+5.0}_{-4.8}$	$\sigma_8(0.38)$	$0.662^{+0.062}_{-0.037}$
A_{143}^{tSZ}	< 8.81	$n_{\mathrm{s},0.002}$	$0.972^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.468^{+0.045}_{-0.031}$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.363	Y_{P}	$0.24545^{+0.00025}_{-0.00023}$	$\sigma_8(0.51)$	$0.620^{+0.058}_{-0.034}$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00025}_{-0.00023}$	$f\sigma_8(0.61)$	$0.464^{+0.044}_{-0.030}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.11}_{-0.10}$	$\sigma_8(0.61)$	$0.590^{+0.055}_{-0.033}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.763^{+0.081}_{-0.082}$	$f\sigma_8(2.33)$	$0.298^{+0.028}_{-0.016}$
A_{100}^{dust}	$1.01^{+0.49}_{-0.49}$	z_{*}	$1089.55^{+0.87}_{-0.84}$	$\sigma_8(2.33)$	$0.308^{+0.029}_{-0.017}$
A_{143}^{dust}	$0.95^{+0.46}_{-0.45}$	r_{*}	$144.89^{+0.82}_{-0.79}$	f_{2000}^{143}	27^{+9}_{-8}
A_{217}^{dust}	$0.98^{+0.25}_{-0.26}$	$100\theta_{*}$	$1.0415^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$104.7^{+5.9}_{-5.8}$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.41}_{-0.42}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.912^{+0.081}_{-0.077}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
c_{100}	$0.9975^{+0.0026}_{-0.0028}$	z_{drag}	$1060.1^{+1.2}_{-1.2}$	χ_{lowl}^2	$22.4 (\nu: 1.0)$
c_{217}	$1.0009^{+0.0042}_{-0.0039}$	r_{drag}	$147.51^{+0.90}_{-0.86}$	$\chi_{\mathrm{CamSpec}}^2$	$7058.9 (\nu: 13.0)$
H_0	$68.4^{+1.6}_{-1.6}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{6\mathrm{DF}}^2$	$0.049 (\nu: 0.0)$
Ω_{Λ}	$0.698^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00071}_{-0.00069}$	χ_{MGS}^2	$2.00 (\nu: 0.2)$
Ω_{m}	$0.302^{+0.020}_{-0.019}$	z_{eq}	3353^{+74}_{-75}	$\chi_{\mathrm{DR12BAO}}^2$	$4.05 (\nu: 0.5)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0031}_{-0.0031}$	k_{eq}	$0.01023^{+0.00022}_{-0.00023}$	χ_{prior}^2	$7.2 (\nu: 5.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0964^{+0.0013}_{-0.0013}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.015}_{-0.014}$	χ_{BAO}^2	$6.1 (\nu: 0.8)$
σ_8	$0.806^{+0.075}_{-0.047}$	$100\theta_{\mathrm{s,eq}}$	$0.4543^{+0.0075}_{-0.0072}$	χ_{CMB}^2	$7081.3 (\nu: 13.5)$
S_8	$0.808^{+0.087}_{-0.060}$	$H(0.15)$	$73.6^{+1.4}_{-1.4}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.048}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	635^{+13}_{-13}		

$\bar{\chi}_{\mathrm{eff}}^2 = 7094.64; R - 1 = 0.01645$

3.78 base_Alens_CamSpecHM_TT_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02268^{+0.00077}_{-0.00076} \quad (+0.2\sigma)$	S_8	$0.806^{+0.097}_{-0.082} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.832^{+0.030}_{-0.029} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1159^{+0.0068}_{-0.0064} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.441^{+0.053}_{-0.045} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.459^{+0.015}_{-0.015} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0415^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.059}_{-0.047} \quad (+0.0\sigma)$	$H(0.15)$	$74.4^{+2.8}_{-2.7} \quad (+0.2\sigma)$
τ	$0.084^{+0.083}_{-0.044} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.093}_{-0.070} \quad (+0.0\sigma)$	$D_{\text{M}}(0.15)$	$627^{+27}_{-25} \quad (-0.2\sigma)$
A_{L}	$1.18^{+0.28}_{-0.26} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$102.5^{+5.5}_{-5.4} \quad (+0.1\sigma)$	$H(0.38)$	$84.1^{+2.1}_{-2.0} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.09^{+0.16}_{-0.093} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.64^{+0.20}_{-0.20} \quad (+0.0\sigma)$	$D_{\text{M}}(0.38)$	$1501^{+54}_{-52} \quad (-0.2\sigma)$
n_{s}	$0.978^{+0.020}_{-0.019} \quad (+0.3\sigma)$	z_{re}	$< 16.6 \quad (+0.1\sigma)$	$H(0.51)$	$90.6^{+1.7}_{-1.6} \quad (+0.2\sigma)$
y_{cal}	$1.0000^{+0.0064}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\text{s}}$	$2.21^{+0.39}_{-0.20} \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	$1947^{+63}_{-61} \quad (-0.2\sigma)$
A_{100}^{PS}	$227^{+70}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.861^{+0.037}_{-0.038} \quad (-0.3\sigma)$	$H(0.61)$	$96.0^{+1.4}_{-1.3} \quad (+0.2\sigma)$
A_{143}^{PS}	$32^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1213^{+54}_{-47} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2269^{+68}_{-67} \quad (-0.2\sigma)$
A_{217}^{PS}	$105^{+30}_{-30} \quad (-1.0\sigma)$	D_{220}	$5725^{+110}_{-110} \quad (-0.2\sigma)$	$H(2.33)$	$234.2^{+3.9}_{-3.6} \quad (-0.1\sigma)$
A_{217}^{CIB}	$36^{+20}_{-20} \quad (-1.3\sigma)$	D_{810}	$2524^{+36}_{-35} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$5731^{+59}_{-61} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.96 \quad (-0.8\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (+0.0\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.052}_{-0.044} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.354	D_{2000}	$232.8^{+5.5}_{-5.7} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.760^{+0.069}_{-0.041} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.978^{+0.020}_{-0.019} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.047}_{-0.039} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24552^{+0.00033}_{-0.00032} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.676^{+0.057}_{-0.036} \quad (+0.1\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24684^{+0.00033}_{-0.00032} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.045}_{-0.036} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$10^5 \text{D}/\text{H}$	$2.53^{+0.14}_{-0.13} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.634^{+0.054}_{-0.033} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.45}$	Age/Gyr	$13.73^{+0.13}_{-0.13} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.044}_{-0.033} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.99^{+0.27}_{-0.26}$	z_*	$1089.2^{+1.4}_{-1.4} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.603^{+0.051}_{-0.030} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.01^{+0.41}_{-0.42}$	r_*	$145.3^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.305^{+0.026}_{-0.015} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	$1.0417^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.316^{+0.028}_{-0.015} \quad (+0.1\sigma)$
c_{217}	$1.0007^{+0.0040}_{-0.0039} \quad (+4.1\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.95^{+0.12}_{-0.13} \quad (+0.0\sigma)$	f_{2000}^{143}	$25^{+9}_{-9} \quad (-0.3\sigma)$
H_0	$69.3^{+3.2}_{-3.2} \quad (+0.2\sigma)$	z_{drag}	$1060.4^{+1.4}_{-1.5} \quad (+0.2\sigma)$	f_{2000}^{217}	$103.8^{+6.2}_{-6.2} \quad (-0.4\sigma)$
Ω_{Λ}	$0.710^{+0.036}_{-0.042} \quad (+0.1\sigma)$	r_{drag}	$147.8^{+1.3}_{-1.3} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+7}_{-7} \quad (-0.4\sigma)$
Ω_{m}	$0.290^{+0.042}_{-0.036} \quad (-0.1\sigma)$	k_{D}	$0.1403^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.4 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1392^{+0.0062}_{-0.0059} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16057^{+0.00082}_{-0.00075} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$7059.9 \quad (\nu: 14.4)$
$\Omega_{\text{m}} h^3$	$0.0965^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	z_{eq}	$3311^{+150}_{-140} \quad (-0.1\sigma)$	χ_{prior}^2	$7.2 \quad (\nu: 5.4) \quad (+0.0\sigma)$
σ_8	$0.820^{+0.074}_{-0.046} \quad (+0.1\sigma)$	k_{eq}	$0.01011^{+0.00045}_{-0.00043} \quad (-0.1\sigma)$	χ_{CMB}^2	$7082.3 \quad (\nu: 14.4) \quad (+1122.5\sigma)$

$\bar{\chi}_{\text{eff}}^2 = 7089.50$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6292.58$; $R - 1 = 0.00995$

3.79 base_Alens_CamSpecHM_TT_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02252^{+0.00057}_{-0.00055}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.054}_{-0.033}$	$H(0.38)$	$83.5^{+1.1}_{-1.0}$
$\Omega_{\mathrm{c}} h^2$	$0.1177^{+0.0033}_{-0.0033}$	$\sigma_8 / h^{0.5}$	$0.995^{+0.079}_{-0.054}$	$D_{\mathrm{M}}(0.38)$	1516^{+26}_{-27}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}} h$	$100.9^{+2.6}_{-2.6}$	$H(0.51)$	$90.13^{+0.88}_{-0.84}$
τ	$0.079^{+0.078}_{-0.039}$	$\langle d^2 \rangle^{1/2}$	$2.63^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(0.51)$	1965^{+31}_{-32}
A_{L}	$1.15^{+0.23}_{-0.23}$	z_{re}	< 15.9	$H(0.61)$	$95.67^{+0.76}_{-0.72}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.09^{+0.15}_{-0.083}$	$10^9 A_{\mathrm{s}}$	$2.19^{+0.34}_{-0.18}$	$D_{\mathrm{M}}(0.61)$	2288^{+34}_{-34}
n_{s}	$0.973^{+0.012}_{-0.012}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.869^{+0.029}_{-0.029}$	$H(2.33)$	$235.2^{+2.0}_{-2.0}$
y_{cal}	$0.99998^{+0.0064}_{-0.0070}$	D_{40}	1221^{+46}_{-39}	$D_{\mathrm{M}}(2.33)$	5747^{+35}_{-36}
A_{100}^{PS}	229^{+60}_{-70}	D_{220}	5715^{+110}_{-100}	$f\sigma_8(0.15)$	$0.457^{+0.043}_{-0.029}$
A_{143}^{PS}	34^{+20}_{-20}	D_{810}	2526^{+36}_{-35}	$\sigma_8(0.15)$	$0.761^{+0.059}_{-0.035}$
A_{217}^{PS}	105^{+30}_{-30}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.478^{+0.043}_{-0.026}$
A_{217}^{CIB}	37^{+20}_{-20}	D_{2000}	$232.0^{+4.9}_{-5.1}$	$\sigma_8(0.38)$	$0.676^{+0.052}_{-0.030}$
A_{143}^{tSZ}	< 8.81	$n_{\mathrm{s},0.002}$	$0.973^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.478^{+0.038}_{-0.027}$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.363	Y_{P}	$0.24545^{+0.00024}_{-0.00023}$	$\sigma_8(0.51)$	$0.633^{+0.049}_{-0.027}$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00024}_{-0.00023}$	$f\sigma_8(0.61)$	$0.474^{+0.038}_{-0.025}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.10}_{-0.10}$	$\sigma_8(0.61)$	$0.603^{+0.046}_{-0.026}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.762^{+0.079}_{-0.082}$	$f\sigma_8(2.33)$	$0.304^{+0.024}_{-0.013}$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1089.54^{+0.85}_{-0.84}$	$\sigma_8(2.33)$	$0.314^{+0.024}_{-0.013}$
A_{143}^{dust}	$0.95^{+0.46}_{-0.46}$	r_*	$144.91^{+0.81}_{-0.78}$	f_{2000}^{143}	26^{+9}_{-8}
A_{217}^{dust}	$0.98^{+0.25}_{-0.26}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$104.6^{+5.9}_{-5.9}$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.915^{+0.080}_{-0.077}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
c_{100}	$0.9975^{+0.0027}_{-0.0029}$	z_{drag}	$1060.1^{+1.2}_{-1.2}$	χ_{lowl}^2	$23.0 (\nu: 1.1)$
c_{217}	$1.0008^{+0.0041}_{-0.0037}$	r_{drag}	$147.54^{+0.90}_{-0.84}$	$\chi_{\mathrm{CamSpec}}^2$	$7058.7 (\nu: 13.3)$
H_0	$68.4^{+1.6}_{-1.6}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{6\mathrm{DF}}^2$	$0.051 (\nu: 0.0)$
Ω_{Λ}	$0.699^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00071}_{-0.00069}$	χ_{MGS}^2	$2.05 (\nu: 0.2)$
Ω_{m}	$0.301^{+0.020}_{-0.019}$	z_{eq}	3351^{+73}_{-74}	$\chi_{\mathrm{DR12BAO}}^2$	$4.04 (\nu: 0.5)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0031}_{-0.0031}$	k_{eq}	$0.01023^{+0.00022}_{-0.00023}$	χ_{prior}^2	$7.3 (\nu: 5.5)$
$\Omega_{\mathrm{m}} h^3$	$0.0964^{+0.0013}_{-0.0012}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.014}_{-0.014}$	χ_{BAO}^2	$6.1 (\nu: 0.8)$
σ_8	$0.823^{+0.064}_{-0.039}$	$100\theta_{\mathrm{s,eq}}$	$0.4545^{+0.0074}_{-0.0072}$	χ_{CMB}^2	$7081.7 (\nu: 13.8)$
S_8	$0.824^{+0.079}_{-0.054}$	$H(0.15)$	$73.6^{+1.4}_{-1.3}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.043}_{-0.030}$	$D_{\mathrm{M}}(0.15)$	635^{+13}_{-13}		

$\bar{\chi}_{\mathrm{eff}}^2 = 7095.11; R - 1 = 0.02149$

3.80 base_Alens_CamSpecHM_TT_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02255	$0.02253^{+0.00080}_{-0.00077}$ (+0.1 σ)	S_8	0.798	$0.800^{+0.086}_{-0.080}$ (−0.1 σ)	$100\theta_{\text{eq}}$	0.8245	$0.823^{+0.031}_{-0.030}$ (+0.1 σ)
$\Omega_c h^2$	0.1174	$0.1177^{+0.0071}_{-0.0068}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4370	$0.438^{+0.047}_{-0.044}$ (−0.1 σ)	$100\theta_{\text{s,eq}}$	0.4551	$0.455^{+0.015}_{-0.015}$ (+0.1 σ)
$100\theta_{\text{MC}}$	1.04132	$1.0413^{+0.0014}_{-0.0014}$ (+0.2 σ)	$\sigma_8 \Omega_m^{0.25}$	0.5909	$0.592^{+0.041}_{-0.040}$ (−0.1 σ)	$H(0.15)$	73.71	$73.6^{+2.9}_{-2.8}$ (+0.1 σ)
τ	0.0509	$0.050^{+0.022}_{-0.026}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	0.965	$0.966^{+0.056}_{-0.057}$ (−0.1 σ)	$D_{\text{M}}(0.15)$	633.3	634^{+29}_{-27} (−0.1 σ)
A_{L}	1.222	$1.21^{+0.27}_{-0.23}$ (+0.1 σ)	$r_{\text{drag}} h$	101.2	$101.0^{+5.8}_{-5.7}$ (+0.1 σ)	$H(0.38)$	83.61	$83.6^{+2.2}_{-2.1}$ (+0.1 σ)
$\ln(10^{10} A_{\text{s}})$	3.030	$3.030^{+0.045}_{-0.054}$ (−0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.638	$2.63^{+0.19}_{-0.20}$ (+0.0 σ)	$D_{\text{M}}(0.38)$	1513	1515^{+57}_{-56} (−0.1 σ)
n_{s}	0.9728	$0.971^{+0.021}_{-0.021}$ (+0.2 σ)	z_{re}	7.25	$7.2^{+2.1}_{-3.0}$ (+0.0 σ)	$H(0.51)$	90.20	$90.2^{+1.8}_{-1.6}$ (+0.1 σ)
y_{cal}	0.99998	$1.0001^{+0.0065}_{-0.0065}$ (+0.0 σ)	$10^9 A_{\text{s}}$	2.071	$2.069^{+0.095}_{-0.11}$ (−0.0 σ)	$D_{\text{M}}(0.51)$	1962	1965^{+67}_{-66} (−0.1 σ)
A_{100}^{PS}	221	232^{+60}_{-70} (−0.8 σ)	$10^9 A_{\text{s}} e^{-2\tau}$	1.8702	$1.870^{+0.040}_{-0.040}$ (−0.2 σ)	$H(0.61)$	95.73	$95.7^{+1.5}_{-1.3}$ (+0.2 σ)
A_{143}^{PS}	47.8	35^{+20}_{-20} (−1.0 σ)	D_{40}	1211	1214^{+51}_{-49} (−0.3 σ)	$D_{\text{M}}(0.61)$	2285	2287^{+72}_{-71} (−0.1 σ)
A_{217}^{PS}	107.6	103^{+30}_{-30} (−1.1 σ)	D_{220}	5729	5729^{+110}_{-110} (−0.2 σ)	$H(2.33)$	235.09	$235.2^{+4.1}_{-3.8}$ (−0.1 σ)
A_{217}^{CIB}	38.9	38^{+20}_{-20} (−1.2 σ)	D_{810}	2528.0	2526^{+37}_{-37} (−0.2 σ)	$D_{\text{M}}(2.33)$	5744	5746^{+59}_{-63} (−0.2 σ)
A_{143}^{tSZ}	6.40	< 8.92 (−0.7 σ)	D_{1420}	814.5	813^{+13}_{-14} (−0.0 σ)	$f\sigma_8(0.15)$	0.4425	$0.444^{+0.043}_{-0.042}$ (−0.1 σ)
$r_{143 \times 217}^{\text{PS}}$	0.773	> 0.345	D_{2000}	232.2	$231.7^{+5.6}_{-5.8}$ (+0.1 σ)	$\sigma_8(0.15)$	0.7394	$0.739^{+0.024}_{-0.026}$ (−0.1 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.85	—	$n_{\text{s},0.002}$	0.9728	$0.971^{+0.021}_{-0.021}$ (+0.2 σ)	$f\sigma_8(0.38)$	0.4633	$0.464^{+0.034}_{-0.034}$ (−0.1 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	Y_{P}	0.245464	$0.24546^{+0.00034}_{-0.00034}$ (+0.1 σ)	$\sigma_8(0.38)$	0.6568	$0.656^{+0.019}_{-0.021}$ (−0.0 σ)
A^{kSZ}	0.0	—	$Y_{\text{P}}^{\text{BBN}}$	0.246791	$0.24678^{+0.00034}_{-0.00034}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4633	$0.464^{+0.028}_{-0.030}$ (−0.1 σ)
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.51}$	10^5D/H	2.552	$2.56^{+0.15}_{-0.14}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6152	$0.615^{+0.016}_{-0.018}$ (−0.0 σ)
A_{143}^{dust}	0.969	$0.96^{+0.46}_{-0.45}$	Age/Gyr	13.756	$13.76^{+0.13}_{-0.14}$ (−0.2 σ)	$f\sigma_8(0.61)$	0.4594	$0.460^{+0.025}_{-0.026}$ (−0.1 σ)
A_{217}^{dust}	0.985	$0.98^{+0.27}_{-0.27}$	z_*	1089.47	$1089.5^{+1.5}_{-1.4}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5857	$0.585^{+0.015}_{-0.017}$ (−0.0 σ)
$A_{143 \times 217}^{\text{dust}}$	1.003	$1.02^{+0.41}_{-0.41}$	r_*	144.96	$144.9^{+1.4}_{-1.4}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.2958	$0.2955^{+0.0071}_{-0.0082}$ (+0.0 σ)
c_{100}	0.99793	$0.9976^{+0.0027}_{-0.0027}$ (−3.4 σ)	$100\theta_*$	1.04149	$1.0415^{+0.0014}_{-0.0014}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3055	$0.3052^{+0.0071}_{-0.0082}$ (+0.0 σ)
c_{217}	1.00095	$1.0009^{+0.0041}_{-0.0040}$ (+4.3 σ)	$D_{\text{M}}(z_*)/\text{Gpc}$	13.918	$13.91^{+0.13}_{-0.13}$ (+0.1 σ)	f_{2000}^{143}	27.0	27^{+9}_{-9} (−0.2 σ)
H_0	68.55	$68.4^{+3.4}_{-3.3}$ (+0.1 σ)	z_{drag}	1060.16	$1060.1^{+1.5}_{-1.5}$ (+0.1 σ)	f_{2000}^{217}	104.3	$105.0^{+6.3}_{-6.2}$ (−0.3 σ)
Ω_{Λ}	0.7007	$0.699^{+0.040}_{-0.046}$ (+0.1 σ)	r_{drag}	147.57	$147.5^{+1.3}_{-1.4}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	29.7	30^{+7}_{-7} (−0.3 σ)
Ω_{m}	0.2993	$0.301^{+0.046}_{-0.040}$ (−0.1 σ)	k_{D}	0.14050	$0.1405^{+0.0014}_{-0.0013}$ (−0.0 σ)	χ_{simall}^2	395.67	$396.8 (\nu: 1.2)$ (−0.0 σ)
$\Omega_{\text{m}} h^2$	0.1406	$0.1409^{+0.0066}_{-0.0062}$ (−0.1 σ)	$100\theta_{\text{D}}$	0.16065	$0.16068^{+0.00084}_{-0.00078}$ (−0.1 σ)	χ_{CamSpec}^2	7045.6	$7059.8 (\nu: 14.2)$
$\Omega_{\text{m}} h^3$	0.09641	$0.0964^{+0.0013}_{-0.0013}$ (+0.1 σ)	z_{eq}	3345	3351^{+160}_{-150} (−0.1 σ)	χ_{prior}^2	1.4	$7.2 (\nu: 5.5)$ (+0.1 σ)
σ_8	0.7989	$0.799^{+0.029}_{-0.031}$ (−0.1 σ)	k_{eq}	0.010210	$0.01023^{+0.00048}_{-0.00045}$ (−0.1 σ)	χ_{CMB}^2	7441.3	$7456.6 (\nu: 15.5)$ (+1092.9 σ)

Best-fit $\chi_{\text{eff}}^2 = 7442.68$; $\Delta\chi_{\text{eff}}^2 = 6293.39$; $\bar{\chi}_{\text{eff}}^2 = 7463.85$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.77$; $R - 1 = 0.00741$
 χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.67 (Δ 0.01) CamSpec like_10.7HM: 7045.62

3.81 base_Alens_CamSpecHM_TTTEEE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02250	$0.02247^{+0.00051}_{-0.00049} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}} h^3$	0.09631	$0.09626^{+0.00087}_{-0.00085} \quad (-0.7\sigma)$	z_{eq}	3361	$3362^{+95}_{-94} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11815	$0.1182^{+0.0043}_{-0.0043} \quad (-0.2\sigma)$	σ_8	0.843	$0.850^{+0.10}_{-0.088} \quad (+0.4\sigma)$	k_{eq}	0.010259	$0.01026^{+0.00029}_{-0.00029} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04105	$1.04105^{+0.00086}_{-0.00086} \quad (-0.2\sigma)$	S_8	0.849	$0.86^{+0.12}_{-0.10} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	0.8212	$0.821^{+0.019}_{-0.018} \quad (+0.2\sigma)$
τ	0.101	$< 0.224 \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.465	$0.469^{+0.065}_{-0.056} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4534	$0.4534^{+0.0095}_{-0.0092} \quad (+0.2\sigma)$
A_{L}	1.035	$1.02^{+0.31}_{-0.27} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.626	$0.632^{+0.082}_{-0.069} \quad (+0.4\sigma)$	$H(0.15)$	73.37	$73.3^{+1.7}_{-1.7} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.133	$3.15^{+0.23}_{-0.20} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	1.021	$1.03^{+0.13}_{-0.11} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	636.6	$637^{+17}_{-17} \quad (+0.0\sigma)$
n_{s}	0.9716	$0.971^{+0.017}_{-0.015} \quad (+0.3\sigma)$	$r_{\mathrm{drag}} h$	100.49	$100.5^{+3.5}_{-3.3} \quad (+0.1\sigma)$	$H(0.38)$	83.35	$83.3^{+1.3}_{-1.2} \quad (-0.1\sigma)$
A_{100}^{PS}	222	$232^{+60}_{-70} \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	2.566	$2.55^{+0.16}_{-0.18} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.38)$	1519.9	$1521^{+33}_{-34} \quad (+0.0\sigma)$
A_{143}^{PS}	48.5	$35^{+20}_{-20} \quad (-0.9\sigma)$	z_{re}	11.9	$12.0^{+8.9}_{-9.7} \quad (+0.4\sigma)$	$H(0.51)$	90.00	$90.0^{+1.0}_{-0.96} \quad (-0.1\sigma)$
A_{217}^{PS}	108.5	$105^{+30}_{-30} \quad (-1.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.29	$2.34^{+0.59}_{-0.45} \quad (+0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	1970.1	$1971^{+39}_{-40} \quad (+0.0\sigma)$
A_{217}^{CIB}	38.8	$37^{+20}_{-20} \quad (-1.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8725	$1.871^{+0.033}_{-0.034} \quad (-0.3\sigma)$	$H(0.61)$	95.56	$95.54^{+0.85}_{-0.77} \quad (-0.2\sigma)$
A_{143}^{tSZ}	6.30	$< 8.83 \quad (-0.9\sigma)$	D_{40}	1234	$1247^{+87}_{-60} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2293.4	$2294^{+42}_{-43} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.775	> 0.363	D_{220}	5724	$5720^{+110}_{-110} \quad (-0.5\sigma)$	$H(2.33)$	235.49	$235.5^{+2.5}_{-2.4} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.84	—	D_{810}	2530.6	$2529^{+36}_{-36} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5751.8	$5753^{+35}_{-38} \quad (+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.996	—	D_{1420}	815.7	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.470	$0.475^{+0.065}_{-0.055} \quad (+0.4\sigma)$
A^{kSZ}	0.0	—	D_{2000}	231.94	$231.6^{+4.9}_{-4.8} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.780	$0.787^{+0.097}_{-0.081} \quad (+0.4\sigma)$
A_{100}^{dust}	1.00	$0.998^{+0.50}_{-0.50}$	$n_{\mathrm{s},0.002}$	0.9716	$0.971^{+0.017}_{-0.015} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	0.491	$0.496^{+0.065}_{-0.054} \quad (+0.4\sigma)$
A_{143}^{dust}	0.960	$0.94^{+0.46}_{-0.45}$	Y_{P}	0.245446	$0.24543^{+0.00021}_{-0.00020} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	0.692	$0.698^{+0.086}_{-0.071} \quad (+0.4\sigma)$
A_{217}^{dust}	0.987	$0.98^{+0.27}_{-0.26}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246772	$0.24676^{+0.00021}_{-0.00020} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.491	$0.495^{+0.064}_{-0.053} \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.001	$1.02^{+0.41}_{-0.40}$	$10^5 \mathrm{D}/\mathrm{H}$	2.561	$2.567^{+0.093}_{-0.091} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	0.648	$0.654^{+0.080}_{-0.066} \quad (+0.4\sigma)$
y_{cal}	1.0000	$1.0001^{+0.0065}_{-0.0064} \quad (+0.1\sigma)$	Age/Gyr	13.772	$13.775^{+0.079}_{-0.082} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	0.486	$0.490^{+0.062}_{-0.053} \quad (+0.4\sigma)$
c_{100}	0.99791	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	z_*	1089.59	$1089.64^{+0.90}_{-0.91} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	0.617	$0.622^{+0.076}_{-0.063} \quad (+0.4\sigma)$
c_{217}	1.00098	$1.0009^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	r_*	144.81	$144.82^{+0.90}_{-0.90} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.3113	$0.314^{+0.039}_{-0.032} \quad (+0.4\sigma)$
c_{TE}	0.9919	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04123	$1.04122^{+0.00083}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	0.3213	$0.324^{+0.040}_{-0.033} \quad (+0.4\sigma)$
c_{EE}	0.9905	$0.990^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.908	$13.909^{+0.083}_{-0.083} \quad (+0.4\sigma)$	f_{2000}^{143}	27.2	$27^{+8}_{-8} \quad (+0.1\sigma)$
H_0	68.16	$68.1^{+2.0}_{-1.9} \quad (-0.0\sigma)$	z_{drag}	1060.12	$1060.04^{+0.99}_{-0.99} \quad (-0.6\sigma)$	f_{2000}^{217}	104.6	$105.1^{+5.7}_{-5.7} \quad (-0.0\sigma)$
Ω_{Λ}	0.6959	$0.695^{+0.025}_{-0.027} \quad (+0.1\sigma)$	r_{drag}	147.43	$147.46^{+0.88}_{-0.87} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	29.9	$30^{+6}_{-6} \quad (-0.0\sigma)$
Ω_{m}	0.3041	$0.305^{+0.027}_{-0.025} \quad (-0.1\sigma)$	k_{D}	0.14061	$0.14056^{+0.00092}_{-0.00092} \quad (-0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11495.7	$11512.3 \quad (\nu: 16.2)$
$\Omega_{\mathrm{m}} h^2$	0.14130	$0.1413^{+0.0040}_{-0.0039} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	0.16066	$0.16070^{+0.00057}_{-0.00055} \quad (+0.6\sigma)$	χ_{prior}^2	1.8	$7.8 \quad (\nu: 5.6) \quad (-0.8\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 11497.50$; $\Delta\chi_{\mathrm{eff}}^2 = 9159.61$; $\bar{\chi}_{\mathrm{eff}}^2 = 11520.05$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9154.66$; $R - 1 = 0.00760$

χ_{eff}^2 : CMB - CamSpec like_10.7HM_1400_unified: 11495.71

3.82 base_Alens_CamSpecHM_TTTEEE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02247^{+0.00043}_{-0.00043}$	S_8	$0.857^{+0.11}_{-0.094}$	$H(0.15)$	$73.3^{+1.2}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1182^{+0.0029}_{-0.0028}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.063}_{-0.052}$	$D_{\mathrm{M}}(0.15)$	637^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04105^{+0.00077}_{-0.00076}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.632^{+0.081}_{-0.068}$	$H(0.38)$	$83.32^{+0.87}_{-0.84}$
τ	< 0.223	$\sigma_8/h^{0.5}$	$1.03^{+0.13}_{-0.11}$	$D_{\mathrm{M}}(0.38)$	1521^{+22}_{-22}
A_{L}	$1.02^{+0.30}_{-0.26}$	$r_{\mathrm{drag}}h$	$100.4^{+2.3}_{-2.2}$	$H(0.51)$	$89.97^{+0.70}_{-0.68}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.15^{+0.23}_{-0.21}$	$\langle d^2 \rangle^{1/2}$	$2.55^{+0.16}_{-0.17}$	$D_{\mathrm{M}}(0.51)$	1971^{+26}_{-26}
n_{s}	$0.971^{+0.013}_{-0.012}$	z_{re}	$12.0^{+9.0}_{-9.7}$	$H(0.61)$	$95.54^{+0.59}_{-0.56}$
A_{100}^{PS}	232^{+60}_{-60}	$10^9 A_{\mathrm{s}}$	$2.34^{+0.59}_{-0.45}$	$D_{\mathrm{M}}(0.61)$	2294^{+28}_{-29}
A_{143}^{PS}	35^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.871^{+0.030}_{-0.029}$	$H(2.33)$	$235.5^{+1.7}_{-1.7}$
A_{217}^{PS}	105^{+30}_{-30}	D_{40}	1247^{+87}_{-57}	$D_{\mathrm{M}}(2.33)$	5753^{+27}_{-27}
A_{217}^{CIB}	37^{+20}_{-20}	D_{220}	5721^{+100}_{-110}	$f\sigma_8(0.15)$	$0.475^{+0.063}_{-0.053}$
A_{143}^{tSZ}	< 8.84	D_{810}	2529^{+36}_{-35}	$\sigma_8(0.15)$	$0.786^{+0.097}_{-0.080}$
$r_{143\times 217}^{\mathrm{PS}}$	> 0.362	D_{1420}	815^{+13}_{-12}	$f\sigma_8(0.38)$	$0.495^{+0.064}_{-0.054}$
$r_{143\times 217}^{\mathrm{CIB}}$	—	D_{2000}	$231.5^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.698^{+0.086}_{-0.071}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.013}_{-0.012}$	$f\sigma_8(0.51)$	$0.495^{+0.063}_{-0.053}$
A^{kSZ}	—	Y_{P}	$0.24543^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	$0.653^{+0.081}_{-0.066}$
A_{100}^{dust}	$0.998^{+0.51}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	$0.490^{+0.062}_{-0.052}$
A_{143}^{dust}	$0.94^{+0.46}_{-0.46}$	$10^5\mathrm{D}/\mathrm{H}$	$2.568^{+0.081}_{-0.076}$	$\sigma_8(0.61)$	$0.622^{+0.077}_{-0.063}$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.776^{+0.061}_{-0.061}$	$f\sigma_8(2.33)$	$0.314^{+0.039}_{-0.032}$
$A_{143\times 217}^{\mathrm{dust}}$	$1.01^{+0.42}_{-0.40}$	z_*	$1089.64^{+0.69}_{-0.67}$	$\sigma_8(2.33)$	$0.324^{+0.040}_{-0.033}$
y_{cal}	$1.0001^{+0.0065}_{-0.0063}$	r_*	$144.82^{+0.66}_{-0.65}$	f_{2000}^{143}	27^{+8}_{-8}
c_{100}	$0.9976^{+0.0027}_{-0.0028}$	$100\theta_*$	$1.04122^{+0.00075}_{-0.00076}$	f_{2000}^{217}	$105.1^{+5.5}_{-5.4}$
c_{217}	$1.0009^{+0.0040}_{-0.0040}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.063}_{-0.063}$	$f_{2000}^{143\times 217}$	30^{+6}_{-6}
c_{TE}	$0.992^{+0.014}_{-0.014}$	z_{drag}	$1060.04^{+0.92}_{-0.91}$	$\chi_{\mathrm{CamSpec}}^2$	$11511.8 (\nu: 15.5)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	r_{drag}	$147.46^{+0.68}_{-0.68}$	$\chi_{6\mathrm{DF}}^2$	$0.032 (\nu: 0.0)$
H_0	$68.1^{+1.3}_{-1.3}$	k_{D}	$0.14056^{+0.00082}_{-0.00084}$	χ_{MGS}^2	$1.74 (\nu: 0.1)$
Ω_{Λ}	$0.695^{+0.017}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00054}_{-0.00052}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.02 (\nu: 0.4)$
Ω_{m}	$0.305^{+0.018}_{-0.017}$	z_{eq}	3362^{+64}_{-64}	χ_{prior}^2	$7.8 (\nu: 5.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1413^{+0.0027}_{-0.0027}$	k_{eq}	$0.01026^{+0.00020}_{-0.00020}$	χ_{BAO}^2	$5.79 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.09626^{+0.00086}_{-0.00084}$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.012}_{-0.012}$		
σ_8	$0.850^{+0.11}_{-0.087}$	$100\theta_{\mathrm{s,eq}}$	$0.4533^{+0.0064}_{-0.0062}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11525.37; R - 1 = 0.00886$$

3.83 base_Alens_CamSpecHM_TTTEEE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02248^{+0.00051}_{-0.00050} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09626^{+0.00085}_{-0.00085} \quad (-0.7\sigma)$	z_{eq}	$3360^{+94}_{-94} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1181^{+0.0042}_{-0.0042} \quad (-0.2\sigma)$	σ_8	$0.864^{+0.092}_{-0.076} \quad (+0.5\sigma)$	k_{eq}	$0.01025^{+0.00029}_{-0.00029} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04105^{+0.00086}_{-0.00087} \quad (-0.2\sigma)$	S_8	$0.870^{+0.11}_{-0.092} \quad (+0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.019}_{-0.018} \quad (+0.2\sigma)$
τ	$0.126^{+0.10}_{-0.085} \quad (+0.6\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.477^{+0.059}_{-0.050} \quad (+0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4535^{+0.0095}_{-0.0091} \quad (+0.2\sigma)$
A_{L}	$0.98^{+0.26}_{-0.24} \quad (-0.7\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.642^{+0.073}_{-0.060} \quad (+0.5\sigma)$	$H(0.15)$	$73.4^{+1.8}_{-1.7} \quad (+0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.20}_{-0.17} \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.05^{+0.12}_{-0.095} \quad (+0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+17}_{-17} \quad (-0.0\sigma)$
n_{s}	$0.972^{+0.016}_{-0.015} \quad (+0.3\sigma)$	$r_{\mathrm{drag}}h$	$100.5^{+3.5}_{-3.3} \quad (+0.1\sigma)$	$H(0.38)$	$83.3^{+1.3}_{-1.2} \quad (-0.0\sigma)$
A_{100}^{PS}	$231^{+60}_{-70} \quad (-0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.16}_{-0.17} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.38)$	$1520^{+33}_{-34} \quad (+0.0\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-0.9\sigma)$	z_{re}	$< 20.7 \quad (+0.5\sigma)$	$H(0.51)$	$90.0^{+1.0}_{-0.97} \quad (-0.1\sigma)$
A_{217}^{PS}	$105^{+30}_{-30} \quad (-1.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.42^{+0.52}_{-0.40} \quad (+0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	$1970^{+39}_{-40} \quad (+0.0\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.870^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$H(0.61)$	$95.55^{+0.86}_{-0.78} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.9\sigma)$	D_{40}	$1253^{+82}_{-61} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2294^{+42}_{-43} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.364	D_{220}	$5718^{+110}_{-110} \quad (-0.5\sigma)$	$H(2.33)$	$235.4^{+2.5}_{-2.4} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{810}	$2528^{+36}_{-36} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5753^{+36}_{-38} \quad (+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.482^{+0.058}_{-0.049} \quad (+0.5\sigma)$
A^{kSZ}	—	D_{2000}	$231.7^{+4.9}_{-4.8} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.799^{+0.085}_{-0.070} \quad (+0.5\sigma)$
A_{100}^{dust}	$0.995^{+0.50}_{-0.50}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.016}_{-0.015} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.503^{+0.058}_{-0.048} \quad (+0.5\sigma)$
A_{143}^{dust}	$0.94^{+0.46}_{-0.45}$	Y_{P}	$0.24543^{+0.00021}_{-0.00020} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.709^{+0.075}_{-0.061} \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00021}_{-0.00020} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.503^{+0.056}_{-0.046} \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.41}_{-0.41}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.566^{+0.093}_{-0.091} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.664^{+0.070}_{-0.057} \quad (+0.6\sigma)$
y_{cal}	$1.0001^{+0.0065}_{-0.0064} \quad (+0.1\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.774^{+0.080}_{-0.082} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.498^{+0.055}_{-0.045} \quad (+0.5\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	z_*	$1089.62^{+0.91}_{-0.91} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.632^{+0.067}_{-0.054} \quad (+0.6\sigma)$
c_{217}	$1.0009^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	r_*	$144.84^{+0.90}_{-0.89} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.319^{+0.034}_{-0.027} \quad (+0.6\sigma)$
c_{TE}	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	$1.04123^{+0.00084}_{-0.00084} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.329^{+0.035}_{-0.028} \quad (+0.6\sigma)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.910^{+0.083}_{-0.083} \quad (+0.4\sigma)$	f_{2000}^{143}	$27^{+8}_{-8} \quad (+0.0\sigma)$
H_0	$68.2^{+2.0}_{-1.9} \quad (+0.0\sigma)$	z_{drag}	$1060.05^{+0.99}_{-1.0} \quad (-0.6\sigma)$	f_{2000}^{217}	$104.9^{+5.7}_{-5.6} \quad (-0.1\sigma)$
Ω_{Λ}	$0.696^{+0.025}_{-0.026} \quad (+0.1\sigma)$	r_{drag}	$147.47^{+0.87}_{-0.87} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (-0.0\sigma)$
Ω_{m}	$0.304^{+0.026}_{-0.025} \quad (-0.1\sigma)$	k_{D}	$0.14055^{+0.00092}_{-0.00092} \quad (-0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.2 \quad (\nu: 16.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1412^{+0.0039}_{-0.0039} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00057}_{-0.00054} \quad (+0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.6) \quad (-0.8\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 11520.01$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9154.57$; $R - 1 = 0.00786$

3.84 base_Alens_CamSpecHM_TTTEEE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02247^{+0.00042}_{-0.00043}$	S_8	$0.870^{+0.10}_{-0.083}$	$H(0.15)$	$73.3^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1182^{+0.0029}_{-0.0029}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.477^{+0.056}_{-0.046}$	$D_{\mathrm{M}}(0.15)$	637^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04105^{+0.00077}_{-0.00076}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.642^{+0.071}_{-0.059}$	$H(0.38)$	$83.33^{+0.86}_{-0.84}$
τ	$0.125^{+0.10}_{-0.085}$	$\sigma_8/h^{0.5}$	$1.05^{+0.11}_{-0.095}$	$D_{\mathrm{M}}(0.38)$	1520^{+23}_{-22}
A_{L}	$0.98^{+0.26}_{-0.23}$	$r_{\mathrm{drag}}h$	$100.5^{+2.3}_{-2.2}$	$H(0.51)$	$89.98^{+0.69}_{-0.68}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.20}_{-0.17}$	$\langle d^2 \rangle^{1/2}$	$2.55^{+0.16}_{-0.17}$	$D_{\mathrm{M}}(0.51)$	1971^{+26}_{-26}
n_{s}	$0.972^{+0.013}_{-0.012}$	z_{re}	< 20.7	$H(0.61)$	$95.54^{+0.58}_{-0.56}$
A_{100}^{PS}	232^{+60}_{-60}	$10^9 A_{\mathrm{s}}$	$2.41^{+0.52}_{-0.40}$	$D_{\mathrm{M}}(0.61)$	2294^{+29}_{-29}
A_{143}^{PS}	35^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.870^{+0.030}_{-0.029}$	$H(2.33)$	$235.5^{+1.7}_{-1.7}$
A_{217}^{PS}	105^{+30}_{-30}	D_{40}	1253^{+82}_{-59}	$D_{\mathrm{M}}(2.33)$	5753^{+27}_{-27}
A_{217}^{CIB}	37^{+20}_{-20}	D_{220}	5719^{+100}_{-110}	$f\sigma_8(0.15)$	$0.482^{+0.056}_{-0.045}$
A_{143}^{tSZ}	< 8.86	D_{810}	2528^{+36}_{-35}	$\sigma_8(0.15)$	$0.799^{+0.086}_{-0.069}$
$r_{143\times 217}^{\mathrm{PS}}$	> 0.366	D_{1420}	815^{+13}_{-12}	$f\sigma_8(0.38)$	$0.503^{+0.056}_{-0.047}$
$r_{143\times 217}^{\mathrm{CIB}}$	—	D_{2000}	$231.6^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.709^{+0.076}_{-0.061}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.972^{+0.013}_{-0.012}$	$f\sigma_8(0.51)$	$0.503^{+0.055}_{-0.046}$
A^{kSZ}	—	Y_{P}	$0.24543^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	$0.664^{+0.071}_{-0.057}$
A_{100}^{dust}	$0.995^{+0.51}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	$0.498^{+0.055}_{-0.045}$
A_{143}^{dust}	$0.94^{+0.46}_{-0.46}$	$10^5\mathrm{D}/\mathrm{H}$	$2.567^{+0.080}_{-0.076}$	$\sigma_8(0.61)$	$0.632^{+0.067}_{-0.054}$
A_{217}^{dust}	$0.98^{+0.25}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.775^{+0.060}_{-0.061}$	$f\sigma_8(2.33)$	$0.319^{+0.034}_{-0.027}$
$A_{143\times 217}^{\mathrm{dust}}$	$1.01^{+0.42}_{-0.41}$	z_*	$1089.63^{+0.68}_{-0.67}$	$\sigma_8(2.33)$	$0.329^{+0.035}_{-0.028}$
y_{cal}	$1.0001^{+0.0064}_{-0.0063}$	r_*	$144.83^{+0.66}_{-0.66}$	f_{2000}^{143}	27^{+8}_{-8}
c_{100}	$0.9976^{+0.0027}_{-0.0028}$	$100\theta_*$	$1.04123^{+0.00076}_{-0.00076}$	f_{2000}^{217}	$105.0^{+5.3}_{-5.3}$
c_{217}	$1.0009^{+0.0040}_{-0.0040}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.063}_{-0.062}$	$f_{2000}^{143\times 217}$	30^{+6}_{-6}
c_{TE}	$0.992^{+0.014}_{-0.014}$	z_{drag}	$1060.04^{+0.92}_{-0.95}$	$\chi_{\mathrm{CamSpec}}^2$	$11511.7 (\nu: 15.7)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	r_{drag}	$147.46^{+0.68}_{-0.67}$	$\chi_{6\mathrm{DF}}^2$	$0.032 (\nu: 0.0)$
H_0	$68.1^{+1.3}_{-1.3}$	k_{D}	$0.14055^{+0.00082}_{-0.00083}$	χ_{MGS}^2	$1.75 (\nu: 0.1)$
Ω_{Λ}	$0.696^{+0.017}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00055}_{-0.00052}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.00 (\nu: 0.4)$
Ω_{m}	$0.304^{+0.018}_{-0.017}$	z_{eq}	3361^{+64}_{-64}	χ_{prior}^2	$7.8 (\nu: 5.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1413^{+0.0027}_{-0.0027}$	k_{eq}	$0.01026^{+0.00020}_{-0.00020}$	χ_{BAO}^2	$5.79 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.09626^{+0.00083}_{-0.00084}$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.012}_{-0.012}$		
σ_8	$0.864^{+0.093}_{-0.076}$	$100\theta_{\mathrm{s,eq}}$	$0.4534^{+0.0064}_{-0.0062}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11525.31; R - 1 = 0.00906$$

3.85 base_Alens_CamSpecHM_TTTEEE_lowl

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022524	$0.02251^{+0.00049}_{-0.00048} \quad (-0.5\sigma)$	σ_8	0.769	$0.805^{+0.081}_{-0.048} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8220	$0.823^{+0.018}_{-0.018} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.11795	$0.1179^{+0.0043}_{-0.0040} \quad (-0.1\sigma)$	S_8	0.772	$0.808^{+0.091}_{-0.066} \quad (+0.0\sigma)$	$100\theta_{\text{s,eq}}$	0.4538	$0.4541^{+0.0089}_{-0.0091} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	1.04108	$1.04108^{+0.00084}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4230	$0.443^{+0.050}_{-0.036} \quad (+0.0\sigma)$	$H(0.15)$	73.45	$73.5^{+1.7}_{-1.6} \quad (-0.1\sigma)$
τ	0.010	$< 0.151 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.570	$0.597^{+0.065}_{-0.040} \quad (+0.0\sigma)$	$D_{\text{M}}(0.15)$	635.7	$636^{+16}_{-16} \quad (+0.1\sigma)$
A_{L}	1.248	$1.14^{+0.24}_{-0.25} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	0.930	$0.974^{+0.11}_{-0.062} \quad (+0.0\sigma)$	$H(0.38)$	83.42	$83.4^{+1.2}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	2.950	$3.04^{+0.19}_{-0.11} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.66	$100.7^{+3.3}_{-3.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.38)$	1518.2	$1518^{+32}_{-32} \quad (+0.1\sigma)$
n_{s}	0.9717	$0.972^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.568	$2.56^{+0.17}_{-0.18} \quad (-0.7\sigma)$	$H(0.51)$	90.05	$90.1^{+1.0}_{-0.95} \quad (-0.2\sigma)$
y_{cal}	0.99998	$1.0001^{+0.0065}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	2.1	$7.5^{+8.4}_{-5.8} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	1968.1	$1968^{+38}_{-38} \quad (+0.1\sigma)$
A_{100}^{PS}	222	$232^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	1.910	$2.10^{+0.44}_{-0.22} \quad (+0.0\sigma)$	$H(0.61)$	95.60	$95.61^{+0.82}_{-0.76} \quad (-0.2\sigma)$
A_{143}^{PS}	48.5	$35^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8720	$1.870^{+0.032}_{-0.031} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2291.3	$2291^{+41}_{-41} \quad (+0.1\sigma)$
A_{217}^{PS}	108.5	$105^{+30}_{-30} \quad (-1.1\sigma)$	D_{40}	1206.1	$1217^{+54}_{-39} \quad (-0.1\sigma)$	$H(2.33)$	235.38	$235.3^{+2.5}_{-2.3} \quad (-0.2\sigma)$
A_{217}^{CIB}	38.7	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5725	$5722^{+100}_{-100} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	5750.1	$5750^{+35}_{-36} \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.30	$< 8.83 \quad (-0.9\sigma)$	D_{810}	2530.4	$2528^{+34}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4280	$0.448^{+0.050}_{-0.035} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.779	> 0.370	D_{1420}	815.6	$815^{+12}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	0.711	$0.744^{+0.075}_{-0.043} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.83	—	D_{2000}	231.89	$231.6^{+4.4}_{-4.4} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4472	$0.468^{+0.051}_{-0.032} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.998	—	$n_{\text{s},0.002}$	0.9717	$0.972^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	0.631	$0.661^{+0.066}_{-0.037} \quad (+0.0\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.245453	$0.24545^{+0.00020}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4469	$0.468^{+0.051}_{-0.030} \quad (+0.0\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	0.246780	$0.24677^{+0.00020}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.5911	$0.619^{+0.062}_{-0.034} \quad (+0.0\sigma)$
A_{143}^{dust}	0.971	$0.95^{+0.45}_{-0.45}$	$10^5 \text{D}/\text{H}$	2.558	$2.561^{+0.089}_{-0.088} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4428	$0.463^{+0.047}_{-0.031} \quad (+0.0\sigma)$
A_{217}^{dust}	0.993	$0.98^{+0.26}_{-0.26}$	Age/Gyr	13.768	$13.769^{+0.078}_{-0.078} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.5627	$0.589^{+0.059}_{-0.032} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.016	$1.01^{+0.42}_{-0.41}$	z_*	1089.55	$1089.56^{+0.87}_{-0.86} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.2840	$0.297^{+0.030}_{-0.016} \quad (+0.0\sigma)$
c_{100}	0.99788	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.85	$144.88^{+0.85}_{-0.90} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.2932	$0.307^{+0.031}_{-0.016} \quad (+0.0\sigma)$
c_{217}	1.00107	$1.0009^{+0.0041}_{-0.0040} \quad (+4.4\sigma)$	$100\theta_*$	1.04125	$1.04125^{+0.00083}_{-0.00083} \quad (-0.2\sigma)$	f_{2000}^{143}	27.2	$27^{+8}_{-8} \quad (+0.2\sigma)$
c_{TE}	0.9922	$0.992^{+0.014}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.911	$13.914^{+0.079}_{-0.083} \quad (+0.3\sigma)$	f_{2000}^{217}	104.7	$105.0^{+5.4}_{-5.5} \quad (+0.1\sigma)$
c_{EE}	0.9904	$0.990^{+0.013}_{-0.013}$	z_{drag}	1060.16	$1060.10^{+0.97}_{-0.97} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	30.0	$30^{+6}_{-6} \quad (+0.1\sigma)$
H_0	68.26	$68.3^{+1.9}_{-1.9} \quad (-0.1\sigma)$	r_{drag}	147.46	$147.51^{+0.84}_{-0.87} \quad (+0.4\sigma)$	χ_{lowl}^2	21.34	$22.5 \quad (\nu: 1.0) \quad (-0.1\sigma)$
Ω_{Λ}	0.6971	$0.697^{+0.024}_{-0.026} \quad (+0.0\sigma)$	k_{D}	0.14059	$0.14053^{+0.00092}_{-0.00090} \quad (-0.6\sigma)$	χ_{CamSpec}^2	11496.5	$11512.4 \quad (\nu: 16.3)$
Ω_{m}	0.3029	$0.303^{+0.026}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	0.16064	$0.16066^{+0.00055}_{-0.00053} \quad (+0.6\sigma)$	χ_{prior}^2	1.9	$7.7 \quad (\nu: 5.5) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^2$	0.14112	$0.1410^{+0.0039}_{-0.0037} \quad (-0.2\sigma)$	z_{eq}	3357	$3354^{+94}_{-87} \quad (-0.2\sigma)$	χ_{CMB}^2	11517.8	$11534.9 \quad (\nu: 16.8) \quad (+1549.6\sigma)$
$\Omega_{\text{m}} h^3$	0.09633	$0.09628^{+0.00085}_{-0.00087} \quad (-0.7\sigma)$	k_{eq}	0.010245	$0.01024^{+0.00029}_{-0.00027} \quad (-0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11519.71$; $\Delta\chi_{\text{eff}}^2 = 9159.69$; $\bar{\chi}_{\text{eff}}^2 = 11542.67$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9154.94$; $R - 1 = 0.01017$
 χ_{eff}^2 : CMB - commander_dx12_v3_2_29: 21.34 (Δ -0.09) CamSpec like_10.7HM_1400_unified: 11496.50

3.86 base_Alens_CamSpecHM_TTTEEE_lowl_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02249^{+0.00042}_{-0.00042}$	S_8	$0.809^{+0.084}_{-0.059}$	$H(0.15)$	$73.4^{+1.1}_{-1.1}$
$\Omega_{\text{c}}h^2$	$0.1180^{+0.0028}_{-0.0028}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.443^{+0.046}_{-0.032}$	$D_{\text{M}}(0.15)$	636^{+11}_{-11}
$100\theta_{\text{MC}}$	$1.04106^{+0.00075}_{-0.00078}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.597^{+0.060}_{-0.038}$	$H(0.38)$	$83.37^{+0.86}_{-0.83}$
τ	< 0.146	$\sigma_8/h^{0.5}$	$0.974^{+0.098}_{-0.060}$	$D_{\text{M}}(0.38)$	1519^{+22}_{-22}
A_{L}	$1.13^{+0.22}_{-0.25}$	$r_{\text{drag}}h$	$100.6^{+2.2}_{-2.2}$	$H(0.51)$	$90.01^{+0.70}_{-0.67}$
$\ln(10^{10}A_{\text{s}})$	$3.04^{+0.19}_{-0.10}$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.17}_{-0.17}$	$D_{\text{M}}(0.51)$	1969^{+26}_{-26}
n_{s}	$0.971^{+0.011}_{-0.011}$	z_{re}	$7.4^{+8.3}_{-5.7}$	$H(0.61)$	$95.57^{+0.59}_{-0.56}$
y_{cal}	$1.0000^{+0.0065}_{-0.0066}$	$10^9 A_{\text{s}}$	$2.09^{+0.42}_{-0.21}$	$D_{\text{M}}(0.61)$	2293^{+28}_{-28}
A_{100}^{PS}	232^{+60}_{-70}	$10^9 A_{\text{s}}e^{-2\tau}$	$1.871^{+0.029}_{-0.028}$	$H(2.33)$	$235.4^{+1.7}_{-1.7}$
A_{143}^{PS}	35^{+20}_{-20}	D_{40}	1218^{+52}_{-37}	$D_{\text{M}}(2.33)$	5752^{+27}_{-27}
A_{217}^{PS}	105^{+30}_{-30}	D_{220}	5721^{+100}_{-100}	$f\sigma_8(0.15)$	$0.448^{+0.046}_{-0.032}$
A_{217}^{CIB}	37^{+20}_{-20}	D_{810}	2528^{+33}_{-36}	$\sigma_8(0.15)$	$0.744^{+0.073}_{-0.041}$
A_{143}^{tSZ}	< 8.82	D_{1420}	815^{+12}_{-13}	$f\sigma_8(0.38)$	$0.468^{+0.047}_{-0.031}$
$r_{143 \times 217}^{\text{PS}}$	> 0.374	D_{2000}	$231.5^{+4.2}_{-4.3}$	$\sigma_8(0.38)$	$0.660^{+0.065}_{-0.036}$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.971^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.468^{+0.047}_{-0.029}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24544^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	$0.618^{+0.061}_{-0.033}$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	$0.464^{+0.046}_{-0.028}$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	$10^5 \text{D}/\text{H}$	$2.564^{+0.078}_{-0.075}$	$\sigma_8(0.61)$	$0.589^{+0.058}_{-0.031}$
A_{143}^{dust}	$0.95^{+0.44}_{-0.45}$	Age/Gyr	$13.773^{+0.060}_{-0.060}$	$f\sigma_8(2.33)$	$0.297^{+0.029}_{-0.016}$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.60^{+0.67}_{-0.66}$	$\sigma_8(2.33)$	$0.307^{+0.030}_{-0.016}$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	r_*	$144.85^{+0.64}_{-0.64}$	f_{2000}^{143}	27^{+8}_{-8}
c_{100}	$0.9976^{+0.0027}_{-0.0027}$	$100\theta_*$	$1.04123^{+0.00073}_{-0.00076}$	f_{2000}^{217}	$105.1^{+5.2}_{-5.2}$
c_{217}	$1.0009^{+0.0040}_{-0.0040}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.911^{+0.061}_{-0.062}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-6}
c_{TE}	$0.993^{+0.014}_{-0.013}$	z_{drag}	$1060.08^{+0.89}_{-0.91}$	χ_{lowl}^2	$22.5 (\nu: 0.9)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	r_{drag}	$147.48^{+0.68}_{-0.67}$	χ_{CamSpec}^2	$11511.8 (\nu: 15.1)$
H_0	$68.2^{+1.3}_{-1.3}$	k_{D}	$0.14055^{+0.00084}_{-0.00082}$	$\chi_{6\text{DF}}^2$	$0.031 (\nu: 0.0)$
Ω_{Λ}	$0.696^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	$0.16068^{+0.00053}_{-0.00051}$	χ_{MGS}^2	$1.82 (\nu: 0.1)$
Ω_{m}	$0.304^{+0.017}_{-0.017}$	z_{eq}	3358^{+63}_{-63}	χ_{DR12BAO}^2	$3.94 (\nu: 0.3)$
$\Omega_{\text{m}}h^2$	$0.1412^{+0.0026}_{-0.0026}$	k_{eq}	$0.01025^{+0.00019}_{-0.00019}$	χ_{prior}^2	$7.7 (\nu: 5.5)$
$\Omega_{\text{m}}h^3$	$0.09627^{+0.00088}_{-0.00086}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.012}$	χ_{BAO}^2	$5.78 (\nu: 0.3)$
σ_8	$0.804^{+0.080}_{-0.045}$	$100\theta_{\text{s,eq}}$	$0.4537^{+0.0062}_{-0.0062}$	χ_{CMB}^2	$11534.3 (\nu: 15.7)$

$$\bar{\chi}_{\text{eff}}^2 = 11547.85; R - 1 = 0.01201$$

3.87 base_Alens_CamSpecHM_TTTEEE_lowl_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02252^{+0.00049}_{-0.00048} \quad (-0.5\sigma)$	σ_8	$0.823^{+0.071}_{-0.041} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.018}_{-0.018} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1177^{+0.0043}_{-0.0040} \quad (-0.1\sigma)$	S_8	$0.825^{+0.081}_{-0.060} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4544^{+0.0091}_{-0.0093} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04110^{+0.00084}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.044}_{-0.033} \quad (+0.0\sigma)$	$H(0.15)$	$73.5^{+1.7}_{-1.7} \quad (-0.1\sigma)$
τ	$0.079^{+0.083}_{-0.039} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.056}_{-0.035} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+17}_{-16} \quad (+0.1\sigma)$
A_{L}	$1.09^{+0.21}_{-0.22} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.995^{+0.093}_{-0.053} \quad (+0.1\sigma)$	$H(0.38)$	$83.5^{+1.3}_{-1.2} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.09^{+0.17}_{-0.086} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.8^{+3.3}_{-3.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1517^{+33}_{-33} \quad (+0.1\sigma)$
n_{s}	$0.972^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.17}_{-0.18} \quad (-0.7\sigma)$	$H(0.51)$	$90.1^{+1.0}_{-0.95} \quad (-0.2\sigma)$
y_{cal}	$1.0001^{+0.0069}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	$< 16.4 \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1967^{+39}_{-39} \quad (+0.1\sigma)$
A_{100}^{PS}	$231^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.19^{+0.39}_{-0.19} \quad (+0.1\sigma)$	$H(0.61)$	$95.63^{+0.83}_{-0.76} \quad (-0.2\sigma)$
A_{143}^{PS}	$35^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.869^{+0.034}_{-0.031} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2290^{+42}_{-42} \quad (+0.1\sigma)$
A_{217}^{PS}	$105^{+30}_{-30} \quad (-1.1\sigma)$	D_{40}	$1222^{+55}_{-38} \quad (-0.2\sigma)$	$H(2.33)$	$235.2^{+2.5}_{-2.3} \quad (-0.2\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5720^{+100}_{-97} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5749^{+35}_{-36} \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.91 \quad (-0.9\sigma)$	D_{810}	$2528^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.044}_{-0.032} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.370	D_{1420}	$815^{+12}_{-12} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.761^{+0.066}_{-0.036} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$231.8^{+4.3}_{-4.5} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.044}_{-0.029} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.972^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.676^{+0.058}_{-0.031} \quad (+0.0\sigma)$
A^{kSZ}	—	Y_{P}	$0.24545^{+0.00020}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.044}_{-0.027} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00020}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.633^{+0.055}_{-0.028} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.44}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.559^{+0.089}_{-0.087} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.044}_{-0.025} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.767^{+0.077}_{-0.079} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.603^{+0.052}_{-0.027} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.42}$	z_*	$1089.54^{+0.88}_{-0.86} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.026}_{-0.013} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	r_*	$144.91^{+0.85}_{-0.91} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.314^{+0.028}_{-0.014} \quad (+0.1\sigma)$
c_{217}	$1.0008^{+0.0041}_{-0.0040} \quad (+4.3\sigma)$	$100\theta_*$	$1.04127^{+0.00082}_{-0.00082} \quad (-0.2\sigma)$	f_{2000}^{143}	$27^{+8}_{-8} \quad (+0.1\sigma)$
c_{TE}	$0.992^{+0.014}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.078}_{-0.084} \quad (+0.3\sigma)$	f_{2000}^{217}	$104.8^{+5.3}_{-5.4} \quad (+0.0\sigma)$
c_{EE}	$0.990^{+0.013}_{-0.013}$	z_{drag}	$1060.12^{+0.92}_{-0.95} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (+0.0\sigma)$
H_0	$68.3^{+2.0}_{-1.9} \quad (-0.0\sigma)$	r_{drag}	$147.53^{+0.84}_{-0.88} \quad (+0.4\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 1.2) \quad (-0.1\sigma)$
Ω_{Λ}	$0.698^{+0.024}_{-0.026} \quad (+0.0\sigma)$	k_{D}	$0.14052^{+0.00093}_{-0.00089} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.4 \quad (\nu: 16.5)$
Ω_{m}	$0.302^{+0.026}_{-0.024} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16066^{+0.00055}_{-0.00052} \quad (+0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.6) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0040}_{-0.0037} \quad (-0.2\sigma)$	z_{eq}	$3351^{+95}_{-88} \quad (-0.2\sigma)$	χ_{CMB}^2	$11535.5 \quad (\nu: 17.2) \quad (+1537.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09628^{+0.00087}_{-0.00085} \quad (-0.7\sigma)$	k_{eq}	$0.01023^{+0.00029}_{-0.00027} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11543.27; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9154.98; R - 1 = 0.01232$$

3.88 base_Alens_CamSpecHM_TTTEEE_lowl_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02250^{+0.00043}_{-0.00042}$	S_8	$0.827^{+0.076}_{-0.049}$	$H(0.15)$	$73.4^{+1.2}_{-1.1}$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0029}_{-0.0028}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.042}_{-0.027}$	$D_{\mathrm{M}}(0.15)$	636^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.04106^{+0.00075}_{-0.00077}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.056}_{-0.030}$	$H(0.38)$	$83.38^{+0.87}_{-0.83}$
τ	$0.078^{+0.080}_{-0.038}$	$\sigma_8/h^{0.5}$	$0.996^{+0.085}_{-0.051}$	$D_{\mathrm{M}}(0.38)$	1519^{+22}_{-22}
A_{L}	$1.08^{+0.20}_{-0.21}$	$r_{\mathrm{drag}} h$	$100.6^{+2.3}_{-2.2}$	$H(0.51)$	$90.02^{+0.71}_{-0.67}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.08^{+0.16}_{-0.084}$	$\langle d^2 \rangle^{1/2}$	$2.56^{+0.17}_{-0.17}$	$D_{\mathrm{M}}(0.51)$	1969^{+26}_{-26}
n_{s}	$0.972^{+0.011}_{-0.011}$	z_{re}	< 16.1	$H(0.61)$	$95.58^{+0.60}_{-0.57}$
y_{cal}	$1.0001^{+0.0071}_{-0.0067}$	$10^9 A_{\mathrm{s}}$	$2.19^{+0.38}_{-0.18}$	$D_{\mathrm{M}}(0.61)$	2292^{+28}_{-29}
A_{100}^{PS}	231^{+60}_{-70}	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.030}_{-0.028}$	$H(2.33)$	$235.4^{+1.7}_{-1.7}$
A_{143}^{PS}	35^{+20}_{-20}	D_{40}	1223^{+52}_{-35}	$D_{\mathrm{M}}(2.33)$	5752^{+27}_{-27}
A_{217}^{PS}	105^{+30}_{-30}	D_{220}	5719^{+100}_{-98}	$f\sigma_8(0.15)$	$0.458^{+0.042}_{-0.026}$
A_{217}^{CIB}	37^{+20}_{-20}	D_{810}	2528^{+34}_{-35}	$\sigma_8(0.15)$	$0.761^{+0.065}_{-0.034}$
A_{143}^{tSZ}	< 8.89	D_{1420}	815^{+12}_{-12}	$f\sigma_8(0.38)$	$0.479^{+0.044}_{-0.025}$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.375	D_{2000}	$231.6^{+4.2}_{-4.3}$	$\sigma_8(0.38)$	$0.676^{+0.057}_{-0.029}$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.972^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.478^{+0.041}_{-0.025}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24544^{+0.00017}_{-0.00017}$	$\sigma_8(0.51)$	$0.633^{+0.054}_{-0.027}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00017}_{-0.00017}$	$f\sigma_8(0.61)$	$0.474^{+0.041}_{-0.024}$
A_{100}^{dust}	$1.01^{+0.52}_{-0.47}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.563^{+0.079}_{-0.077}$	$\sigma_8(0.61)$	$0.602^{+0.051}_{-0.026}$
A_{143}^{dust}	$0.94^{+0.43}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.772^{+0.060}_{-0.061}$	$f\sigma_8(2.33)$	$0.304^{+0.026}_{-0.013}$
A_{217}^{dust}	$0.98^{+0.27}_{-0.28}$	z_*	$1089.59^{+0.67}_{-0.66}$	$\sigma_8(2.33)$	$0.314^{+0.027}_{-0.013}$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.41}$	r_*	$144.86^{+0.65}_{-0.64}$	f_{2000}^{143}	27^{+8}_{-8}
c_{100}	$0.9975^{+0.0027}_{-0.0027}$	$100\theta_*$	$1.04124^{+0.00073}_{-0.00075}$	f_{2000}^{217}	$105.0^{+5.2}_{-5.3}$
c_{217}	$1.0009^{+0.0040}_{-0.0041}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.912^{+0.063}_{-0.062}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-6}
c_{TE}	$0.992^{+0.014}_{-0.014}$	z_{drag}	$1060.08^{+0.92}_{-0.91}$	χ_{lowl}^2	$23.2 (\nu: 1.1)$
c_{EE}	$0.990^{+0.012}_{-0.013}$	r_{drag}	$147.48^{+0.68}_{-0.68}$	$\chi_{\mathrm{CamSpec}}^2$	$11511.7 (\nu: 15.4)$
H_0	$68.2^{+1.3}_{-1.3}$	k_{D}	$0.14055^{+0.00086}_{-0.00084}$	$\chi_{6\mathrm{DF}}^2$	$0.032 (\nu: 0.0)$
Ω_{Λ}	$0.697^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00053}_{-0.00051}$	χ_{MGS}^2	$1.84 (\nu: 0.1)$
Ω_{m}	$0.303^{+0.017}_{-0.017}$	z_{eq}	3357^{+63}_{-64}	$\chi_{\mathrm{DR12BAO}}^2$	$3.93 (\nu: 0.3)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0026}_{-0.0027}$	k_{eq}	$0.01025^{+0.00019}_{-0.00019}$	χ_{prior}^2	$7.8 (\nu: 5.5)$
$\Omega_{\mathrm{m}} h^3$	$0.09627^{+0.00090}_{-0.00085}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.012}_{-0.012}$	χ_{BAO}^2	$5.80 (\nu: 0.3)$
σ_8	$0.823^{+0.070}_{-0.038}$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0064}_{-0.0062}$	χ_{CMB}^2	$11534.9 (\nu: 16.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11548.48; R - 1 = 0.01389$$

3.89 base_Alens_CamSpecHM_TTTEEE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022483	$0.02246^{+0.00049}_{-0.00050} \quad (-0.5\sigma)$	σ_8	0.8015	$0.801^{+0.022}_{-0.026} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	0.8203	$0.820^{+0.018}_{-0.018} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.11835	$0.1185^{+0.0041}_{-0.0041} \quad (-0.1\sigma)$	S_8	0.809	$0.810^{+0.051}_{-0.052} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	0.4530	$0.4528^{+0.0091}_{-0.0089} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	1.04101	$1.04102^{+0.00086}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4429	$0.443^{+0.028}_{-0.028} \quad (-0.0\sigma)$	$H(0.15)$	73.28	$73.2^{+1.7}_{-1.7} \quad (-0.1\sigma)$
τ	0.0505	$0.050^{+0.022}_{-0.027} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5958	$0.596^{+0.026}_{-0.027} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	637.4	$638^{+17}_{-16} \quad (+0.1\sigma)$
A_{L}	1.137	$1.13^{+0.19}_{-0.18} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	0.9714	$0.972^{+0.037}_{-0.039} \quad (+0.0\sigma)$	$H(0.38)$	83.29	$83.3^{+1.2}_{-1.2} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.031	$3.030^{+0.046}_{-0.055} \quad (-0.0\sigma)$	$r_{\text{drag}} h$	100.33	$100.2^{+3.3}_{-3.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.38)$	1521.6	$1523^{+34}_{-32} \quad (+0.1\sigma)$
n_{s}	0.9699	$0.969^{+0.014}_{-0.014} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.562	$2.55^{+0.17}_{-0.17} \quad (-0.8\sigma)$	$H(0.51)$	89.95	$89.9^{+1.0}_{-0.97} \quad (-0.2\sigma)$
y_{cal}	0.9998	$1.0001^{+0.0066}_{-0.0067} \quad (+0.0\sigma)$	z_{re}	7.23	$7.2^{+2.1}_{-3.1} \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	1972.0	$1973^{+39}_{-38} \quad (+0.1\sigma)$
A_{100}^{PS}	224	$234^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	2.072	$2.070^{+0.097}_{-0.11} \quad (-0.0\sigma)$	$H(0.61)$	95.52	$95.50^{+0.81}_{-0.79} \quad (-0.3\sigma)$
A_{143}^{PS}	49.0	$36^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8732	$1.874^{+0.032}_{-0.032} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2295.5	$2297^{+43}_{-41} \quad (+0.1\sigma)$
A_{217}^{PS}	107.3	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1216.5	$1219^{+38}_{-39} \quad (-0.2\sigma)$	$H(2.33)$	235.59	$235.7^{+2.4}_{-2.4} \quad (-0.2\sigma)$
A_{217}^{CIB}	39.7	$38^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5726	$5728^{+100}_{-100} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	5753.6	$5755^{+36}_{-36} \quad (+0.4\sigma)$
A_{143}^{tSZ}	6.41	$< 8.88 \quad (-0.9\sigma)$	D_{810}	2529.8	$2530^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4479	$0.448^{+0.026}_{-0.027} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.758	$0.67^{+0.32}_{-0.31}$	D_{1420}	814.8	$814^{+13}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7412	$0.741^{+0.019}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.87	—	D_{2000}	231.47	$231.1^{+4.6}_{-4.4} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4674	$0.468^{+0.021}_{-0.022} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.95	—	$n_{\text{s},0.002}$	0.9699	$0.969^{+0.014}_{-0.014} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	0.6577	$0.657^{+0.016}_{-0.019} \quad (-0.0\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.245438	$0.24543^{+0.00020}_{-0.00021} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	0.4667	$0.467^{+0.018}_{-0.020} \quad (-0.0\sigma)$
A_{100}^{dust}	1.003	$1.01^{+0.50}_{-0.49}$	$Y_{\text{P}}^{\text{BBN}}$	0.246765	$0.24675^{+0.00020}_{-0.00021} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6157	$0.615^{+0.015}_{-0.018} \quad (-0.0\sigma)$
A_{143}^{dust}	0.968	$0.95^{+0.45}_{-0.44}$	$10^5 \text{D}/\text{H}$	2.565	$2.570^{+0.094}_{-0.088} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	0.4623	$0.462^{+0.017}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{dust}	0.986	$0.98^{+0.27}_{-0.27}$	Age/Gyr	13.776	$13.779^{+0.081}_{-0.078} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.5861	$0.586^{+0.014}_{-0.017} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	0.996	$1.02^{+0.42}_{-0.42}$	z_*	1089.63	$1089.68^{+0.92}_{-0.88} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.2957	$0.2955^{+0.0070}_{-0.0081} \quad (-0.1\sigma)$
c_{100}	0.99790	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.77	$144.76^{+0.88}_{-0.86} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3052	$0.3049^{+0.0073}_{-0.0082} \quad (-0.1\sigma)$
c_{217}	1.00108	$1.0009^{+0.0040}_{-0.0041} \quad (+4.5\sigma)$	$100\theta_*$	1.04119	$1.04120^{+0.00084}_{-0.00083} \quad (-0.2\sigma)$	f_{2000}^{143}	27.9	$28^{+8}_{-8} \quad (+0.2\sigma)$
c_{TE}	0.9926	$0.993^{+0.014}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.905	$13.903^{+0.081}_{-0.079} \quad (+0.4\sigma)$	f_{2000}^{217}	105.0	$105.5^{+5.5}_{-5.5} \quad (+0.1\sigma)$
c_{EE}	0.9908	$0.991^{+0.013}_{-0.013}$	z_{drag}	1060.09	$1060.03^{+0.97}_{-1.0} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	30.4	$31^{+6}_{-6} \quad (+0.1\sigma)$
H_0	68.06	$68.0^{+1.9}_{-1.9} \quad (-0.1\sigma)$	r_{drag}	147.40	$147.40^{+0.86}_{-0.83} \quad (+0.4\sigma)$	χ_{simall}^2	395.68	$396.8 \quad (\nu: 1.3) \quad (-0.0\sigma)$
Ω_{Λ}	0.6946	$0.694^{+0.024}_{-0.026} \quad (-0.0\sigma)$	k_{D}	0.14062	$0.14061^{+0.00090}_{-0.00092} \quad (-0.7\sigma)$	χ_{CamSpec}^2	11496.2	$11512.2 \quad (\nu: 15.6)$
Ω_{m}	0.3054	$0.306^{+0.026}_{-0.024} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	0.16067	$0.16070^{+0.00057}_{-0.00055} \quad (+0.6\sigma)$	χ_{prior}^2	1.8	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^2$	0.14148	$0.1416^{+0.0038}_{-0.0038} \quad (-0.1\sigma)$	z_{eq}	3365	$3368^{+91}_{-91} \quad (-0.1\sigma)$	χ_{CMB}^2	11891.9	$11909.0 \quad (\nu: 16.9) \quad (+1534.3\sigma)$
$\Omega_{\text{m}} h^3$	0.09629	$0.09627^{+0.00085}_{-0.00086} \quad (-0.8\sigma)$	k_{eq}	0.010272	$0.01028^{+0.00028}_{-0.00028} \quad (-0.1\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11893.69$; $\Delta\chi_{\text{eff}}^2 = 9159.64$; $\bar{\chi}_{\text{eff}}^2 = 11916.80$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9154.73$; $R - 1 = 0.00486$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.68 (Δ -0.03) CamSpec like_10.7HM_1400_unified: 11496.17

4 Aphihi

4.1 base_Aphihi_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02214^{+0.00056}_{-0.00055}$	$\sigma_8 \Omega_m^{0.25}$	0.6089	$0.608^{+0.030}_{-0.029}$	$D_M(0.15)$	646.0	646^{+20}_{-20}
$\Omega_c h^2$	0.1202	$0.1201^{+0.0053}_{-0.0052}$	$\sigma_8/h^{0.5}$	0.9902	$0.989^{+0.040}_{-0.041}$	$H(0.38)$	82.63	$82.6^{+1.5}_{-1.4}$
$100\theta_{MC}$	1.04078	$1.0408^{+0.0012}_{-0.0012}$	$r_{drag} h$	98.77	$98.8^{+4.2}_{-4.0}$	$D_M(0.38)$	1539.0	1539^{+40}_{-40}
τ	0.0525	$0.052^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.445^{+0.098}_{-0.095}$	$H(0.51)$	89.40	$89.4^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.0406	$3.039^{+0.043}_{-0.045}$	z_{re}	7.55	$7.5^{+2.1}_{-2.4}$	$D_M(0.51)$	1992.6	1992^{+47}_{-47}
n_s	0.9644	$0.963^{+0.015}_{-0.015}$	$10^9 A_s$	2.092	$2.088^{+0.092}_{-0.093}$	$H(0.61)$	95.07	$95.08^{+0.94}_{-0.85}$
$A_L^{\phi\phi}$	0.9996	$1.001^{+0.097}_{-0.089}$	$10^9 A_s e^{-2\tau}$	1.8831	$1.882^{+0.035}_{-0.034}$	$D_M(0.61)$	2318	2318^{+50}_{-51}
y_{cal}	1.0005	$1.0005^{+0.0065}_{-0.0064}$	D_{40}	1229.8	1232^{+40}_{-38}	$H(2.33)$	236.47	$236.4^{+3.3}_{-3.2}$
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{220}	5714	5716^{+100}_{-100}	$D_M(2.33)$	5774.8	5775^{+40}_{-42}
$\xi^{tSZ \times CIB}$	0.28	—	D_{810}	2537.7	2536^{+35}_{-35}	$f\sigma_8(0.15)$	0.4613	$0.460^{+0.031}_{-0.030}$
A_{143}^{tSZ}	7.1	—	D_{1420}	815.6	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7487	$0.748^{+0.019}_{-0.020}$
A_{100}^{PS}	255	264^{+70}_{-70}	D_{2000}	230.00	$229.6^{+4.7}_{-4.7}$	$f\sigma_8(0.38)$	0.4782	$0.477^{+0.024}_{-0.024}$
A_{143}^{PS}	48.7	49^{+20}_{-20}	$n_{s,0.002}$	0.9644	$0.963^{+0.015}_{-0.015}$	$\sigma_8(0.38)$	0.6630	$0.662^{+0.016}_{-0.016}$
$A_{143 \times 217}^{PS}$	45.8	43^{+20}_{-20}	Y_P	0.245310	$0.24530^{+0.00022}_{-0.00026}$	$f\sigma_8(0.51)$	0.4761	$0.475^{+0.020}_{-0.021}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	Y_P^{BBN}	0.246636	$0.24662^{+0.00022}_{-0.00026}$	$\sigma_8(0.51)$	0.6201	$0.619^{+0.014}_{-0.015}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.625	$2.63^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	0.4706	$0.470^{+0.018}_{-0.019}$
A_{100}^{dustTT}	8.85	$8.9^{+4.7}_{-4.6}$	Age/Gyr	13.823	$13.824^{+0.091}_{-0.094}$	$\sigma_8(0.61)$	0.5899	$0.589^{+0.014}_{-0.014}$
A_{143}^{dustTT}	10.80	$10.7^{+4.5}_{-4.6}$	z_*	1090.20	$1090.2^{+1.0}_{-1.0}$	$f\sigma_8(2.33)$	0.2972	$0.2968^{+0.0069}_{-0.0069}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.6}_{-8.6}$	r_*	144.54	$144.6^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.3061	$0.3057^{+0.0073}_{-0.0071}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$100\theta_*$	1.04099	$1.0410^{+0.0012}_{-0.0012}$	f_{2000}^{143}	30.4	31^{+8}_{-8}
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.885	$13.89^{+0.11}_{-0.11}$	$f_{2000}^{143 \times 217}$	33.3	34^{+5}_{-5}
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.2}$	f_{2000}^{217}	107.69	$108.2^{+4.9}_{-4.9}$
H_0	67.06	$67.1^{+2.4}_{-2.3}$	r_{drag}	147.27	$147.3^{+1.2}_{-1.2}$	$\chi_{lensing}^2$	8.89	$9.9 (\nu: 1.0)$
Ω_Λ	0.6820	$0.682^{+0.031}_{-0.034}$	k_D	0.14052	$0.1405^{+0.0013}_{-0.0014}$	χ_{small}^2	395.87	$396.9 (\nu: 1.3)$
Ω_m	0.3180	$0.318^{+0.034}_{-0.031}$	$100\theta_D$	0.16102	$0.16106^{+0.00068}_{-0.00066}$	χ_{lowl}^2	23.41	$23.7 (\nu: 0.8)$
$\Omega_m h^2$	0.1430	$0.1429^{+0.0051}_{-0.0050}$	z_{eq}	3402	3400^{+120}_{-120}	χ_{plik}^2	758.9	$771.7 (\nu: 15.5)$
$\Omega_m h^3$	0.09591	$0.0959^{+0.0012}_{-0.0012}$	k_{eq}	0.010384	$0.01038^{+0.00037}_{-0.00036}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
σ_8	0.8109	$0.810^{+0.023}_{-0.023}$	$100\theta_{eq}$	0.8126	$0.813^{+0.023}_{-0.022}$	χ_{CMB}^2	1187.1	$1202.1 (\nu: 16.2)$
S_8	0.835	$0.833^{+0.062}_{-0.059}$	$100\theta_{s,eq}$	0.4492	$0.449^{+0.012}_{-0.012}$			
$\sigma_8 \Omega_m^{0.5}$	0.4573	$0.456^{+0.034}_{-0.033}$	$H(0.15)$	72.41	$72.4^{+2.0}_{-2.0}$			

Best-fit $\chi_{\text{eff}}^2 = 1188.51$; $\bar{\chi}_{\text{eff}}^2 = 1209.46$; $R - 1 = 0.00514$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.89 simall_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2_29: 23.41 plik_rd12_HM.v22_TT: 758.90

4.2 base_Aphiphi_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02215^{+0.00055}_{-0.00055}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.029}_{-0.030}$	$D_{\mathrm{M}}(0.15)$	646^{+20}_{-20}
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0053}_{-0.0052}$	$\sigma_8/h^{0.5}$	$0.990^{+0.040}_{-0.040}$	$H(0.38)$	$82.7^{+1.5}_{-1.4}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	$98.9^{+4.2}_{-4.0}$	$D_{\mathrm{M}}(0.38)$	1538^{+40}_{-40}
τ	$0.054^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.096}_{-0.094}$	$H(0.51)$	$89.4^{+1.2}_{-1.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.041}_{-0.029}$	z_{re}	< 9.36	$D_{\mathrm{M}}(0.51)$	1992^{+46}_{-47}
n_{s}	$0.964^{+0.015}_{-0.015}$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.087}_{-0.061}$	$H(0.61)$	$95.09^{+0.95}_{-0.85}$
$A_{\mathrm{L}}^{\phi\phi}$	$0.999^{+0.095}_{-0.088}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.036}_{-0.034}$	$D_{\mathrm{M}}(0.61)$	2317^{+50}_{-50}
y_{cal}	$1.0005^{+0.0065}_{-0.0064}$	D_{40}	1232^{+40}_{-38}	$H(2.33)$	$236.4^{+3.2}_{-3.2}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5717^{+100}_{-100}	$D_{\mathrm{M}}(2.33)$	5774^{+40}_{-42}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2536^{+35}_{-35}	$f\sigma_8(0.15)$	$0.461^{+0.031}_{-0.031}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.017}$
A_{100}^{PS}	264^{+70}_{-70}	D_{2000}	$229.6^{+4.8}_{-4.6}$	$f\sigma_8(0.38)$	$0.478^{+0.024}_{-0.024}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.964^{+0.015}_{-0.015}$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.013}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24530^{+0.00022}_{-0.00026}$	$f\sigma_8(0.51)$	$0.476^{+0.020}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00022}_{-0.00026}$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.012}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	$0.470^{+0.018}_{-0.019}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.822^{+0.091}_{-0.094}$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.010}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.6}$	z_*	$1090.2^{+1.0}_{-0.99}$	$f\sigma_8(2.33)$	$0.2973^{+0.0066}_{-0.0047}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.6}_{-8.5}$	r_*	$144.6^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	$0.3063^{+0.0069}_{-0.0048}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	f_{2000}^{143}	31^{+7}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.11}_{-0.11}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+1.2}_{-1.2}$	f_{2000}^{217}	$108.2^{+4.8}_{-4.9}$
H_0	$67.1^{+2.3}_{-2.3}$	r_{drag}	$147.3^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.8 (\nu: 1.0)$
Ω_{Λ}	$0.683^{+0.031}_{-0.034}$	k_{D}	$0.1404^{+0.0013}_{-0.0014}$	χ_{simall}^2	$396.8 (\nu: 1.3)$
Ω_{m}	$0.317^{+0.034}_{-0.031}$	$100\theta_{\mathrm{D}}$	$0.16105^{+0.00068}_{-0.00066}$	χ_{lowl}^2	$23.7 (\nu: 0.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1429^{+0.0051}_{-0.0050}$	z_{eq}	3398^{+120}_{-120}	χ_{plik}^2	$771.5 (\nu: 15.4)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0011}$	k_{eq}	$0.01037^{+0.00037}_{-0.00036}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.811^{+0.022}_{-0.021}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.023}_{-0.022}$	χ_{CMB}^2	$1201.8 (\nu: 15.7)$
S_8	$0.834^{+0.062}_{-0.060}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.012}_{-0.011}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.034}_{-0.033}$	$H(0.15)$	$72.5^{+2.0}_{-1.9}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1209.13; R - 1 = 0.00594$$

4.3 base_Aphiphi_plikHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022385	$0.02237^{+0.00038}_{-0.00038}$	$\Omega_m h^3$	0.09636	$0.09633^{+0.00077}_{-0.00074}$	$100\theta_{s,eq}$	0.4492	$0.4493^{+0.0076}_{-0.0072}$
$\Omega_c h^2$	0.12005	$0.1201^{+0.0034}_{-0.0034}$	σ_8	0.8118	$0.811^{+0.020}_{-0.019}$	$H(0.15)$	72.67	$72.7^{+1.3}_{-1.3}$
$100\theta_{MC}$	1.04092	$1.04092^{+0.00078}_{-0.00079}$	S_8	0.8325	$0.832^{+0.040}_{-0.040}$	$D_M(0.15)$	643.4	644^{+13}_{-13}
τ	0.0543	$0.054^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4560	$0.456^{+0.022}_{-0.022}$	$H(0.38)$	82.86	$82.85^{+0.98}_{-0.94}$
$\ln(10^{10} A_s)$	3.0448	$3.044^{+0.043}_{-0.041}$	$\sigma_8 \Omega_m^{0.25}$	0.6084	$0.608^{+0.021}_{-0.020}$	$D_M(0.38)$	1533.6	1534^{+26}_{-27}
n_s	0.9660	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9893	$0.989^{+0.030}_{-0.029}$	$H(0.51)$	89.63	$89.62^{+0.78}_{-0.74}$
$A_L^{\phi\phi}$	0.999	$0.998^{+0.084}_{-0.076}$	$r_{drag} h$	99.04	$99.0^{+2.7}_{-2.6}$	$D_M(0.51)$	1986.0	1986^{+31}_{-31}
y_{cal}	1.0006	$1.0006^{+0.0064}_{-0.0067}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.446^{+0.071}_{-0.072}$	$H(0.61)$	95.28	$95.27^{+0.62}_{-0.59}$
A_{217}^{CIB}	46.9	47^{+20}_{-20}	z_{re}	7.68	$7.7^{+2.0}_{-2.1}$	$D_M(0.61)$	2310.5	2311^{+33}_{-34}
$\xi^{tSZ \times CIB}$	0.48	—	$10^9 A_s$	2.101	$2.100^{+0.091}_{-0.084}$	$H(2.33)$	236.61	$236.6^{+2.0}_{-2.0}$
A_{143}^{tSZ}	7.15	$5.4^{+4.3}_{-4.7}$	$10^9 A_s e^{-2\tau}$	1.8843	$1.884^{+0.029}_{-0.029}$	$D_M(2.33)$	5763.2	5764^{+28}_{-28}
A_{100}^{PS}	250	259^{+70}_{-70}	D_{40}	1229.2	1232^{+33}_{-32}	$f\sigma_8(0.15)$	0.4602	$0.460^{+0.021}_{-0.021}$
A_{143}^{PS}	48.2	46^{+20}_{-20}	D_{220}	5732	5734^{+100}_{-100}	$\sigma_8(0.15)$	0.7498	$0.749^{+0.017}_{-0.017}$
$A_{143 \times 217}^{PS}$	48.8	42^{+20}_{-20}	D_{810}	2541.4	2540^{+34}_{-35}	$f\sigma_8(0.38)$	0.4777	$0.478^{+0.017}_{-0.017}$
A_{217}^{PS}	120.3	115^{+30}_{-30}	D_{1420}	818.5	817^{+12}_{-13}	$\sigma_8(0.38)$	0.6642	$0.664^{+0.015}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	231.33	$230.9^{+4.0}_{-4.2}$	$f\sigma_8(0.51)$	0.4759	$0.476^{+0.015}_{-0.015}$
A_{100}^{dustTT}	8.83	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	0.9660	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6214	$0.621^{+0.014}_{-0.013}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.5}$	Y_P	0.245402	$0.24539^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	0.4706	$0.470^{+0.014}_{-0.013}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.5}_{-8.5}$	Y_P^{BBN}	0.246728	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.013}_{-0.012}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$10^5 D/H$	2.583	$2.587^{+0.072}_{-0.069}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0066}_{-0.0060}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.094}$	Age/Gyr	13.796	$13.798^{+0.063}_{-0.062}$	$\sigma_8(2.33)$	0.3070	$0.3068^{+0.0070}_{-0.0063}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.074}_{-0.073}$	z_*	1089.90	$1089.93^{+0.71}_{-0.70}$	f_{2000}^{143}	28.8	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.22}_{-0.22}$	r_*	144.41	$144.42^{+0.77}_{-0.75}$	$f_{2000}^{143 \times 217}$	31.97	32^{+5}_{-5}
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04110	$1.04110^{+0.00077}_{-0.00077}$	f_{2000}^{217}	106.60	$107.0^{+4.6}_{-4.6}$
$A_{143 \times 217}^{dustTE}$	0.666	$0.67^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.871	$13.872^{+0.071}_{-0.070}$	$\chi^2_{lensing}$	8.83	$9.8 (\nu: 1.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.69}$	z_{drag}	1059.97	$1059.93^{+0.76}_{-0.76}$	χ^2_{small}	396.05	$397.1 (\nu: 1.7)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	147.06	$147.08^{+0.76}_{-0.74}$	χ^2_{lowl}	23.24	$23.52 (\nu: 0.5)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14091	$0.14088^{+0.00081}_{-0.00081}$	χ^2_{plik}	2344.7	$2359.7 (\nu: 16.9)$
H_0	67.35	$67.3^{+1.6}_{-1.5}$	$100\theta_D$	0.160735	$0.16076^{+0.00045}_{-0.00044}$	χ^2_{prior}	1.8	$11.6 (\nu: 10.1)$
Ω_Λ	0.6845	$0.684^{+0.021}_{-0.022}$	z_{eq}	3404	3404^{+76}_{-77}	χ^2_{CMB}	2772.8	$2790.1 (\nu: 18.0)$
Ω_m	0.3155	$0.316^{+0.022}_{-0.021}$	k_{eq}	0.010389	$0.01039^{+0.00023}_{-0.00023}$			
$\Omega_m h^2$	0.14308	$0.1431^{+0.0032}_{-0.0032}$	$100\theta_{eq}$	0.8130	$0.813^{+0.015}_{-0.014}$			

Best-fit $\chi^2_{eff} = 2774.59$; $\bar{\chi}^2_{eff} = 2801.64$; $R - 1 = 0.01120$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.83 small_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2.29: 23.24 plik_rd12_HM_v22b_TTTEEE: 2344.72

4.4 base_Aphiphi_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00038}_{-0.00038}$	$\Omega_m h^3$	$0.09633^{+0.00078}_{-0.00074}$	$100\theta_{s,eq}$	$0.4493^{+0.0075}_{-0.0072}$
$\Omega_c h^2$	$0.1200^{+0.0034}_{-0.0034}$	σ_8	$0.812^{+0.019}_{-0.016}$	$H(0.15)$	$72.7^{+1.3}_{-1.3}$
$100\theta_{MC}$	$1.04092^{+0.00079}_{-0.00079}$	S_8	$0.833^{+0.040}_{-0.040}$	$D_M(0.15)$	644^{+13}_{-13}
τ	$0.055^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.456^{+0.022}_{-0.022}$	$H(0.38)$	$82.86^{+0.98}_{-0.94}$
$\ln(10^{10} A_s)$	$3.046^{+0.041}_{-0.029}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.021}_{-0.020}$	$D_M(0.38)$	1534^{+26}_{-26}
n_s	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.990^{+0.029}_{-0.028}$	$H(0.51)$	$89.62^{+0.78}_{-0.74}$
$A_L^{\phi\phi}$	$0.997^{+0.082}_{-0.075}$	$r_{drag} h$	$99.1^{+2.7}_{-2.6}$	$D_M(0.51)$	1986^{+31}_{-31}
y_{cal}	$1.0006^{+0.0064}_{-0.0067}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.069}_{-0.068}$	$H(0.61)$	$95.27^{+0.62}_{-0.59}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.50	$D_M(0.61)$	2311^{+33}_{-33}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.104^{+0.088}_{-0.061}$	$H(2.33)$	$236.6^{+2.0}_{-2.0}$
A_{143}^{tSZ}	$5.4^{+4.3}_{-4.7}$	$10^9 A_s e^{-2\tau}$	$1.884^{+0.029}_{-0.029}$	$D_M(2.33)$	5764^{+28}_{-28}
A_{100}^{PS}	258^{+70}_{-70}	D_{40}	1232^{+33}_{-32}	$f\sigma_8(0.15)$	$0.460^{+0.020}_{-0.021}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5734^{+100}_{-100}	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.014}$
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	D_{810}	2540^{+34}_{-35}	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.014}_{-0.011}$
A^{kSZ}	—	D_{2000}	$230.9^{+4.0}_{-4.2}$	$f\sigma_8(0.51)$	$0.476^{+0.015}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.622^{+0.013}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.5}$	Y_P	$0.24539^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	$0.471^{+0.013}_{-0.013}$
$A_{143 \times 217}^{dustTT}$	$18.6^{+8.5}_{-8.5}$	Y_P^{BBN}	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.0094}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.586^{+0.072}_{-0.069}$	$f\sigma_8(2.33)$	$0.2980^{+0.0064}_{-0.0045}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	Age/Gyr	$13.798^{+0.063}_{-0.062}$	$\sigma_8(2.33)$	$0.3071^{+0.0067}_{-0.0046}$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.074}_{-0.073}$	z_*	$1089.92^{+0.70}_{-0.70}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.42^{+0.76}_{-0.75}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.04110^{+0.00077}_{-0.00077}$	f_{2000}^{217}	$107.0^{+4.6}_{-4.6}$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.872^{+0.071}_{-0.069}$	$\chi_{lensing}^2$	$9.8 (\nu: 1.0)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.68}$	z_{drag}	$1059.94^{+0.76}_{-0.77}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	$147.08^{+0.75}_{-0.75}$	χ_{lowl}^2	$23.53 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.14088^{+0.00081}_{-0.00080}$	χ_{plik}^2	$2359.5 (\nu: 16.6)$
H_0	$67.3^{+1.6}_{-1.5}$	$100\theta_D$	$0.16076^{+0.00045}_{-0.00044}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_Λ	$0.684^{+0.021}_{-0.022}$	z_{eq}	3403^{+76}_{-76}	χ_{CMB}^2	$2789.8 (\nu: 17.5)$
Ω_m	$0.316^{+0.022}_{-0.021}$	k_{eq}	$0.01039^{+0.00023}_{-0.00023}$		
$\Omega_m h^2$	$0.1431^{+0.0032}_{-0.0032}$	$100\theta_{eq}$	$0.813^{+0.015}_{-0.014}$		

$$\bar{\chi}_{eff}^2 = 2801.40; R - 1 = 0.01121$$

5 alpha1

5.1 base_alpha1_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02219^{+0.00059}_{-0.00057}$	$\sigma_8 \Omega_m^{0.5}$	0.4622	$0.464^{+0.036}_{-0.035}$	$100\theta_{s,eq}$	0.4471	$0.446^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1211	$0.1214^{+0.0058}_{-0.0057}$	$\sigma_8 \Omega_m^{0.25}$	0.6128	$0.614^{+0.031}_{-0.031}$	$H(0.15)$	72.11	$72.0^{+2.2}_{-2.0}$
$100\theta_{MC}$	1.04062	$1.0405^{+0.0015}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.9949	$0.996^{+0.042}_{-0.043}$	$D_M(0.15)$	649.0	650^{+22}_{-22}
τ	0.0526	$0.054^{+0.023}_{-0.022}$	$r_{drag}h$	98.06	$97.8^{+4.6}_{-4.3}$	$H(0.38)$	82.43	$82.4^{+1.6}_{-1.4}$
α_{-1}	-0.0003	$-0.0015^{+0.0042}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.458	$2.47^{+0.10}_{-0.11}$	$D_M(0.38)$	1545.0	1547^{+42}_{-43}
$\ln(10^{10} A_s)$	3.0442	$3.047^{+0.048}_{-0.048}$	z_{re}	7.57	$7.7^{+2.2}_{-2.4}$	$H(0.51)$	89.26	$89.2^{+1.2}_{-1.1}$
n_s	0.9607	$0.958^{+0.021}_{-0.018}$	$10^9 A_s$	2.099	$2.11^{+0.10}_{-0.099}$	$D_M(0.51)$	2000	2002^{+49}_{-50}
y_{cal}	1.0005	$1.0005^{+0.0066}_{-0.0066}$	$10^9 A_s e^{-2\tau}$	1.8895	$1.892^{+0.040}_{-0.039}$	$H(0.61)$	94.97	$94.94^{+0.97}_{-0.86}$
A_{217}^{CIB}	49.1	48^{+20}_{-20}	D_{40}	1222	1218^{+61}_{-48}	$D_M(0.61)$	2325	2328^{+52}_{-54}
$\xi^{tSZ \times CIB}$	0.28	—	D_{220}	5715	5719^{+110}_{-110}	$H(2.33)$	237.08	$237.3^{+3.6}_{-3.6}$
A_{143}^{tSZ}	7.0	—	D_{810}	2540.2	2539^{+38}_{-37}	$D_M(2.33)$	5778.1	5780^{+41}_{-43}
A_{100}^{PS}	255	265^{+70}_{-70}	D_{1420}	815.6	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.4657	$0.467^{+0.032}_{-0.032}$
A_{143}^{PS}	49.1	49^{+20}_{-20}	D_{2000}	229.95	$229.4^{+4.6}_{-4.7}$	$\sigma_8(0.15)$	0.7497	$0.749^{+0.020}_{-0.020}$
$A_{143 \times 217}^{PS}$	46.1	43^{+20}_{-20}	$n_{s,0.002}$	0.9607	$0.958^{+0.021}_{-0.018}$	$f\sigma_8(0.38)$	0.4814	$0.482^{+0.025}_{-0.026}$
A_{217}^{PS}	118.8	115^{+30}_{-30}	Y_P	0.245318	$0.24532^{+0.00023}_{-0.00027}$	$\sigma_8(0.38)$	0.6632	$0.663^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246644	$0.24664^{+0.00023}_{-0.00027}$	$f\sigma_8(0.51)$	0.4786	$0.479^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.90	$9.0^{+4.7}_{-4.8}$	$10^5 D/H$	2.622	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6201	$0.620^{+0.015}_{-0.015}$
A_{143}^{dustTT}	10.83	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.830	$13.834^{+0.092}_{-0.096}$	$f\sigma_8(0.61)$	0.4727	$0.473^{+0.018}_{-0.020}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.5}_{-8.5}$	z_*	1090.26	$1090.3^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	0.5898	$0.589^{+0.014}_{-0.014}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	r_*	144.29	$144.2^{+1.4}_{-1.3}$	$f\sigma_8(2.33)$	0.2969	$0.2965^{+0.0069}_{-0.0070}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04082	$1.0407^{+0.0015}_{-0.0014}$	$\sigma_8(2.33)$	0.3056	$0.3051^{+0.0074}_{-0.0074}$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.863	$13.86^{+0.13}_{-0.12}$	f_{2000}^{143}	30.5	31^{+8}_{-8}
H_0	66.71	$66.6^{+2.5}_{-2.4}$	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	33.4	34^{+5}_{-5}
Ω_Λ	0.6765	$0.674^{+0.035}_{-0.037}$	r_{drag}	147.01	$146.9^{+1.5}_{-1.4}$	f_{2000}^{217}	107.77	$108.3^{+4.9}_{-4.9}$
Ω_m	0.3235	$0.326^{+0.037}_{-0.035}$	k_D	0.14081	$0.1409^{+0.0015}_{-0.0017}$	χ_{small}^2	395.88	$397.1 (\nu: 1.5)$
$\Omega_m h^2$	0.1439	$0.1443^{+0.0056}_{-0.0056}$	$100\theta_D$	0.16094	$0.16090^{+0.00084}_{-0.00075}$	χ_{lowl}^2	22.2	$22.1 (\nu: 2.3)$
$\Omega_m h^3$	0.09602	$0.0960^{+0.0012}_{-0.0012}$	z_{eq}	3425	3432^{+130}_{-130}	χ_{plik}^2	759.7	$774.0 (\nu: 17.1)$
σ_8	0.8126	$0.812^{+0.023}_{-0.023}$	k_{eq}	0.010452	$0.01047^{+0.00041}_{-0.00041}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.8)$
S_8	0.844	$0.847^{+0.065}_{-0.064}$	$100\theta_{eq}$	0.8086	$0.807^{+0.025}_{-0.024}$	χ_{CMB}^2	1177.7	$1193.2 (\nu: 16.7)$

Best-fit $\chi_{eff}^2 = 1179.15$; $\bar{\chi}_{eff}^2 = 1200.56$; $R - 1 = 0.00658$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3.2_29: 22.18 plik_rd12_HM_v22_TT: 759.66

5.2 base_alpha1_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02228^{+0.00058}_{-0.00062}$	$\sigma_8/h^{0.5}$	0.9814	$0.981^{+0.030}_{-0.030}$	$D_M(0.38)$	1529.4	1530^{+24}_{-24}
$\Omega_c h^2$	0.11894	$0.1191^{+0.0032}_{-0.0031}$	$r_{\text{drag}} h$	99.76	$99.7^{+2.5}_{-2.5}$	$H(0.51)$	89.67	$89.67^{+0.75}_{-0.72}$
$100\theta_{\text{MC}}$	1.04092	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.427	$2.429^{+0.074}_{-0.076}$	$D_M(0.51)$	1981.4	1982^{+28}_{-28}
τ	0.0547	$0.055^{+0.023}_{-0.021}$	z_{re}	7.73	$7.8^{+2.2}_{-2.3}$	$H(0.61)$	95.27	$95.28^{+0.62}_{-0.62}$
α_{-1}	-0.0001	$-0.0008^{+0.0044}_{-0.0059}$	$10^9 A_s$	2.095	$2.10^{+0.10}_{-0.10}$	$D_M(0.61)$	2305.8	2306^{+30}_{-31}
$\ln(10^{10} A_s)$	3.0422	$3.044^{+0.048}_{-0.049}$	$10^9 A_s e^{-2\tau}$	1.8781	$1.880^{+0.032}_{-0.032}$	$H(2.33)$	235.74	$235.9^{+2.1}_{-2.0}$
n_s	0.9664	$0.964^{+0.015}_{-0.014}$	D_{40}	1219	1215^{+61}_{-48}	$D_M(2.33)$	5766.2	5766^{+32}_{-30}
y_{cal}	1.0004	$1.0006^{+0.0066}_{-0.0066}$	D_{220}	5719	5725^{+110}_{-110}	$f\sigma_8(0.15)$	0.4541	$0.454^{+0.020}_{-0.019}$
A_{217}^{CIB}	48.7	48^{+20}_{-20}	D_{810}	2536.6	2537^{+38}_{-37}	$\sigma_8(0.15)$	0.7460	$0.745^{+0.018}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.34	—	D_{1420}	816.0	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4727	$0.473^{+0.017}_{-0.017}$
A_{143}^{tSZ}	6.9	—	D_{2000}	230.14	$229.9^{+4.5}_{-4.7}$	$\sigma_8(0.38)$	0.6614	$0.661^{+0.016}_{-0.017}$
A_{100}^{PS}	255	264^{+70}_{-70}	$n_{s,0.002}$	0.9664	$0.964^{+0.015}_{-0.014}$	$f\sigma_8(0.51)$	0.4715	$0.471^{+0.015}_{-0.016}$
A_{143}^{PS}	49.9	48^{+20}_{-20}	Y_{P}	0.245347	$0.24536^{+0.00023}_{-0.00029}$	$\sigma_8(0.51)$	0.6190	$0.618^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	47.0	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246674	$0.24668^{+0.00023}_{-0.00029}$	$f\sigma_8(0.61)$	0.4666	$0.466^{+0.014}_{-0.014}$
A_{217}^{PS}	119.0	114^{+20}_{-30}	$10^5 \text{D}/\text{H}$	2.608	$2.60^{+0.12}_{-0.10}$	$\sigma_8(0.61)$	0.5890	$0.588^{+0.014}_{-0.015}$
A^{kSZ}	0.2	—	Age/Gyr	13.805	$13.804^{+0.073}_{-0.070}$	$f\sigma_8(2.33)$	0.2971	$0.2967^{+0.0068}_{-0.0073}$
A_{100}^{dustTT}	8.89	$9.0^{+4.6}_{-4.7}$	z_*	1089.98	$1089.95^{+0.87}_{-0.79}$	$\sigma_8(2.33)$	0.3063	$0.3059^{+0.0070}_{-0.0072}$
A_{143}^{dustTT}	10.74	$10.8^{+4.8}_{-4.6}$	r_*	144.80	$144.74^{+0.88}_{-0.88}$	f_{2000}^{143}	30.4	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.5}_{-9.0}$	$100\theta_*$	1.04111	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.908	$13.903^{+0.082}_{-0.083}$	f_{2000}^{217}	107.58	$108.0^{+4.9}_{-4.9}$
c_{100}	0.99970	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.59	$1059.7^{+1.3}_{-1.4}$	χ_{small}^2	396.06	$397.2 (\nu: 1.7)$
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	147.50	$147.4^{+1.0}_{-0.98}$	χ_{lowl}^2	22.3	$22 (\nu: 3.1)$
H_0	67.63	$67.6^{+1.4}_{-1.4}$	k_{D}	0.14034	$0.1404^{+0.0013}_{-0.0014}$	χ_{plik}^2	760.7	$774.1 (\nu: 17.0)$
Ω_Λ	0.6899	$0.689^{+0.018}_{-0.020}$	$100\theta_{\text{D}}$	0.16095	$0.16091^{+0.00090}_{-0.00080}$	$\chi_{6\text{DF}}^2$	0.022	$0.067 (\nu: 0.0)$
Ω_{m}	0.3101	$0.311^{+0.020}_{-0.018}$	z_{eq}	3374	3378^{+77}_{-73}	χ_{MGS}^2	1.28	$1.30 (\nu: 0.1)$
$\Omega_{\text{m}} h^2$	0.14183	$0.1420^{+0.0032}_{-0.0031}$	k_{eq}	0.010298	$0.01031^{+0.00023}_{-0.00022}$	χ_{DR12BAO}^2	4.22	$5.0 (\nu: 1.7)$
$\Omega_{\text{m}} h^3$	0.09592	$0.0960^{+0.0012}_{-0.0012}$	$100\theta_{\text{eq}}$	0.8180	$0.817^{+0.014}_{-0.014}$	χ_{prior}^2	1.2	$7.3 (\nu: 6.9)$
σ_8	0.8071	$0.807^{+0.020}_{-0.021}$	$100\theta_{\text{s,eq}}$	0.4519	$0.4516^{+0.0071}_{-0.0072}$	χ_{BAO}^2	5.52	$6.4 (\nu: 1.2)$
S_8	0.8206	$0.821^{+0.039}_{-0.037}$	$H(0.15)$	72.89	$72.9^{+1.2}_{-1.2}$	χ_{CMB}^2	1179.0	$1193.6 (\nu: 16.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4495	$0.450^{+0.021}_{-0.020}$	$D_M(0.15)$	641.1	641^{+12}_{-12}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6023	$0.602^{+0.021}_{-0.021}$	$H(0.38)$	82.97	$82.96^{+0.92}_{-0.88}$			

Best-fit $\chi_{\text{eff}}^2 = 1185.69$; $\bar{\chi}_{\text{eff}}^2 = 1207.24$; $R - 1 = 0.02382$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.22 CMB - simall_100x143.offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2.29: 22.26 plik_rd12_HM_v22.TT: 760.65

5.3 base_alpha1_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02223^{+0.00057}_{-0.00057}$	$\sigma_8 \Omega_m^{0.25}$	0.6095	$0.609^{+0.020}_{-0.020}$	$D_M(0.15)$	646.8	647^{+16}_{-16}
$\Omega_c h^2$	0.12051	$0.1207^{+0.0042}_{-0.0041}$	$\sigma_8/h^{0.5}$	0.9905	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	82.58	$82.5^{+1.2}_{-1.1}$
$100\theta_{MC}$	1.04069	$1.0406^{+0.0014}_{-0.0013}$	$r_{drag}h$	98.53	$98.4^{+3.4}_{-3.2}$	$D_M(0.38)$	1540.7	1542^{+32}_{-33}
τ	0.0528	$0.054^{+0.021}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.449	$2.452^{+0.065}_{-0.065}$	$H(0.51)$	89.38	$89.35^{+0.96}_{-0.91}$
α_{-1}	-0.00018	$-0.0013^{+0.0040}_{-0.0058}$	z_{re}	7.58	$7.6^{+2.0}_{-2.3}$	$D_M(0.51)$	1994.5	1996^{+38}_{-39}
$\ln(10^{10} A_s)$	3.0425	$3.045^{+0.043}_{-0.041}$	$10^9 A_s$	2.096	$2.101^{+0.093}_{-0.085}$	$H(0.61)$	95.06	$95.04^{+0.78}_{-0.74}$
n_s	0.9621	$0.959^{+0.018}_{-0.016}$	$10^9 A_s e^{-2\tau}$	1.8855	$1.888^{+0.033}_{-0.033}$	$D_M(0.61)$	2319.8	2321^{+41}_{-42}
y_{cal}	1.0002	$1.0004^{+0.0065}_{-0.0066}$	D_{40}	1222	1216^{+61}_{-45}	$H(2.33)$	236.72	$236.8^{+2.6}_{-2.6}$
A_{217}^{CIB}	49.4	48^{+20}_{-20}	D_{220}	5716	5721^{+110}_{-100}	$D_M(2.33)$	5774.8	5776^{+36}_{-37}
$\xi^{tSZ \times CIB}$	0.26	—	D_{810}	2537.9	2538^{+36}_{-35}	$f\sigma_8(0.15)$	0.4622	$0.462^{+0.021}_{-0.021}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.2	814^{+13}_{-13}	$\sigma_8(0.15)$	0.7482	$0.747^{+0.014}_{-0.014}$
A_{100}^{PS}	257	265^{+70}_{-70}	D_{2000}	229.84	$229.4^{+4.7}_{-4.7}$	$f\sigma_8(0.38)$	0.4787	$0.479^{+0.016}_{-0.016}$
A_{143}^{PS}	48.9	49^{+20}_{-20}	$n_{s,0.002}$	0.9621	$0.959^{+0.018}_{-0.016}$	$\sigma_8(0.38)$	0.6623	$0.661^{+0.012}_{-0.013}$
$A_{143 \times 217}^{PS}$	45.3	43^{+20}_{-20}	Y_P	0.245329	$0.24533^{+0.00022}_{-0.00027}$	$f\sigma_8(0.51)$	0.4764	$0.476^{+0.014}_{-0.014}$
A_{217}^{PS}	118.1	114^{+30}_{-30}	Y_P^{BBN}	0.246655	$0.24666^{+0.00022}_{-0.00027}$	$\sigma_8(0.51)$	0.6195	$0.619^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.617	$2.61^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	0.4707	$0.470^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.88	$8.9^{+4.6}_{-4.8}$	Age/Gyr	13.823	$13.825^{+0.082}_{-0.084}$	$\sigma_8(0.61)$	0.5892	$0.588^{+0.011}_{-0.012}$
A_{143}^{dustTT}	10.80	$10.8^{+4.7}_{-4.5}$	z_*	1090.17	$1090.16^{+0.90}_{-0.92}$	$f\sigma_8(2.33)$	0.2968	$0.2963^{+0.0061}_{-0.0065}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.4^{+8.5}_{-8.6}$	r_*	144.42	$144.4^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	0.3056	$0.3051^{+0.0069}_{-0.0072}$
A_{217}^{dustTT}	94.2	93^{+20}_{-20}	$100\theta_*$	1.04089	$1.0408^{+0.0014}_{-0.0013}$	f_{2000}^{143}	30.5	31^{+8}_{-8}
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.872^{+0.096}_{-0.093}$	$f_{2000}^{143 \times 217}$	33.3	34^{+5}_{-5}
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0015}$	z_{drag}	1059.59	$1059.7^{+1.3}_{-1.3}$	f_{2000}^{217}	107.62	$108.2^{+5.0}_{-4.9}$
H_0	66.96	$66.9^{+1.9}_{-1.8}$	r_{drag}	147.14	$147.1^{+1.1}_{-1.1}$	$\chi_{lensing}^2$	8.93	$9.52 (\nu: 0.5)$
Ω_Λ	0.6803	$0.679^{+0.026}_{-0.027}$	k_D	0.14069	$0.1408^{+0.0013}_{-0.0014}$	χ_{small}^2	395.89	$397.0 (\nu: 1.1)$
Ω_m	0.3197	$0.321^{+0.027}_{-0.026}$	$100\theta_D$	0.16093	$0.16089^{+0.00086}_{-0.00075}$	χ_{lowl}^2	22.35	$22.1 (\nu: 2.4)$
$\Omega_m h^2$	0.14337	$0.1435^{+0.0041}_{-0.0040}$	z_{eq}	3411	3415^{+97}_{-97}	χ_{plik}^2	759.7	$773.7 (\nu: 16.1)$
$\Omega_m h^3$	0.09600	$0.0960^{+0.0012}_{-0.0012}$	k_{eq}	0.010409	$0.01042^{+0.00030}_{-0.00029}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
σ_8	0.8106	$0.810^{+0.016}_{-0.016}$	$100\theta_{eq}$	0.8112	$0.810^{+0.018}_{-0.018}$	χ_{CMB}^2	1186.9	$1202.2 (\nu: 16.4)$
S_8	0.8368	$0.837^{+0.043}_{-0.042}$	$100\theta_{s,eq}$	0.4484	$0.4480^{+0.0094}_{-0.0091}$			
$\sigma_8 \Omega_m^{0.5}$	0.4583	$0.459^{+0.024}_{-0.023}$	$H(0.15)$	72.33	$72.3^{+1.7}_{-1.6}$			

Best-fit $\chi_{\text{eff}}^2 = 1188.17$; $\bar{\chi}_{\text{eff}}^2 = 1209.53$; $R - 1 = 0.01166$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.93 small_100x143_offlike5_EE_Aplanck_B: 395.89 commander_dx12_v3.2_29: 22.35 plik_rd12_HM.v22_TT: 759.73

5.4 base_alpha1_plikHM_TT_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02228	$0.02229^{+0.00059}_{-0.00060}$	$\sigma_8/h^{0.5}$	0.9842	$0.983^{+0.023}_{-0.023}$	$D_M(0.38)$	1529.9	1531^{+22}_{-22}
$\Omega_c h^2$	0.11911	$0.1192^{+0.0029}_{-0.0028}$	$r_{\text{drag}} h$	99.65	$99.6^{+2.2}_{-2.2}$	$H(0.51)$	89.67	$89.65^{+0.68}_{-0.69}$
$100\theta_{\text{MC}}$	1.04092	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.436	$2.436^{+0.055}_{-0.055}$	$D_M(0.51)$	1982.0	1983^{+26}_{-26}
τ	0.0565	$0.057^{+0.021}_{-0.019}$	z_{re}	7.91	$7.9^{+2.0}_{-2.0}$	$H(0.61)$	95.28	$95.26^{+0.58}_{-0.60}$
α_{-1}	-0.0001	$-0.0009^{+0.0045}_{-0.0059}$	$10^9 A_s$	2.106	$2.107^{+0.094}_{-0.086}$	$D_M(0.61)$	2306.4	2307^{+28}_{-28}
$\ln(10^{10} A_s)$	3.0472	$3.048^{+0.044}_{-0.041}$	$10^9 A_s e^{-2\tau}$	1.8806	$1.881^{+0.030}_{-0.030}$	$H(2.33)$	235.89	$235.9^{+1.9}_{-1.8}$
n_s	0.9654	$0.964^{+0.015}_{-0.013}$	D_{40}	1221	1216^{+60}_{-47}	$D_M(2.33)$	5765.4	5766^{+31}_{-30}
y_{cal}	1.0007	$1.0007^{+0.0067}_{-0.0067}$	D_{220}	5728	5728^{+110}_{-100}	$f\sigma_8(0.15)$	0.4558	$0.456^{+0.016}_{-0.015}$
A_{217}^{CIB}	50.3	48^{+20}_{-20}	D_{810}	2538.5	2538^{+37}_{-36}	$\sigma_8(0.15)$	0.7478	$0.747^{+0.014}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.099	—	D_{1420}	816.4	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4743	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.31	$230.0^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	0.6629	$0.662^{+0.012}_{-0.013}$
A_{100}^{PS}	257	264^{+70}_{-70}	$n_{s,0.002}$	0.9654	$0.964^{+0.015}_{-0.013}$	$f\sigma_8(0.51)$	0.4729	$0.473^{+0.011}_{-0.012}$
A_{143}^{PS}	45.7	48^{+20}_{-20}	Y_{P}	0.245360	$0.24536^{+0.00023}_{-0.00028}$	$\sigma_8(0.51)$	0.6204	$0.619^{+0.011}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	41	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246686	$0.24668^{+0.00023}_{-0.00028}$	$f\sigma_8(0.61)$	0.4680	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	116.4	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.602	$2.60^{+0.12}_{-0.11}$	$\sigma_8(0.61)$	0.5903	$0.589^{+0.011}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.803	$13.804^{+0.071}_{-0.070}$	$f\sigma_8(2.33)$	0.2977	$0.2972^{+0.0057}_{-0.0059}$
A_{100}^{dustTT}	8.89	$8.9^{+4.6}_{-4.7}$	z_*	1089.95	$1089.96^{+0.85}_{-0.79}$	$\sigma_8(2.33)$	0.3069	$0.3064^{+0.0062}_{-0.0062}$
A_{143}^{dustTT}	10.75	$10.7^{+4.8}_{-4.3}$	r_*	144.73	$144.70^{+0.79}_{-0.79}$	f_{2000}^{143}	30.4	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	18.9	$18.3^{+8.6}_{-9.1}$	$100\theta_*$	1.04112	$1.0410^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A_{217}^{dustTT}	93.9	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.901	$13.899^{+0.074}_{-0.076}$	f_{2000}^{217}	107.70	$108.0^{+5.0}_{-4.8}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.67	$1059.7^{+1.4}_{-1.4}$	χ^2_{lensing}	8.78	$9.25 (\nu: 0.3)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	147.43	$147.39^{+0.90}_{-0.91}$	χ^2_{small}	396.43	$397.3 (\nu: 1.7)$
H_0	67.59	$67.5^{+1.3}_{-1.3}$	k_{D}	0.14045	$0.1405^{+0.0012}_{-0.0012}$	χ^2_{lowl}	22.3	$22 (\nu: 3.2)$
Ω_Λ	0.6891	$0.688^{+0.017}_{-0.018}$	$100\theta_{\text{D}}$	0.16091	$0.16089^{+0.00088}_{-0.00081}$	χ^2_{plik}	759.8	$773.6 (\nu: 16.1)$
Ω_{m}	0.3109	$0.312^{+0.018}_{-0.017}$	z_{eq}	3379	3381^{+69}_{-66}	$\chi^2_{6\text{DF}}$	0.029	$0.068 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14204	$0.1421^{+0.0029}_{-0.0028}$	k_{eq}	0.010313	$0.01032^{+0.00021}_{-0.00020}$	χ^2_{MGS}	1.22	$1.23 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	0.09601	$0.0960^{+0.0012}_{-0.0012}$	$100\theta_{\text{eq}}$	0.8172	$0.817^{+0.012}_{-0.012}$	χ^2_{DR12BAO}	4.40	$5.1 (\nu: 1.5)$
σ_8	0.8092	$0.808^{+0.016}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4515	$0.4513^{+0.0063}_{-0.0064}$	χ^2_{prior}	1.6	$7.2 (\nu: 6.8)$
S_8	0.8237	$0.824^{+0.031}_{-0.029}$	$H(0.15)$	72.86	$72.8^{+1.1}_{-1.1}$	χ^2_{CMB}	1187.3	$1202.5 (\nu: 16.1)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4512	$0.451^{+0.017}_{-0.016}$	$D_M(0.15)$	641.4	642^{+11}_{-11}	χ^2_{BAO}	5.64	$6.4 (\nu: 1.0)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6042	$0.604^{+0.016}_{-0.016}$	$H(0.38)$	82.96	$82.93^{+0.84}_{-0.82}$			

Best-fit $\chi^2_{\text{eff}} = 1194.56$; $\bar{\chi}^2_{\text{eff}} = 1216.09$; $R - 1 = 0.02745$

χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.40 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.78 small_100x143_offlike5_EE_Aplanck_B: 396.43 commander_dx12.v3.2.29: 22.31 plik_rd12_HM.v22_TT: 759.82

5.5 base_alpha1_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02220^{+0.00058}_{-0.00057}$	$\sigma_8 \Omega_m^{0.5}$	$0.464^{+0.036}_{-0.034}$	$100\theta_{s,eq}$	$0.446^{+0.013}_{-0.012}$
$\Omega_c h^2$	$0.1214^{+0.0058}_{-0.0056}$	$\sigma_8 \Omega_m^{0.25}$	$0.614^{+0.031}_{-0.030}$	$H(0.15)$	$72.0^{+2.1}_{-2.0}$
$100\theta_{MC}$	$1.0405^{+0.0015}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.997^{+0.041}_{-0.041}$	$D_M(0.15)$	650^{+21}_{-21}
τ	$0.055^{+0.020}_{-0.014}$	$r_{drag}h$	$97.9^{+4.5}_{-4.3}$	$H(0.38)$	$82.4^{+1.5}_{-1.4}$
α_{-1}	$-0.0015^{+0.0042}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.47^{+0.10}_{-0.099}$	$D_M(0.38)$	1547^{+42}_{-43}
$\ln(10^{10} A_s)$	$3.050^{+0.046}_{-0.035}$	z_{re}	< 9.65	$H(0.51)$	$89.2^{+1.2}_{-1.1}$
n_s	$0.958^{+0.021}_{-0.018}$	$10^9 A_s$	$2.11^{+0.10}_{-0.073}$	$D_M(0.51)$	2002^{+49}_{-50}
y_{cal}	$1.0005^{+0.0066}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	$1.892^{+0.040}_{-0.039}$	$H(0.61)$	$94.95^{+0.96}_{-0.85}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1217^{+61}_{-47}	$D_M(0.61)$	2328^{+52}_{-54}
$\xi^{tSZ \times CIB}$	—	D_{220}	5719^{+110}_{-100}	$H(2.33)$	$237.3^{+3.5}_{-3.5}$
A_{143}^{tSZ}	—	D_{810}	2539^{+38}_{-37}	$D_M(2.33)$	5779^{+40}_{-43}
A_{100}^{PS}	264^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.15)$	$0.467^{+0.032}_{-0.032}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.4^{+4.6}_{-4.6}$	$\sigma_8(0.15)$	$0.750^{+0.019}_{-0.018}$
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	$n_{s,0.002}$	$0.958^{+0.021}_{-0.018}$	$f\sigma_8(0.38)$	$0.483^{+0.025}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	Y_P	$0.24532^{+0.00023}_{-0.00027}$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.013}$
A^{kSZ}	—	Y_P^{BBN}	$0.24665^{+0.00023}_{-0.00027}$	$f\sigma_8(0.51)$	$0.479^{+0.021}_{-0.021}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.8}$	$10^5 D/H$	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.012}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.6}$	Age/Gyr	$13.833^{+0.092}_{-0.096}$	$f\sigma_8(0.61)$	$0.473^{+0.018}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	$18.3^{+8.5}_{-8.5}$	z_*	$1090.3^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$144.2^{+1.4}_{-1.3}$	$f\sigma_8(2.33)$	$0.2969^{+0.0066}_{-0.0053}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0407^{+0.0015}_{-0.0013}$	$\sigma_8(2.33)$	$0.3055^{+0.0071}_{-0.0057}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.86^{+0.12}_{-0.12}$	f_{2000}^{143}	31^{+8}_{-8}
H_0	$66.6^{+2.5}_{-2.4}$	z_{drag}	$1059.6^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
Ω_Λ	$0.675^{+0.034}_{-0.037}$	r_{drag}	$146.9^{+1.4}_{-1.4}$	f_{2000}^{217}	$108.2^{+4.9}_{-4.9}$
Ω_m	$0.325^{+0.037}_{-0.034}$	k_D	$0.1409^{+0.0015}_{-0.0016}$	χ_{simall}^2	$397.0 (\nu: 1.5)$
$\Omega_m h^2$	$0.1442^{+0.0056}_{-0.0055}$	$100\theta_D$	$0.16089^{+0.00083}_{-0.00074}$	χ_{lowl}^2	$22.1 (\nu: 2.2)$
$\Omega_m h^3$	$0.0960^{+0.0012}_{-0.0012}$	z_{eq}	3431^{+130}_{-130}	χ_{plik}^2	$773.9 (\nu: 16.9)$
σ_8	$0.813^{+0.022}_{-0.022}$	k_{eq}	$0.01047^{+0.00041}_{-0.00040}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
S_8	$0.847^{+0.065}_{-0.063}$	$100\theta_{eq}$	$0.808^{+0.025}_{-0.024}$	χ_{CMB}^2	$1193.0 (\nu: 16.1)$

$$\bar{\chi}_{eff}^2 = 1200.29; R - 1 = 0.00693$$

5.6 base_alpha1_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02229^{+0.00057}_{-0.00060}$	$\sigma_8/h^{0.5}$	$0.982^{+0.030}_{-0.027}$	$D_M(0.38)$	1530^{+24}_{-24}
$\Omega_c h^2$	$0.1191^{+0.0032}_{-0.0031}$	$r_{\text{drag}} h$	$99.7^{+2.5}_{-2.5}$	$H(0.51)$	$89.67^{+0.75}_{-0.72}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.072}_{-0.065}$	$D_M(0.51)$	1982^{+28}_{-28}
τ	$0.056^{+0.020}_{-0.015}$	z_{re}	< 9.68	$H(0.61)$	$95.28^{+0.62}_{-0.61}$
α_{-1}	$-0.0009^{+0.0045}_{-0.0059}$	$10^9 A_s$	$2.104^{+0.099}_{-0.073}$	$D_M(0.61)$	2306^{+30}_{-31}
$\ln(10^{10} A_s)$	$3.046^{+0.046}_{-0.035}$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.032}_{-0.032}$	$H(2.33)$	$235.9^{+2.1}_{-2.0}$
n_s	$0.964^{+0.015}_{-0.013}$	D_{40}	1214^{+61}_{-48}	$D_M(2.33)$	5766^{+31}_{-31}
y_{cal}	$1.0006^{+0.0065}_{-0.0066}$	D_{220}	5725^{+110}_{-110}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.019}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+37}_{-36}	$\sigma_8(0.15)$	$0.746^{+0.017}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+4.5}_{-4.5}$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.013}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{s,0.002}$	$0.964^{+0.015}_{-0.013}$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24536^{+0.00022}_{-0.00028}$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24668^{+0.00022}_{-0.00028}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013}$
A_{217}^{PS}	114^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.60^{+0.12}_{-0.10}$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.012}$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.071}_{-0.070}$	$f\sigma_8(2.33)$	$0.2970^{+0.0066}_{-0.0057}$
A_{100}^{dustTT}	$9.0^{+4.6}_{-4.7}$	z_*	$1089.94^{+0.86}_{-0.80}$	$\sigma_8(2.33)$	$0.3063^{+0.0068}_{-0.0059}$
A_{143}^{dustTT}	$10.8^{+4.8}_{-4.6}$	r_*	$144.74^{+0.88}_{-0.88}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.5}_{-9.0}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.903^{+0.081}_{-0.083}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.8}$
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	$1059.7^{+1.3}_{-1.3}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	$147.4^{+1.0}_{-0.97}$	χ_{lowl}^2	$22 (\nu: 3.1)$
H_0	$67.6^{+1.4}_{-1.4}$	k_{D}	$0.1404^{+0.0013}_{-0.0014}$	χ_{plik}^2	$774.0 (\nu: 16.7)$
Ω_{Λ}	$0.689^{+0.018}_{-0.020}$	$100\theta_{\text{D}}$	$0.16090^{+0.00089}_{-0.00079}$	$\chi_{6\text{DF}}^2$	$0.066 (\nu: 0.0)$
Ω_{m}	$0.311^{+0.020}_{-0.018}$	z_{eq}	3378^{+77}_{-73}	χ_{MGS}^2	$1.30 (\nu: 0.1)$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0032}_{-0.0031}$	k_{eq}	$0.01031^{+0.00023}_{-0.00022}$	χ_{DR12BAO}^2	$5.0 (\nu: 1.7)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0012}_{-0.0012}$	$100\theta_{\text{eq}}$	$0.817^{+0.014}_{-0.014}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.807^{+0.020}_{-0.018}$	$100\theta_{\text{s,eq}}$	$0.4516^{+0.0072}_{-0.0072}$	χ_{BAO}^2	$6.4 (\nu: 1.2)$
S_8	$0.822^{+0.039}_{-0.036}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{CMB}^2	$1193.4 (\nu: 15.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.021}_{-0.020}$	$D_M(0.15)$	641^{+12}_{-12}		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.021}_{-0.019}$	$H(0.38)$	$82.97^{+0.92}_{-0.88}$		

$$\bar{\chi}_{\text{eff}}^2 = 1207.05; R - 1 = 0.02346$$

5.7 base_alpha1_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02224^{+0.00056}_{-0.00058}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.609^{+0.020}_{-0.020}$	$D_{\text{M}}(0.15)$	647^{+16}_{-16}
$\Omega_{\text{c}}h^2$	$0.1205^{+0.0041}_{-0.0040}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	$82.6^{+1.2}_{-1.1}$
$100\theta_{\text{MC}}$	$1.0406^{+0.0014}_{-0.0013}$	$r_{\text{drag}}h$	$98.5^{+3.3}_{-3.1}$	$D_{\text{M}}(0.38)$	1541^{+31}_{-32}
τ	$0.055^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.453^{+0.064}_{-0.065}$	$H(0.51)$	$89.37^{+0.94}_{-0.88}$
α_{-1}	$-0.0014^{+0.0039}_{-0.0060}$	z_{re}	< 9.49	$D_{\text{M}}(0.51)$	1995^{+36}_{-38}
$\ln(10^{10}A_{\text{s}})$	$3.047^{+0.041}_{-0.030}$	$10^9 A_{\text{s}}$	$2.106^{+0.088}_{-0.063}$	$H(0.61)$	$95.06^{+0.77}_{-0.72}$
n_{s}	$0.959^{+0.018}_{-0.015}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.887^{+0.032}_{-0.033}$	$D_{\text{M}}(0.61)$	2320^{+39}_{-41}
y_{cal}	$1.0004^{+0.0065}_{-0.0065}$	D_{40}	1215^{+60}_{-45}	$H(2.33)$	$236.8^{+2.5}_{-2.6}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5721^{+110}_{-100}	$D_{\text{M}}(2.33)$	5775^{+35}_{-37}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2538^{+36}_{-35}	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
A_{143}^{tSZ}	—	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.013}$
A_{100}^{PS}	265^{+70}_{-70}	D_{2000}	$229.5^{+4.7}_{-4.7}$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\text{s},0.002}$	$0.959^{+0.018}_{-0.015}$	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24534^{+0.00022}_{-0.00027}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00022}_{-0.00027}$	$\sigma_8(0.51)$	$0.619^{+0.011}_{-0.010}$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.61^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.6}_{-4.7}$	Age/Gyr	$13.823^{+0.080}_{-0.083}$	$\sigma_8(0.61)$	$0.589^{+0.011}_{-0.0096}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.6}$	z_*	$1090.14^{+0.87}_{-0.91}$	$f\sigma_8(2.33)$	$0.2966^{+0.0058}_{-0.0050}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.5}_{-8.6}$	r_*	$144.4^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	$0.3054^{+0.0065}_{-0.0055}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0408^{+0.0014}_{-0.0013}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.874^{+0.095}_{-0.093}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
c_{217}	$0.9983^{+0.0016}_{-0.0015}$	z_{drag}	$1059.7^{+1.3}_{-1.3}$	f_{2000}^{217}	$108.2^{+5.0}_{-4.9}$
H_0	$66.9^{+1.9}_{-1.8}$	r_{drag}	$147.1^{+1.1}_{-1.1}$	χ_{lensing}^2	$9.50 (\nu: 0.5)$
Ω_{Λ}	$0.680^{+0.025}_{-0.026}$	k_{D}	$0.1408^{+0.0013}_{-0.0014}$	χ_{simall}^2	$396.9 (\nu: 1.1)$
Ω_{m}	$0.320^{+0.026}_{-0.025}$	$100\theta_{\text{D}}$	$0.16088^{+0.00085}_{-0.00074}$	χ_{lowl}^2	$22.0 (\nu: 2.4)$
$\Omega_{\text{m}}h^2$	$0.1434^{+0.0039}_{-0.0040}$	z_{eq}	3412^{+93}_{-95}	χ_{plik}^2	$773.6 (\nu: 16.0)$
$\Omega_{\text{m}}h^3$	$0.0960^{+0.0012}_{-0.0012}$	k_{eq}	$0.01041^{+0.00028}_{-0.00029}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.810^{+0.016}_{-0.015}$	$100\theta_{\text{eq}}$	$0.811^{+0.018}_{-0.017}$	χ_{CMB}^2	$1202.0 (\nu: 15.9)$
S_8	$0.837^{+0.043}_{-0.041}$	$100\theta_{\text{s,eq}}$	$0.4483^{+0.0092}_{-0.0088}$		
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.458^{+0.023}_{-0.023}$	$H(0.15)$	$72.3^{+1.6}_{-1.5}$		
$\bar{\chi}_{\text{eff}}^2 = 1209.29; R - 1 = 0.01342$					

5.8 base_alpha1_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02229^{+0.00059}_{-0.00059}$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022}$	$D_M(0.38)$	1531^{+22}_{-22}
$\Omega_c h^2$	$0.1192^{+0.0029}_{-0.0027}$	$r_{\text{drag}} h$	$99.6^{+2.2}_{-2.2}$	$H(0.51)$	$89.65^{+0.68}_{-0.69}$
$100\theta_{\text{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.054}_{-0.053}$	$D_M(0.51)$	1983^{+26}_{-26}
τ	$0.057^{+0.019}_{-0.015}$	z_{re}	< 9.65	$H(0.61)$	$95.27^{+0.58}_{-0.59}$
α_{-1}	$-0.0009^{+0.0044}_{-0.0059}$	$10^9 A_s$	$2.110^{+0.092}_{-0.070}$	$D_M(0.61)$	2307^{+28}_{-28}
$\ln(10^{10} A_s)$	$3.049^{+0.043}_{-0.034}$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.030}_{-0.030}$	$H(2.33)$	$235.9^{+1.9}_{-1.8}$
n_s	$0.964^{+0.015}_{-0.013}$	D_{40}	1216^{+60}_{-46}	$D_M(2.33)$	5766^{+30}_{-29}
y_{cal}	$1.0007^{+0.0065}_{-0.0067}$	D_{220}	5728^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+37}_{-36}	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.013}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	—	D_{2000}	$230.0^{+4.5}_{-4.5}$	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.011}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{s,0.002}$	$0.964^{+0.015}_{-0.013}$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24536^{+0.00023}_{-0.00027}$	$\sigma_8(0.51)$	$0.620^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24669^{+0.00023}_{-0.00028}$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.60^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.010}$
A^{kSZ}	—	Age/Gyr	$13.804^{+0.070}_{-0.069}$	$f\sigma_8(2.33)$	$0.2973^{+0.0055}_{-0.0053}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	z_*	$1089.95^{+0.84}_{-0.78}$	$\sigma_8(2.33)$	$0.3066^{+0.0061}_{-0.0057}$
A_{143}^{dustTT}	$10.7^{+4.8}_{-4.3}$	r_*	$144.70^{+0.79}_{-0.79}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.6}_{-9.1}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.900^{+0.074}_{-0.076}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.7}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.7^{+1.3}_{-1.4}$	χ_{lensing}^2	$9.21 (\nu: 0.2)$
c_{217}	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	$147.39^{+0.90}_{-0.91}$	χ_{simall}^2	$397.3 (\nu: 1.7)$
H_0	$67.6^{+1.3}_{-1.3}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$22 (\nu: 3.1)$
Ω_{Λ}	$0.689^{+0.016}_{-0.018}$	$100\theta_{\text{D}}$	$0.16088^{+0.00087}_{-0.00080}$	χ_{plik}^2	$773.6 (\nu: 16.0)$
Ω_{m}	$0.311^{+0.018}_{-0.016}$	z_{eq}	3381^{+68}_{-66}	$\chi_{6\text{DF}}^2$	$0.066 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1421^{+0.0029}_{-0.0028}$	k_{eq}	$0.01032^{+0.00021}_{-0.00020}$	χ_{MGS}^2	$1.24 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0012}_{-0.0012}$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.012}$	χ_{DR12BAO}^2	$5.0 (\nu: 1.4)$
σ_8	$0.809^{+0.016}_{-0.015}$	$100\theta_{\text{s,eq}}$	$0.4513^{+0.0063}_{-0.0064}$	χ_{prior}^2	$7.2 (\nu: 6.7)$
S_8	$0.824^{+0.031}_{-0.030}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$	χ_{CMB}^2	$1202.4 (\nu: 15.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.017}_{-0.016}$	$D_M(0.15)$	642^{+11}_{-11}	χ_{BAO}^2	$6.3 (\nu: 1.0)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.016}$	$H(0.38)$	$82.94^{+0.83}_{-0.82}$		

$\bar{\chi}_{\text{eff}}^2 = 1215.96; R - 1 = 0.02803$

5.9 base_alpha1_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022381	$0.02236^{+0.00038}_{-0.00040}$	$\Omega_m h^2$	0.14328	$0.1435^{+0.0043}_{-0.0044}$	k_{eq}	0.010403	$0.01042^{+0.00032}_{-0.00032}$
$\Omega_c h^2$	0.12025	$0.1205^{+0.0046}_{-0.0046}$	$\Omega_m h^3$	0.09637	$0.09634^{+0.00075}_{-0.00076}$	$100\theta_{\text{eq}}$	0.8122	$0.811^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	1.04086	$1.0408^{+0.0012}_{-0.0011}$	σ_8	0.8123	$0.813^{+0.020}_{-0.021}$	$100\theta_{\text{s,eq}}$	0.4488	$0.448^{+0.010}_{-0.0099}$
τ	0.0543	$0.055^{+0.022}_{-0.020}$	S_8	0.835	$0.837^{+0.051}_{-0.050}$	$H(0.15)$	72.60	$72.5^{+1.8}_{-1.7}$
α_{-1}	-0.00001	$-0.0001^{+0.0018}_{-0.0017}$	$\sigma_8 \Omega_m^{0.5}$	0.4572	$0.459^{+0.028}_{-0.028}$	$D_{\text{M}}(0.15)$	644.2	645^{+17}_{-17}
$\ln(10^{10} A_s)$	3.0459	$3.046^{+0.044}_{-0.043}$	$\sigma_8 \Omega_m^{0.25}$	0.6094	$0.610^{+0.024}_{-0.025}$	$H(0.38)$	82.81	$82.7^{+1.3}_{-1.2}$
n_s	0.9649	$0.964^{+0.017}_{-0.016}$	$\sigma_8/h^{0.5}$	0.9905	$0.992^{+0.033}_{-0.034}$	$D_{\text{M}}(0.38)$	1535.1	1537^{+34}_{-35}
y_{cal}	1.0008	$1.0006^{+0.0065}_{-0.0062}$	$r_{\text{drag}} h$	98.88	$98.7^{+3.7}_{-3.5}$	$H(0.51)$	89.59	$89.54^{+0.99}_{-0.90}$
A_{217}^{CIB}	46.8	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.449	$2.454^{+0.086}_{-0.085}$	$D_{\text{M}}(0.51)$	1987.8	1990^{+40}_{-40}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.51	—	z_{re}	7.68	$7.7^{+2.1}_{-2.1}$	$H(0.61)$	95.25	$95.21^{+0.78}_{-0.70}$
A_{143}^{tSZ}	7.20	$5.4^{+4.3}_{-4.9}$	$10^9 A_s$	2.103	$2.104^{+0.094}_{-0.088}$	$D_{\text{M}}(0.61)$	2312.4	2315^{+43}_{-44}
A_{100}^{PS}	250	259^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8866	$1.886^{+0.036}_{-0.036}$	$H(2.33)$	236.73	$236.9^{+2.7}_{-2.8}$
A_{143}^{PS}	49.1	46^{+20}_{-20}	D_{40}	1230.5	1231^{+38}_{-35}	$D_{\text{M}}(2.33)$	5764.4	5766^{+32}_{-34}
$A_{143 \times 217}^{\text{PS}}$	50.0	42^{+20}_{-20}	D_{220}	5737	5733^{+96}_{-98}	$f\sigma_8(0.15)$	0.4613	$0.463^{+0.026}_{-0.026}$
A_{217}^{PS}	120.7	115^{+30}_{-30}	D_{810}	2542.8	2540^{+34}_{-34}	$\sigma_8(0.15)$	0.7501	$0.750^{+0.018}_{-0.018}$
A^{kSZ}	0.0	—	D_{1420}	818.5	817^{+12}_{-13}	$f\sigma_8(0.38)$	0.4785	$0.479^{+0.020}_{-0.020}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.8}$	D_{2000}	231.29	$230.8^{+4.1}_{-4.3}$	$\sigma_8(0.38)$	0.6644	$0.664^{+0.015}_{-0.015}$
A_{143}^{dustTT}	11.01	$10.9^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	0.9649	$0.964^{+0.017}_{-0.016}$	$f\sigma_8(0.51)$	0.4765	$0.477^{+0.017}_{-0.018}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+8.5}_{-8.5}$	Y_{P}	0.245400	$0.24539^{+0.00014}_{-0.00017}$	$\sigma_8(0.51)$	0.6215	$0.621^{+0.013}_{-0.014}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246726	$0.24672^{+0.00014}_{-0.00017}$	$f\sigma_8(0.61)$	0.4711	$0.472^{+0.015}_{-0.016}$
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.096}$	10^5D/H	2.583	$2.588^{+0.075}_{-0.068}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.013}_{-0.013}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.135^{+0.076}_{-0.076}$	Age/Gyr	13.799	$13.803^{+0.071}_{-0.073}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0065}_{-0.0066}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.21}$	z_*	1089.93	$1089.98^{+0.78}_{-0.74}$	$\sigma_8(2.33)$	0.3069	$0.3067^{+0.0070}_{-0.0071}$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	r_*	144.36	$144.3^{+1.1}_{-1.0}$	f_{2000}^{143}	28.9	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.21}_{-0.20}$	$100\theta_*$	1.04105	$1.0410^{+0.0012}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32.11	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.09^{+0.70}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.867	$13.863^{+0.096}_{-0.093}$	f_{2000}^{217}	106.71	$107.1^{+4.7}_{-4.5}$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.97	$1059.95^{+0.79}_{-0.81}$	χ_{small}^2	396.06	397.1 (ν : 1.8)
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.01	$147.0^{+1.1}_{-1.0}$	χ_{lowl}^2	23.22	23.4 (ν : 1.3)
H_0	67.26	$67.1^{+2.1}_{-2.0}$	k_{D}	0.14096	$0.1410^{+0.0011}_{-0.0012}$	χ_{plik}^2	2344.8	2361.5 (ν : 18.7)
Ω_{Λ}	0.6833	$0.682^{+0.028}_{-0.029}$	$100\theta_{\text{D}}$	0.16073	$0.16074^{+0.00052}_{-0.00051}$	χ_{prior}^2	1.7	11.5 (ν : 10.3)
Ω_{m}	0.3167	$0.318^{+0.029}_{-0.028}$	z_{eq}	3408	3414^{+100}_{-110}	χ_{CMB}^2	2764.1	2782.1 (ν : 18.2)

Best-fit $\chi_{\text{eff}}^2 = 2765.78$; $\bar{\chi}_{\text{eff}}^2 = 2793.61$; $R - 1 = 0.01294$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2_29: 23.22 plik_rd12_HM_v22b_TTTEEE: 2344.78

5.10 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022431	$0.02240^{+0.00035}_{-0.00037}$	σ_8	0.8109	$0.810^{+0.020}_{-0.019}$	$D_M(0.15)$	640.0	640^{+11}_{-11}
$\Omega_c h^2$	0.11917	$0.1191^{+0.0030}_{-0.0029}$	S_8	0.8242	$0.823^{+0.036}_{-0.034}$	$H(0.38)$	83.11	$83.10^{+0.82}_{-0.78}$
$100\theta_{MC}$	1.04107	$1.04109^{+0.00093}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	0.4515	$0.451^{+0.020}_{-0.019}$	$D_M(0.38)$	1526.8	1527^{+22}_{-22}
τ	0.0561	$0.055^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6051	$0.604^{+0.019}_{-0.019}$	$H(0.51)$	89.81	$89.81^{+0.65}_{-0.62}$
α_{-1}	0.00002	$0.0002^{+0.0016}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.9852	$0.984^{+0.028}_{-0.027}$	$D_M(0.51)$	1978.1	1978^{+26}_{-26}
$\ln(10^{10} A_s)$	3.0466	$3.044^{+0.044}_{-0.044}$	$r_{drag} h$	99.75	$99.8^{+2.3}_{-2.3}$	$H(0.61)$	95.42	$95.41^{+0.54}_{-0.50}$
n_s	0.9693	$0.968^{+0.013}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.433^{+0.068}_{-0.064}$	$D_M(0.61)$	2302.0	2302^{+28}_{-28}
y_{cal}	1.0008	$1.0007^{+0.0063}_{-0.0061}$	z_{re}	7.83	$7.8^{+2.1}_{-2.1}$	$H(2.33)$	236.09	$236.0^{+1.9}_{-1.8}$
A_{217}^{CIB}	45.1	47^{+20}_{-20}	$10^9 A_s$	2.104	$2.100^{+0.093}_{-0.090}$	$D_M(2.33)$	5757.2	5758^{+24}_{-24}
$\xi^{tSZ \times CIB}$	0.76	—	$10^9 A_s e^{-2\tau}$	1.8811	$1.879^{+0.030}_{-0.029}$	$f\sigma_8(0.15)$	0.4562	$0.455^{+0.018}_{-0.018}$
A_{143}^{tSZ}	7.05	> 0.847	D_{40}	1227.3	1230^{+40}_{-34}	$\sigma_8(0.15)$	0.7495	$0.748^{+0.017}_{-0.017}$
A_{100}^{PS}	246	258^{+70}_{-70}	D_{220}	5735	5734^{+98}_{-97}	$f\sigma_8(0.38)$	0.4749	$0.474^{+0.016}_{-0.015}$
A_{143}^{PS}	51.3	45^{+20}_{-20}	D_{810}	2542.5	2539^{+34}_{-33}	$\sigma_8(0.38)$	0.6645	$0.664^{+0.015}_{-0.014}$
$A_{143 \times 217}^{PS}$	55.4	42^{+20}_{-20}	D_{1420}	819.9	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4737	$0.473^{+0.014}_{-0.014}$
A_{217}^{PS}	122.9	115^{+30}_{-30}	D_{2000}	231.90	$231.2^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	0.6220	$0.621^{+0.014}_{-0.013}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9693	$0.968^{+0.013}_{-0.013}$	$f\sigma_8(0.61)$	0.4688	$0.468^{+0.013}_{-0.013}$
A_{100}^{dustTT}	8.87	$9.0^{+4.7}_{-4.6}$	Y_P	0.245419	$0.24541^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.5919	$0.591^{+0.013}_{-0.012}$
A_{143}^{dustTT}	11.03	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	0.246746	$0.24673^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	0.2985	$0.2980^{+0.0064}_{-0.0064}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.7^{+8.6}_{-8.5}$	$10^5 D/H$	2.574	$2.580^{+0.071}_{-0.063}$	$\sigma_8(2.33)$	0.3078	$0.3074^{+0.0068}_{-0.0065}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	Age/Gyr	13.783	$13.785^{+0.053}_{-0.054}$	f_{2000}^{143}	28.1	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.115^{+0.094}_{-0.10}$	z_*	1089.77	$1089.80^{+0.59}_{-0.56}$	$f_{2000}^{143 \times 217}$	31.63	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.136^{+0.075}_{-0.076}$	r_*	144.60	$144.64^{+0.72}_{-0.75}$	f_{2000}^{217}	106.17	$106.9^{+4.7}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.21}_{-0.21}$	$100\theta_*$	1.04125	$1.04127^{+0.00093}_{-0.0010}$	χ_{small}^2	396.4	$397.2 (\nu: 2.1)$
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.890^{+0.067}_{-0.067}$	χ_{lowl}^2	23.20	$23.8 (\nu: 1.4)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.20}_{-0.19}$	z_{drag}	1060.01	$1059.95^{+0.82}_{-0.82}$	χ_{plik}^2	2345.2	$2360.9 (\nu: 17.8)$
A_{217}^{dustTE}	2.08	$2.08^{+0.66}_{-0.72}$	r_{drag}	147.24	$147.29^{+0.77}_{-0.79}$	χ_{6DF}^2	0.023	$0.056 (\nu: 0.0)$
c_{100}	0.99974	$0.9996^{+0.0016}_{-0.0016}$	k_D	0.14075	$0.14068^{+0.00096}_{-0.00093}$	χ_{MGS}^2	1.28	$1.36 (\nu: 0.1)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16072	$0.16077^{+0.00053}_{-0.00051}$	$\chi_{DR12BAO}^2$	4.25	$4.8 (\nu: 1.3)$
H_0	67.75	$67.8^{+1.3}_{-1.3}$	z_{eq}	3384	3382^{+70}_{-68}	χ_{prior}^2	1.6	$11.7 (\nu: 9.8)$
Ω_Λ	0.6901	$0.690^{+0.017}_{-0.018}$	k_{eq}	0.010328	$0.01032^{+0.00021}_{-0.00021}$	χ_{BAO}^2	5.55	$6.2 (\nu: 0.8)$
Ω_m	0.3099	$0.310^{+0.018}_{-0.017}$	$100\theta_{eq}$	0.8169	$0.817^{+0.013}_{-0.013}$	χ_{CMB}^2	2764.7	$2781.9 (\nu: 17.5)$
$\Omega_m h^2$	0.14224	$0.1422^{+0.0029}_{-0.0028}$	$100\theta_{s,eq}$	0.4512	$0.4514^{+0.0067}_{-0.0066}$			
$\Omega_m h^3$	0.09637	$0.09631^{+0.00077}_{-0.00078}$	$H(0.15)$	73.01	$73.0^{+1.1}_{-1.1}$			

Best-fit $\chi_{eff}^2 = 2771.88$; $\bar{\chi}_{eff}^2 = 2799.77$; $R - 1 = 0.02417$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.25 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.37 commander_dx12_v3_2_29: 23.20 plik_rd12_HM_v22b_TTTEEE: 2345.16

5.11 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022410	$0.02238^{+0.00037}_{-0.00038}$	$\Omega_m h^3$	0.09641	$0.09633^{+0.00075}_{-0.00075}$	$100\theta_{s,eq}$	0.4491	$0.4491^{+0.0089}_{-0.0083}$
$\Omega_c h^2$	0.12008	$0.1201^{+0.0038}_{-0.0039}$	σ_8	0.8115	$0.811^{+0.015}_{-0.015}$	$H(0.15)$	72.68	$72.6^{+1.5}_{-1.4}$
$100\theta_{MC}$	1.04090	$1.0409^{+0.0011}_{-0.0010}$	S_8	0.8322	$0.833^{+0.038}_{-0.037}$	$D_M(0.15)$	643.4	644^{+15}_{-15}
τ	0.0543	$0.054^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4558	$0.456^{+0.021}_{-0.021}$	$H(0.38)$	82.87	$82.8^{+1.1}_{-1.0}$
α_{-1}	0.00000	$-0.0001^{+0.0016}_{-0.0016}$	$\sigma_8 \Omega_m^{0.25}$	0.6082	$0.608^{+0.017}_{-0.018}$	$D_M(0.38)$	1533.4	1534^{+29}_{-29}
$\ln(10^{10} A_s)$	3.0446	$3.045^{+0.038}_{-0.037}$	$\sigma_8/h^{0.5}$	0.9888	$0.989^{+0.024}_{-0.025}$	$H(0.51)$	89.64	$89.60^{+0.85}_{-0.78}$
n_s	0.9657	$0.964^{+0.016}_{-0.014}$	$r_{drag} h$	99.03	$99.0^{+3.1}_{-3.0}$	$D_M(0.51)$	1985.8	1987^{+34}_{-35}
y_{cal}	1.0002	$1.0006^{+0.0062}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.447^{+0.060}_{-0.061}$	$H(0.61)$	95.29	$95.26^{+0.67}_{-0.61}$
A_{217}^{CIB}	46.1	47^{+20}_{-20}	z_{re}	7.68	$7.7^{+2.0}_{-2.1}$	$D_M(0.61)$	2310.2	2312^{+37}_{-37}
$\xi^{tSZ \times CIB}$	0.60	—	$10^9 A_s$	2.100	$2.101^{+0.081}_{-0.076}$	$H(2.33)$	236.65	$236.6^{+2.3}_{-2.4}$
A_{143}^{tSZ}	7.1	—	$10^9 A_s e^{-2\tau}$	1.8840	$1.884^{+0.030}_{-0.031}$	$D_M(2.33)$	5762.3	5764^{+29}_{-30}
A_{100}^{PS}	248	259^{+70}_{-70}	D_{40}	1228.1	1230^{+39}_{-34}	$f\sigma_8(0.15)$	0.4601	$0.460^{+0.019}_{-0.019}$
A_{143}^{PS}	49.7	46^{+20}_{-20}	D_{220}	5732	5734^{+98}_{-98}	$\sigma_8(0.15)$	0.7495	$0.749^{+0.014}_{-0.014}$
$A_{143 \times 217}^{PS}$	51.7	42^{+20}_{-20}	D_{810}	2540.6	2540^{+33}_{-33}	$f\sigma_8(0.38)$	0.4776	$0.478^{+0.014}_{-0.015}$
A_{217}^{PS}	121.3	115^{+30}_{-30}	D_{1420}	818.2	817^{+12}_{-13}	$\sigma_8(0.38)$	0.6639	$0.664^{+0.013}_{-0.012}$
A^{kSZ}	0.0	—	D_{2000}	231.28	$230.8^{+4.1}_{-4.5}$	$f\sigma_8(0.51)$	0.4757	$0.476^{+0.012}_{-0.013}$
A_{100}^{dustTT}	8.79	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	0.9657	$0.964^{+0.016}_{-0.014}$	$\sigma_8(0.51)$	0.6211	$0.621^{+0.012}_{-0.012}$
A_{143}^{dustTT}	11.00	$10.9^{+4.8}_{-4.6}$	Y_P	0.245411	$0.24540^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	0.4704	$0.470^{+0.011}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.7^{+8.3}_{-8.6}$	Y_P^{BBN}	0.246738	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5909	$0.591^{+0.012}_{-0.012}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$10^5 D/H$	2.578	$2.585^{+0.073}_{-0.066}$	$f\sigma_8(2.33)$	0.2978	$0.2976^{+0.0063}_{-0.0062}$
A_{100}^{dustTE}	0.114	$0.116^{+0.094}_{-0.095}$	Age/Gyr	13.794	$13.799^{+0.066}_{-0.065}$	$\sigma_8(2.33)$	0.3068	$0.3066^{+0.0070}_{-0.0070}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.136^{+0.078}_{-0.075}$	z_*	1089.88	$1089.92^{+0.67}_{-0.66}$	f_{2000}^{143}	28.6	30^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.23}_{-0.22}$	r_*	144.38	$144.40^{+0.92}_{-0.89}$	$f_{2000}^{143 \times 217}$	31.86	32^{+5}_{-5}
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04109	$1.0411^{+0.0011}_{-0.0010}$	f_{2000}^{217}	106.36	$107.0^{+4.7}_{-4.5}$
$A_{143 \times 217}^{dustTE}$	0.667	$0.67^{+0.21}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	13.868	$13.870^{+0.083}_{-0.078}$	$\chi^2_{lensing}$	8.84	$9.35 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.67}_{-0.72}$	z_{drag}	1060.05	$1059.96^{+0.81}_{-0.83}$	χ^2_{small}	396.04	$397.0 (\nu: 1.6)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	147.03	$147.06^{+0.95}_{-0.92}$	χ^2_{lowl}	23.15	$23.4 (\nu: 1.4)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	k_D	0.14097	$0.1409^{+0.0010}_{-0.0011}$	χ^2_{plik}	2345.1	$2361.2 (\nu: 18.1)$
H_0	67.35	$67.3^{+1.7}_{-1.7}$	$100\theta_D$	0.16070	$0.16074^{+0.00053}_{-0.00050}$	χ^2_{prior}	1.6	$11.6 (\nu: 10.0)$
Ω_Λ	0.6845	$0.684^{+0.024}_{-0.025}$	z_{eq}	3405	3405^{+87}_{-89}	χ^2_{CMB}	2773.1	$2791.0 (\nu: 18.5)$
Ω_m	0.3155	$0.316^{+0.025}_{-0.024}$	k_{eq}	0.010393	$0.01039^{+0.00027}_{-0.00027}$			
$\Omega_m h^2$	0.14314	$0.1431^{+0.0036}_{-0.0037}$	$100\theta_{eq}$	0.8129	$0.813^{+0.017}_{-0.016}$			

Best-fit $\chi^2_{eff} = 2774.65$; $\bar{\chi}^2_{eff} = 2802.58$; $R - 1 = 0.01462$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.84 small_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3.2.29: 23.15 plik_rd12_HM_v22b_TTTEEE: 2345.06

5.12 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022420	$0.02241^{+0.00035}_{-0.00038}$	σ_8	0.8109	$0.810^{+0.015}_{-0.015}$	$D_M(0.15)$	640.5	$640^{+10}_{-9.9}$
$\Omega_c h^2$	0.11927	$0.1192^{+0.0027}_{-0.0026}$	S_8	0.8252	$0.824^{+0.029}_{-0.029}$	$H(0.38)$	83.07	$83.09^{+0.75}_{-0.73}$
$100\theta_{MC}$	1.04102	$1.04107^{+0.00094}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	0.4520	$0.451^{+0.016}_{-0.016}$	$D_M(0.38)$	1527.9	1527^{+20}_{-20}
τ	0.0560	$0.056^{+0.020}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6054	$0.605^{+0.015}_{-0.015}$	$H(0.51)$	89.78	$89.80^{+0.61}_{-0.58}$
α_{-1}	0.00001	$0.0001^{+0.0016}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.9857	$0.985^{+0.022}_{-0.022}$	$D_M(0.51)$	1979.3	1979^{+24}_{-24}
$\ln(10^{10} A_s)$	3.0467	$3.046^{+0.038}_{-0.036}$	$r_{drag} h$	99.66	$99.7^{+2.1}_{-2.1}$	$H(0.61)$	95.397	$95.41^{+0.50}_{-0.48}$
n_s	0.9684	$0.968^{+0.012}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	2.436	$2.436^{+0.054}_{-0.053}$	$D_M(0.61)$	2303.3	2303^{+25}_{-25}
y_{cal}	1.0009	$1.0008^{+0.0062}_{-0.0062}$	z_{re}	7.83	$7.8^{+1.9}_{-1.9}$	$H(2.33)$	236.14	$236.1^{+1.7}_{-1.7}$
A_{217}^{CIB}	46.4	47^{+20}_{-20}	$10^9 A_s$	2.104	$2.104^{+0.081}_{-0.074}$	$D_M(2.33)$	5758.5	5758^{+23}_{-23}
$\xi^{tSZ \times CIB}$	0.54	—	$10^9 A_s e^{-2\tau}$	1.8815	$1.880^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	0.4567	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	7.12	$5.5^{+4.4}_{-4.7}$	D_{40}	1228.3	1231^{+40}_{-34}	$\sigma_8(0.15)$	0.7494	$0.749^{+0.014}_{-0.014}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{220}	5736	5737^{+97}_{-95}	$f\sigma_8(0.38)$	0.4752	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	48.6	45^{+20}_{-20}	D_{810}	2542.0	2539^{+34}_{-32}	$\sigma_8(0.38)$	0.6644	$0.664^{+0.012}_{-0.012}$
$A_{143 \times 217}^{PS}$	49.9	42^{+20}_{-20}	D_{1420}	819.4	818^{+13}_{-12}	$f\sigma_8(0.51)$	0.4739	$0.473^{+0.011}_{-0.011}$
A_{217}^{PS}	120.7	115^{+30}_{-30}	D_{2000}	231.68	$231.2^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	0.6218	$0.622^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9684	$0.968^{+0.012}_{-0.013}$	$f\sigma_8(0.61)$	0.4690	$0.469^{+0.010}_{-0.010}$
A_{100}^{dustTT}	8.92	$8.9^{+4.7}_{-4.6}$	Y_P	0.245415	$0.24541^{+0.00013}_{-0.00016}$	$\sigma_8(0.61)$	0.5917	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.07	$10.9^{+4.8}_{-4.5}$	Y_P^{BBN}	0.246742	$0.24673^{+0.00013}_{-0.00016}$	$f\sigma_8(2.33)$	0.2984	$0.2983^{+0.0059}_{-0.0058}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.7^{+8.3}_{-8.4}$	$10^5 D/H$	2.576	$2.579^{+0.071}_{-0.062}$	$\sigma_8(2.33)$	0.3076	$0.3076^{+0.0064}_{-0.0062}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.786	$13.786^{+0.051}_{-0.053}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.115^{+0.094}_{-0.10}$	z_*	1089.79	$1089.80^{+0.57}_{-0.56}$	$f_{2000}^{143 \times 217}$	31.78	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.136^{+0.075}_{-0.076}$	r_*	144.58	$144.62^{+0.69}_{-0.68}$	f_{2000}^{217}	106.43	$106.9^{+4.7}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04120	$1.04125^{+0.00094}_{-0.0010}$	$\chi^2_{lensing}$	8.74	$9.14 (\nu: 0.2)$
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.889^{+0.065}_{-0.062}$	χ^2_{small}	396.38	$397.3 (\nu: 2.0)$
$A_{143 \times 217}^{dustTE}$	0.667	$0.67^{+0.20}_{-0.19}$	z_{drag}	1060.01	$1059.96^{+0.81}_{-0.83}$	χ^2_{lowl}	23.24	$23.8 (\nu: 1.5)$
A_{217}^{dustTE}	2.09	$2.08^{+0.67}_{-0.72}$	r_{drag}	147.23	$147.27^{+0.73}_{-0.73}$	χ^2_{plik}	2344.9	$2360.6 (\nu: 17.6)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14076	$0.14071^{+0.00091}_{-0.00092}$	χ^2_{6DF}	0.029	$0.053 (\nu: 0.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16073	$0.16076^{+0.00055}_{-0.00051}$	χ^2_{MGS}	1.22	$1.33 (\nu: 0.1)$
H_0	67.69	$67.7^{+1.2}_{-1.2}$	z_{eq}	3386	3383^{+63}_{-61}	$\chi^2_{DR12BAO}$	4.41	$4.7 (\nu: 1.1)$
Ω_Λ	0.6893	$0.690^{+0.016}_{-0.017}$	k_{eq}	0.010334	$0.01033^{+0.00019}_{-0.00019}$	χ^2_{prior}	1.7	$11.6 (\nu: 9.7)$
Ω_m	0.3107	$0.310^{+0.017}_{-0.016}$	$100\theta_{eq}$	0.8164	$0.817^{+0.012}_{-0.012}$	χ^2_{CMB}	2773.3	$2790.9 (\nu: 17.9)$
$\Omega_m h^2$	0.14233	$0.1422^{+0.0026}_{-0.0025}$	$100\theta_{s,eq}$	0.4510	$0.4513^{+0.0061}_{-0.0060}$	χ^2_{BAO}	5.66	$6.1 (\nu: 0.7)$
$\Omega_m h^3$	0.09634	$0.09632^{+0.00075}_{-0.00078}$	$H(0.15)$	72.96	$73.0^{+1.0}_{-1.0}$			

Best-fit $\chi^2_{eff} = 2780.63$; $\bar{\chi}^2_{eff} = 2808.59$; $R - 1 = 0.02748$

χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.41 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.74 small_100x143_offlike5_EE_Aplanck_B: 396.38 commander_dx12.v3.2.29: 23.24 plik_rd12_HM_v22b_TTTEEE: 2344.91

5.13 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022493	$0.02247^{+0.00034}_{-0.00037}$	$\Omega_m h^3$	0.09640	$0.09633^{+0.00075}_{-0.00078}$	$100\theta_{s,eq}$	0.4533	$0.4543^{+0.0089}_{-0.0096}$
$\Omega_c h^2$	0.11824	$0.1178^{+0.0043}_{-0.0039}$	σ_8	0.8078	$0.807^{+0.020}_{-0.020}$	$H(0.15)$	73.39	$73.5^{+1.5}_{-1.6}$
$100\theta_{MC}$	1.04124	$1.0413^{+0.0011}_{-0.0012}$	S_8	0.8133	$0.809^{+0.048}_{-0.050}$	$D_M(0.15)$	636.4	635^{+16}_{-14}
τ	0.0564	$0.057^{+0.026}_{-0.021}$	$\sigma_8 \Omega_m^{0.5}$	0.4455	$0.443^{+0.026}_{-0.027}$	$H(0.38)$	83.38	$83.5^{+1.1}_{-1.1}$
α_{-1}	0.00006	$0.0004^{+0.0020}_{-0.0016}$	$\sigma_8 \Omega_m^{0.25}$	0.5999	$0.598^{+0.024}_{-0.026}$	$D_M(0.38)$	1519.5	1517^{+32}_{-28}
$\ln(10^{10} A_s)$	3.0446	$3.043^{+0.048}_{-0.044}$	$\sigma_8/h^{0.5}$	0.9783	$0.976^{+0.033}_{-0.036}$	$H(0.51)$	90.02	$90.10^{+0.82}_{-0.88}$
n_s	0.9714	$0.972^{+0.014}_{-0.016}$	$r_{drag} h$	100.51	$100.9^{+3.1}_{-3.4}$	$D_M(0.51)$	1969.5	1966^{+37}_{-33}
y_{cal}	1.0008	$1.0007^{+0.0064}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	2.418	$2.414^{+0.083}_{-0.085}$	$H(0.61)$	95.59	$95.64^{+0.64}_{-0.69}$
A_{217}^{CIB}	46.3	47^{+20}_{-20}	z_{re}	7.83	$7.9^{+2.5}_{-2.2}$	$D_M(0.61)$	2292.7	2289^{+39}_{-36}
$\xi^{tSZ \times CIB}$	0.59	—	$10^9 A_s$	2.100	$2.10^{+0.10}_{-0.091}$	$H(2.33)$	235.56	$235.3^{+2.6}_{-2.3}$
A_{143}^{tSZ}	7.14	> 0.758	$10^9 A_s e^{-2\tau}$	1.8763	$1.872^{+0.034}_{-0.033}$	$D_M(2.33)$	5750.1	5748^{+30}_{-27}
A_{100}^{PS}	248	255^{+70}_{-70}	D_{40}	1225.4	1229^{+35}_{-33}	$f\sigma_8(0.15)$	0.4506	$0.449^{+0.024}_{-0.026}$
A_{143}^{PS}	48.5	44^{+20}_{-20}	D_{220}	5740	5738^{+95}_{-95}	$\sigma_8(0.15)$	0.7472	$0.746^{+0.017}_{-0.017}$
$A_{143 \times 217}^{PS}$	50.7	41^{+20}_{-20}	D_{810}	2540.8	2537^{+35}_{-30}	$f\sigma_8(0.38)$	0.4706	$0.469^{+0.020}_{-0.022}$
A_{217}^{PS}	120.6	115^{+20}_{-20}	D_{1420}	820.0	819^{+12}_{-12}	$\sigma_8(0.38)$	0.6631	$0.663^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	232.00	$231.6^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	0.4700	$0.469^{+0.017}_{-0.019}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.6}$	$n_{s,0.002}$	0.9714	$0.972^{+0.014}_{-0.016}$	$\sigma_8(0.51)$	0.6209	$0.621^{+0.014}_{-0.013}$
A_{143}^{dustTT}	11.05	$11.1^{+4.5}_{-4.4}$	Y_P	0.245442	$0.24543^{+0.00011}_{-0.00015}$	$f\sigma_8(0.61)$	0.4657	$0.465^{+0.015}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.8^{+8.6}_{-8.6}$	Y_P^{BBN}	0.246769	$0.24676^{+0.00011}_{-0.00015}$	$\sigma_8(0.61)$	0.5910	$0.591^{+0.014}_{-0.012}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$10^5 D/H$	2.563	$2.567^{+0.069}_{-0.060}$	$f\sigma_8(2.33)$	0.2983	$0.2983^{+0.0076}_{-0.0065}$
A_{100}^{dustTE}	0.113	$0.115^{+0.090}_{-0.10}$	Age/Gyr	13.768	$13.765^{+0.066}_{-0.058}$	$\sigma_8(2.33)$	0.3078	$0.3080^{+0.0076}_{-0.0067}$
$A_{100 \times 143}^{dustTE}$	0.133	$0.134^{+0.074}_{-0.072}$	z_*	1089.61	$1089.60^{+0.69}_{-0.60}$	f_{2000}^{143}	28.1	29^{+7}_{-8}
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.21}_{-0.21}$	r_*	144.79	$144.92^{+0.87}_{-1.0}$	$f_{2000}^{143 \times 217}$	31.51	32^{+5}_{-4}
A_{143}^{dustTE}	0.222	$0.22^{+0.13}_{-0.16}$	$100\theta_*$	1.04141	$1.0415^{+0.0011}_{-0.0012}$	f_{2000}^{217}	106.13	$106.6^{+4.7}_{-4.2}$
$A_{143 \times 217}^{dustTE}$	0.663	$0.67^{+0.21}_{-0.19}$	$D_M(z_*)/\text{Gpc}$	13.903	$13.914^{+0.077}_{-0.090}$	χ_{small}^2	396.4	$397.5 (\nu: 3.0)$
A_{217}^{dustTE}	2.07	$2.08^{+0.65}_{-0.67}$	z_{drag}	1060.09	$1060.02^{+0.75}_{-0.81}$	χ_{lowl}^2	23.14	$23.9 (\nu: 1.2)$
c_{100}	0.99972	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.42	$147.55^{+0.83}_{-1.1}$	χ_{plik}^2	2346.3	$2362.6 (\nu: 19.9)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0015}$	k_D	0.14061	$0.1405^{+0.0011}_{-0.00098}$	$\chi_{H073p45}^2$	10.1	$9.6 (\nu: 3.5)$
H_0	68.18	$68.4^{+1.7}_{-1.9}$	$100\theta_D$	0.160695	$0.16075^{+0.00048}_{-0.00050}$	χ_{prior}^2	1.7	$11.7 (\nu: 9.6)$
Ω_Λ	0.6959	$0.698^{+0.022}_{-0.026}$	z_{eq}	3363	3353^{+99}_{-88}	χ_{CMB}^2	2765.8	$2784.0 (\nu: 21.2)$
Ω_m	0.3041	$0.302^{+0.026}_{-0.022}$	k_{eq}	0.010265	$0.01023^{+0.00030}_{-0.00027}$			
$\Omega_m h^2$	0.14138	$0.1409^{+0.0042}_{-0.0037}$	$100\theta_{eq}$	0.8209	$0.823^{+0.017}_{-0.019}$			

Best-fit $\chi_{eff}^2 = 2777.60$; $\bar{\chi}_{eff}^2 = 2805.32$; $R - 1 = 0.05553$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.36 commander_dx12_v3.2_29: 23.14 plik_rd12_HM_v22b_TTTEEE: 2346.34 Hubble - H073p45: 10.07

5.14 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02236^{+0.00038}_{-0.00040}$	$\Omega_{\mathrm{m}}h^2$	$0.1435^{+0.0043}_{-0.0044}$	k_{eq}	$0.01042^{+0.00032}_{-0.00032}$
$\Omega_{\mathrm{c}}h^2$	$0.1205^{+0.0045}_{-0.0045}$	$\Omega_{\mathrm{m}}h^3$	$0.09634^{+0.00075}_{-0.00076}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.020}_{-0.019}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0011}$	σ_8	$0.813^{+0.020}_{-0.018}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.010}_{-0.0098}$
τ	$0.056^{+0.019}_{-0.014}$	S_8	$0.838^{+0.051}_{-0.049}$	$H(0.15)$	$72.5^{+1.8}_{-1.7}$
α_{-1}	$-0.0001^{+0.0018}_{-0.0018}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.028}_{-0.027}$	$D_{\mathrm{M}}(0.15)$	645^{+17}_{-17}
$\ln(10^{10}A_{\mathrm{s}})$	$3.048^{+0.042}_{-0.032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.024}_{-0.024}$	$H(0.38)$	$82.8^{+1.3}_{-1.2}$
n_{s}	$0.964^{+0.017}_{-0.016}$	$\sigma_8/h^{0.5}$	$0.992^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.38)$	1537^{+34}_{-35}
y_{cal}	$1.0006^{+0.0065}_{-0.0062}$	$r_{\mathrm{drag}}h$	$98.7^{+3.7}_{-3.5}$	$H(0.51)$	$89.54^{+0.99}_{-0.90}$
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.084}_{-0.083}$	$D_{\mathrm{M}}(0.51)$	1990^{+40}_{-40}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 9.57	$H(0.61)$	$95.22^{+0.78}_{-0.70}$
A_{143}^{tSZ}	$5.4^{+4.3}_{-4.9}$	$10^9 A_{\mathrm{s}}$	$2.108^{+0.091}_{-0.066}$	$D_{\mathrm{M}}(0.61)$	2315^{+43}_{-43}
A_{100}^{PS}	259^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.035}_{-0.036}$	$H(2.33)$	$236.8^{+2.7}_{-2.8}$
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1231^{+38}_{-34}	$D_{\mathrm{M}}(2.33)$	5766^{+32}_{-33}
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5733^{+96}_{-98}	$f\sigma_8(0.15)$	$0.463^{+0.026}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2540^{+34}_{-34}	$\sigma_8(0.15)$	$0.751^{+0.017}_{-0.015}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.38)$	$0.480^{+0.020}_{-0.020}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.8}$	D_{2000}	$230.8^{+4.0}_{-4.2}$	$\sigma_8(0.38)$	$0.665^{+0.014}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.017}_{-0.016}$	$f\sigma_8(0.51)$	$0.477^{+0.017}_{-0.017}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.5}_{-8.5}$	Y_{P}	$0.24539^{+0.00014}_{-0.00017}$	$\sigma_8(0.51)$	$0.622^{+0.013}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00014}_{-0.00017}$	$f\sigma_8(0.61)$	$0.472^{+0.015}_{-0.015}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.10}_{-0.096}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.587^{+0.075}_{-0.068}$	$\sigma_8(0.61)$	$0.592^{+0.012}_{-0.0099}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.077}_{-0.075}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.803^{+0.072}_{-0.072}$	$f\sigma_8(2.33)$	$0.2980^{+0.0063}_{-0.0049}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.97^{+0.78}_{-0.73}$	$\sigma_8(2.33)$	$0.3070^{+0.0068}_{-0.0053}$
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	r_*	$144.3^{+1.1}_{-1.0}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.20}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dustTE}}$	$2.09^{+0.70}_{-0.70}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.864^{+0.096}_{-0.093}$	f_{2000}^{217}	$107.0^{+4.7}_{-4.5}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.95^{+0.82}_{-0.82}$	χ_{small}^2	$397.1 (\nu: 1.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.0^{+1.1}_{-1.0}$	χ_{lowl}^2	$23.4 (\nu: 1.3)$
H_0	$67.2^{+2.0}_{-2.0}$	k_{D}	$0.1410^{+0.0011}_{-0.0012}$	χ_{plik}^2	$2361.4 (\nu: 18.5)$
Ω_{Λ}	$0.682^{+0.028}_{-0.029}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00053}_{-0.00051}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{m}	$0.318^{+0.029}_{-0.028}$	z_{eq}	3413^{+100}_{-100}	χ_{CMB}^2	$2781.9 (\nu: 17.9)$

$\bar{\chi}_{\mathrm{eff}}^2 = 2793.42$; $R - 1 = 0.01296$

5.15 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00035}_{-0.00038}$	σ_8	$0.810^{+0.019}_{-0.015}$	$D_M(0.15)$	640^{+11}_{-11}
$\Omega_c h^2$	$0.1191^{+0.0030}_{-0.0029}$	S_8	$0.823^{+0.035}_{-0.033}$	$H(0.38)$	$83.11^{+0.81}_{-0.78}$
$100\theta_{MC}$	$1.04109^{+0.00092}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.019}_{-0.018}$	$D_M(0.38)$	1527^{+22}_{-22}
τ	$0.056^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.019}_{-0.017}$	$H(0.51)$	$89.81^{+0.65}_{-0.62}$
α_{-1}	$0.0001^{+0.0016}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.984^{+0.027}_{-0.024}$	$D_M(0.51)$	1978^{+26}_{-26}
$\ln(10^{10} A_s)$	$3.046^{+0.042}_{-0.032}$	$r_{\text{drag}} h$	$99.8^{+2.3}_{-2.3}$	$H(0.61)$	$95.42^{+0.53}_{-0.50}$
n_s	$0.968^{+0.013}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.067}_{-0.063}$	$D_M(0.61)$	2302^{+28}_{-28}
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	z_{re}	< 9.62	$H(2.33)$	$236.0^{+1.9}_{-1.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.103^{+0.090}_{-0.066}$	$D_M(2.33)$	5758^{+24}_{-24}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.879^{+0.030}_{-0.029}$	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.017}$
A_{143}^{tSZ}	> 0.835	D_{40}	1230^{+40}_{-34}	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.014}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5734^{+99}_{-98}	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.014}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.014}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.2^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	$0.622^{+0.013}_{-0.011}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.013}_{-0.013}$	$f\sigma_8(0.61)$	$0.468^{+0.013}_{-0.011}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.7}$	Y_{P}	$0.24541^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24673^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2983^{+0.0063}_{-0.0050}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.7^{+8.6}_{-8.4}$	$10^5 \text{D}/\text{H}$	$2.580^{+0.071}_{-0.063}$	$\sigma_8(2.33)$	$0.3076^{+0.0067}_{-0.0052}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.785^{+0.053}_{-0.054}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.115^{+0.094}_{-0.10}$	z_*	$1089.80^{+0.59}_{-0.57}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.076}_{-0.075}$	r_*	$144.64^{+0.72}_{-0.75}$	f_{2000}^{217}	$106.8^{+4.7}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	$100\theta_*$	$1.04127^{+0.00093}_{-0.0010}$	χ_{simall}^2	$397.2 (\nu: 2.2)$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.890^{+0.067}_{-0.067}$	χ_{lowl}^2	$23.8 (\nu: 1.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.19}$	z_{drag}	$1059.95^{+0.82}_{-0.82}$	χ_{plik}^2	$2360.8 (\nu: 17.7)$
A_{217}^{dustTE}	$2.08^{+0.66}_{-0.72}$	r_{drag}	$147.29^{+0.76}_{-0.79}$	$\chi_{6\text{DF}}^2$	$0.056 (\nu: 0.0)$
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	k_{D}	$0.14068^{+0.00095}_{-0.00094}$	χ_{MGS}^2	$1.36 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	$0.16077^{+0.00054}_{-0.00051}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.2)$
H_0	$67.8^{+1.3}_{-1.3}$	z_{eq}	3382^{+70}_{-67}	χ_{prior}^2	$11.7 (\nu: 9.7)$
Ω_{Λ}	$0.690^{+0.017}_{-0.018}$	k_{eq}	$0.01032^{+0.00021}_{-0.00021}$	χ_{BAO}^2	$6.2 (\nu: 0.8)$
Ω_{m}	$0.310^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	$0.817^{+0.013}_{-0.013}$	χ_{CMB}^2	$2781.8 (\nu: 17.3)$
$\Omega_{\text{m}} h^2$	$0.1422^{+0.0029}_{-0.0028}$	$100\theta_{\text{s,eq}}$	$0.4514^{+0.0067}_{-0.0066}$		
$\Omega_{\text{m}} h^3$	$0.09631^{+0.00077}_{-0.00078}$	$H(0.15)$	$73.0^{+1.1}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2799.63; R - 1 = 0.02644$$

5.16 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02238^{+0.00037}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.09633^{+0.00074}_{-0.00075}$	$100\theta_{\mathrm{s,eq}}$	$0.4493^{+0.0088}_{-0.0080}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0037}_{-0.0038}$	σ_8	$0.812^{+0.015}_{-0.014}$	$H(0.15)$	$72.7^{+1.5}_{-1.4}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0010}$	S_8	$0.833^{+0.038}_{-0.037}$	$D_{\mathrm{M}}(0.15)$	644^{+14}_{-14}
τ	$0.055^{+0.019}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.021}_{-0.020}$	$H(0.38)$	$82.9^{+1.1}_{-0.99}$
α_{-1}	$-0.0001^{+0.0016}_{-0.0017}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.017}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1534^{+28}_{-29}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.036}_{-0.028}$	$\sigma_8/h^{0.5}$	$0.989^{+0.024}_{-0.024}$	$H(0.51)$	$89.62^{+0.84}_{-0.77}$
n_{s}	$0.965^{+0.015}_{-0.014}$	$r_{\mathrm{drag}}h$	$99.0^{+3.1}_{-2.9}$	$D_{\mathrm{M}}(0.51)$	1986^{+33}_{-34}
y_{cal}	$1.0006^{+0.0062}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.060}_{-0.060}$	$H(0.61)$	$95.27^{+0.67}_{-0.60}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.48	$D_{\mathrm{M}}(0.61)$	2311^{+35}_{-37}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.104^{+0.078}_{-0.058}$	$H(2.33)$	$236.6^{+2.2}_{-2.3}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.7}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.030}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5764^{+29}_{-29}
A_{100}^{PS}	259^{+70}_{-70}	D_{40}	1230^{+39}_{-34}	$f\sigma_8(0.15)$	$0.460^{+0.019}_{-0.019}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5734^{+98}_{-98}	$\sigma_8(0.15)$	$0.750^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+33}_{-33}	$f\sigma_8(0.38)$	$0.478^{+0.014}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.010}$
A^{kSZ}	—	D_{2000}	$230.9^{+4.1}_{-4.3}$	$f\sigma_8(0.51)$	$0.476^{+0.012}_{-0.013}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.8}$	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.014}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0095}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.9}_{-4.5}$	Y_{P}	$0.24540^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	$0.471^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.7^{+8.3}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0091}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.584^{+0.072}_{-0.066}$	$f\sigma_8(2.33)$	$0.2979^{+0.0061}_{-0.0047}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.094}_{-0.096}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.798^{+0.064}_{-0.065}$	$\sigma_8(2.33)$	$0.3069^{+0.0067}_{-0.0052}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.079}_{-0.075}$	z_*	$1089.91^{+0.67}_{-0.65}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.23}_{-0.22}$	r_*	$144.41^{+0.92}_{-0.88}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0010}$	f_{2000}^{217}	$107.0^{+4.6}_{-4.5}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.872^{+0.082}_{-0.077}$	$\chi_{\mathrm{lensing}}^2$	$9.34 (\nu: 0.3)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.67}_{-0.72}$	z_{drag}	$1059.96^{+0.81}_{-0.83}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	$147.07^{+0.94}_{-0.90}$	χ_{lowl}^2	$23.4 (\nu: 1.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1409^{+0.0010}_{-0.0011}$	χ_{plik}^2	$2361.0 (\nu: 17.7)$
H_0	$67.3^{+1.7}_{-1.6}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00053}_{-0.00051}$	χ_{prior}^2	$11.6 (\nu: 9.9)$
Ω_{Λ}	$0.684^{+0.023}_{-0.024}$	z_{eq}	3403^{+83}_{-88}	χ_{CMB}^2	$2790.8 (\nu: 18.0)$
Ω_{m}	$0.316^{+0.024}_{-0.023}$	k_{eq}	$0.01039^{+0.00025}_{-0.00027}$		
$\Omega_{\mathrm{m}}h^2$	$0.1431^{+0.0035}_{-0.0037}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.017}_{-0.016}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2802.36; R - 1 = 0.01801$$

5.17 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00035}_{-0.00038}$	σ_8	$0.811^{+0.015}_{-0.014}$	$D_M(0.15)$	$640^{+10}_{-9.9}$
$\Omega_c h^2$	$0.1192^{+0.0027}_{-0.0026}$	S_8	$0.824^{+0.029}_{-0.029}$	$H(0.38)$	$83.10^{+0.75}_{-0.73}$
$100\theta_{MC}$	$1.04107^{+0.00094}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.016}_{-0.016}$	$D_M(0.38)$	1527^{+20}_{-20}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.015}_{-0.015}$	$H(0.51)$	$89.80^{+0.61}_{-0.58}$
α_{-1}	$0.0001^{+0.0016}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.021}$	$D_M(0.51)$	1978^{+23}_{-24}
$\ln(10^{10} A_s)$	$3.047^{+0.037}_{-0.029}$	$r_{\text{drag}} h$	$99.8^{+2.1}_{-2.1}$	$H(0.61)$	$95.41^{+0.49}_{-0.47}$
n_s	$0.968^{+0.012}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.054}_{-0.051}$	$D_M(0.61)$	2302^{+25}_{-25}
y_{cal}	$1.0008^{+0.0063}_{-0.0062}$	z_{re}	< 9.59	$H(2.33)$	$236.1^{+1.7}_{-1.7}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.106^{+0.079}_{-0.061}$	$D_M(2.33)$	5758^{+23}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.879^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.7}$	D_{40}	1231^{+40}_{-34}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5737^{+98}_{-95}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-32}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.2^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.010}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.012}_{-0.013}$	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.0096}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_P	$0.24541^{+0.00013}_{-0.00016}$	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.0096}$
A_{143}^{dustTT}	$10.9^{+4.8}_{-4.5}$	Y_P^{BBN}	$0.24673^{+0.00013}_{-0.00016}$	$f\sigma_8(2.33)$	$0.2984^{+0.0058}_{-0.0049}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.4}$	$10^5 D/H$	$2.579^{+0.072}_{-0.062}$	$\sigma_8(2.33)$	$0.3077^{+0.0063}_{-0.0052}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.785^{+0.051}_{-0.052}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.115^{+0.094}_{-0.10}$	z_*	$1089.80^{+0.56}_{-0.56}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.075}_{-0.076}$	r_*	$144.62^{+0.68}_{-0.67}$	f_{2000}^{217}	$106.9^{+4.7}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.21}$	$100\theta_*$	$1.04125^{+0.00094}_{-0.0010}$	χ_{lensing}^2	$9.12 (\nu: 0.2)$
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.889^{+0.064}_{-0.062}$	χ_{simall}^2	$397.3 (\nu: 2.1)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.19}$	z_{drag}	$1059.96^{+0.81}_{-0.87}$	χ_{lowl}^2	$23.8 (\nu: 1.5)$
A_{217}^{dustTE}	$2.08^{+0.66}_{-0.72}$	r_{drag}	$147.27^{+0.73}_{-0.73}$	χ_{plik}^2	$2360.6 (\nu: 17.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_D	$0.14070^{+0.00090}_{-0.00092}$	$\chi_{6\text{DF}}^2$	$0.052 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16076^{+0.00056}_{-0.00051}$	χ_{MGS}^2	$1.34 (\nu: 0.1)$
H_0	$67.7^{+1.2}_{-1.2}$	z_{eq}	3383^{+62}_{-60}	χ_{DR12BAO}^2	$4.7 (\nu: 1.0)$
Ω_Λ	$0.690^{+0.016}_{-0.017}$	k_{eq}	$0.01032^{+0.00019}_{-0.00018}$	χ_{prior}^2	$11.6 (\nu: 9.7)$
Ω_m	$0.310^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.012}$	χ_{CMB}^2	$2790.8 (\nu: 17.9)$
$\Omega_m h^2$	$0.1422^{+0.0026}_{-0.0025}$	$100\theta_{s,\text{eq}}$	$0.4513^{+0.0060}_{-0.0060}$	χ_{BAO}^2	$6.1 (\nu: 0.6)$
$\Omega_m h^3$	$0.09632^{+0.00073}_{-0.00078}$	$H(0.15)$	$73.0^{+1.0}_{-1.0}$		

$$\bar{\chi}_{\text{eff}}^2 = 2808.47; R - 1 = 0.02935$$

5.18 base_alpha1_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02247^{+0.00034}_{-0.00037}$	$\Omega_{\mathrm{m}}h^3$	$0.09633^{+0.00075}_{-0.00080}$	$100\theta_{\mathrm{s,eq}}$	$0.4543^{+0.0089}_{-0.0096}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0042}_{-0.0039}$	σ_8	$0.807^{+0.019}_{-0.021}$	$H(0.15)$	$73.5^{+1.5}_{-1.6}$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0012}$	S_8	$0.810^{+0.048}_{-0.051}$	$D_{\mathrm{M}}(0.15)$	635^{+16}_{-14}
τ	$0.058^{+0.023}_{-0.016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.026}_{-0.028}$	$H(0.38)$	$83.5^{+1.1}_{-1.1}$
α_{-1}	$0.0004^{+0.0020}_{-0.0016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.598^{+0.023}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1517^{+31}_{-28}
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.043}_{-0.035}$	$\sigma_8/h^{0.5}$	$0.977^{+0.032}_{-0.037}$	$H(0.51)$	$90.10^{+0.82}_{-0.87}$
n_{s}	$0.972^{+0.013}_{-0.016}$	$r_{\mathrm{drag}}h$	$100.9^{+3.1}_{-3.4}$	$D_{\mathrm{M}}(0.51)$	1966^{+37}_{-33}
y_{cal}	$1.0007^{+0.0065}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	$2.416^{+0.081}_{-0.087}$	$H(0.61)$	$95.64^{+0.65}_{-0.69}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 10.0	$D_{\mathrm{M}}(0.61)$	2289^{+39}_{-36}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.101^{+0.091}_{-0.074}$	$H(2.33)$	$235.3^{+2.6}_{-2.3}$
A_{143}^{tSZ}	> 0.752	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.872^{+0.034}_{-0.033}$	$D_{\mathrm{M}}(2.33)$	5749^{+30}_{-27}
A_{100}^{PS}	255^{+70}_{-70}	D_{40}	1229^{+35}_{-33}	$f\sigma_8(0.15)$	$0.449^{+0.024}_{-0.026}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5738^{+95}_{-95}	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.017}$
$A_{143 \times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{810}	2537^{+35}_{-30}	$f\sigma_8(0.38)$	$0.469^{+0.019}_{-0.022}$
A_{217}^{PS}	115^{+20}_{-20}	D_{1420}	819^{+12}_{-12}	$\sigma_8(0.38)$	$0.663^{+0.014}_{-0.013}$
A^{kSZ}	—	D_{2000}	$231.6^{+3.8}_{-3.9}$	$f\sigma_8(0.51)$	$0.469^{+0.017}_{-0.019}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.013}_{-0.016}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
$A_{143}^{\mathrm{dustTT}}$	$11.1^{+4.5}_{-4.5}$	Y_{P}	$0.24543^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.017}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.8^{+8.6}_{-8.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.010}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.567^{+0.069}_{-0.060}$	$f\sigma_8(2.33)$	$0.2986^{+0.0075}_{-0.0052}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.091}_{-0.099}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.765^{+0.066}_{-0.058}$	$\sigma_8(2.33)$	$0.3082^{+0.0074}_{-0.0056}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.073}_{-0.072}$	z_*	$1089.60^{+0.69}_{-0.60}$	f_{2000}^{143}	29^{+7}_{-8}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.21}$	r_*	$144.91^{+0.87}_{-1.0}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-4}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.16}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0012}$	f_{2000}^{217}	$106.6^{+4.8}_{-4.2}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.19}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.914^{+0.077}_{-0.090}$	χ_{simall}^2	$397.6 (\nu: 3.2)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.66}_{-0.66}$	z_{drag}	$1060.02^{+0.75}_{-0.81}$	χ_{lowl}^2	$23.9 (\nu: 1.2)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.55^{+0.83}_{-1.0}$	χ_{plik}^2	$2362.3 (\nu: 19.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	k_{D}	$0.1405^{+0.0011}_{-0.00090}$	$\chi_{\mathrm{H073p45}}^2$	$9.6 (\nu: 3.4)$
H_0	$68.3^{+1.7}_{-1.9}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00049}_{-0.00050}$	χ_{prior}^2	$11.7 (\nu: 9.5)$
Ω_{Λ}	$0.698^{+0.022}_{-0.026}$	z_{eq}	3353^{+99}_{-88}	χ_{CMB}^2	$2783.8 (\nu: 20.7)$
Ω_{m}	$0.302^{+0.026}_{-0.022}$	k_{eq}	$0.01023^{+0.00030}_{-0.00027}$		
$\Omega_{\mathrm{m}}h^2$	$0.1410^{+0.0041}_{-0.0037}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.017}_{-0.018}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2805.11$; $R - 1 = 0.05749$

5.19 base_alpha1_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02214	$0.02220^{+0.00059}_{-0.00059}$ (+0.0 σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4615	$0.461^{+0.035}_{-0.033}$ (−0.2 σ)	$H(0.15)$	72.11	$72.2^{+2.1}_{-2.1}$ (+0.2 σ)
$\Omega_{\mathrm{c}} h^2$	0.1211	$0.1210^{+0.0057}_{-0.0055}$ (−0.2 σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6120	$0.612^{+0.031}_{-0.029}$ (−0.2 σ)	$D_{\mathrm{M}}(0.15)$	649.1	649^{+22}_{-20} (−0.2 σ)
$100\theta_{\mathrm{MC}}$	1.04066	$1.0406^{+0.0015}_{-0.0014}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9938	$0.993^{+0.041}_{-0.041}$ (−0.2 σ)	$H(0.38)$	82.42	$82.5^{+1.5}_{-1.5}$ (+0.2 σ)
τ	0.0526	$0.054^{+0.024}_{-0.022}$ (−0.0 σ)	$r_{\mathrm{drag}} h$	98.11	$98.2^{+4.3}_{-4.3}$ (+0.2 σ)	$D_{\mathrm{M}}(0.38)$	1545.1	1544^{+43}_{-41} (−0.2 σ)
α_{-1}	−0.0002	$-0.0012^{+0.0045}_{-0.0057}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.456	$2.46^{+0.10}_{-0.099}$ (−0.2 σ)	$H(0.51)$	89.25	$89.3^{+1.2}_{-1.1}$ (+0.2 σ)
$\ln(10^{10} A_{\mathrm{s}})$	3.0417	$3.045^{+0.049}_{-0.047}$ (−0.1 σ)	z_{re}	7.57	$7.7^{+2.2}_{-2.4}$ (−0.0 σ)	$D_{\mathrm{M}}(0.51)$	1999.7	1999^{+50}_{-48} (−0.2 σ)
n_{s}	0.9607	$0.960^{+0.021}_{-0.019}$ (+0.3 σ)	$10^9 A_{\mathrm{s}}$	2.094	$2.10^{+0.11}_{-0.097}$ (−0.1 σ)	$H(0.61)$	94.96	$95.00^{+0.94}_{-0.87}$ (+0.2 σ)
y_{cal}	1.0003	$1.0005^{+0.0065}_{-0.0065}$ (+0.0 σ)	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8850	$1.887^{+0.039}_{-0.038}$ (−0.3 σ)	$D_{\mathrm{M}}(0.61)$	2325	2324^{+53}_{-51} (−0.2 σ)
A_{100}^{PS}	240	244^{+60}_{-70} (−0.7 σ)	D_{40}	1222	1216^{+61}_{-50} (−0.1 σ)	$H(2.33)$	237.00	$237.0^{+3.5}_{-3.5}$ (−0.2 σ)
A_{143}^{PS}	39.3	41^{+20}_{-20} (−1.0 σ)	D_{220}	5701	5709^{+110}_{-110} (−0.2 σ)	$D_{\mathrm{M}}(2.33)$	5779.3	5777^{+41}_{-42} (−0.1 σ)
A_{217}^{PS}	99.2	100^{+30}_{-30} (−1.4 σ)	D_{810}	2534.4	2536^{+36}_{-36} (−0.2 σ)	$f\sigma_8(0.15)$	0.4651	$0.465^{+0.032}_{-0.031}$ (−0.2 σ)
A_{217}^{CIB}	45.6	41^{+20}_{-20} (−1.0 σ)	D_{1420}	813.5	814^{+14}_{-13} (−0.1 σ)	$\sigma_8(0.15)$	0.7489	$0.748^{+0.019}_{-0.019}$ (−0.1 σ)
A_{143}^{tSZ}	5.89	< 8.72 (−0.6 σ)	D_{2000}	229.24	$229.4^{+4.9}_{-4.7}$ (−0.0 σ)	$f\sigma_8(0.38)$	0.4808	$0.480^{+0.025}_{-0.024}$ (−0.2 σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.560	$0.64^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	0.9607	$0.960^{+0.021}_{-0.019}$ (+0.3 σ)	$\sigma_8(0.38)$	0.6626	$0.662^{+0.016}_{-0.016}$ (−0.1 σ)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.76	—	Y_{P}	0.245301	$0.24532^{+0.00023}_{-0.00028}$ (+0.0 σ)	$f\sigma_8(0.51)$	0.4780	$0.478^{+0.021}_{-0.021}$ (−0.2 σ)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.02	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246627	$0.24665^{+0.00023}_{-0.00028}$ (+0.0 σ)	$\sigma_8(0.51)$	0.6195	$0.619^{+0.015}_{-0.015}$ (−0.1 σ)
A^{kSZ}	1.5	—	$10^5 \mathrm{D}/\mathrm{H}$	2.630	$2.62^{+0.12}_{-0.11}$ (−0.0 σ)	$f\sigma_8(0.61)$	0.4721	$0.472^{+0.018}_{-0.019}$ (−0.2 σ)
A_{100}^{dust}	1.02	$1.02^{+0.50}_{-0.50}$	Age/Gyr	13.833	$13.829^{+0.092}_{-0.094}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5892	$0.589^{+0.014}_{-0.014}$ (−0.0 σ)
A_{143}^{dust}	0.993	$0.98^{+0.45}_{-0.45}$	z_*	1090.31	$1090.2^{+1.1}_{-1.0}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2966	$0.2965^{+0.0070}_{-0.0070}$ (−0.0 σ)
A_{217}^{dust}	0.962	$0.97^{+0.27}_{-0.27}$	r_*	144.34	$144.3^{+1.4}_{-1.3}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3053	$0.3052^{+0.0076}_{-0.0076}$ (+0.0 σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.005	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	1.04086	$1.0408^{+0.0015}_{-0.0014}$ (+0.2 σ)	f_{2000}^{143}	31.3	31^{+8}_{-8} (−0.1 σ)
c_{100}	0.99750	$0.9975^{+0.0028}_{-0.0027}$ (−3.4 σ)	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.867	$13.87^{+0.12}_{-0.12}$ (+0.2 σ)	f_{2000}^{217}	107.8	$107.7^{+5.4}_{-5.2}$ (−0.3 σ)
c_{217}	1.00144	$1.0012^{+0.0041}_{-0.0041}$ (+4.8 σ)	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.3}$ (−0.0 σ)	$f_{2000}^{143 \times 217}$	33.2	33^{+6}_{-6} (−0.3 σ)
H_0	66.71	$66.8^{+2.4}_{-2.5}$ (+0.2 σ)	r_{drag}	147.07	$147.0^{+1.5}_{-1.4}$ (+0.2 σ)	χ_{simall}^2	395.89	$397.1 (\nu: 1.6)$ (−0.0 σ)
Ω_{Λ}	0.6767	$0.677^{+0.033}_{-0.038}$ (+0.2 σ)	k_{D}	0.14071	$0.1408^{+0.0015}_{-0.0017}$ (−0.2 σ)	χ_{lowl}^2	22.3	$22.2 (\nu: 2.8)$ (+0.1 σ)
Ω_{m}	0.3233	$0.323^{+0.038}_{-0.033}$ (−0.2 σ)	$100\theta_{\mathrm{D}}$	0.16101	$0.16092^{+0.00085}_{-0.00075}$ (+0.1 σ)	$\chi_{\mathrm{CamSpec}}^2$	7050.8	$7065.8 (\nu: 17.1)$
$\Omega_{\mathrm{m}} h^2$	0.1438	$0.1438^{+0.0055}_{-0.0054}$ (−0.2 σ)	z_{eq}	3422	3422^{+130}_{-130} (−0.2 σ)	χ_{prior}^2	2.4	$7.6 (\nu: 6.0)$ (+0.1 σ)
$\Omega_{\mathrm{m}} h^3$	0.09595	$0.0960^{+0.0012}_{-0.0012}$ (−0.0 σ)	k_{eq}	0.010444	$0.01044^{+0.00040}_{-0.00039}$ (−0.2 σ)	χ_{CMB}^2	7469.0	$7485.1 (\nu: 16.9)$ (+1089.9 σ)
σ_8	0.8117	$0.811^{+0.023}_{-0.023}$ (−0.1 σ)	$100\theta_{\mathrm{eq}}$	0.8090	$0.809^{+0.024}_{-0.023}$ (+0.2 σ)			
S_8	0.843	$0.842^{+0.065}_{-0.061}$ (−0.2 σ)	$100\theta_{\mathrm{s,eq}}$	0.4473	$0.447^{+0.013}_{-0.012}$ (+0.2 σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 7471.39$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.24$; $\bar{\chi}_{\mathrm{eff}}^2 = 7492.71$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.16$; $R - 1 = 0.00444$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.89 (Δ 0.00) commander_dx12_v3.2.29: 22.30 (Δ 0.12) CamSpec like_10.7HM: 7050.85

5.20 base_alpha1_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02228^{+0.00057}_{-0.00060} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$H(0.38)$	$82.99^{+0.89}_{-0.90} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0032}_{-0.0030} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.031}_{-0.029} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+25}_{-23} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.4}_{-2.5} \quad (+0.1\sigma)$	$H(0.51)$	$89.69^{+0.74}_{-0.73} \quad (+0.1\sigma)$
τ	$0.055^{+0.024}_{-0.021} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.074}_{-0.069} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+29}_{-27} \quad (-0.1\sigma)$
α_{-1}	$-0.0007^{+0.0043}_{-0.0055} \quad (+0.1\sigma)$	z_{re}	$7.7^{+2.3}_{-2.2} \quad (-0.0\sigma)$	$H(0.61)$	$95.30^{+0.65}_{-0.63} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.053}_{-0.046} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.11}_{-0.094} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+31}_{-30} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.032}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+2.1}_{-2.1} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	D_{40}	$1214^{+61}_{-53} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+32}_{-32} \quad (-0.1\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5716^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+37}_{-34} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.019}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+4.7}_{-4.6} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.015} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.016}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.31}_{-0.33}$	Y_{P}	$0.24535^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.014} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24668^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.12}_{-0.10} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.014} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.802^{+0.075}_{-0.074} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2968^{+0.0072}_{-0.0068} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.46}$	z_*	$1089.95^{+0.85}_{-0.79} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0078}_{-0.0072} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.99^{+0.45}_{-0.47}$	r_*	$144.77^{+0.89}_{-0.88} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.085}_{-0.082} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.3}_{-1.4} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.9) \quad (-0.0\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	r_{drag}	$147.5^{+1.0}_{-0.97} \quad (+0.1\sigma)$	χ_{lowl}^2	$22 \quad (\nu: 3.4) \quad (+0.1\sigma)$
H_0	$67.6^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.8 \quad (\nu: 17.4)$
Ω_{Λ}	$0.690^{+0.018}_{-0.020} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16093^{+0.00086}_{-0.00077} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.061 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.310^{+0.020}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3375^{+76}_{-73} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.35 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00022} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.5) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0013} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.806^{+0.021}_{-0.020} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0071}_{-0.0072} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 1.0) \quad (-0.1\sigma)$
S_8	$0.820^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7485.4 \quad (\nu: 17.0) \quad (+1103.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-11} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7499.33; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.09; R - 1 = 0.01534$$

5.21 base_alpha1_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00059}_{-0.00059} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$H(0.15)$	$72.3^{+1.6}_{-1.6} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1206^{+0.0042}_{-0.0042} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$647^{+16}_{-16} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0406^{+0.0014}_{-0.0013} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.026}_{-0.027} \quad (-0.0\sigma)$	$H(0.38)$	$82.6^{+1.2}_{-1.1} \quad (+0.1\sigma)$
τ	$0.054^{+0.023}_{-0.021} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.5^{+3.4}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1541^{+32}_{-33} \quad (-0.1\sigma)$
α_{-1}	$-0.0012^{+0.0042}_{-0.0058} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.065}_{-0.067} \quad (-0.1\sigma)$	$H(0.51)$	$89.37^{+0.98}_{-0.91} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.044}_{-0.042} \quad (-0.0\sigma)$	z_{re}	$7.7^{+2.1}_{-2.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1995^{+38}_{-38} \quad (-0.1\sigma)$
n_{s}	$0.960^{+0.018}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.094}_{-0.086} \quad (-0.0\sigma)$	$H(0.61)$	$95.05^{+0.80}_{-0.74} \quad (+0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0064} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.032}_{-0.032} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2320^{+41}_{-42} \quad (-0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1216^{+61}_{-48} \quad (-0.0\sigma)$	$H(2.33)$	$236.8^{+2.6}_{-2.6} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5712^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5775^{+37}_{-38} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-30} \quad (-1.4\sigma)$	D_{810}	$2536^{+36}_{-34} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.015} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.72 \quad (-0.7\sigma)$	D_{2000}	$229.4^{+4.9}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.017} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.018}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.013} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24533^{+0.00023}_{-0.00028} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00023}_{-0.00028} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.013} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.11} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.013} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.823^{+0.084}_{-0.084} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.012} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	z_*	$1090.16^{+0.93}_{-0.89} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2965^{+0.0067}_{-0.0066} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	r_*	$144.4^{+1.1}_{-1.0} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3053^{+0.0076}_{-0.0073} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0408^{+0.0014}_{-0.0013} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.873^{+0.097}_{-0.092} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.7^{+5.4}_{-5.1} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.3}_{-1.4} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$66.9^{+1.9}_{-1.8} \quad (+0.1\sigma)$	r_{drag}	$147.1^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.52 \quad (\nu: 0.4) \quad (+0.0\sigma)$
Ω_{Λ}	$0.680^{+0.026}_{-0.027} \quad (+0.1\sigma)$	k_{D}	$0.1407^{+0.0013}_{-0.0014} \quad (-0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.4) \quad (+0.0\sigma)$
Ω_{m}	$0.320^{+0.027}_{-0.026} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00085}_{-0.00075} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.2 \quad (\nu: 2.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1434^{+0.0040}_{-0.0040} \quad (-0.1\sigma)$	z_{eq}	$3412^{+96}_{-96} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.3 \quad (\nu: 16.5)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.01042^{+0.00029}_{-0.00029} \quad (-0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.810^{+0.017}_{-0.016} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.019}_{-0.017} \quad (+0.1\sigma)$	χ_{CMB}^2	$7494.0 \quad (\nu: 17.3) \quad (+1100.0\sigma)$
S_8	$0.837^{+0.042}_{-0.042} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4482^{+0.0095}_{-0.0090} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7501.64; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.11; R - 1 = 0.00636$$

5.22 base_alpha1_CamSpecHM_TT_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02228^{+0.00058}_{-0.00059} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (+0.0\sigma)$	$H(0.38)$	$82.95^{+0.87}_{-0.84} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1192^{+0.0029}_{-0.0028} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.024}_{-0.023} \quad (+0.0\sigma)$	$D_M(0.38)$	$1530^{+23}_{-22} \quad (-0.0\sigma)$
$100\theta_{MC}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$r_{drag} h$	$99.6^{+2.3}_{-2.2} \quad (+0.0\sigma)$	$H(0.51)$	$89.66^{+0.73}_{-0.70} \quad (+0.0\sigma)$
τ	$0.057^{+0.023}_{-0.019} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.057}_{-0.056} \quad (-0.1\sigma)$	$D_M(0.51)$	$1983^{+27}_{-26} \quad (-0.0\sigma)$
α_{-1}	$-0.0007^{+0.0043}_{-0.0056} \quad (+0.1\sigma)$	z_{re}	$7.9^{+2.1}_{-2.0} \quad (+0.0\sigma)$	$H(0.61)$	$95.28^{+0.64}_{-0.60} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.047^{+0.047}_{-0.041} \quad (-0.1\sigma)$	$10^9 A_s$	$2.11^{+0.10}_{-0.086} \quad (-0.1\sigma)$	$D_M(0.61)$	$2307^{+29}_{-29} \quad (-0.0\sigma)$
n_s	$0.965^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.9}_{-1.9} \quad (-0.0\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0065} \quad (+0.1\sigma)$	D_{40}	$1216^{+61}_{-52} \quad (+0.0\sigma)$	$D_M(2.33)$	$5766^{+32}_{-32} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5721^{+100}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2536^{+35}_{-34} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.015} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.0^{+4.6}_{-4.6} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.013} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.6\sigma)$	$n_{s,0.002}$	$0.965^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$r_{143 \times 217}^{PS}$	$0.64^{+0.31}_{-0.33}$	Y_P	$0.24536^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.012} \quad (+0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P^{BBN}	$0.24668^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (+0.0\sigma)$
$\xi^{tSZ \times CIB}$	—	$10^5 D/H$	$2.60^{+0.11}_{-0.10} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.074}_{-0.074} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0066}_{-0.0059} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.46}$	z_*	$1089.96^{+0.84}_{-0.77} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0072}_{-0.0063} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.44}_{-0.47}$	r_*	$144.71^{+0.83}_{-0.80} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-5.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.42}_{-0.41}$	$D_M(z_*)/\text{Gpc}$	$13.899^{+0.079}_{-0.074} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.7^{+1.3}_{-1.4} \quad (-0.0\sigma)$	$\chi_{lensing}^2$	$9.35 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	r_{drag}	$147.40^{+0.98}_{-0.88} \quad (+0.0\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 2.0) \quad (+0.0\sigma)$
H_0	$67.6^{+1.3}_{-1.3} \quad (+0.0\sigma)$	k_D	$0.1405^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	χ_{lowl}^2	$23 \quad (\nu: 3.4) \quad (+0.1\sigma)$
Ω_Λ	$0.689^{+0.017}_{-0.018} \quad (+0.0\sigma)$	$100\theta_D$	$0.16091^{+0.00085}_{-0.00075} \quad (+0.1\sigma)$	$\chi_{CamSpec}^2$	$7065.2 \quad (\nu: 16.4)$
Ω_m	$0.311^{+0.018}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3381^{+68}_{-67} \quad (-0.0\sigma)$	χ_{6DF}^2	$0.065 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_m h^2$	$0.1421^{+0.0028}_{-0.0028} \quad (-0.0\sigma)$	k_{eq}	$0.01032^{+0.00021}_{-0.00020} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.25 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_m h^3$	$0.0960^{+0.0012}_{-0.0013} \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.817^{+0.013}_{-0.012} \quad (+0.0\sigma)$	$\chi_{DR12BAO}^2$	$5.0 \quad (\nu: 1.4) \quad (-0.0\sigma)$
σ_8	$0.808^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$100\theta_{s,eq}$	$0.4513^{+0.0065}_{-0.0064} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
S_8	$0.824^{+0.031}_{-0.030} \quad (+0.0\sigma)$	$H(0.15)$	$72.8^{+1.1}_{-1.1} \quad (+0.0\sigma)$	χ_{CMB}^2	$7494.3 \quad (\nu: 17.2) \quad (+1110.2\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$D_M(0.15)$	$642^{+11}_{-11} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.9) \quad (-0.0\sigma)$

$\bar{\chi}_{eff}^2 = 7508.28$; $\Delta \bar{\chi}_{eff}^2 = 6292.19$; $R - 1 = 0.01595$

5.23 base_alpha1_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02221^{+0.00058}_{-0.00058} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.461^{+0.035}_{-0.033} \quad (-0.2\sigma)$	$H(0.15)$	$72.2^{+2.1}_{-2.0} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1210^{+0.0056}_{-0.0056} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.030}_{-0.030} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$648^{+22}_{-20} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0406^{+0.0015}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.041}_{-0.040} \quad (-0.2\sigma)$	$H(0.38)$	$82.5^{+1.5}_{-1.4} \quad (+0.2\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.2^{+4.4}_{-4.3} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1544^{+42}_{-41} \quad (-0.2\sigma)$
α_{-1}	$-0.0013^{+0.0044}_{-0.0057} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.10}_{-0.098} \quad (-0.2\sigma)$	$H(0.51)$	$89.3^{+1.2}_{-1.1} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.048^{+0.047}_{-0.034} \quad (-0.2\sigma)$	z_{re}	$< 9.68 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1998^{+49}_{-48} \quad (-0.2\sigma)$
n_{s}	$0.960^{+0.021}_{-0.018} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.10}_{-0.072} \quad (-0.2\sigma)$	$H(0.61)$	$95.01^{+0.93}_{-0.86} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.887^{+0.038}_{-0.038} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2324^{+53}_{-51} \quad (-0.2\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1216^{+60}_{-49} \quad (-0.1\sigma)$	$H(2.33)$	$237.0^{+3.5}_{-3.5} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5710^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5777^{+40}_{-42} \quad (-0.2\sigma)$
A_{217}^{PS}	$100^{+30}_{-30} \quad (-1.4\sigma)$	D_{810}	$2536^{+35}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.465^{+0.032}_{-0.031} \quad (-0.2\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.6\sigma)$	D_{2000}	$229.4^{+4.8}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.481^{+0.024}_{-0.024} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.021}_{-0.018} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24532^{+0.00023}_{-0.00027} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.021}_{-0.021} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00023}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.012} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.018} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.827^{+0.090}_{-0.093} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0068}_{-0.0053} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.3^{+1.4}_{-1.3} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3056^{+0.0073}_{-0.0057} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.40}$	$100\theta_*$	$1.0408^{+0.0015}_{-0.0014} \quad (+0.2\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.12}_{-0.12} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.7^{+5.3}_{-5.2} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$66.8^{+2.4}_{-2.4} \quad (+0.2\sigma)$	r_{drag}	$147.0^{+1.5}_{-1.4} \quad (+0.2\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.677^{+0.033}_{-0.037} \quad (+0.2\sigma)$	k_{D}	$0.1408^{+0.0015}_{-0.0017} \quad (-0.2\sigma)$	χ_{lowl}^2	$22.2 \quad (\nu: 2.6) \quad (+0.1\sigma)$
Ω_{m}	$0.323^{+0.037}_{-0.033} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00084}_{-0.00074} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.7 \quad (\nu: 17.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1438^{+0.0054}_{-0.0054} \quad (-0.2\sigma)$	z_{eq}	$3421^{+130}_{-130} \quad (-0.2\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	k_{eq}	$0.01044^{+0.00040}_{-0.00039} \quad (-0.2\sigma)$	χ_{CMB}^2	$7484.8 \quad (\nu: 16.4) \quad (+1108.8\sigma)$
σ_8	$0.812^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.809^{+0.024}_{-0.023} \quad (+0.2\sigma)$		
S_8	$0.842^{+0.064}_{-0.061} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.447^{+0.013}_{-0.012} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7492.46; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.16; R - 1 = 0.00453$$

5.24 base_alpha1_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02228^{+0.00057}_{-0.00059} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.00^{+0.89}_{-0.89} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0032}_{-0.0030} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.030}_{-0.028} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+24}_{-23} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.4}_{-2.5} \quad (+0.1\sigma)$	$H(0.51)$	$89.70^{+0.74}_{-0.73} \quad (+0.1\sigma)$
τ	$0.056^{+0.021}_{-0.015} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.072}_{-0.066} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+29}_{-27} \quad (-0.1\sigma)$
α_{-1}	$-0.0007^{+0.0043}_{-0.0055} \quad (+0.1\sigma)$	z_{re}	$< 9.74 \quad (-0.0\sigma)$	$H(0.61)$	$95.30^{+0.65}_{-0.62} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.047}_{-0.037} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.077} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+31}_{-30} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.032}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+2.1}_{-2.1} \quad (-0.1\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	D_{40}	$1214^{+60}_{-52} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+32}_{-32} \quad (-0.1\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5716^{+100}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.016} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+4.7}_{-4.7} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.014} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.31}_{-0.33}$	Y_{P}	$0.24536^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.015}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24668^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.11}_{-0.10} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.011} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.801^{+0.075}_{-0.073} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0072}_{-0.0056} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.46}$	z_*	$1089.94^{+0.86}_{-0.80} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0076}_{-0.0058} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.99^{+0.45}_{-0.47}$	r_*	$144.77^{+0.89}_{-0.88} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-5.0} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.085}_{-0.082} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.7^{+1.3}_{-1.4} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 2.0) \quad (-0.0\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	$147.5^{+1.0}_{-0.97} \quad (+0.1\sigma)$	χ_{lowl}^2	$22 \quad (\nu: 3.3) \quad (+0.0\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.7 \quad (\nu: 17.2)$
Ω_{Λ}	$0.690^{+0.018}_{-0.020} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16092^{+0.00085}_{-0.00076} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.060 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.310^{+0.020}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3375^{+76}_{-73} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.35 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00022} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.5) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0014} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.807^{+0.021}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0071}_{-0.0072} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 1.0) \quad (-0.1\sigma)$
S_8	$0.820^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7485.2 \quad (\nu: 16.5) \quad (+1122.6\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-11} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7499.10$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.05$; $R - 1 = 0.01710$

5.25 base_alpha1_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00058}_{-0.00058} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023} \quad (-0.0\sigma)$	$H(0.15)$	$72.3^{+1.6}_{-1.5} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1205^{+0.0040}_{-0.0041} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.019}_{-0.020} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$647^{+16}_{-16} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0406^{+0.0014}_{-0.0013} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.026}_{-0.027} \quad (-0.0\sigma)$	$H(0.38)$	$82.6^{+1.2}_{-1.1} \quad (+0.0\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.5^{+3.3}_{-3.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1540^{+31}_{-32} \quad (-0.0\sigma)$
α_{-1}	$-0.0012^{+0.0042}_{-0.0058} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.065}_{-0.066} \quad (-0.1\sigma)$	$H(0.51)$	$89.39^{+0.96}_{-0.88} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.042}_{-0.031} \quad (-0.1\sigma)$	z_{re}	$< 9.62 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1994^{+36}_{-38} \quad (-0.0\sigma)$
n_{s}	$0.961^{+0.017}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.091}_{-0.064} \quad (-0.1\sigma)$	$H(0.61)$	$95.07^{+0.78}_{-0.73} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0064} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.031}_{-0.032} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2319^{+39}_{-41} \quad (-0.0\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1215^{+59}_{-47} \quad (-0.0\sigma)$	$H(2.33)$	$236.7^{+2.5}_{-2.6} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5713^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5774^{+35}_{-37} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-30} \quad (-1.4\sigma)$	D_{810}	$2536^{+35}_{-34} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.013} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.72 \quad (-0.6\sigma)$	D_{2000}	$229.4^{+4.8}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.017}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.011} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24533^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.012}_{-0.010} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.11} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.822^{+0.081}_{-0.083} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.0096} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	z_*	$1090.14^{+0.90}_{-0.87} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2967^{+0.0065}_{-0.0050} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.4^{+1.1}_{-0.99} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3056^{+0.0073}_{-0.0056} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0408^{+0.0014}_{-0.0013} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.875^{+0.097}_{-0.090} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.6^{+5.2}_{-5.1} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
H_0	$67.0^{+1.9}_{-1.8} \quad (+0.0\sigma)$	r_{drag}	$147.1^{+1.1}_{-1.0} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.50 \quad (\nu: 0.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.680^{+0.025}_{-0.026} \quad (+0.0\sigma)$	k_{D}	$0.1407^{+0.0013}_{-0.0014} \quad (-0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.0\sigma)$
Ω_{m}	$0.320^{+0.026}_{-0.025} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16090^{+0.00085}_{-0.00074} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.1 \quad (\nu: 2.7) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1434^{+0.0039}_{-0.0040} \quad (-0.0\sigma)$	z_{eq}	$3410^{+93}_{-95} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.2 \quad (\nu: 16.5)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.01041^{+0.00028}_{-0.00029} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.810^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.018}_{-0.017} \quad (+0.0\sigma)$	χ_{CMB}^2	$7493.7 \quad (\nu: 16.8) \quad (+1115.9\sigma)$
S_8	$0.837^{+0.042}_{-0.042} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4484^{+0.0094}_{-0.0087} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7501.39; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.10; R - 1 = 0.00867$$

5.26 base_alpha1_CamSpecHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02229^{+0.00057}_{-0.00059} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (+0.0\sigma)$	$H(0.38)$	$82.95^{+0.86}_{-0.83} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1192^{+0.0029}_{-0.0028} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$D_M(0.38)$	$1530^{+22}_{-22} \quad (-0.0\sigma)$
$100\theta_{MC}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$r_{drag} h$	$99.6^{+2.3}_{-2.2} \quad (+0.0\sigma)$	$H(0.51)$	$89.67^{+0.73}_{-0.69} \quad (+0.0\sigma)$
τ	$0.057^{+0.021}_{-0.016} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.057}_{-0.055} \quad (-0.1\sigma)$	$D_M(0.51)$	$1982^{+26}_{-26} \quad (-0.0\sigma)$
α_{-1}	$-0.0008^{+0.0043}_{-0.0055} \quad (+0.1\sigma)$	z_{re}	$< 9.75 \quad (+0.0\sigma)$	$H(0.61)$	$95.28^{+0.63}_{-0.60} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.048^{+0.046}_{-0.033} \quad (-0.1\sigma)$	$10^9 A_s$	$2.108^{+0.098}_{-0.069} \quad (-0.1\sigma)$	$D_M(0.61)$	$2307^{+28}_{-29} \quad (-0.0\sigma)$
n_s	$0.965^{+0.015}_{-0.013} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.030}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.9}_{-1.9} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0064}_{-0.0065} \quad (+0.1\sigma)$	D_{40}	$1216^{+59}_{-52} \quad (+0.0\sigma)$	$D_M(2.33)$	$5765^{+32}_{-32} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5721^{+100}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2536^{+35}_{-33} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.013} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.0^{+4.6}_{-4.6} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.014}_{-0.012} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.6\sigma)$	$n_{s,0.002}$	$0.965^{+0.015}_{-0.013} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$r_{143 \times 217}^{PS}$	$0.64^{+0.31}_{-0.33}$	Y_P	$0.24536^{+0.00022}_{-0.00027} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.011} \quad (+0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P^{BBN}	$0.24668^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010} \quad (+0.0\sigma)$
$\xi^{tSZ \times CIB}$	—	$10^5 D/H$	$2.60^{+0.11}_{-0.10} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.010} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.073}_{-0.074} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0065}_{-0.0053} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.46}$	z_*	$1089.95^{+0.83}_{-0.77} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0071}_{-0.0056} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.47}$	r_*	$144.71^{+0.83}_{-0.79} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-5.0} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.42}_{-0.41}$	$D_M(z_*)/\text{Gpc}$	$13.900^{+0.079}_{-0.074} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.7^{+1.3}_{-1.4} \quad (-0.0\sigma)$	$\chi_{lensing}^2$	$9.32 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	$147.40^{+0.98}_{-0.88} \quad (+0.0\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 2.0) \quad (+0.0\sigma)$
H_0	$67.6^{+1.3}_{-1.3} \quad (+0.0\sigma)$	k_D	$0.1405^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	χ_{lowl}^2	$22 \quad (\nu: 3.3) \quad (+0.1\sigma)$
Ω_Λ	$0.689^{+0.017}_{-0.018} \quad (+0.0\sigma)$	$100\theta_D$	$0.16090^{+0.00084}_{-0.00075} \quad (+0.1\sigma)$	$\chi_{CamSpec}^2$	$7065.2 \quad (\nu: 16.4)$
Ω_m	$0.311^{+0.018}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3380^{+68}_{-67} \quad (-0.0\sigma)$	χ_{6DF}^2	$0.063 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_m h^2$	$0.1421^{+0.0028}_{-0.0028} \quad (-0.0\sigma)$	k_{eq}	$0.01032^{+0.00021}_{-0.00020} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.26 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_m h^3$	$0.0960^{+0.0012}_{-0.0013} \quad (+0.0\sigma)$	$100\theta_{eq}$	$0.817^{+0.013}_{-0.012} \quad (+0.0\sigma)$	$\chi_{DR12BAO}^2$	$5.0 \quad (\nu: 1.4) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.017}_{-0.015} \quad (+0.1\sigma)$	$100\theta_{s,eq}$	$0.4514^{+0.0065}_{-0.0064} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
S_8	$0.824^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$H(0.15)$	$72.8^{+1.1}_{-1.1} \quad (+0.0\sigma)$	χ_{CMB}^2	$7494.2 \quad (\nu: 16.9) \quad (+1117.7\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$D_M(0.15)$	$642^{+11}_{-11} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.9) \quad (-0.0\sigma)$

$\bar{\chi}_{eff}^2 = 7508.12$; $\Delta \bar{\chi}_{eff}^2 = 6292.15$; $R - 1 = 0.01736$

6 mnu

6.1 base_mnu_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02205^{+0.00059}_{-0.00070}$	$\sigma_8 \Omega_m^{0.5}$	0.4615	$0.457^{+0.034}_{-0.037}$	$H(0.15)$	72.8	$71.2^{+3.2}_{-7.2}$
$\Omega_c h^2$	0.1204	$0.1210^{+0.0060}_{-0.0057}$	$\sigma_8 \Omega_m^{0.25}$	0.617	$0.600^{+0.038}_{-0.075}$	$D_M(0.15)$	642	658^{+80}_{-30}
$100\theta_{MC}$	1.04081	$1.0406^{+0.0013}_{-0.0014}$	$\sigma_8/h^{0.5}$	1.004	$0.973^{+0.058}_{-0.14}$	$H(0.38)$	82.94	$81.7^{+2.4}_{-5.3}$
τ	0.0525	$0.052^{+0.022}_{-0.021}$	$r_{\text{drag}} h$	99.4	$96.7^{+6.1}_{-13}$	$D_M(0.38)$	1531	1564^{+170}_{-65}
$\Sigma m_\nu [\text{eV}]$	0.001	< 0.856	$\langle d^2 \rangle^{1/2}$	2.459	$2.448^{+0.097}_{-0.098}$	$H(0.51)$	89.68	$88.7^{+1.9}_{-4.3}$
$\ln(10^{10} A_s)$	3.0413	$3.040^{+0.044}_{-0.043}$	z_{re}	7.55	$7.5^{+2.1}_{-2.4}$	$D_M(0.51)$	1983	2022^{+190}_{-77}
n_s	0.9640	$0.961^{+0.016}_{-0.018}$	$10^9 A_s$	2.093	$2.091^{+0.093}_{-0.089}$	$H(0.61)$	95.31	$94.5^{+1.6}_{-3.5}$
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.8845	$1.886^{+0.035}_{-0.035}$	$D_M(0.61)$	2308	2350^{+210}_{-83}
A_{217}^{CIB}	48.6	48^{+20}_{-20}	D_{40}	1231.4	1234^{+40}_{-39}	$H(2.33)$	236.3	$237.6^{+7.2}_{-4.0}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.35	—	D_{220}	5713	5712^{+110}_{-100}	$D_M(2.33)$	5763	5806^{+200}_{-75}
A_{143}^{tSZ}	7.0	—	D_{810}	2537.6	2537^{+35}_{-37}	$f\sigma_8(0.15)$	0.4653	$0.460^{+0.031}_{-0.037}$
A_{100}^{PS}	254	265^{+70}_{-70}	D_{1420}	815.4	814^{+13}_{-13}	$\sigma_8(0.15)$	0.762	$0.727^{+0.052}_{-0.13}$
A_{143}^{PS}	49.8	50^{+20}_{-20}	D_{2000}	230.08	$229.2^{+4.7}_{-5.0}$	$f\sigma_8(0.38)$	0.4834	$0.473^{+0.028}_{-0.055}$
$A_{143 \times 217}^{\text{PS}}$	47.7	44^{+20}_{-20}	$n_{s,0.002}$	0.9640	$0.961^{+0.016}_{-0.018}$	$\sigma_8(0.38)$	0.675	$0.642^{+0.047}_{-0.12}$
A_{217}^{PS}	119.6	115^{+30}_{-30}	Y_P	0.245310	$0.24525^{+0.00024}_{-0.00032}$	$f\sigma_8(0.51)$	0.4817	$0.469^{+0.027}_{-0.065}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246636	$0.24658^{+0.00024}_{-0.00032}$	$\sigma_8(0.51)$	0.632	$0.600^{+0.044}_{-0.12}$
A_{100}^{dustTT}	8.88	$8.9^{+4.7}_{-4.7}$	$10^5 \text{D}/\text{H}$	2.625	$2.65^{+0.14}_{-0.11}$	$f\sigma_8(0.61)$	0.4765	$0.463^{+0.030}_{-0.060}$
A_{143}^{dustTT}	10.82	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.795	$13.90^{+0.47}_{-0.17}$	$\sigma_8(0.61)$	0.601	$0.571^{+0.042}_{-0.11}$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.4}_{-8.8}$	z_*	1090.22	$1090.4^{+1.5}_{-1.1}$	$f\sigma_8(2.33)$	0.3019	$0.288^{+0.020}_{-0.054}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	r_*	144.48	$144.4^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	0.3116	$0.296^{+0.023}_{-0.061}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04099	$1.0409^{+0.0012}_{-0.0012}$	f_{2000}^{143}	30.2	32^{+8}_{-8}
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.879	$13.87^{+0.12}_{-0.13}$	$f_{2000}^{143 \times 217}$	33.2	34^{+6}_{-5}
H_0	67.5	$65.7^{+3.7}_{-8.4}$	z_{drag}	1059.47	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	107.6	$108.6^{+5.4}_{-5.0}$
Ω_Λ	0.687	$0.663^{+0.050}_{-0.14}$	r_{drag}	147.22	$147.2^{+1.3}_{-1.3}$	χ_{simall}^2	395.87	$396.9 (\nu: 1.4)$
Ω_m	0.313	$0.337^{+0.14}_{-0.050}$	k_D	0.14057	$0.1406^{+0.0014}_{-0.0013}$	χ_{lowl}^2	23.66	$23.9 (\nu: 0.8)$
$\Omega_m h^2$	0.1426	$0.145^{+0.013}_{-0.0065}$	$100\theta_D$	0.16102	$0.16112^{+0.00069}_{-0.00068}$	χ_{plik}^2	758.1	$772.5 (\nu: 16.3)$
$\Omega_\nu h^2$	0.00001	< 0.00921	z_{eq}	3408	3419^{+130}_{-130}	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
$\Omega_m h^3$	0.09626	$0.0952^{+0.0020}_{-0.0052}$	k_{eq}	0.010401	$0.01044^{+0.00041}_{-0.00040}$	χ_{CMB}^2	1177.6	$1193.4 (\nu: 16.9)$
σ_8	0.825	$0.789^{+0.055}_{-0.13}$	$100\theta_{\text{eq}}$	0.8116	$0.809^{+0.025}_{-0.024}$			
S_8	0.843	$0.834^{+0.062}_{-0.067}$	$100\theta_{s,\text{eq}}$	0.4486	$0.448^{+0.013}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 1178.95$; $\bar{\chi}_{\text{eff}}^2 = 1200.74$; $R - 1 = 0.00818$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3_2_29: 23.66 plik_rd12_HM_v22_TT: 758.09

6.2 base_mnu_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02206^{+0.00059}_{-0.00068}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.457^{+0.034}_{-0.036}$	$H(0.15)$	$71.3^{+3.2}_{-7.0}$
$\Omega_{\text{c}} h^2$	$0.1209^{+0.0059}_{-0.0057}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.601^{+0.038}_{-0.074}$	$D_{\text{M}}(0.15)$	658^{+80}_{-30}
$100\theta_{\text{MC}}$	$1.0407^{+0.0013}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.974^{+0.058}_{-0.13}$	$H(0.38)$	$81.8^{+2.4}_{-5.2}$
τ	$0.053^{+0.019}_{-0.013}$	$r_{\text{drag}} h$	$96.8^{+6.2}_{-13}$	$D_{\text{M}}(0.38)$	1563^{+160}_{-65}
$\Sigma m_{\nu} [\text{eV}]$	< 0.838	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.096}_{-0.096}$	$H(0.51)$	$88.7^{+1.9}_{-4.2}$
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.041}_{-0.030}$	z_{re}	< 9.42	$D_{\text{M}}(0.51)$	2021^{+190}_{-77}
n_{s}	$0.962^{+0.016}_{-0.017}$	$10^9 A_{\text{s}}$	$2.098^{+0.087}_{-0.062}$	$H(0.61)$	$94.5^{+1.6}_{-3.5}$
y_{cal}	$1.0005^{+0.0064}_{-0.0066}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.885^{+0.036}_{-0.035}$	$D_{\text{M}}(0.61)$	2349^{+200}_{-83}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1234^{+40}_{-39}	$H(2.33)$	$237.5^{+7.0}_{-4.0}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5712^{+110}_{-100}	$D_{\text{M}}(2.33)$	5805^{+200}_{-75}
A_{143}^{tSZ}	—	D_{810}	2537^{+35}_{-37}	$f\sigma_8(0.15)$	$0.461^{+0.031}_{-0.037}$
A_{100}^{PS}	265^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.15)$	$0.728^{+0.051}_{-0.13}$
A_{143}^{PS}	50^{+20}_{-20}	D_{2000}	$229.2^{+4.7}_{-5.0}$	$f\sigma_8(0.38)$	$0.473^{+0.028}_{-0.054}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$n_{\text{s},0.002}$	$0.962^{+0.016}_{-0.017}$	$\sigma_8(0.38)$	$0.643^{+0.046}_{-0.12}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24526^{+0.00024}_{-0.00031}$	$f\sigma_8(0.51)$	$0.470^{+0.027}_{-0.063}$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24658^{+0.00024}_{-0.00031}$	$\sigma_8(0.51)$	$0.601^{+0.043}_{-0.11}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	$10^5 \text{D}/\text{H}$	$2.65^{+0.14}_{-0.11}$	$f\sigma_8(0.61)$	$0.463^{+0.030}_{-0.059}$
A_{143}^{dustTT}	$10.7^{+4.7}_{-4.6}$	Age/Gyr	$13.89^{+0.46}_{-0.17}$	$\sigma_8(0.61)$	$0.571^{+0.042}_{-0.11}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.5}_{-8.7}$	z_*	$1090.4^{+1.5}_{-1.1}$	$f\sigma_8(2.33)$	$0.289^{+0.019}_{-0.053}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$144.4^{+1.3}_{-1.4}$	$\sigma_8(2.33)$	$0.296^{+0.022}_{-0.060}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0409^{+0.0012}_{-0.0012}$	f_{2000}^{143}	32^{+8}_{-8}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.87^{+0.12}_{-0.13}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-5}
H_0	$65.8^{+3.7}_{-8.1}$	z_{drag}	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	$108.5^{+5.3}_{-5.1}$
Ω_{Λ}	$0.663^{+0.050}_{-0.14}$	r_{drag}	$147.2^{+1.3}_{-1.3}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
Ω_{m}	$0.337^{+0.14}_{-0.050}$	k_{D}	$0.1406^{+0.0014}_{-0.0013}$	χ_{lowl}^2	$23.9 (\nu: 0.8)$
$\Omega_{\text{m}} h^2$	$0.145^{+0.012}_{-0.0065}$	$100\theta_{\text{D}}$	$0.16112^{+0.00069}_{-0.00067}$	χ_{plik}^2	$772.4 (\nu: 16.2)$
$\Omega_{\nu} h^2$	< 0.00901	z_{eq}	3417^{+130}_{-130}	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\Omega_{\text{m}} h^3$	$0.0952^{+0.0020}_{-0.0051}$	k_{eq}	$0.01043^{+0.00041}_{-0.00039}$	χ_{CMB}^2	$1193.1 (\nu: 16.5)$
σ_8	$0.790^{+0.055}_{-0.13}$	$100\theta_{\text{eq}}$	$0.810^{+0.025}_{-0.024}$		
S_8	$0.835^{+0.062}_{-0.066}$	$100\theta_{\text{s,eq}}$	$0.448^{+0.013}_{-0.012}$		
$\bar{\chi}_{\text{eff}}^2 = 1200.49; R - 1 = 0.01089$					

6.3 base_mnu_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022395	$0.02235^{+0.00039}_{-0.00039}$	$\Omega_\nu h^2$	0.00001	< 0.00394	$100\theta_{\text{eq}}$	0.8131	$0.812^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.12003	$0.1202^{+0.0036}_{-0.0035}$	$\Omega_m h^3$	0.09669	$0.0962^{+0.0011}_{-0.0021}$	$100\theta_{\text{s,eq}}$	0.4493	$0.4489^{+0.0075}_{-0.0077}$
$100\theta_{\text{MC}}$	1.04095	$1.04089^{+0.00080}_{-0.00084}$	σ_8	0.8258	$0.807^{+0.035}_{-0.064}$	$H(0.15)$	73.14	$72.4^{+1.8}_{-3.3}$
τ	0.0552	$0.055^{+0.022}_{-0.020}$	S_8	0.8383	$0.833^{+0.043}_{-0.042}$	$D_{\text{M}}(0.15)$	638.9	646^{+34}_{-18}
Σm_ν [eV]	0.001	< 0.367	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4592	$0.456^{+0.023}_{-0.023}$	$H(0.38)$	83.23	$82.7^{+1.3}_{-2.5}$
$\ln(10^{10} A_{\text{s}})$	3.0469	$3.045^{+0.044}_{-0.042}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6158	$0.607^{+0.025}_{-0.038}$	$D_{\text{M}}(0.38)$	1524	1539^{+69}_{-36}
n_{s}	0.9668	$0.965^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	1.002	$0.986^{+0.038}_{-0.066}$	$H(0.51)$	89.94	$89.5^{+1.1}_{-2.0}$
y_{cal}	1.0006	$1.0006^{+0.0064}_{-0.0064}$	$r_{\text{drag}} h$	99.82	$98.6^{+3.5}_{-5.8}$	$D_{\text{M}}(0.51)$	1975	1993^{+81}_{-42}
A_{217}^{CIB}	44.8	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.454	$2.446^{+0.073}_{-0.075}$	$H(0.61)$	95.55	$95.14^{+0.90}_{-1.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.79	—	z_{re}	7.76	$7.7^{+2.1}_{-2.2}$	$D_{\text{M}}(0.61)$	2298	2318^{+79}_{-50}
A_{143}^{tSZ}	6.98	$5.5^{+4.3}_{-4.8}$	$10^9 A_{\text{s}}$	2.105	$2.102^{+0.094}_{-0.087}$	$H(2.33)$	236.28	$236.9^{+3.2}_{-2.3}$
A_{100}^{PS}	246	259^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8851	$1.884^{+0.030}_{-0.030}$	$D_{\text{M}}(2.33)$	5750	5770^{+87}_{-43}
A_{143}^{PS}	51.9	46^{+20}_{-20}	D_{40}	1228.3	1232^{+33}_{-31}	$f\sigma_8(0.15)$	0.4633	$0.460^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	56.3	43^{+20}_{-20}	D_{220}	5730	5732^{+100}_{-98}	$\sigma_8(0.15)$	0.7632	$0.745^{+0.029}_{-0.067}$
A_{217}^{PS}	123.6	115^{+30}_{-30}	D_{810}	2542.2	2540^{+35}_{-35}	$f\sigma_8(0.38)$	0.4823	$0.477^{+0.019}_{-0.026}$
A^{kSZ}	0.0	—	D_{1420}	818.9	817^{+12}_{-12}	$\sigma_8(0.38)$	0.6766	$0.660^{+0.029}_{-0.057}$
A_{100}^{dustTT}	8.82	$8.9^{+4.8}_{-4.7}$	D_{2000}	231.68	$230.9^{+4.0}_{-3.9}$	$f\sigma_8(0.51)$	0.4811	$0.475^{+0.018}_{-0.028}$
A_{143}^{dustTT}	11.02	$10.9^{+4.6}_{-4.5}$	$n_{\text{s},0.002}$	0.9668	$0.965^{+0.011}_{-0.012}$	$\sigma_8(0.51)$	0.6332	$0.617^{+0.027}_{-0.054}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.4}_{-8.7}$	Y_{P}	0.245405	$0.24539^{+0.00015}_{-0.00016}$	$f\sigma_8(0.61)$	0.4761	$0.469^{+0.017}_{-0.030}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246732	$0.24671^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	0.6025	$0.587^{+0.026}_{-0.052}$
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.096}$	$10^5 D/\text{H}$	2.581	$2.590^{+0.073}_{-0.071}$	$f\sigma_8(2.33)$	0.3029	$0.296^{+0.012}_{-0.024}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.077}_{-0.075}$	Age/Gyr	13.766	$13.81^{+0.18}_{-0.10}$	$\sigma_8(2.33)$	0.3128	$0.305^{+0.014}_{-0.028}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	z_*	1089.89	$1089.97^{+0.76}_{-0.70}$	f_{2000}^{143}	28.2	30^{+7}_{-7}
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	r_*	144.41	$144.38^{+0.77}_{-0.78}$	$f_{2000}^{143 \times 217}$	31.68	32^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	1.04110	$1.04110^{+0.00077}_{-0.00080}$	f_{2000}^{217}	106.25	$107.1^{+4.6}_{-4.4}$
A_{217}^{dustTE}	2.08	$2.09^{+0.69}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.871	$13.868^{+0.072}_{-0.075}$	χ_{simall}^2	396.20	$397.2 (\nu: 2.0)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.01	$1059.91^{+0.79}_{-0.78}$	χ_{lowl}^2	23.24	$23.56 (\nu: 0.5)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.06	$147.05^{+0.77}_{-0.78}$	χ_{plik}^2	2343.8	$2360.2 (\nu: 18.0)$
H_0	67.88	$67.0^{+2.1}_{-3.7}$	k_{D}	0.14091	$0.14090^{+0.00086}_{-0.00084}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.2)$
Ω_Λ	0.6909	$0.680^{+0.027}_{-0.052}$	$100\theta_{\text{D}}$	0.160729	$0.16078^{+0.00044}_{-0.00045}$	χ_{CMB}^2	2763.2	$2780.9 (\nu: 18.3)$
Ω_{m}	0.3091	$0.320^{+0.052}_{-0.027}$	z_{eq}	3404	3408^{+82}_{-78}			
$\Omega_{\text{m}} h^2$	0.14244	$0.1436^{+0.0056}_{-0.0038}$	k_{eq}	0.010388	$0.01040^{+0.00025}_{-0.00024}$			

Best-fit $\chi_{\text{eff}}^2 = 2764.74$; $\bar{\chi}_{\text{eff}}^2 = 2792.41$; $R - 1 = 0.01278$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3.2_29: 23.24 plik_rd12_HM_v22b_TTTEEE: 2343.80

6.4 base_mnu_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022502	$0.02250^{+0.00034}_{-0.00038}$	$\Omega_\nu h^2$	0.00001	< 0.00154	$100\theta_{\text{eq}}$	0.8194	$0.819^{+0.011}_{-0.014}$
$\Omega_c h^2$	0.11856	$0.1186^{+0.0033}_{-0.0029}$	$\Omega_m h^3$	0.09671	$0.09662^{+0.00082}_{-0.0010}$	$100\theta_{\text{s,eq}}$	0.4525	$0.4524^{+0.0058}_{-0.0072}$
$100\theta_{\text{MC}}$	1.04112	$1.04114^{+0.00079}_{-0.00075}$	σ_8	0.8207	$0.815^{+0.022}_{-0.033}$	$H(0.15)$	73.72	$73.5^{+1.2}_{-1.5}$
τ	0.0561	$0.057^{+0.021}_{-0.022}$	S_8	0.8209	$0.820^{+0.039}_{-0.038}$	$D_{\text{M}}(0.15)$	633.2	635^{+15}_{-11}
Σm_ν [eV]	0.001	< 0.144	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4496	$0.449^{+0.021}_{-0.021}$	$H(0.38)$	83.65	$83.48^{+0.83}_{-1.2}$
$\ln(10^{10} A_{\text{s}})$	3.0451	$3.047^{+0.043}_{-0.046}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6075	$0.605^{+0.021}_{-0.026}$	$D_{\text{M}}(0.38)$	1512.9	1517^{+31}_{-22}
n_{s}	0.9695	$0.9686^{+0.0093}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9912	$0.987^{+0.030}_{-0.038}$	$H(0.51)$	90.26	$90.13^{+0.74}_{-0.90}$
y_{cal}	1.0006	$1.0006^{+0.0062}_{-0.0064}$	$r_{\text{drag}} h$	101.00	$100.6^{+2.3}_{-2.9}$	$D_{\text{M}}(0.51)$	1961.6	1967^{+36}_{-26}
A_{217}^{CIB}	45.7	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.431	$2.431^{+0.070}_{-0.074}$	$H(0.61)$	95.80	$95.69^{+0.61}_{-0.76}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.65	—	z_{re}	7.80	$7.9^{+1.9}_{-2.3}$	$D_{\text{M}}(0.61)$	2284.0	2290^{+39}_{-28}
A_{143}^{tSZ}	7.17	> 0.909	$10^9 A_{\text{s}}$	2.101	$2.105^{+0.092}_{-0.095}$	$H(2.33)$	235.43	$235.6^{+2.1}_{-1.7}$
A_{100}^{PS}	247	257^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8782	$1.878^{+0.031}_{-0.032}$	$D_{\text{M}}(2.33)$	5739.4	5745^{+38}_{-26}
A_{143}^{PS}	49.5	45^{+20}_{-20}	D_{40}	1222.5	1225^{+32}_{-28}	$f\sigma_8(0.15)$	0.4544	$0.454^{+0.020}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	52.6	42^{+20}_{-20}	D_{220}	5740	5742^{+95}_{-99}	$\sigma_8(0.15)$	0.7593	$0.754^{+0.020}_{-0.031}$
A_{217}^{PS}	121.7	115^{+20}_{-30}	D_{810}	2540.1	2539^{+35}_{-36}	$f\sigma_8(0.38)$	0.4754	$0.474^{+0.016}_{-0.020}$
A^{kSZ}	0.0	—	D_{1420}	819.1	818^{+12}_{-13}	$\sigma_8(0.38)$	0.6741	$0.669^{+0.018}_{-0.028}$
A_{100}^{dustTT}	8.84	$8.9^{+4.5}_{-4.4}$	D_{2000}	231.79	$231.5^{+3.8}_{-4.1}$	$f\sigma_8(0.51)$	0.4752	$0.474^{+0.015}_{-0.019}$
A_{143}^{dustTT}	11.08	$10.9^{+4.3}_{-4.3}$	$n_{\text{s},0.002}$	0.9695	$0.9686^{+0.0093}_{-0.011}$	$\sigma_8(0.51)$	0.6313	$0.627^{+0.017}_{-0.026}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.4^{+8.3}_{-8.6}$	Y_{P}	0.245445	$0.24544^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	0.4711	$0.469^{+0.014}_{-0.017}$
A_{217}^{dustTT}	95.6	93^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246772	$0.24677^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.6010	$0.597^{+0.016}_{-0.025}$
A_{100}^{dustTE}	0.113	$0.114^{+0.099}_{-0.087}$	$10^5 D/\text{H}$	2.562	$2.563^{+0.071}_{-0.061}$	$f\sigma_8(2.33)$	0.3025	$0.3008^{+0.0075}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.076}_{-0.080}$	Age/Gyr	13.743	$13.756^{+0.086}_{-0.059}$	$\sigma_8(2.33)$	0.3128	$0.3106^{+0.0077}_{-0.013}$
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.23}_{-0.22}$	z_*	1089.62	$1089.64^{+0.67}_{-0.52}$	f_{2000}^{143}	28.1	29^{+7}_{-6}
A_{143}^{dustTE}	0.223	$0.22^{+0.16}_{-0.13}$	r_*	144.71	$144.70^{+0.66}_{-0.74}$	$f_{2000}^{143 \times 217}$	31.58	32^{+4}_{-4}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.19}_{-0.20}$	$100\theta_*$	1.04127	$1.04130^{+0.00078}_{-0.00072}$	f_{2000}^{217}	106.14	$106.6^{+4.4}_{-4.1}$
A_{217}^{dustTE}	2.07	$2.08^{+0.68}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.897	$13.896^{+0.063}_{-0.069}$	χ_{simall}^2	396.2	$397.5 (\nu: 2.4)$
c_{100}	0.99974	$0.9997^{+0.0015}_{-0.0015}$	z_{drag}	1060.12	$1060.12^{+0.69}_{-0.76}$	χ_{lowl}^2	22.73	$22.98 (\nu: 0.4)$
c_{217}	0.99817	$0.9982^{+0.0015}_{-0.0015}$	r_{drag}	147.33	$147.33^{+0.70}_{-0.74}$	χ_{plik}^2	2345.3	$2360.3 (\nu: 17.5)$
H_0	68.55	$68.3^{+1.3}_{-1.8}$	k_{D}	0.14071	$0.14071^{+0.00080}_{-0.00077}$	χ_{H073p45}^2	8.7	$9.8 (\nu: 2.8)$
Ω_Λ	0.6998	$0.697^{+0.017}_{-0.023}$	$100\theta_{\text{D}}$	0.160656	$0.16067^{+0.00044}_{-0.00040}$	χ_{prior}^2	1.7	$11.3 (\nu: 10.2)$
Ω_{m}	0.3002	$0.303^{+0.023}_{-0.017}$	z_{eq}	3371	3372^{+75}_{-58}	χ_{CMB}^2	2764.2	$2780.7 (\nu: 17.6)$
$\Omega_{\text{m}} h^2$	0.14107	$0.1415^{+0.0033}_{-0.0028}$	k_{eq}	0.010288	$0.01029^{+0.00023}_{-0.00018}$			

Best-fit $\chi_{\text{eff}}^2 = 2774.59$; $\bar{\chi}_{\text{eff}}^2 = 2801.83$; $R - 1 = 0.06998$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.23 commander_dx12_v3.2_29: 22.73 plik_rd12_HM_v22b_TTTEEE: 2345.26 Hubble - H073p45: 8.71

6.5 base_mnu_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02235^{+0.00039}_{-0.00038}$	$\Omega_\nu h^2$	< 0.00394	$100\theta_{\text{eq}}$	$0.812^{+0.015}_{-0.015}$
$\Omega_c h^2$	$0.1202^{+0.0037}_{-0.0034}$	$\Omega_m h^3$	$0.0962^{+0.0011}_{-0.0021}$	$100\theta_{\text{s,eq}}$	$0.4490^{+0.0076}_{-0.0078}$
$100\theta_{\text{MC}}$	$1.04090^{+0.00080}_{-0.00084}$	σ_8	$0.808^{+0.034}_{-0.063}$	$H(0.15)$	$72.4^{+1.8}_{-3.2}$
τ	$0.056^{+0.020}_{-0.014}$	S_8	$0.833^{+0.042}_{-0.042}$	$D_{\text{M}}(0.15)$	646^{+33}_{-18}
$\Sigma m_\nu [\text{eV}]$	< 0.367	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.456^{+0.023}_{-0.023}$	$H(0.38)$	$82.7^{+1.3}_{-2.4}$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.043}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.607^{+0.025}_{-0.038}$	$D_{\text{M}}(0.38)$	1539^{+68}_{-36}
n_{s}	$0.965^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.986^{+0.038}_{-0.065}$	$H(0.51)$	$89.5^{+1.1}_{-2.0}$
y_{cal}	$1.0006^{+0.0064}_{-0.0064}$	$r_{\text{drag}} h$	$98.6^{+3.4}_{-5.7}$	$D_{\text{M}}(0.51)$	1993^{+80}_{-42}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.072}_{-0.074}$	$H(0.61)$	$95.15^{+0.91}_{-1.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.60	$D_{\text{M}}(0.61)$	2318^{+86}_{-46}
A_{143}^{tSZ}	$5.5^{+4.3}_{-4.9}$	$10^9 A_{\text{s}}$	$2.106^{+0.091}_{-0.063}$	$H(2.33)$	$236.8^{+3.2}_{-2.3}$
A_{100}^{PS}	258^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.884^{+0.030}_{-0.030}$	$D_{\text{M}}(2.33)$	5770^{+77}_{-47}
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1232^{+33}_{-31}	$f\sigma_8(0.15)$	$0.461^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{220}	5732^{+99}_{-98}	$\sigma_8(0.15)$	$0.746^{+0.029}_{-0.067}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2540^{+35}_{-34}	$f\sigma_8(0.38)$	$0.477^{+0.019}_{-0.026}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.660^{+0.028}_{-0.057}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	D_{2000}	$230.9^{+4.0}_{-3.9}$	$f\sigma_8(0.51)$	$0.475^{+0.018}_{-0.028}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	$0.965^{+0.011}_{-0.012}$	$\sigma_8(0.51)$	$0.617^{+0.027}_{-0.054}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.7}$	Y_{P}	$0.24539^{+0.00015}_{-0.00016}$	$f\sigma_8(0.61)$	$0.469^{+0.017}_{-0.030}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	$0.587^{+0.025}_{-0.052}$
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.096}$	$10^5 \text{D}/\text{H}$	$2.589^{+0.073}_{-0.071}$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.027}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.074}$	Age/Gyr	$13.81^{+0.20}_{-0.096}$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.031}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.96^{+0.76}_{-0.70}$	f_{2000}^{143}	30^{+7}_{-7}
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	r_*	$144.39^{+0.77}_{-0.79}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	$1.04110^{+0.00077}_{-0.00081}$	f_{2000}^{217}	$107.1^{+4.6}_{-4.4}$
A_{217}^{dustTE}	$2.09^{+0.69}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.869^{+0.072}_{-0.075}$	χ_{simall}^2	$397.2 (\nu: 2.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.91^{+0.78}_{-0.74}$	χ_{lowl}^2	$23.57 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.05^{+0.77}_{-0.78}$	χ_{plik}^2	$2360.0 (\nu: 17.8)$
H_0	$67.0^{+2.1}_{-3.7}$	k_{D}	$0.14090^{+0.00086}_{-0.00084}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{Λ}	$0.680^{+0.027}_{-0.051}$	$100\theta_{\text{D}}$	$0.16077^{+0.00044}_{-0.00045}$	χ_{CMB}^2	$2780.7 (\nu: 18.0)$
Ω_{m}	$0.320^{+0.051}_{-0.027}$	z_{eq}	3407^{+83}_{-78}		
$\Omega_{\text{m}} h^2$	$0.1435^{+0.0055}_{-0.0037}$	k_{eq}	$0.01040^{+0.00025}_{-0.00024}$		

$$\bar{\chi}_{\text{eff}}^2 = 2792.20; R - 1 = 0.01347$$

6.6 base_mnu_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02250^{+0.00034}_{-0.00038}$	$\Omega_\nu h^2$	< 0.00155	$100\theta_{\text{eq}}$	$0.819^{+0.011}_{-0.014}$
$\Omega_c h^2$	$0.1186^{+0.0033}_{-0.0029}$	$\Omega_m h^3$	$0.09662^{+0.00082}_{-0.0010}$	$100\theta_{\text{s,eq}}$	$0.4525^{+0.0057}_{-0.0072}$
$100\theta_{\text{MC}}$	$1.04114^{+0.00079}_{-0.00075}$	σ_8	$0.816^{+0.022}_{-0.033}$	$H(0.15)$	$73.5^{+1.1}_{-1.5}$
τ	$0.058^{+0.020}_{-0.016}$	S_8	$0.820^{+0.039}_{-0.038}$	$D_{\text{M}}(0.15)$	635^{+15}_{-11}
$\Sigma m_\nu [\text{eV}]$	< 0.144	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.449^{+0.021}_{-0.021}$	$H(0.38)$	$83.49^{+0.91}_{-1.1}$
$\ln(10^{10} A_{\text{s}})$	$3.048^{+0.042}_{-0.033}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.605^{+0.021}_{-0.027}$	$D_{\text{M}}(0.38)$	1517^{+31}_{-22}
n_{s}	$0.9687^{+0.0092}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.987^{+0.030}_{-0.038}$	$H(0.51)$	$90.13^{+0.74}_{-0.90}$
y_{cal}	$1.0006^{+0.0062}_{-0.0064}$	$r_{\text{drag}} h$	$100.7^{+2.3}_{-2.9}$	$D_{\text{M}}(0.51)$	1966^{+36}_{-26}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.069}_{-0.075}$	$H(0.61)$	$95.69^{+0.61}_{-0.76}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.66	$D_{\text{M}}(0.61)$	2289^{+39}_{-28}
A_{143}^{tSZ}	> 0.936	$10^9 A_{\text{s}}$	$2.108^{+0.091}_{-0.070}$	$H(2.33)$	$235.6^{+2.1}_{-1.7}$
A_{100}^{PS}	257^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.030}_{-0.032}$	$D_{\text{M}}(2.33)$	5745^{+38}_{-26}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1225^{+32}_{-28}	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5742^{+95}_{-99}	$\sigma_8(0.15)$	$0.755^{+0.020}_{-0.031}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2539^{+35}_{-36}	$f\sigma_8(0.38)$	$0.474^{+0.016}_{-0.020}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.38)$	$0.670^{+0.018}_{-0.028}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.4}$	D_{2000}	$231.5^{+3.8}_{-4.1}$	$f\sigma_8(0.51)$	$0.474^{+0.015}_{-0.019}$
A_{143}^{dustTT}	$10.9^{+4.4}_{-4.3}$	$n_{\text{s},0.002}$	$0.9687^{+0.0092}_{-0.011}$	$\sigma_8(0.51)$	$0.627^{+0.017}_{-0.026}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.2}_{-8.6}$	Y_{P}	$0.24544^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	$0.470^{+0.014}_{-0.018}$
A_{217}^{dustTT}	93^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24677^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.597^{+0.016}_{-0.025}$
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.088}$	$10^5 \text{D}/\text{H}$	$2.562^{+0.070}_{-0.061}$	$f\sigma_8(2.33)$	$0.3009^{+0.0073}_{-0.011}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.077}_{-0.082}$	Age/Gyr	$13.756^{+0.087}_{-0.059}$	$\sigma_8(2.33)$	$0.3108^{+0.0076}_{-0.013}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	z_*	$1089.63^{+0.64}_{-0.56}$	f_{2000}^{143}	29^{+7}_{-6}
A_{143}^{dustTE}	$0.22^{+0.16}_{-0.13}$	r_*	$144.71^{+0.66}_{-0.74}$	$f_{2000}^{143 \times 217}$	32^{+4}_{-4}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.19}_{-0.20}$	$100\theta_*$	$1.04130^{+0.00078}_{-0.00072}$	f_{2000}^{217}	$106.5^{+4.5}_{-4.0}$
A_{217}^{dustTE}	$2.07^{+0.64}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.897^{+0.063}_{-0.069}$	χ_{simall}^2	$397.5 (\nu: 2.5)$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	z_{drag}	$1060.13^{+0.68}_{-0.73}$	χ_{lowl}^2	$22.98 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	r_{drag}	$147.33^{+0.70}_{-0.74}$	χ_{plik}^2	$2360.1 (\nu: 17.2)$
H_0	$68.3^{+1.3}_{-1.8}$	k_{D}	$0.14071^{+0.00080}_{-0.00077}$	χ_{H073p45}^2	$9.7 (\nu: 2.7)$
Ω_{Λ}	$0.697^{+0.017}_{-0.023}$	$100\theta_{\text{D}}$	$0.16067^{+0.00044}_{-0.00039}$	χ_{prior}^2	$11.3 (\nu: 10.2)$
Ω_{m}	$0.303^{+0.023}_{-0.017}$	z_{eq}	3371^{+74}_{-66}	χ_{CMB}^2	$2780.6 (\nu: 17.3)$
$\Omega_{\text{m}} h^2$	$0.1414^{+0.0033}_{-0.0028}$	k_{eq}	$0.01029^{+0.00023}_{-0.00020}$		

$$\bar{\chi}_{\text{eff}}^2 = 2801.63; R - 1 = 0.07310$$

6.7 base_mnu_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02214	$0.02205^{+0.00063}_{-0.00067}$ (+0.0 σ)	S_8	0.841	$0.833^{+0.067}_{-0.068}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4485	$0.448^{+0.013}_{-0.012}$ (+0.0 σ)
$\Omega_c h^2$	0.1205	$0.1210^{+0.0059}_{-0.0057}$ (−0.0 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4607	$0.456^{+0.037}_{-0.037}$ (−0.1 σ)	$H(0.15)$	72.8	$71.2^{+3.1}_{-6.8}$ (−0.0 σ)
$100\theta_{MC}$	1.04085	$1.0407^{+0.0013}_{-0.0014}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.616	$0.599^{+0.041}_{-0.073}$ (−0.1 σ)	$D_M(0.15)$	642	659^{+70}_{-35} (+0.0 σ)
τ	0.0507	$0.052^{+0.023}_{-0.021}$ (+0.0 σ)	$\sigma_8/h^{0.5}$	1.002	$0.971^{+0.062}_{-0.13}$ (−0.1 σ)	$H(0.38)$	82.92	$81.7^{+2.3}_{-5.1}$ (−0.0 σ)
Σm_ν [eV]	0.001	< 0.856 (+0.0 σ)	$r_{drag} h$	99.3	$96.7^{+6.0}_{-12}$ (−0.0 σ)	$D_M(0.38)$	1532	1564^{+140}_{-71} (+0.0 σ)
$\ln(10^{10} A_s)$	3.0361	$3.039^{+0.045}_{-0.042}$ (−0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.454	$2.444^{+0.099}_{-0.097}$ (−0.1 σ)	$H(0.51)$	89.66	$88.7^{+1.9}_{-4.1}$ (−0.0 σ)
n_s	0.9637	$0.962^{+0.016}_{-0.017}$ (+0.1 σ)	z_{re}	7.36	$7.5^{+2.2}_{-2.4}$ (+0.0 σ)	$D_M(0.51)$	1984	2022^{+180}_{-75} (+0.0 σ)
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0066}$ (−0.0 σ)	$10^9 A_s$	2.082	$2.088^{+0.096}_{-0.087}$ (−0.1 σ)	$H(0.61)$	95.30	$94.5^{+1.6}_{-3.4}$ (−0.0 σ)
A_{100}^{PS}	239	244^{+60}_{-70} (−0.7 σ)	$10^9 A_s e^{-2\tau}$	1.8816	$1.883^{+0.036}_{-0.034}$ (−0.2 σ)	$D_M(0.61)$	2308	2350^{+200}_{-82} (+0.0 σ)
A_{143}^{PS}	39	42^{+20}_{-20} (−1.0 σ)	D_{40}	1229.4	1230^{+39}_{-38} (−0.3 σ)	$H(2.33)$	236.3	$237.6^{+6.8}_{-4.0}$ (+0.0 σ)
A_{217}^{PS}	99.7	101^{+30}_{-40} (−1.4 σ)	D_{220}	5703	5701^{+110}_{-110} (−0.3 σ)	$D_M(2.33)$	5763	5806^{+170}_{-85} (+0.0 σ)
A_{217}^{CIB}	44.5	41^{+20}_{-20} (−1.0 σ)	D_{810}	2533.4	2535^{+35}_{-37} (−0.2 σ)	$f\sigma_8(0.15)$	0.4644	$0.460^{+0.034}_{-0.038}$ (−0.1 σ)
A_{143}^{tSZ}	5.47	< 8.55 (−0.7 σ)	D_{1420}	813.9	814^{+14}_{-13} (−0.1 σ)	$\sigma_8(0.15)$	0.760	$0.725^{+0.053}_{-0.13}$ (−0.0 σ)
$r_{143 \times 217}^{PS}$	0.578	$0.65^{+0.31}_{-0.32}$	D_{2000}	229.6	$229.1^{+5.0}_{-5.1}$ (−0.0 σ)	$f\sigma_8(0.38)$	0.4824	$0.472^{+0.030}_{-0.054}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.71	—	$n_{s,0.002}$	0.9637	$0.962^{+0.016}_{-0.017}$ (+0.1 σ)	$\sigma_8(0.38)$	0.673	$0.641^{+0.048}_{-0.12}$ (−0.0 σ)
$\xi^{tSZ \times CIB}$	0.04	—	Y_P	0.245303	$0.24526^{+0.00025}_{-0.00031}$ (+0.0 σ)	$f\sigma_8(0.51)$	0.4807	$0.468^{+0.029}_{-0.061}$ (−0.1 σ)
A^{kSZ}	1.8	—	Y_P^{BBN}	0.246629	$0.24658^{+0.00025}_{-0.00031}$ (+0.0 σ)	$\sigma_8(0.51)$	0.630	$0.599^{+0.045}_{-0.11}$ (−0.0 σ)
A_{100}^{dust}	1.014	$1.01^{+0.50}_{-0.49}$	$10^5 D/H$	2.629	$2.65^{+0.13}_{-0.12}$ (−0.0 σ)	$f\sigma_8(0.61)$	0.4755	$0.462^{+0.028}_{-0.066}$ (−0.1 σ)
A_{143}^{dust}	0.980	$0.98^{+0.44}_{-0.45}$	Age/Gyr	13.796	$13.90^{+0.40}_{-0.19}$ (+0.0 σ)	$\sigma_8(0.61)$	0.599	$0.569^{+0.043}_{-0.11}$ (−0.0 σ)
A_{217}^{dust}	0.965	$0.97^{+0.26}_{-0.27}$	z_*	1090.25	$1090.4^{+1.5}_{-1.1}$ (−0.0 σ)	$f\sigma_8(2.33)$	0.3011	$0.288^{+0.020}_{-0.053}$ (−0.0 σ)
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.42}_{-0.41}$	r_*	144.48	$144.4^{+1.3}_{-1.4}$ (+0.0 σ)	$\sigma_8(2.33)$	0.3108	$0.295^{+0.023}_{-0.060}$ (−0.0 σ)
c_{100}	0.99748	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_*$	1.04102	$1.0410^{+0.0012}_{-0.0012}$ (+0.1 σ)	f_{2000}^{143}	30.8	31^{+8}_{-8} (−0.1 σ)
c_{217}	1.00139	$1.0013^{+0.0041}_{-0.0041}$ (+4.8 σ)	$D_M(z_*)/\text{Gpc}$	13.878	$13.87^{+0.12}_{-0.13}$ (−0.0 σ)	f_{2000}^{217}	107.4	$108.0^{+5.9}_{-5.5}$ (−0.3 σ)
H_0	67.5	$65.7^{+3.6}_{-8.0}$ (−0.0 σ)	z_{drag}	1059.44	$1059.3^{+1.3}_{-1.3}$ (+0.0 σ)	$f_{2000}^{143 \times 217}$	32.9	34^{+6}_{-6} (−0.3 σ)
Ω_Λ	0.687	$0.662^{+0.055}_{-0.11}$ (−0.0 σ)	r_{drag}	147.22	$147.2^{+1.3}_{-1.3}$ (+0.0 σ)	χ_{small}^2	395.71	397.0 (ν : 1.6) (+0.0 σ)
Ω_m	0.313	$0.338^{+0.11}_{-0.055}$ (+0.0 σ)	k_D	0.14056	$0.1406^{+0.0014}_{-0.0013}$ (+0.0 σ)	χ_{lowl}^2	23.54	23.6 (ν : 0.8) (−0.2 σ)
$\Omega_m h^2$	0.1427	$0.145^{+0.012}_{-0.0065}$ (+0.0 σ)	$100\theta_D$	0.16105	$0.16112^{+0.00072}_{-0.00071}$ (−0.0 σ)	$\chi_{CamSpec}^2$	7049.7	7064.5 (ν : 16.3)
$\Omega_\nu h^2$	0.00001	< 0.00921 (+0.0 σ)	z_{eq}	3409	3418^{+130}_{-130} (−0.0 σ)	χ_{prior}^2	2.3	7.7 (ν : 6.1) (+0.1 σ)
$\Omega_m h^3$	0.09626	$0.0952^{+0.0020}_{-0.0050}$ (−0.0 σ)	k_{eq}	0.010405	$0.01043^{+0.00041}_{-0.00039}$ (−0.0 σ)	χ_{CMB}^2	7469.0	7485.1 (ν : 16.9) (+1082.8 σ)
σ_8	0.823	$0.787^{+0.057}_{-0.13}$ (−0.0 σ)	$100\theta_{eq}$	0.8113	$0.810^{+0.025}_{-0.024}$ (+0.0 σ)			

Best-fit $\chi_{eff}^2 = 7471.23$; $\Delta\chi_{eff}^2 = 6292.27$; $\bar{\chi}_{eff}^2 = 7492.77$; $\Delta\bar{\chi}_{eff}^2 = 6292.03$; $R - 1 = 0.00611$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.71 (Δ -0.16) commander_dx12.v3.2.29: 23.54 (Δ -0.12) CamSpec like_10.7HM: 7049.70

6.8 base_mnu_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02206^{+0.00062}_{-0.00069} \quad (+0.0\sigma)$	S_8	$0.833^{+0.068}_{-0.067} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1209^{+0.0059}_{-0.0056} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.037}_{-0.036} \quad (-0.1\sigma)$	$H(0.15)$	$71.3^{+3.1}_{-6.9} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0013}_{-0.0014} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.599^{+0.041}_{-0.073} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$658^{+71}_{-35} \quad (+0.0\sigma)$
τ	$0.053^{+0.020}_{-0.013} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.972^{+0.062}_{-0.13} \quad (-0.1\sigma)$	$H(0.38)$	$81.8^{+2.4}_{-5.1} \quad (-0.0\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.856 \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$96.7^{+6.0}_{-12} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1564^{+160}_{-64} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.043}_{-0.029} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.098}_{-0.095} \quad (-0.1\sigma)$	$H(0.51)$	$88.7^{+1.9}_{-4.1} \quad (-0.0\sigma)$
n_{s}	$0.962^{+0.016}_{-0.017} \quad (+0.1\sigma)$	z_{re}	$< 9.53 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$2022^{+180}_{-76} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.092}_{-0.061} \quad (-0.1\sigma)$	$H(0.61)$	$94.5^{+1.6}_{-3.4} \quad (-0.0\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.036}_{-0.034} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2349^{+200}_{-82} \quad (+0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1230^{+38}_{-38} \quad (-0.3\sigma)$	$H(2.33)$	$237.5^{+6.8}_{-4.0} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{220}	$5701^{+110}_{-110} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5806^{+170}_{-85} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-37} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.460^{+0.034}_{-0.037} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.55 \quad (-0.7\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.726^{+0.052}_{-0.13} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	D_{2000}	$229.2^{+5.0}_{-5.1} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.031}_{-0.053} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.962^{+0.016}_{-0.017} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.642^{+0.047}_{-0.12} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24526^{+0.00025}_{-0.00031} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.029}_{-0.061} \quad (-0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24659^{+0.00025}_{-0.00032} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.600^{+0.044}_{-0.12} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.14}_{-0.12} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.462^{+0.028}_{-0.066} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.44}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.90^{+0.40}_{-0.19} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.570^{+0.042}_{-0.11} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	z_*	$1090.4^{+1.5}_{-1.1} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.288^{+0.020}_{-0.053} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	r_*	$144.4^{+1.3}_{-1.4} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.295^{+0.023}_{-0.060} \quad (-0.0\sigma)$
c_{100}	$0.9974^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.12}_{-0.13} \quad (-0.0\sigma)$	f_{2000}^{217}	$108.0^{+5.7}_{-5.5} \quad (-0.3\sigma)$
H_0	$65.7^{+3.6}_{-8.0} \quad (-0.0\sigma)$	z_{drag}	$1059.3^{+1.2}_{-1.3} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
Ω_{Λ}	$0.663^{+0.055}_{-0.11} \quad (-0.0\sigma)$	r_{drag}	$147.2^{+1.3}_{-1.3} \quad (+0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.6) \quad (+0.0\sigma)$
Ω_{m}	$0.337^{+0.11}_{-0.055} \quad (+0.0\sigma)$	k_{D}	$0.1406^{+0.0014}_{-0.0013} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.6 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.145^{+0.012}_{-0.0065} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16112^{+0.00071}_{-0.00071} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.4 \quad (\nu: 16.1)$
$\Omega_{\nu} h^2$	$< 0.00921 \quad (+0.0\sigma)$	z_{eq}	$3416^{+130}_{-130} \quad (-0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0952^{+0.0020}_{-0.0050} \quad (-0.0\sigma)$	k_{eq}	$0.01043^{+0.00041}_{-0.00039} \quad (-0.0\sigma)$	χ_{CMB}^2	$7484.8 \quad (\nu: 16.4) \quad (+1094.4\sigma)$
σ_8	$0.788^{+0.056}_{-0.13} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.024}_{-0.024} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7492.51; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.02; R - 1 = 0.00841$$

6.9 base_mnu_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022312	$0.02227^{+0.00045}_{-0.00044} \quad (-0.6\sigma)$	σ_8	0.821	$0.795^{+0.044}_{-0.096} \quad (-0.6\sigma)$	$100\theta_{s,eq}$	0.4505	$0.4502^{+0.0079}_{-0.0077} \quad (+0.4\sigma)$
$\Omega_c h^2$	0.11951	$0.1197^{+0.0036}_{-0.0036} \quad (-0.4\sigma)$	S_8	0.8298	$0.822^{+0.043}_{-0.050} \quad (-0.6\sigma)$	$H(0.15)$	73.22	$72.2^{+2.1}_{-4.7} \quad (-0.3\sigma)$
$100\theta_{MC}$	1.04093	$1.04082^{+0.00088}_{-0.00089} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4545	$0.450^{+0.024}_{-0.027} \quad (-0.6\sigma)$	$D_M(0.15)$	638.0	$649^{+44}_{-24} \quad (+0.2\sigma)$
τ	0.0522	$0.053^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6107	$0.598^{+0.029}_{-0.057} \quad (-0.7\sigma)$	$H(0.38)$	83.26	$82.4^{+1.6}_{-3.5} \quad (-0.3\sigma)$
Σm_ν [eV]	0.001	$< 0.570 \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	0.995	$0.972^{+0.045}_{-0.10} \quad (-0.7\sigma)$	$D_M(0.38)$	1523	$1544^{+89}_{-48} \quad (+0.3\sigma)$
$\ln(10^{10} A_s)$	3.0374	$3.039^{+0.043}_{-0.043} \quad (-0.4\sigma)$	$r_{drag} h$	100.1	$98.4^{+4.0}_{-8.2} \quad (-0.1\sigma)$	$H(0.51)$	89.94	$89.2^{+1.3}_{-2.9} \quad (-0.4\sigma)$
n_s	0.9667	$0.965^{+0.012}_{-0.013} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.428^{+0.073}_{-0.074} \quad (-0.6\sigma)$	$D_M(0.51)$	1973	$1999^{+110}_{-57} \quad (+0.3\sigma)$
y_{cal}	1.0003	$1.0006^{+0.0062}_{-0.0064} \quad (-0.0\sigma)$	z_{re}	7.46	$7.5^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	95.53	$94.9^{+1.1}_{-2.5} \quad (-0.4\sigma)$
A_{100}^{PS}	231	$241^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_s$	2.085	$2.088^{+0.093}_{-0.088} \quad (-0.4\sigma)$	$D_M(0.61)$	2297	$2325^{+110}_{-61} \quad (+0.3\sigma)$
A_{143}^{PS}	45.8	$40^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	1.8786	$1.879^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$H(2.33)$	235.85	$236.6^{+4.0}_{-2.6} \quad (-0.2\sigma)$
A_{217}^{PS}	103.5	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	1224.5	$1227^{+33}_{-33} \quad (-0.4\sigma)$	$D_M(2.33)$	5753	$5782^{+130}_{-53} \quad (+0.5\sigma)$
A_{217}^{CIB}	43.3	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5717	$5720^{+98}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4587	$0.455^{+0.022}_{-0.028} \quad (-0.7\sigma)$
A_{143}^{tSZ}	6.55	$< 8.87 \quad (-0.9\sigma)$	D_{810}	2535.3	$2536^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.759	$0.733^{+0.041}_{-0.093} \quad (-0.6\sigma)$
$r_{143 \times 217}^{PS}$	0.674	$0.65^{+0.31}_{-0.33}$	D_{1420}	816.0	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4782	$0.471^{+0.021}_{-0.039} \quad (-0.7\sigma)$
$r_{143 \times 217}^{CIB}$	0.85	—	D_{2000}	230.50	$230.1^{+4.2}_{-4.4} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	0.673	$0.649^{+0.037}_{-0.086} \quad (-0.6\sigma)$
$\xi^{tSZ \times CIB}$	0.49	—	$n_{s,0.002}$	0.9667	$0.965^{+0.012}_{-0.013} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4772	$0.468^{+0.021}_{-0.045} \quad (-0.7\sigma)$
A^{kSZ}	0.0	—	Y_P	0.245372	$0.24535^{+0.00017}_{-0.00020} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.630	$0.607^{+0.035}_{-0.083} \quad (-0.6\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	Y_P^{BBN}	0.246698	$0.24668^{+0.00017}_{-0.00020} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	0.4725	$0.463^{+0.020}_{-0.048} \quad (-0.7\sigma)$
A_{143}^{dust}	0.981	$0.97^{+0.46}_{-0.46}$	$10^5 D/H$	2.597	$2.606^{+0.085}_{-0.081} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	0.599	$0.578^{+0.034}_{-0.080} \quad (-0.6\sigma)$
A_{217}^{dust}	0.976	$0.97^{+0.26}_{-0.26}$	Age/Gyr	13.773	$13.84^{+0.30}_{-0.12} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.3013	$0.292^{+0.016}_{-0.037} \quad (-0.6\sigma)$
$A_{143 \times 217}^{dust}$	1.005	$1.03^{+0.41}_{-0.40}$	z_*	1089.95	$1090.04^{+0.86}_{-0.77} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3113	$0.300^{+0.018}_{-0.043} \quad (-0.6\sigma)$
c_{100}	0.99774	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.61	$144.57^{+0.81}_{-0.83} \quad (+0.6\sigma)$	f_{2000}^{143}	29.8	$30^{+8}_{-7} \quad (+0.2\sigma)$
c_{217}	1.00133	$1.0011^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_*$	1.04108	$1.04105^{+0.00084}_{-0.00083} \quad (-0.1\sigma)$	f_{2000}^{217}	106.5	$107.2^{+5.1}_{-5.1} \quad (+0.0\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.013}$	$D_M(z_*)/\text{Gpc}$	13.890	$13.887^{+0.075}_{-0.077} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (+0.1\sigma)$
c_{EE}	0.9923	$0.992^{+0.013}_{-0.013}$	z_{drag}	1059.78	$1059.68^{+0.90}_{-0.89} \quad (-0.7\sigma)$	χ_{small}^2	395.78	$396.9 (\nu: 1.5) \quad (-0.1\sigma)$
H_0	67.99	$66.8^{+2.4}_{-5.3} \quad (-0.2\sigma)$	r_{drag}	147.29	$147.27^{+0.81}_{-0.82} \quad (+0.7\sigma)$	χ_{lowl}^2	23.03	$23.13 (\nu: 0.4) \quad (-0.4\sigma)$
Ω_Λ	0.693	$0.678^{+0.032}_{-0.077} \quad (-0.2\sigma)$	k_D	0.14061	$0.14061^{+0.00090}_{-0.00091} \quad (-0.9\sigma)$	$\chi_{CamSpec}^2$	11499.2	$11515.5 (\nu: 18.2)$
Ω_m	0.307	$0.322^{+0.077}_{-0.032} \quad (+0.2\sigma)$	$100\theta_D$	0.16086	$0.16089^{+0.00050}_{-0.00052} \quad (+0.7\sigma)$	χ_{prior}^2	2.1	$7.8 (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.1418	$0.1434^{+0.0072}_{-0.0043} \quad (-0.1\sigma)$	z_{eq}	3389	$3393^{+81}_{-80} \quad (-0.5\sigma)$	χ_{CMB}^2	11918.0	$11935.6 (\nu: 18.8) \quad (+1511.7\sigma)$
$\Omega_\nu h^2$	0.00001	$< 0.00613 \quad (+0.5\sigma)$	k_{eq}	0.010344	$0.01036^{+0.00025}_{-0.00024} \quad (-0.5\sigma)$			
$\Omega_m h^3$	0.09642	$0.0957^{+0.0014}_{-0.0034} \quad (-0.8\sigma)$	$100\theta_{eq}$	0.8154	$0.815^{+0.015}_{-0.015} \quad (+0.4\sigma)$			

Best-fit $\chi_{eff}^2 = 11920.07$; $\Delta\chi_{eff}^2 = 9155.33$; $\bar{\chi}_{eff}^2 = 11943.39$; $\Delta\bar{\chi}_{eff}^2 = 9150.98$; $R - 1 = 0.01661$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.78 (Δ -0.42) commander_dx12.v3.2.29: 23.03 (Δ -0.21) CamSpec like_10.7HM.1400.unified: 11499.19

6.10 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00040}_{-0.00039} \quad (-0.5\sigma)$	σ_8	$0.810^{+0.023}_{-0.033} \quad (-0.5\sigma)$	$100\theta_{s,eq}$	$0.4539^{+0.0067}_{-0.0073} \quad (+0.6\sigma)$
$\Omega_c h^2$	$0.1180^{+0.0033}_{-0.0028} \quad (-0.5\sigma)$	S_8	$0.811^{+0.040}_{-0.035} \quad (-0.6\sigma)$	$H(0.15)$	$73.6^{+1.5}_{-1.6} \quad (+0.2\sigma)$
$100\theta_{MC}$	$1.04110^{+0.00090}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.022}_{-0.019} \quad (-0.6\sigma)$	$D_M(0.15)$	$634^{+16}_{-14} \quad (-0.2\sigma)$
τ	$0.055^{+0.023}_{-0.024} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.600^{+0.022}_{-0.022} \quad (-0.6\sigma)$	$H(0.38)$	$83.5^{+1.1}_{-1.2} \quad (+0.1\sigma)$
$\Sigma m_\nu [\text{eV}]$	$< 0.157 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.032}_{-0.035} \quad (-0.6\sigma)$	$D_M(0.38)$	$1516^{+32}_{-28} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.040^{+0.044}_{-0.044} \quad (-0.4\sigma)$	$r_{\text{drag}} h$	$101.0^{+2.7}_{-3.0} \quad (+0.3\sigma)$	$H(0.51)$	$90.13^{+0.91}_{-1.0} \quad (+0.0\sigma)$
n_s	$0.970^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.414^{+0.072}_{-0.071} \quad (-0.6\sigma)$	$D_M(0.51)$	$1965^{+38}_{-34} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0059}_{-0.0067} \quad (+0.0\sigma)$	z_{re}	$7.7^{+2.2}_{-2.6} \quad (-0.3\sigma)$	$H(0.61)$	$95.67^{+0.75}_{-0.85} \quad (-0.1\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s$	$2.091^{+0.095}_{-0.091} \quad (-0.4\sigma)$	$D_M(0.61)$	$2288^{+41}_{-37} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873^{+0.028}_{-0.028} \quad (-0.5\sigma)$	$H(2.33)$	$235.2^{+2.1}_{-1.7} \quad (-0.6\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.3\sigma)$	D_{40}	$1220^{+32}_{-31} \quad (-0.5\sigma)$	$D_M(2.33)$	$5747^{+41}_{-33} \quad (+0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5730^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.450^{+0.020}_{-0.018} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.9\sigma)$	D_{810}	$2535^{+32}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.032} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.017}_{-0.017} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$230.9^{+3.9}_{-4.3} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.666^{+0.018}_{-0.029} \quad (-0.5\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{s,0.002}$	$0.970^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.016}_{-0.016} \quad (-0.6\sigma)$
A^{kSZ}	—	Y_P	$0.24542^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.623^{+0.018}_{-0.028} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.48}_{-0.48}$	Y_P^{BBN}	$0.24674^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.016} \quad (-0.6\sigma)$
A_{143}^{dust}	$0.97^{+0.50}_{-0.48}$	$10^5 \text{D}/\text{H}$	$2.575^{+0.074}_{-0.072} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.593^{+0.018}_{-0.027} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.25}$	Age/Gyr	$13.763^{+0.093}_{-0.072} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2993^{+0.0091}_{-0.012} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.40}_{-0.37}$	z_*	$1089.67^{+0.69}_{-0.70} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.309^{+0.010}_{-0.014} \quad (-0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.5\sigma)$	r_*	$144.91^{+0.64}_{-0.77} \quad (+0.8\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.9\sigma)$	$100\theta_*$	$1.04127^{+0.00085}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.5^{+4.9}_{-4.9} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.012}_{-0.013}$	$D_M(z_*)/\text{Gpc}$	$13.917^{+0.063}_{-0.072} \quad (+0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-6} \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	z_{drag}	$1059.93^{+0.81}_{-0.83} \quad (-0.7\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.2\sigma)$
H_0	$68.4^{+1.7}_{-1.9} \quad (+0.2\sigma)$	r_{drag}	$147.57^{+0.70}_{-0.78} \quad (+0.8\sigma)$	χ_{lowl}^2	$22.56 \quad (\nu: 0.4) \quad (-0.5\sigma)$
Ω_Λ	$0.699^{+0.020}_{-0.024} \quad (+0.3\sigma)$	k_D	$0.14041^{+0.00091}_{-0.00081} \quad (-1.0\sigma)$	χ_{CamSpec}^2	$11516.2 \quad (\nu: 17.8)$
Ω_m	$0.301^{+0.024}_{-0.020} \quad (-0.3\sigma)$	$100\theta_D$	$0.16077^{+0.00047}_{-0.00051} \quad (+0.6\sigma)$	χ_{H073p45}^2	$9.3 \quad (\nu: 3.1) \quad (-0.2\sigma)$
$\Omega_m h^2$	$0.1408^{+0.0034}_{-0.0029} \quad (-0.5\sigma)$	z_{eq}	$3355^{+76}_{-63} \quad (-0.6\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.3) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$< 0.00169 \quad (+0.1\sigma)$	k_{eq}	$0.01024^{+0.00023}_{-0.00019} \quad (-0.6\sigma)$	χ_{CMB}^2	$11935.8 \quad (\nu: 18.2) \quad (+1543.0\sigma)$
$\Omega_m h^3$	$0.0963^{+0.0010}_{-0.0012} \quad (-0.8\sigma)$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.014} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11952.66; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.83; R - 1 = 0.05737$$

6.11 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02227^{+0.00044}_{-0.00045} \quad (-0.5\sigma)$	σ_8	$0.795^{+0.043}_{-0.096} \quad (-0.6\sigma)$	$100\theta_{s,eq}$	$0.4503^{+0.0078}_{-0.0075} \quad (+0.4\sigma)$
$\Omega_c h^2$	$0.1197^{+0.0036}_{-0.0035} \quad (-0.4\sigma)$	S_8	$0.823^{+0.043}_{-0.051} \quad (-0.6\sigma)$	$H(0.15)$	$72.2^{+2.4}_{-4.2} \quad (-0.3\sigma)$
$100\theta_{MC}$	$1.04083^{+0.00090}_{-0.00089} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.023}_{-0.028} \quad (-0.6\sigma)$	$D_M(0.15)$	$649^{+44}_{-24} \quad (+0.2\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.599^{+0.028}_{-0.057} \quad (-0.7\sigma)$	$H(0.38)$	$82.4^{+1.6}_{-3.6} \quad (-0.3\sigma)$
Σm_ν [eV]	$< 0.571 \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.973^{+0.045}_{-0.10} \quad (-0.7\sigma)$	$D_M(0.38)$	$1544^{+89}_{-48} \quad (+0.3\sigma)$
$\ln(10^{10} A_s)$	$3.042^{+0.041}_{-0.029} \quad (-0.4\sigma)$	$r_{drag} h$	$98.4^{+4.0}_{-8.2} \quad (-0.1\sigma)$	$H(0.51)$	$89.3^{+1.3}_{-2.9} \quad (-0.4\sigma)$
n_s	$0.965^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.072}_{-0.070} \quad (-0.6\sigma)$	$D_M(0.51)$	$1999^{+110}_{-57} \quad (+0.3\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0064} \quad (-0.0\sigma)$	z_{re}	$< 9.46 \quad (-0.2\sigma)$	$H(0.61)$	$94.9^{+1.1}_{-2.5} \quad (-0.4\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_s$	$2.094^{+0.088}_{-0.061} \quad (-0.4\sigma)$	$D_M(0.61)$	$2324^{+110}_{-61} \quad (+0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$H(2.33)$	$236.6^{+4.0}_{-2.6} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1227^{+33}_{-33} \quad (-0.4\sigma)$	$D_M(2.33)$	$5782^{+130}_{-53} \quad (+0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5719^{+99}_{-98} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.022}_{-0.028} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.9\sigma)$	D_{810}	$2535^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.734^{+0.040}_{-0.093} \quad (-0.6\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.021}_{-0.039} \quad (-0.7\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.1^{+4.2}_{-4.3} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.650^{+0.036}_{-0.087} \quad (-0.6\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.965^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.020}_{-0.045} \quad (-0.7\sigma)$
A^{kSZ}	—	Y_P	$0.24535^{+0.00017}_{-0.00021} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.608^{+0.034}_{-0.083} \quad (-0.6\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Y_P^{BBN}	$0.24668^{+0.00017}_{-0.00021} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.463^{+0.020}_{-0.048} \quad (-0.7\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	$10^5 D/H$	$2.605^{+0.086}_{-0.080} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.578^{+0.033}_{-0.080} \quad (-0.6\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	Age/Gyr	$13.84^{+0.30}_{-0.12} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.292^{+0.015}_{-0.038} \quad (-0.6\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.41}_{-0.40}$	z_*	$1090.03^{+0.87}_{-0.76} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.018}_{-0.043} \quad (-0.6\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.58^{+0.81}_{-0.81} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_*$	$1.04106^{+0.00085}_{-0.00083} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.1^{+5.1}_{-5.1} \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_M(z_*)/Gpc$	$13.888^{+0.077}_{-0.076} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{drag}	$1059.69^{+0.89}_{-0.90} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 (\nu: 1.5) \quad (-0.2\sigma)$
H_0	$66.8^{+2.7}_{-4.8} \quad (-0.2\sigma)$	r_{drag}	$147.28^{+0.81}_{-0.80} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.14 (\nu: 0.4) \quad (-0.4\sigma)$
Ω_Λ	$0.678^{+0.032}_{-0.077} \quad (-0.2\sigma)$	k_D	$0.14060^{+0.00088}_{-0.00091} \quad (-0.9\sigma)$	$\chi_{CamSpec}^2$	$11515.4 (\nu: 18.0)$
Ω_m	$0.322^{+0.077}_{-0.032} \quad (+0.2\sigma)$	$100\theta_D$	$0.16089^{+0.00050}_{-0.00051} \quad (+0.7\sigma)$	χ_{prior}^2	$7.8 (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1433^{+0.0072}_{-0.0043} \quad (-0.1\sigma)$	z_{eq}	$3392^{+79}_{-79} \quad (-0.5\sigma)$	χ_{CMB}^2	$11935.4 (\nu: 18.3) \quad (+1526.9\sigma)$
$\Omega_\nu h^2$	$< 0.00614 \quad (+0.5\sigma)$	k_{eq}	$0.01035^{+0.00024}_{-0.00024} \quad (-0.5\sigma)$		
$\Omega_m h^3$	$0.0957^{+0.0014}_{-0.0034} \quad (-0.8\sigma)$	$100\theta_{eq}$	$0.815^{+0.015}_{-0.015} \quad (+0.4\sigma)$		

$$\bar{\chi}_{eff}^2 = 11943.12; \Delta\bar{\chi}_{eff}^2 = 9150.92; R - 1 = 0.01799$$

6.12 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00040}_{-0.00039} \quad (-0.5\sigma)$	σ_8	$0.811^{+0.022}_{-0.033} \quad (-0.5\sigma)$	$100\theta_{s,eq}$	$0.4540^{+0.0067}_{-0.0072} \quad (+0.6\sigma)$
$\Omega_c h^2$	$0.1180^{+0.0033}_{-0.0028} \quad (-0.5\sigma)$	S_8	$0.812^{+0.040}_{-0.034} \quad (-0.6\sigma)$	$H(0.15)$	$73.6^{+1.5}_{-1.6} \quad (+0.2\sigma)$
$100\theta_{MC}$	$1.04111^{+0.00089}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.445^{+0.022}_{-0.019} \quad (-0.6\sigma)$	$D_M(0.15)$	$634^{+16}_{-14} \quad (-0.2\sigma)$
τ	$0.056^{+0.019}_{-0.015} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.600^{+0.022}_{-0.021} \quad (-0.6\sigma)$	$H(0.38)$	$83.5^{+1.1}_{-1.2} \quad (+0.1\sigma)$
Σm_ν [eV]	$< 0.158 \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.032}_{-0.034} \quad (-0.6\sigma)$	$D_M(0.38)$	$1515^{+32}_{-28} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.042^{+0.042}_{-0.030} \quad (-0.4\sigma)$	$r_{drag} h$	$101.0^{+2.7}_{-3.0} \quad (+0.3\sigma)$	$H(0.51)$	$90.14^{+0.90}_{-1.0} \quad (+0.0\sigma)$
n_s	$0.970^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.416^{+0.068}_{-0.063} \quad (-0.6\sigma)$	$D_M(0.51)$	$1965^{+38}_{-33} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0059}_{-0.0068} \quad (+0.0\sigma)$	z_{re}	$< 9.45 \quad (-0.2\sigma)$	$H(0.61)$	$95.68^{+0.74}_{-0.86} \quad (-0.1\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s$	$2.095^{+0.090}_{-0.063} \quad (-0.4\sigma)$	$D_M(0.61)$	$2288^{+41}_{-36} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_s e^{-2\tau}$	$1.873^{+0.028}_{-0.028} \quad (-0.5\sigma)$	$H(2.33)$	$235.2^{+2.0}_{-1.9} \quad (-0.6\sigma)$
A_{217}^{PS}	$102^{+40}_{-30} \quad (-1.3\sigma)$	D_{40}	$1220^{+32}_{-32} \quad (-0.5\sigma)$	$D_M(2.33)$	$5747^{+41}_{-32} \quad (+0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5730^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.450^{+0.020}_{-0.018} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.76 \quad (-0.8\sigma)$	D_{810}	$2535^{+32}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.031} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.32}_{-0.32}$	D_{1420}	$817^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.017}_{-0.017} \quad (-0.6\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.9^{+3.9}_{-4.4} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.666^{+0.018}_{-0.029} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.970^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.016}_{-0.016} \quad (-0.6\sigma)$
A^{kSZ}	—	Y_P	$0.24542^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.624^{+0.017}_{-0.027} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.02^{+0.46}_{-0.49}$	Y_P^{BBN}	$0.24674^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.015} \quad (-0.6\sigma)$
A_{143}^{dust}	$0.97^{+0.50}_{-0.48}$	$10^5 D/H$	$2.574^{+0.074}_{-0.071} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.594^{+0.017}_{-0.026} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.25}$	Age/Gyr	$13.762^{+0.094}_{-0.071} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2996^{+0.0087}_{-0.012} \quad (-0.4\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.40}_{-0.37}$	z_*	$1089.66^{+0.69}_{-0.69} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3095^{+0.0097}_{-0.014} \quad (-0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0025} \quad (-3.5\sigma)$	r_*	$144.92^{+0.63}_{-0.77} \quad (+0.8\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.9\sigma)$	$100\theta_*$	$1.04128^{+0.00085}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.5^{+4.9}_{-4.9} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_M(z_*)/Gpc$	$13.917^{+0.063}_{-0.072} \quad (+0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-6} \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	z_{drag}	$1059.93^{+0.80}_{-0.84} \quad (-0.7\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.6) \quad (-0.2\sigma)$
H_0	$68.4^{+1.7}_{-1.9} \quad (+0.2\sigma)$	r_{drag}	$147.57^{+0.69}_{-0.78} \quad (+0.9\sigma)$	χ_{lowl}^2	$22.57 \quad (\nu: 0.4) \quad (-0.5\sigma)$
Ω_Λ	$0.699^{+0.020}_{-0.024} \quad (+0.3\sigma)$	k_D	$0.14041^{+0.00091}_{-0.00079} \quad (-1.0\sigma)$	$\chi_{CamSpec}^2$	$11516.1 \quad (\nu: 17.9)$
Ω_m	$0.301^{+0.024}_{-0.020} \quad (-0.3\sigma)$	$100\theta_D$	$0.16077^{+0.00047}_{-0.00051} \quad (+0.6\sigma)$	$\chi_{H073p45}^2$	$9.3 \quad (\nu: 3.1) \quad (-0.2\sigma)$
$\Omega_m h^2$	$0.1408^{+0.0034}_{-0.0028} \quad (-0.5\sigma)$	z_{eq}	$3355^{+75}_{-62} \quad (-0.6\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.2) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$< 0.00170 \quad (+0.1\sigma)$	k_{eq}	$0.01024^{+0.00023}_{-0.00019} \quad (-0.6\sigma)$	χ_{CMB}^2	$11935.7 \quad (\nu: 18.1) \quad (+1556.2\sigma)$
$\Omega_m h^3$	$0.0964^{+0.0010}_{-0.0012} \quad (-0.8\sigma)$	$100\theta_{eq}$	$0.822^{+0.012}_{-0.014} \quad (+0.5\sigma)$		

$\bar{\chi}_{eff}^2 = 11952.44$; $\Delta\bar{\chi}_{eff}^2 = 9150.81$; $R - 1 = 0.06967$

6.13 base_mnu_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02239	$0.02232^{+0.00074}_{-0.00073}$	$\sigma_8/h^{0.5}$	0.907	$0.86^{+0.14}_{-0.17}$	$100\theta_{\text{eq}}$	0.8228	$0.823^{+0.023}_{-0.023}$
$\Omega_c h^2$	0.1179	$0.1181^{+0.0054}_{-0.0052}$	$r_{\text{drag}} h$	97.4	94^{+10}_{-14}	$100\theta_{\text{s,eq}}$	0.4544	$0.455^{+0.012}_{-0.012}$
$100\theta_{\text{MC}}$	1.04122	$1.0411^{+0.0014}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	2.362	$2.36^{+0.11}_{-0.11}$	$H(0.15)$	71.4	$69.5^{+5.8}_{-7.5}$
τ	0.0493	$0.048^{+0.022}_{-0.026}$	z_{re}	7.16	$7.1^{+2.2}_{-3.1}$	$D_{\text{M}}(0.15)$	656	678^{+90}_{-60}
Σm_ν [eV]	0.31	< 1.67	$10^9 A_{\text{s}}$	2.037	$2.03^{+0.11}_{-0.12}$	$H(0.38)$	81.82	$80.4^{+4.3}_{-5.6}$
$\ln(10^{10} A_{\text{s}})$	3.014	$3.009^{+0.052}_{-0.060}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8458	$1.841^{+0.049}_{-0.050}$	$D_{\text{M}}(0.38)$	1559	1603^{+180}_{-120}
n_{s}	0.9623	$0.958^{+0.033}_{-0.036}$	D_{40}	1215	1210^{+69}_{-68}	$H(0.51)$	88.69	$87.5^{+3.6}_{-4.5}$
A_{100}^{dustTE}	0.113	$0.113^{+0.10}_{-0.096}$	D_{220}	5694	5705^{+150}_{-150}	$D_{\text{M}}(0.51)$	2017	2068^{+210}_{-150}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.076}$	D_{810}	2498	2494^{+66}_{-66}	$H(0.61)$	94.42	$93.4^{+3.0}_{-3.6}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	D_{1420}	802.9	801^{+32}_{-31}	$D_{\text{M}}(0.61)$	2344	2399^{+220}_{-160}
A_{143}^{dustTE}	0.219	$0.22^{+0.14}_{-0.14}$	D_{2000}	225.5	224^{+12}_{-12}	$H(2.33)$	236.6	$238.3^{+8.0}_{-5.3}$
$A_{143 \times 217}^{\text{dustTE}}$	0.654	$0.66^{+0.20}_{-0.21}$	$n_{\text{s},0.002}$	0.9623	$0.958^{+0.033}_{-0.036}$	$D_{\text{M}}(2.33)$	5809	5864^{+210}_{-160}
A_{217}^{dustTE}	2.02	$2.04^{+0.69}_{-0.69}$	Y_{P}	0.245402	$0.24537^{+0.00031}_{-0.00034}$	$f\sigma_8(0.15)$	0.429	$0.416^{+0.047}_{-0.057}$
c_{100}	1.00018	$1.0002^{+0.0018}_{-0.0018}$	$Y_{\text{P}}^{\text{BBN}}$	0.246729	$0.24670^{+0.00031}_{-0.00034}$	$\sigma_8(0.15)$	0.680	$0.63^{+0.13}_{-0.17}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0017}$	$10^5 \text{D}/\text{H}$	2.582	$2.60^{+0.14}_{-0.13}$	$f\sigma_8(0.38)$	0.442	$0.423^{+0.056}_{-0.078}$
y_{cal}	1.0000	$1.0000^{+0.0064}_{-0.0065}$	Age/Gyr	13.904	$14.03^{+0.50}_{-0.37}$	$\sigma_8(0.38)$	0.601	$0.56^{+0.12}_{-0.15}$
H_0	66.0	$63.8^{+6.7}_{-8.8}$	z_*	1089.76	$1090.0^{+1.6}_{-1.3}$	$f\sigma_8(0.51)$	0.440	$0.418^{+0.062}_{-0.084}$
Ω_{Λ}	0.670	$0.635^{+0.093}_{-0.16}$	r_*	144.90	$144.7^{+1.3}_{-1.5}$	$\sigma_8(0.51)$	0.562	$0.52^{+0.11}_{-0.15}$
Ω_{m}	0.330	$0.365^{+0.16}_{-0.093}$	$100\theta_*$	1.04153	$1.0415^{+0.0013}_{-0.0013}$	$f\sigma_8(0.61)$	0.434	$0.411^{+0.064}_{-0.088}$
$\Omega_{\text{m}} h^2$	0.1437	$0.147^{+0.014}_{-0.0091}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.912	$13.89^{+0.13}_{-0.14}$	$\sigma_8(0.61)$	0.535	$0.50^{+0.11}_{-0.14}$
$\Omega_{\nu} h^2$	0.0033	< 0.0180	z_{drag}	1059.86	$1059.8^{+1.5}_{-1.4}$	$f\sigma_8(2.33)$	0.273	$0.253^{+0.051}_{-0.071}$
$\Omega_{\text{m}} h^3$	0.0948	$0.0934^{+0.0043}_{-0.0058}$	r_{drag}	147.57	$147.4^{+1.4}_{-1.5}$	$\sigma_8(2.33)$	0.278	$0.257^{+0.058}_{-0.076}$
σ_8	0.737	$0.69^{+0.13}_{-0.17}$	k_{D}	0.14041	$0.1407^{+0.0018}_{-0.0016}$	χ_{simall}^2	395.65	$396.9 (\nu: 1.3)$
S_8	0.773	$0.753^{+0.086}_{-0.094}$	$100\theta_{\text{D}}$	0.16082	$0.16075^{+0.00083}_{-0.00085}$	χ_{plikTE}^2	852.6	$860.3 (\nu: 7.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4233	$0.412^{+0.047}_{-0.052}$	z_{eq}	3353	3356^{+120}_{-120}	χ_{prior}^2	0.4	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.558	$0.533^{+0.077}_{-0.099}$	k_{eq}	0.010236	$0.01025^{+0.00037}_{-0.00036}$	χ_{CMB}^2	1248.3	$1257.2 (\nu: 8.8)$

Best-fit $\chi_{\text{eff}}^2 = 1248.70$; $\bar{\chi}_{\text{eff}}^2 = 1264.56$; $R - 1 = 0.00834$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.65 plik_rd12_HM_v22_TE: 852.62

6.14 base_mnu_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02233^{+0.00074}_{-0.00074}$	$\sigma_8/h^{0.5}$	$0.87^{+0.13}_{-0.17}$	$100\theta_{\text{eq}}$	$0.823^{+0.023}_{-0.023}$
$\Omega_{\text{c}}h^2$	$0.1180^{+0.0054}_{-0.0052}$	$r_{\text{drag}}h$	94^{+10}_{-14}	$100\theta_{\text{s,eq}}$	$0.455^{+0.012}_{-0.012}$
$100\theta_{\text{MC}}$	$1.0411^{+0.0014}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.37^{+0.11}_{-0.11}$	$H(0.15)$	$69.6^{+5.8}_{-7.5}$
τ	$0.052^{+0.018}_{-0.011}$	z_{re}	< 9.12	$D_{\text{M}}(0.15)$	677^{+90}_{-60}
$\Sigma m_{\nu} [\text{eV}]$	< 1.66	$10^9 A_{\text{s}}$	$2.042^{+0.098}_{-0.077}$	$H(0.38)$	$80.5^{+4.4}_{-5.5}$
$\ln(10^{10} A_{\text{s}})$	$3.016^{+0.047}_{-0.038}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.842^{+0.049}_{-0.051}$	$D_{\text{M}}(0.38)$	1601^{+200}_{-100}
n_{s}	$0.959^{+0.033}_{-0.036}$	D_{40}	1210^{+69}_{-68}	$H(0.51)$	$87.6^{+3.7}_{-4.4}$
A_{100}^{dustTE}	$0.113^{+0.099}_{-0.096}$	D_{220}	5704^{+160}_{-150}	$D_{\text{M}}(0.51)$	2065^{+210}_{-150}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.076}$	D_{810}	2496^{+66}_{-67}	$H(0.61)$	$93.5^{+3.0}_{-3.7}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	D_{1420}	802^{+32}_{-31}	$D_{\text{M}}(0.61)$	2397^{+220}_{-160}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	D_{2000}	225^{+12}_{-12}	$H(2.33)$	$238.2^{+8.0}_{-5.2}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$n_{\text{s},0.002}$	$0.959^{+0.033}_{-0.036}$	$D_{\text{M}}(2.33)$	5861^{+210}_{-160}
A_{217}^{dustTE}	$2.04^{+0.69}_{-0.69}$	Y_{P}	$0.24537^{+0.00031}_{-0.00034}$	$f\sigma_8(0.15)$	$0.417^{+0.047}_{-0.058}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00031}_{-0.00034}$	$\sigma_8(0.15)$	$0.64^{+0.13}_{-0.17}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	$10^5 \text{D}/\text{H}$	$2.59^{+0.14}_{-0.13}$	$f\sigma_8(0.38)$	$0.425^{+0.055}_{-0.079}$
y_{cal}	$1.0000^{+0.0064}_{-0.0064}$	Age/Gyr	$14.03^{+0.50}_{-0.37}$	$\sigma_8(0.38)$	$0.56^{+0.12}_{-0.15}$
H_0	$63.9^{+6.7}_{-8.8}$	z_*	$1090.0^{+1.6}_{-1.3}$	$f\sigma_8(0.51)$	$0.419^{+0.061}_{-0.084}$
Ω_{Λ}	$0.637^{+0.092}_{-0.16}$	r_*	$144.7^{+1.3}_{-1.5}$	$\sigma_8(0.51)$	$0.52^{+0.11}_{-0.15}$
Ω_{m}	$0.363^{+0.16}_{-0.092}$	$100\theta_*$	$1.0415^{+0.0013}_{-0.0012}$	$f\sigma_8(0.61)$	$0.413^{+0.063}_{-0.088}$
$\Omega_{\text{m}}h^2$	$0.146^{+0.013}_{-0.0096}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.90^{+0.13}_{-0.14}$	$\sigma_8(0.61)$	$0.50^{+0.11}_{-0.14}$
$\Omega_{\nu}h^2$	< 0.0179	z_{drag}	$1059.8^{+1.5}_{-1.4}$	$f\sigma_8(2.33)$	$0.255^{+0.051}_{-0.071}$
$\Omega_{\text{m}}h^3$	$0.0934^{+0.0042}_{-0.0058}$	r_{drag}	$147.4^{+1.4}_{-1.5}$	$\sigma_8(2.33)$	$0.259^{+0.057}_{-0.077}$
σ_8	$0.69^{+0.13}_{-0.17}$	k_{D}	$0.1407^{+0.0018}_{-0.0016}$	χ_{simall}^2	$396.5 (\nu: 0.8)$
S_8	$0.755^{+0.085}_{-0.094}$	$100\theta_{\text{D}}$	$0.16074^{+0.00082}_{-0.00086}$	χ_{plikTE}^2	$860.3 (\nu: 7.5)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.414^{+0.047}_{-0.052}$	z_{eq}	3354^{+120}_{-120}	χ_{prior}^2	$7.4 (\nu: 6.7)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.535^{+0.075}_{-0.10}$	k_{eq}	$0.01025^{+0.00038}_{-0.00036}$	χ_{CMB}^2	$1256.8 (\nu: 8.4)$

$\bar{\chi}_{\text{eff}}^2 = 1264.17$; $R - 1 = 0.01053$

6.15 base_mnu_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02046	$0.0218^{+0.0044}_{-0.0036}$	D_{40}	1167	1186^{+99}_{-90}	$H(0.38)$	69.6	74^{+10}_{-6}
$\Omega_c h^2$	0.1181	$0.119^{+0.016}_{-0.015}$	D_{220}	5357	5638^{+700}_{-700}	$D_M(0.38)$	2079	1889^{+300}_{-500}
$100\theta_{MC}$	1.04062	$1.0401^{+0.0025}_{-0.0025}$	D_{810}	2545	2569^{+110}_{-120}	$H(0.51)$	79.7	83^{+10}_{-4}
τ	0.0411	$0.044^{+0.025}_{-0.024}$	D_{1420}	820	832^{+55}_{-60}	$D_M(0.51)$	2602	2390^{+400}_{-500}
Σm_ν [eV]	4.27	—	D_{2000}	226.3	232^{+22}_{-25}	$H(0.61)$	87.7	$89.8^{+8.2}_{-2.9}$
$\ln(10^{10} A_s)$	3.012	$3.027^{+0.065}_{-0.064}$	$n_{s,0.002}$	0.928	$0.947^{+0.057}_{-0.045}$	$D_M(0.61)$	2961	2739^{+400}_{-600}
n_s	0.928	$0.947^{+0.057}_{-0.045}$	Y_P	0.24454	$0.2451^{+0.0018}_{-0.0017}$	$H(2.33)$	261.1	252^{+16}_{-20}
y_{cal}	1.0000	$1.0001^{+0.0064}_{-0.0063}$	Y_P^{BBN}	0.24586	$0.2464^{+0.0018}_{-0.0018}$	$D_M(2.33)$	6313	6134^{+280}_{-510}
H_0	42.9	51^{+20}_{-10}	$10^5 D/H$	2.98	$2.73^{+0.86}_{-0.73}$	$f\sigma_8(0.15)$	0.348	$0.374^{+0.11}_{-0.082}$
Ω_Λ	0.00	$0.27^{+0.51}_{-0.58}$	Age/Gyr	15.18	$14.72^{+0.73}_{-1.3}$	$\sigma_8(0.15)$	0.344	$0.45^{+0.31}_{-0.15}$
Ω_m	1.00	$0.73^{+0.58}_{-0.51}$	z_*	1095.4	$1092.5^{+8.2}_{-7.4}$	$f\sigma_8(0.38)$	0.290	$0.340^{+0.15}_{-0.092}$
$\Omega_m h^2$	0.1845	$0.170^{+0.027}_{-0.034}$	r_*	140.72	$141.9^{+3.5}_{-3.0}$	$\sigma_8(0.38)$	0.287	$0.38^{+0.29}_{-0.13}$
$\Omega_\nu h^2$	0.0459	< 0.0534	$100\theta_*$	1.04154	$1.0408^{+0.0028}_{-0.0026}$	$f\sigma_8(0.51)$	0.265	$0.322^{+0.16}_{-0.093}$
$\Omega_m h^3$	0.0791	$0.085^{+0.015}_{-0.011}$	$D_M(z_*)/\text{Gpc}$	13.511	$13.64^{+0.34}_{-0.30}$	$\sigma_8(0.51)$	0.263	$0.35^{+0.27}_{-0.12}$
σ_8	0.395	$0.50^{+0.32}_{-0.16}$	z_{drag}	1057.6	$1059.8^{+7.8}_{-7.1}$	$f\sigma_8(0.61)$	0.249	$0.309^{+0.17}_{-0.093}$
S_8	0.723	$0.73^{+0.18}_{-0.15}$	r_{drag}	143.89	$144.7^{+3.0}_{-2.4}$	$\sigma_8(0.61)$	0.246	$0.33^{+0.26}_{-0.12}$
$\sigma_8 \Omega_m^{0.5}$	0.396	$0.401^{+0.097}_{-0.085}$	k_D	0.14437	$0.1439^{+0.0039}_{-0.0039}$	$f\sigma_8(2.33)$	0.122	$0.169^{+0.13}_{-0.061}$
$\sigma_8 \Omega_m^{0.25}$	0.396	$0.44^{+0.18}_{-0.11}$	$100\theta_D$	0.16105	$0.1601^{+0.0052}_{-0.0039}$	$\sigma_8(2.33)$	0.120	$0.169^{+0.14}_{-0.063}$
$\sigma_8/h^{0.5}$	0.604	$0.70^{+0.31}_{-0.18}$	z_{eq}	3312	3366^{+310}_{-340}	χ_{simall}^2	396.30	$397.2 (\nu: 1.3)$
$r_{drag} h$	61.7	74^{+30}_{-20}	k_{eq}	0.01044	$0.01046^{+0.00096}_{-0.00083}$	χ_{plikEE}^2	738.0	$743.7 (\nu: 5.2)$
$\langle d^2 \rangle^{1/2}$	2.623	$2.51^{+0.28}_{-0.29}$	$100\theta_{eq}$	0.847	$0.831^{+0.082}_{-0.062}$	χ_{prior}^2	0.00	$0.98 (\nu: 1.0)$
z_{re}	7.16	$7.0^{+2.3}_{-2.9}$	$100\theta_{s,eq}$	0.4691	$0.460^{+0.043}_{-0.031}$	χ_{CMB}^2	1134.3	$1140.9 (\nu: 6.4)$
$10^9 A_s$	2.032	$2.06^{+0.14}_{-0.13}$	$H(0.15)$	52.9	59^{+20}_{-10}			
$10^9 A_s e^{-2\tau}$	1.872	$1.889^{+0.068}_{-0.069}$	$D_M(0.15)$	944	836^{+200}_{-200}			

Best-fit $\chi_{\text{eff}}^2 = 1134.30$; $\bar{\chi}_{\text{eff}}^2 = 1141.86$; $R - 1 = 0.00789$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.30 plik_rd12_HM_v22_EE: 738.00

6.16 base_mnu_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0218^{+0.0044}_{-0.0036}$	D_{40}	1186^{+98}_{-90}	$H(0.38)$	74^{+10}_{-6}
$\Omega_{\mathrm{c}} h^2$	$0.119^{+0.016}_{-0.014}$	D_{220}	5634^{+700}_{-700}	$D_{\mathrm{M}}(0.38)$	1886^{+300}_{-500}
$100\theta_{\mathrm{MC}}$	$1.0401^{+0.0025}_{-0.0025}$	D_{810}	2568^{+110}_{-120}	$H(0.51)$	83^{+10}_{-4}
τ	$0.048^{+0.021}_{-0.015}$	D_{1420}	832^{+56}_{-59}	$D_{\mathrm{M}}(0.51)$	2387^{+400}_{-500}
Σm_{ν} [eV]	—	D_{2000}	232^{+23}_{-25}	$H(0.61)$	$89.9^{+8.3}_{-3.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.061}_{-0.052}$	$n_{\mathrm{s},0.002}$	$0.948^{+0.058}_{-0.046}$	$D_{\mathrm{M}}(0.61)$	2735^{+400}_{-600}
n_{s}	$0.948^{+0.058}_{-0.046}$	Y_{P}	$0.2451^{+0.0018}_{-0.0017}$	$H(2.33)$	252^{+16}_{-20}
y_{cal}	$1.0001^{+0.0065}_{-0.0063}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2464^{+0.0018}_{-0.0017}$	$D_{\mathrm{M}}(2.33)$	6131^{+280}_{-510}
H_0	51^{+20}_{-10}	$10^5 \mathrm{D}/\mathrm{H}$	$2.73^{+0.86}_{-0.73}$	$f\sigma_8(0.15)$	$0.376^{+0.11}_{-0.082}$
Ω_{Λ}	$0.27^{+0.51}_{-0.59}$	Age/Gyr	$14.71^{+0.74}_{-1.3}$	$\sigma_8(0.15)$	$0.45^{+0.31}_{-0.15}$
Ω_{m}	$0.73^{+0.59}_{-0.51}$	z_{*}	$1092.5^{+8.2}_{-7.5}$	$f\sigma_8(0.38)$	$0.343^{+0.15}_{-0.093}$
$\Omega_{\mathrm{m}} h^2$	$0.170^{+0.027}_{-0.035}$	r_{*}	$142.0^{+3.5}_{-3.1}$	$\sigma_8(0.38)$	$0.39^{+0.28}_{-0.13}$
$\Omega_{\nu} h^2$	< 0.0534	$100\theta_{*}$	$1.0408^{+0.0028}_{-0.0026}$	$f\sigma_8(0.51)$	$0.325^{+0.16}_{-0.094}$
$\Omega_{\mathrm{m}} h^3$	$0.085^{+0.015}_{-0.011}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.64^{+0.35}_{-0.31}$	$\sigma_8(0.51)$	$0.36^{+0.27}_{-0.13}$
σ_8	$0.50^{+0.31}_{-0.16}$	z_{drag}	$1059.8^{+7.8}_{-7.1}$	$f\sigma_8(0.61)$	$0.312^{+0.16}_{-0.094}$
S_8	$0.74^{+0.18}_{-0.16}$	r_{drag}	$144.8^{+3.0}_{-2.4}$	$\sigma_8(0.61)$	$0.34^{+0.26}_{-0.12}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.403^{+0.097}_{-0.085}$	k_{D}	$0.1438^{+0.0039}_{-0.0039}$	$f\sigma_8(2.33)$	$0.171^{+0.13}_{-0.063}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.45^{+0.18}_{-0.11}$	$100\theta_{\mathrm{D}}$	$0.1601^{+0.0052}_{-0.0039}$	$\sigma_8(2.33)$	$0.170^{+0.14}_{-0.064}$
$\sigma_8/h^{0.5}$	$0.70^{+0.31}_{-0.18}$	z_{eq}	3368^{+320}_{-330}	χ_{simall}^2	$396.9 (\nu: 1.0)$
$r_{\mathrm{drag}} h$	74^{+30}_{-20}	k_{eq}	$0.01046^{+0.00096}_{-0.00084}$	χ_{plikEE}^2	$743.6 (\nu: 5.2)$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.28}_{-0.30}$	$100\theta_{\mathrm{eq}}$	$0.831^{+0.081}_{-0.063}$	χ_{prior}^2	$0.98 (\nu: 0.9)$
z_{re}	< 9.18	$100\theta_{\mathrm{s,eq}}$	$0.459^{+0.043}_{-0.032}$	χ_{CMB}^2	$1140.5 (\nu: 5.9)$
$10^9 A_{\mathrm{s}}$	$2.08^{+0.13}_{-0.11}$	$H(0.15)$	59^{+20}_{-10}		
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.889^{+0.068}_{-0.069}$	$D_{\mathrm{M}}(0.15)$	834^{+200}_{-200}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1141.50$; $R - 1 = 0.01065$

6.17 base_mnu_plikHM_TE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02246	$0.02249^{+0.00061}_{-0.00059}$	$\langle d^2 \rangle^{1/2}$	2.378	$2.36^{+0.11}_{-0.11}$	$H(0.38)$	83.18	$83.1^{+1.2}_{-1.4}$
$\Omega_c h^2$	0.11756	$0.1171^{+0.0041}_{-0.0043}$	z_{re}	7.25	$7.1^{+2.1}_{-3.2}$	$D_M(0.38)$	1523.8	1527^{+36}_{-29}
$100\theta_{\text{MC}}$	1.04133	$1.0414^{+0.0012}_{-0.0012}$	$10^9 A_s$	2.047	$2.04^{+0.11}_{-0.12}$	$H(0.51)$	89.84	$89.7^{+1.0}_{-1.2}$
τ	0.0506	$0.049^{+0.021}_{-0.028}$	$10^9 A_s e^{-2\tau}$	1.8495	$1.846^{+0.049}_{-0.048}$	$D_M(0.51)$	1974.8	1978^{+43}_{-35}
Σm_ν [eV]	0.120	< 0.422	D_{40}	1214	1211^{+64}_{-60}	$H(0.61)$	95.42	$95.31^{+0.91}_{-1.1}$
$\ln(10^{10} A_s)$	3.019	$3.014^{+0.052}_{-0.059}$	D_{220}	5694	5695^{+150}_{-150}	$D_M(0.61)$	2298.6	2302^{+47}_{-38}
n_s	0.9659	$0.967^{+0.026}_{-0.026}$	D_{810}	2504	2502^{+66}_{-65}	$H(2.33)$	235.41	$235.4^{+2.1}_{-2.1}$
y_{cal}	1.0000	$0.99999^{+0.0066}_{-0.0064}$	D_{1420}	805.7	806^{+30}_{-30}	$D_M(2.33)$	5760	5766^{+61}_{-47}
A_{100}^{dustTE}	0.112	$0.113^{+0.099}_{-0.096}$	D_{2000}	227.0	227^{+11}_{-11}	$f\sigma_8(0.15)$	0.4381	$0.433^{+0.032}_{-0.038}$
$A_{100 \times 143}^{\text{dustTE}}$	0.133	$0.136^{+0.077}_{-0.078}$	$n_{s,0.002}$	0.9659	$0.967^{+0.026}_{-0.026}$	$\sigma_8(0.15)$	0.723	$0.712^{+0.050}_{-0.074}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	Y_P	0.245430	$0.24544^{+0.00026}_{-0.00025}$	$f\sigma_8(0.38)$	0.4572	$0.451^{+0.031}_{-0.041}$
A_{143}^{dustTE}	0.216	$0.22^{+0.14}_{-0.14}$	Y_P^{BBN}	0.246757	$0.24677^{+0.00026}_{-0.00025}$	$\sigma_8(0.38)$	0.642	$0.632^{+0.048}_{-0.064}$
$A_{143 \times 217}^{\text{dustTE}}$	0.658	$0.66^{+0.21}_{-0.21}$	10^5D/H	2.569	$2.56^{+0.11}_{-0.11}$	$f\sigma_8(0.51)$	0.4565	$0.450^{+0.030}_{-0.042}$
A_{217}^{dustTE}	2.05	$2.03^{+0.71}_{-0.70}$	Age/Gyr	13.791	$13.80^{+0.14}_{-0.11}$	$\sigma_8(0.51)$	0.601	$0.592^{+0.045}_{-0.060}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.60	$1089.53^{+0.88}_{-0.90}$	$f\sigma_8(0.61)$	0.4522	$0.446^{+0.030}_{-0.041}$
c_{217}	0.99800	$0.9980^{+0.0016}_{-0.0016}$	r_*	144.99	$145.1^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	0.5719	$0.563^{+0.043}_{-0.057}$
H_0	67.96	$67.8^{+1.7}_{-1.9}$	$100\theta_*$	1.04155	$1.0416^{+0.0012}_{-0.0012}$	$f\sigma_8(2.33)$	0.2896	$0.286^{+0.019}_{-0.026}$
Ω_Λ	0.6940	$0.693^{+0.020}_{-0.023}$	$D_M(z_*)/\text{Gpc}$	13.921	$13.93^{+0.10}_{-0.098}$	$\sigma_8(2.33)$	0.2982	$0.294^{+0.021}_{-0.029}$
Ω_m	0.3060	$0.307^{+0.023}_{-0.020}$	z_{drag}	1059.97	$1060.0^{+1.3}_{-1.3}$	χ_{small}^2	395.67	$396.8 (\nu: 1.2)$
$\Omega_m h^2$	0.14132	$0.1413^{+0.0031}_{-0.0031}$	r_{drag}	147.64	$147.7^{+1.1}_{-1.1}$	χ_{plikTE}^2	852.8	$859.6 (\nu: 6.5)$
$\Omega_\nu h^2$	0.00129	< 0.00454	k_D	0.14036	$0.1403^{+0.0013}_{-0.0014}$	$\chi_{6\text{DF}}^2$	0.001	$0.052 (\nu: 0.0)$
$\Omega_m h^3$	0.09603	$0.0958^{+0.0018}_{-0.0022}$	$100\theta_D$	0.16078	$0.16076^{+0.00079}_{-0.00077}$	χ_{MGS}^2	1.61	$1.59 (\nu: 0.2)$
σ_8	0.782	$0.770^{+0.055}_{-0.080}$	z_{eq}	3346	3336^{+94}_{-100}	χ_{DR12BAO}^2	3.54	$4.4 (\nu: 1.1)$
S_8	0.789	$0.779^{+0.063}_{-0.073}$	k_{eq}	0.010213	$0.01018^{+0.00028}_{-0.00030}$	χ_{prior}^2	0.4	$7.5 (\nu: 6.9)$
$\sigma_8 \Omega_m^{0.5}$	0.4324	$0.427^{+0.034}_{-0.040}$	$100\theta_{\text{eq}}$	0.8241	$0.826^{+0.020}_{-0.018}$	χ_{BAO}^2	5.15	$6.1 (\nu: 0.8)$
$\sigma_8 \Omega_m^{0.25}$	0.5813	$0.573^{+0.042}_{-0.057}$	$100\theta_{s,\text{eq}}$	0.4550	$0.456^{+0.010}_{-0.0090}$	χ_{CMB}^2	1248.5	$1256.4 (\nu: 8.0)$
$\sigma_8/h^{0.5}$	0.948	$0.935^{+0.065}_{-0.091}$	$H(0.15)$	73.18	$73.0^{+1.5}_{-1.7}$			
$r_{\text{drag}} h$	100.33	$100.2^{+2.7}_{-2.8}$	$D_M(0.15)$	638.3	640^{+17}_{-14}			

Best-fit $\chi_{\text{eff}}^2 = 1254.08$; $\bar{\chi}_{\text{eff}}^2 = 1269.93$; $R - 1 = 0.00751$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.54 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.67 plik_rd12_HM_v22_TE: 852.84

6.18 base_mnu_plikHM_TE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02250^{+0.00058}_{-0.00055}$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.067}_{-0.074}$	$H(0.38)$	$83.30^{+0.96}_{-0.99}$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0029}$	z_{re}	$7.6^{+1.8}_{-2.1}$	$D_{\mathrm{M}}(0.38)$	1522^{+26}_{-25}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0012}$	$10^9 A_{\mathrm{s}}$	$2.085^{+0.078}_{-0.082}$	$H(0.51)$	$89.99^{+0.79}_{-0.87}$
τ	$0.054^{+0.019}_{-0.020}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.037}_{-0.035}$	$D_{\mathrm{M}}(0.51)$	1972^{+30}_{-29}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.198	D_{40}	1222^{+57}_{-67}	$H(0.61)$	$95.58^{+0.71}_{-0.80}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.037^{+0.037}_{-0.040}$	D_{220}	5722^{+150}_{-150}	$D_{\mathrm{M}}(0.61)$	2296^{+33}_{-32}
n_{s}	$0.967^{+0.028}_{-0.023}$	D_{810}	2529^{+57}_{-56}	$H(2.33)$	$236.0^{+2.1}_{-1.7}$
y_{cal}	$1.0007^{+0.0082}_{-0.0071}$	D_{1420}	815^{+29}_{-26}	$D_{\mathrm{M}}(2.33)$	5749^{+42}_{-36}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.095}_{-0.095}$	D_{2000}	$230^{+10}_{-9.1}$	$f\sigma_8(0.15)$	$0.452^{+0.017}_{-0.018}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.136^{+0.074}_{-0.079}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.028}_{-0.023}$	$\sigma_8(0.15)$	$0.745^{+0.023}_{-0.033}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.47^{+0.22}_{-0.21}$	Y_{P}	$0.24544^{+0.00024}_{-0.00023}$	$f\sigma_8(0.38)$	$0.471^{+0.015}_{-0.017}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.13}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00025}_{-0.00023}$	$\sigma_8(0.38)$	$0.661^{+0.021}_{-0.029}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.10}_{-0.10}$	$f\sigma_8(0.51)$	$0.470^{+0.014}_{-0.017}$
$A_{217}^{\mathrm{dustTE}}$	$2.05^{+0.74}_{-0.65}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.766^{+0.098}_{-0.084}$	$\sigma_8(0.51)$	$0.619^{+0.020}_{-0.027}$
c_{100}	$1.0002^{+0.0020}_{-0.0018}$	z_{*}	$1089.66^{+0.79}_{-0.83}$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.017}$
c_{217}	$0.9980^{+0.0017}_{-0.0016}$	r_{*}	$144.62^{+0.75}_{-0.88}$	$\sigma_8(0.61)$	$0.589^{+0.019}_{-0.026}$
H_0	$68.0^{+1.4}_{-1.5}$	$100\theta_{*}$	$1.0415^{+0.0011}_{-0.0012}$	$f\sigma_8(2.33)$	$0.2973^{+0.0084}_{-0.012}$
Ω_{Λ}	$0.693^{+0.018}_{-0.019}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.886^{+0.072}_{-0.085}$	$\sigma_8(2.33)$	$0.3066^{+0.0093}_{-0.014}$
Ω_{m}	$0.307^{+0.019}_{-0.018}$	z_{drag}	$1060.2^{+1.3}_{-1.3}$	$\chi_{\mathrm{lensing}}^2$	$10.6 (\nu: 1.9)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0032}_{-0.0026}$	r_{drag}	$147.24^{+0.82}_{-0.90}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
$\Omega_{\nu} h^2$	< 0.00213	k_{D}	$0.1408^{+0.0011}_{-0.0012}$	χ_{plikTE}^2	$860.0 (\nu: 6.4)$
$\Omega_{\mathrm{m}} h^3$	$0.0966^{+0.0012}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16068^{+0.00077}_{-0.00072}$	$\chi_{6\mathrm{DF}}^2$	$0.045 (\nu: 0.0)$
σ_8	$0.806^{+0.024}_{-0.036}$	z_{eq}	3379^{+75}_{-63}	χ_{MGS}^2	$1.56 (\nu: 0.2)$
S_8	$0.816^{+0.033}_{-0.035}$	k_{eq}	$0.01031^{+0.00023}_{-0.00019}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.018}_{-0.019}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.013}$	χ_{prior}^2	$7.5 (\nu: 7.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.020}_{-0.024}$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0062}_{-0.0068}$	χ_{CMB}^2	$1267.5 (\nu: 7.5)$
$\sigma_8/h^{0.5}$	$0.978^{+0.029}_{-0.040}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$r_{\mathrm{drag}} h$	$100.1^{+2.3}_{-2.4}$	$D_{\mathrm{M}}(0.15)$	638^{+13}_{-12}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1280.97$; $R - 1 = 0.04268$

6.19 base_mnu_plikHM_TE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02250^{+0.00060}_{-0.00059}$	$\langle d^2 \rangle^{1/2}$	$2.37^{+0.10}_{-0.11}$	$H(0.38)$	$83.1^{+1.2}_{-1.4}$
$\Omega_{\mathrm{c}} h^2$	$0.1171^{+0.0041}_{-0.0043}$	z_{re}	< 9.05	$D_{\mathrm{M}}(0.38)$	1527^{+36}_{-29}
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0012}_{-0.0012}$	$10^9 A_{\mathrm{s}}$	$2.051^{+0.098}_{-0.074}$	$H(0.51)$	$89.7^{+1.0}_{-1.3}$
τ	$0.053^{+0.017}_{-0.010}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.846^{+0.049}_{-0.048}$	$D_{\mathrm{M}}(0.51)$	1978^{+43}_{-35}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.428	D_{40}	1209^{+64}_{-61}	$H(0.61)$	$95.31^{+0.92}_{-1.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.021^{+0.047}_{-0.037}$	D_{220}	5693^{+150}_{-150}	$D_{\mathrm{M}}(0.61)$	2302^{+47}_{-38}
n_{s}	$0.968^{+0.026}_{-0.025}$	D_{810}	2504^{+66}_{-64}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
y_{cal}	$0.9999^{+0.0066}_{-0.0064}$	D_{1420}	806^{+30}_{-28}	$D_{\mathrm{M}}(2.33)$	5766^{+62}_{-47}
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.099}_{-0.096}$	D_{2000}	227^{+11}_{-10}	$f\sigma_8(0.15)$	$0.434^{+0.033}_{-0.038}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.077}_{-0.078}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.026}_{-0.025}$	$\sigma_8(0.15)$	$0.714^{+0.050}_{-0.075}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.22}$	Y_{P}	$0.24544^{+0.00026}_{-0.00025}$	$f\sigma_8(0.38)$	$0.452^{+0.031}_{-0.041}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00026}_{-0.00025}$	$\sigma_8(0.38)$	$0.633^{+0.047}_{-0.064}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.65^{+0.21}_{-0.21}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.11}_{-0.11}$	$f\sigma_8(0.51)$	$0.452^{+0.030}_{-0.041}$
$A_{217}^{\mathrm{dustTE}}$	$2.03^{+0.71}_{-0.70}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.80^{+0.15}_{-0.11}$	$\sigma_8(0.51)$	$0.593^{+0.044}_{-0.060}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	z_{*}	$1089.51^{+0.89}_{-0.89}$	$f\sigma_8(0.61)$	$0.447^{+0.030}_{-0.041}$
c_{217}	$0.9980^{+0.0016}_{-0.0016}$	r_{*}	$145.1^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	$0.564^{+0.042}_{-0.057}$
H_0	$67.8^{+1.7}_{-1.9}$	$100\theta_{*}$	$1.0417^{+0.0012}_{-0.0012}$	$f\sigma_8(2.33)$	$0.286^{+0.019}_{-0.026}$
Ω_{Λ}	$0.693^{+0.020}_{-0.023}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.93^{+0.10}_{-0.098}$	$\sigma_8(2.33)$	$0.295^{+0.021}_{-0.029}$
Ω_{m}	$0.307^{+0.023}_{-0.020}$	z_{drag}	$1060.0^{+1.3}_{-1.3}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
$\Omega_{\mathrm{m}} h^2$	$0.1413^{+0.0032}_{-0.0031}$	r_{drag}	$147.7^{+1.1}_{-1.1}$	χ_{plikTE}^2	$859.6 (\nu: 6.4)$
$\Omega_{\nu} h^2$	< 0.00460	k_{D}	$0.1403^{+0.0013}_{-0.0014}$	$\chi_{6\mathrm{DF}}^2$	$0.052 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^3$	$0.0958^{+0.0018}_{-0.0023}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00078}_{-0.00076}$	χ_{MGS}^2	$1.59 (\nu: 0.2)$
σ_8	$0.772^{+0.055}_{-0.081}$	z_{eq}	3335^{+95}_{-100}	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 1.1)$
S_8	$0.781^{+0.063}_{-0.072}$	k_{eq}	$0.01018^{+0.00029}_{-0.00030}$	χ_{prior}^2	$7.5 (\nu: 7.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.428^{+0.035}_{-0.040}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.020}_{-0.018}$	χ_{BAO}^2	$6.1 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.574^{+0.042}_{-0.056}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.010}_{-0.0092}$	χ_{CMB}^2	$1256.0 (\nu: 7.2)$
$\sigma_8/h^{0.5}$	$0.937^{+0.066}_{-0.090}$	$H(0.15)$	$73.0^{+1.5}_{-1.7}$		
$r_{\mathrm{drag}} h$	$100.2^{+2.7}_{-2.8}$	$D_{\mathrm{M}}(0.15)$	640^{+17}_{-14}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1269.50$; $R - 1 = 0.00760$

6.20 base_mnu_plikHM_TE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02251^{+0.00057}_{-0.00057}$	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.066}_{-0.076}$	$H(0.38)$	$83.31^{+0.96}_{-1.0}$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0029}$	z_{re}	< 9.26	$D_{\mathrm{M}}(0.38)$	1522^{+26}_{-24}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0012}$	$10^9 A_{\mathrm{s}}$	$2.090^{+0.073}_{-0.064}$	$H(0.51)$	$89.99^{+0.80}_{-0.89}$
τ	$0.055^{+0.018}_{-0.014}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.037}_{-0.036}$	$D_{\mathrm{M}}(0.51)$	1972^{+30}_{-29}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.198	D_{40}	1222^{+58}_{-66}	$H(0.61)$	$95.58^{+0.71}_{-0.81}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.035}_{-0.031}$	D_{220}	5721^{+150}_{-150}	$D_{\mathrm{M}}(0.61)$	2296^{+33}_{-32}
n_{s}	$0.968^{+0.027}_{-0.022}$	D_{810}	2529^{+58}_{-57}	$H(2.33)$	$236.0^{+2.0}_{-1.8}$
y_{cal}	$1.0007^{+0.0082}_{-0.0071}$	D_{1420}	815^{+29}_{-26}	$D_{\mathrm{M}}(2.33)$	5749^{+43}_{-36}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.095}_{-0.095}$	D_{2000}	$230.4^{+9.9}_{-9.1}$	$f\sigma_8(0.15)$	$0.452^{+0.018}_{-0.017}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.136^{+0.073}_{-0.079}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.027}_{-0.022}$	$\sigma_8(0.15)$	$0.746^{+0.023}_{-0.034}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.47^{+0.20}_{-0.21}$	Y_{P}	$0.24545^{+0.00024}_{-0.00024}$	$f\sigma_8(0.38)$	$0.471^{+0.015}_{-0.017}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.13}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00024}_{-0.00024}$	$\sigma_8(0.38)$	$0.662^{+0.020}_{-0.031}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.11}_{-0.10}$	$f\sigma_8(0.51)$	$0.470^{+0.014}_{-0.017}$
$A_{217}^{\mathrm{dustTE}}$	$2.04^{+0.75}_{-0.67}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.10}_{-0.084}$	$\sigma_8(0.51)$	$0.619^{+0.018}_{-0.029}$
c_{100}	$1.0002^{+0.0020}_{-0.0018}$	z_*	$1089.65^{+0.81}_{-0.82}$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.017}$
c_{217}	$0.9980^{+0.0017}_{-0.0016}$	r_*	$144.63^{+0.74}_{-0.89}$	$\sigma_8(0.61)$	$0.590^{+0.019}_{-0.026}$
H_0	$68.0^{+1.4}_{-1.5}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0011}$	$f\sigma_8(2.33)$	$0.2975^{+0.0081}_{-0.012}$
Ω_{Λ}	$0.693^{+0.018}_{-0.021}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.072}_{-0.086}$	$\sigma_8(2.33)$	$0.307^{+0.010}_{-0.014}$
Ω_{m}	$0.307^{+0.021}_{-0.018}$	z_{drag}	$1060.2^{+1.3}_{-1.3}$	$\chi_{\mathrm{lensing}}^2$	$10.5 (\nu: 1.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0032}_{-0.0026}$	r_{drag}	$147.25^{+0.83}_{-0.90}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
$\Omega_{\nu} h^2$	< 0.00213	k_{D}	$0.1408^{+0.0011}_{-0.0012}$	χ_{plikTE}^2	$860.0 (\nu: 6.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0966^{+0.0013}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00077}_{-0.00071}$	$\chi_{6\mathrm{DF}}^2$	$0.045 (\nu: 0.0)$
σ_8	$0.807^{+0.024}_{-0.037}$	z_{eq}	3378^{+77}_{-63}	χ_{MGS}^2	$1.58 (\nu: 0.2)$
S_8	$0.816^{+0.035}_{-0.034}$	k_{eq}	$0.01031^{+0.00024}_{-0.00019}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.019}_{-0.019}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.013}$	χ_{prior}^2	$7.5 (\nu: 7.7)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.019}_{-0.024}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0061}_{-0.0070}$	χ_{CMB}^2	$1267.3 (\nu: 7.1)$
$\sigma_8/h^{0.5}$	$0.978^{+0.029}_{-0.040}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$r_{\mathrm{drag}} h$	$100.2^{+2.4}_{-2.5}$	$D_{\mathrm{M}}(0.15)$	638^{+13}_{-12}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1280.75$; $R - 1 = 0.05310$

6.21 base_mnu_plikHM_EE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02346	$0.0241^{+0.0027}_{-0.0021}$	D_{220}	5888	5988^{+450}_{-420}	$H(0.51)$	90.50	$90.4^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.1176	$0.1150^{+0.0060}_{-0.0091}$	D_{810}	2579	2595^{+94}_{-90}	$D_M(0.51)$	1956.4	1959^{+50}_{-49}
$100\theta_{MC}$	1.03983	$1.0401^{+0.0021}_{-0.0021}$	D_{1420}	837.7	847^{+45}_{-41}	$H(0.61)$	96.05	$96.0^{+1.5}_{-1.5}$
τ	0.0519	$0.053^{+0.022}_{-0.025}$	D_{2000}	238.8	242^{+16}_{-15}	$D_M(0.61)$	2278	2281^{+55}_{-54}
Σm_ν [eV]	0.069	< 0.764	$n_{s,0.002}$	0.9751	$0.981^{+0.031}_{-0.028}$	$H(2.33)$	236.00	$236.0^{+2.6}_{-2.5}$
$\ln(10^{10} A_s)$	3.049	$3.051^{+0.055}_{-0.059}$	Y_P	0.24585	$0.2461^{+0.0010}_{-0.00084}$	$D_M(2.33)$	5725	5729^{+83}_{-80}
n_s	0.9751	$0.981^{+0.031}_{-0.028}$	Y_P^{BBN}	0.24718	$0.2474^{+0.0010}_{-0.00084}$	$f\sigma_8(0.15)$	0.445	$0.420^{+0.049}_{-0.078}$
y_{cal}	0.9999	$0.9999^{+0.0065}_{-0.0063}$	$10^5 D/H$	2.394	$2.30^{+0.36}_{-0.37}$	$\sigma_8(0.15)$	0.743	$0.697^{+0.080}_{-0.13}$
H_0	68.74	$68.6^{+2.3}_{-2.3}$	Age/Gyr	13.709	$13.72^{+0.19}_{-0.18}$	$f\sigma_8(0.38)$	0.466	$0.440^{+0.051}_{-0.076}$
Ω_Λ	0.6999	$0.699^{+0.022}_{-0.025}$	z_*	1088.40	$1087.5^{+2.7}_{-3.1}$	$\sigma_8(0.38)$	0.660	$0.619^{+0.070}_{-0.11}$
Ω_m	0.3001	$0.301^{+0.025}_{-0.022}$	r_*	144.22	$144.3^{+1.4}_{-1.4}$	$f\sigma_8(0.51)$	0.466	$0.440^{+0.050}_{-0.076}$
$\Omega_m h^2$	0.14180	$0.1418^{+0.0037}_{-0.0037}$	$100\theta_*$	1.03991	$1.0402^{+0.0022}_{-0.0021}$	$\sigma_8(0.51)$	0.618	$0.580^{+0.065}_{-0.10}$
$\Omega_\nu h^2$	0.00074	< 0.00821	$D_M(z_*)/\text{Gpc}$	13.869	$13.88^{+0.14}_{-0.14}$	$f\sigma_8(0.61)$	0.462	$0.436^{+0.048}_{-0.075}$
$\Omega_m h^3$	0.09747	$0.0973^{+0.0032}_{-0.0032}$	z_{drag}	1062.26	$1063.5^{+5.3}_{-4.5}$	$\sigma_8(0.61)$	0.588	$0.552^{+0.062}_{-0.099}$
σ_8	0.802	$0.753^{+0.087}_{-0.14}$	r_{drag}	146.53	$146.5^{+1.8}_{-1.8}$	$f\sigma_8(2.33)$	0.2972	$0.281^{+0.028}_{-0.045}$
S_8	0.802	$0.754^{+0.094}_{-0.15}$	k_D	0.14225	$0.1428^{+0.0031}_{-0.0032}$	$\sigma_8(2.33)$	0.3068	$0.289^{+0.031}_{-0.050}$
$\sigma_8 \Omega_m^{0.5}$	0.440	$0.413^{+0.052}_{-0.080}$	$100\theta_D$	0.15924	$0.1586^{+0.0026}_{-0.0026}$	χ^2_{small}	395.62	$396.7 (\nu: 1.1)$
$\sigma_8 \Omega_m^{0.25}$	0.594	$0.557^{+0.069}_{-0.10}$	z_{eq}	3371	3324^{+130}_{-170}	χ^2_{plikEE}	739.0	$744.0 (\nu: 5.0)$
$\sigma_8/h^{0.5}$	0.968	$0.91^{+0.11}_{-0.17}$	k_{eq}	0.010287	$0.01015^{+0.00039}_{-0.00051}$	χ^2_{6DF}	0.002	$0.058 (\nu: 0.0)$
$r_{drag} h$	100.72	$100.5^{+3.0}_{-3.0}$	$100\theta_{eq}$	0.8212	$0.832^{+0.041}_{-0.025}$	χ^2_{MGS}	1.82	$1.77 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	2.401	$2.34^{+0.14}_{-0.18}$	$100\theta_{s,eq}$	0.4526	$0.458^{+0.019}_{-0.012}$	$\chi^2_{DR12BAO}$	3.62	$4.7 (\nu: 1.2)$
z_{re}	7.17	$7.1^{+2.0}_{-2.7}$	$H(0.15)$	73.92	$73.8^{+2.1}_{-2.0}$	χ^2_{prior}	0.00	$0.99 (\nu: 1.0)$
$10^9 A_s$	2.109	$2.11^{+0.12}_{-0.12}$	$D_M(0.15)$	631.5	633^{+20}_{-19}	χ^2_{BAO}	5.44	$6.5 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.901	$1.902^{+0.062}_{-0.062}$	$H(0.38)$	83.87	$83.8^{+1.8}_{-1.7}$	χ^2_{CMB}	1134.7	$1140.7 (\nu: 6.1)$
D_{40}	1232	1226^{+78}_{-80}	$D_M(0.38)$	1508.8	1511^{+41}_{-40}			

Best-fit $\chi^2_{eff} = 1140.11$; $\bar{\chi}^2_{eff} = 1148.18$; $R - 1 = 0.00933$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.62 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.62 plik_rd12_HM_v22_EE: 739.05

6.22 base_mnu_plikHM_EE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0239^{+0.0020}_{-0.0017}$	D_{220}	5959^{+360}_{-340}	$H(0.51)$	$90.5^{+1.6}_{-1.5}$
$\Omega_{\mathrm{c}}h^2$	$0.1164^{+0.0043}_{-0.0047}$	D_{810}	2593^{+86}_{-75}	$D_{\mathrm{M}}(0.51)$	1957^{+48}_{-48}
$100\theta_{\mathrm{MC}}$	$1.0400^{+0.0020}_{-0.0019}$	D_{1420}	845^{+40}_{-35}	$H(0.61)$	$96.1^{+1.5}_{-1.4}$
τ	$0.053^{+0.022}_{-0.023}$	D_{2000}	241^{+15}_{-13}	$D_{\mathrm{M}}(0.61)$	2278^{+53}_{-53}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.424	$n_{\mathrm{s},0.002}$	$0.978^{+0.028}_{-0.027}$	$H(2.33)$	$236.2^{+2.3}_{-2.2}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.054^{+0.049}_{-0.046}$	Y_{P}	$0.24600^{+0.00077}_{-0.00069}$	$D_{\mathrm{M}}(2.33)$	5723^{+71}_{-74}
n_{s}	$0.978^{+0.028}_{-0.027}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24733^{+0.00077}_{-0.00069}$	$f\sigma_8(0.15)$	$0.433^{+0.031}_{-0.038}$
y_{cal}	$0.99999^{+0.0064}_{-0.0063}$	$10^5\mathrm{D}/\mathrm{H}$	$2.33^{+0.29}_{-0.29}$	$\sigma_8(0.15)$	$0.720^{+0.045}_{-0.061}$
H_0	$68.7^{+2.2}_{-2.2}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.70^{+0.16}_{-0.17}$	$f\sigma_8(0.38)$	$0.454^{+0.028}_{-0.038}$
Ω_{Λ}	$0.699^{+0.022}_{-0.026}$	z_*	$1087.9^{+2.2}_{-2.3}$	$\sigma_8(0.38)$	$0.640^{+0.040}_{-0.054}$
Ω_{m}	$0.301^{+0.026}_{-0.022}$	r_*	$144.2^{+1.0}_{-1.1}$	$f\sigma_8(0.51)$	$0.454^{+0.026}_{-0.038}$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0033}_{-0.0033}$	$100\theta_*$	$1.0400^{+0.0021}_{-0.0019}$	$\sigma_8(0.51)$	$0.600^{+0.037}_{-0.050}$
$\Omega_{\nu}h^2$	< 0.00456	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.86^{+0.10}_{-0.11}$	$f\sigma_8(0.61)$	$0.450^{+0.025}_{-0.037}$
$\Omega_{\mathrm{m}}h^3$	$0.0976^{+0.0029}_{-0.0026}$	z_{drag}	$1063.1^{+4.1}_{-3.7}$	$\sigma_8(0.61)$	$0.571^{+0.035}_{-0.048}$
σ_8	$0.778^{+0.050}_{-0.067}$	r_{drag}	$146.4^{+1.5}_{-1.5}$	$f\sigma_8(2.33)$	$0.290^{+0.015}_{-0.021}$
S_8	$0.779^{+0.061}_{-0.075}$	k_{D}	$0.1427^{+0.0027}_{-0.0026}$	$\sigma_8(2.33)$	$0.298^{+0.018}_{-0.024}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.427^{+0.033}_{-0.041}$	$100\theta_{\mathrm{D}}$	$0.1588^{+0.0022}_{-0.0021}$	$\chi^2_{\mathrm{lensing}}$	$9.2 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.576^{+0.038}_{-0.052}$	z_{eq}	3353^{+78}_{-82}	χ^2_{simall}	$396.7 (\nu: 1.0)$
$\sigma_8/h^{0.5}$	$0.939^{+0.060}_{-0.086}$	k_{eq}	$0.01023^{+0.00024}_{-0.00025}$	χ^2_{plikEE}	$742.9 (\nu: 3.5)$
$r_{\mathrm{drag}}h$	$100.6^{+3.0}_{-3.2}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.019}_{-0.016}$	$\chi^2_{6\mathrm{DF}}$	$0.059 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.375^{+0.087}_{-0.098}$	$100\theta_{\mathrm{s,eq}}$	$0.4548^{+0.0088}_{-0.0077}$	χ^2_{MGS}	$1.80 (\nu: 0.3)$
z_{re}	$7.2^{+2.1}_{-2.4}$	$H(0.15)$	$73.9^{+2.1}_{-2.0}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.7 (\nu: 1.2)$
10^9A_{s}	$2.12^{+0.11}_{-0.096}$	$D_{\mathrm{M}}(0.15)$	632^{+19}_{-19}	χ^2_{prior}	$0.96 (\nu: 0.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.907^{+0.050}_{-0.046}$	$H(0.38)$	$83.9^{+1.8}_{-1.6}$	χ^2_{CMB}	$1148.8 (\nu: 5.7)$
D_{40}	1233^{+70}_{-72}	$D_{\mathrm{M}}(0.38)$	1509^{+40}_{-39}	χ^2_{BAO}	$6.5 (\nu: 1.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 1156.24$; $R - 1 = 0.01129$

6.23 base_mnu_plikHM_EE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0241^{+0.0027}_{-0.0021}$	D_{220}	5981^{+460}_{-420}	$H(0.51)$	$90.4^{+1.6}_{-1.6}$
$\Omega_{\mathrm{c}} h^2$	$0.1150^{+0.0060}_{-0.0092}$	D_{810}	2594^{+94}_{-89}	$D_{\mathrm{M}}(0.51)$	1960^{+50}_{-49}
$100\theta_{\mathrm{MC}}$	$1.0401^{+0.0021}_{-0.0021}$	D_{1420}	846^{+46}_{-41}	$H(0.61)$	$96.0^{+1.5}_{-1.5}$
τ	$0.056^{+0.018}_{-0.012}$	D_{2000}	242^{+17}_{-15}	$D_{\mathrm{M}}(0.61)$	2282^{+55}_{-54}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.762	$n_{\mathrm{s},0.002}$	$0.981^{+0.031}_{-0.028}$	$H(2.33)$	$236.0^{+2.6}_{-2.5}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.057^{+0.051}_{-0.046}$	Y_{P}	$0.2461^{+0.0010}_{-0.00083}$	$D_{\mathrm{M}}(2.33)$	5730^{+83}_{-81}
n_{s}	$0.981^{+0.031}_{-0.028}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2474^{+0.0010}_{-0.00083}$	$f\sigma_8(0.15)$	$0.422^{+0.048}_{-0.078}$
y_{cal}	$0.9999^{+0.0066}_{-0.0063}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.30^{+0.35}_{-0.38}$	$\sigma_8(0.15)$	$0.699^{+0.078}_{-0.13}$
H_0	$68.6^{+2.3}_{-2.3}$	Age/Gyr	$13.72^{+0.19}_{-0.19}$	$f\sigma_8(0.38)$	$0.441^{+0.050}_{-0.077}$
Ω_{Λ}	$0.699^{+0.022}_{-0.026}$	z_{*}	$1087.6^{+2.7}_{-3.1}$	$\sigma_8(0.38)$	$0.621^{+0.068}_{-0.11}$
Ω_{m}	$0.301^{+0.026}_{-0.022}$	r_{*}	$144.4^{+1.4}_{-1.4}$	$f\sigma_8(0.51)$	$0.441^{+0.049}_{-0.076}$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0036}_{-0.0036}$	$100\theta_{*}$	$1.0402^{+0.0022}_{-0.0021}$	$\sigma_8(0.51)$	$0.582^{+0.064}_{-0.10}$
$\Omega_{\nu} h^2$	< 0.00819	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.88^{+0.14}_{-0.14}$	$f\sigma_8(0.61)$	$0.438^{+0.047}_{-0.075}$
$\Omega_{\mathrm{m}} h^3$	$0.0973^{+0.0033}_{-0.0032}$	z_{drag}	$1063.5^{+5.4}_{-4.5}$	$\sigma_8(0.61)$	$0.554^{+0.060}_{-0.098}$
σ_8	$0.755^{+0.085}_{-0.14}$	r_{drag}	$146.5^{+1.8}_{-1.8}$	$f\sigma_8(2.33)$	$0.283^{+0.027}_{-0.045}$
S_8	$0.757^{+0.093}_{-0.15}$	k_{D}	$0.1427^{+0.0032}_{-0.0032}$	$\sigma_8(2.33)$	$0.290^{+0.030}_{-0.049}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.415^{+0.051}_{-0.081}$	$100\theta_{\mathrm{D}}$	$0.1586^{+0.0025}_{-0.0027}$	χ_{small}^2	$396.4 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.560^{+0.068}_{-0.10}$	z_{eq}	3324^{+130}_{-170}	χ_{plikEE}^2	$743.9 (\nu: 5.0)$
$\sigma_8/h^{0.5}$	$0.91^{+0.11}_{-0.17}$	k_{eq}	$0.01015^{+0.00039}_{-0.00050}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
$r_{\mathrm{drag}} h$	$100.5^{+3.0}_{-3.0}$	$100\theta_{\mathrm{eq}}$	$0.832^{+0.041}_{-0.025}$	χ_{MGS}^2	$1.75 (\nu: 0.2)$
$\langle d^2 \rangle^{1/2}$	$2.35^{+0.14}_{-0.18}$	$100\theta_{\mathrm{s,eq}}$	$0.458^{+0.019}_{-0.013}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.2)$
z_{re}	< 9.02	$H(0.15)$	$73.8^{+2.1}_{-2.0}$	χ_{prior}^2	$0.99 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	$2.13^{+0.11}_{-0.097}$	$D_{\mathrm{M}}(0.15)$	633^{+20}_{-19}	χ_{BAO}^2	$6.5 (\nu: 1.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.901^{+0.062}_{-0.062}$	$H(0.38)$	$83.8^{+1.8}_{-1.8}$	χ_{CMB}^2	$1140.3 (\nu: 5.7)$
D_{40}	1226^{+78}_{-81}	$D_{\mathrm{M}}(0.38)$	1511^{+41}_{-40}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1147.83; R - 1 = 0.01081$

6.24 base_mnu_plikHM_EE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.0239^{+0.0020}_{-0.0017}$	D_{220}	5954^{+360}_{-340}	$H(0.51)$	$90.5^{+1.5}_{-1.4}$
$\Omega_{\text{c}} h^2$	$0.1163^{+0.0043}_{-0.0046}$	D_{810}	2592^{+84}_{-75}	$D_{\text{M}}(0.51)$	1958^{+48}_{-47}
$100\theta_{\text{MC}}$	$1.0400^{+0.0020}_{-0.0019}$	D_{1420}	844^{+39}_{-34}	$H(0.61)$	$96.0^{+1.4}_{-1.3}$
τ	$0.056^{+0.018}_{-0.013}$	D_{2000}	241^{+14}_{-13}	$D_{\text{M}}(0.61)$	2279^{+52}_{-53}
$\Sigma m_{\nu} [\text{eV}]$	< 0.425	$n_{\text{s},0.002}$	$0.978^{+0.028}_{-0.027}$	$H(2.33)$	$236.1^{+2.3}_{-2.1}$
$\ln(10^{10} A_{\text{s}})$	$3.059^{+0.045}_{-0.038}$	Y_{P}	$0.24599^{+0.00078}_{-0.00069}$	$D_{\text{M}}(2.33)$	5725^{+69}_{-71}
n_{s}	$0.978^{+0.028}_{-0.027}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24732^{+0.00078}_{-0.00069}$	$f\sigma_8(0.15)$	$0.434^{+0.031}_{-0.039}$
y_{cal}	$0.99999^{+0.0066}_{-0.0064}$	$10^5 \text{D}/\text{H}$	$2.33^{+0.30}_{-0.30}$	$\sigma_8(0.15)$	$0.721^{+0.047}_{-0.062}$
H_0	$68.7^{+2.2}_{-2.3}$	Age/Gyr	$13.71^{+0.16}_{-0.17}$	$f\sigma_8(0.38)$	$0.454^{+0.028}_{-0.039}$
Ω_{Λ}	$0.699^{+0.022}_{-0.026}$	z_*	$1087.9^{+2.2}_{-2.4}$	$\sigma_8(0.38)$	$0.640^{+0.041}_{-0.054}$
Ω_{m}	$0.301^{+0.026}_{-0.022}$	r_*	$144.2^{+1.0}_{-1.1}$	$f\sigma_8(0.51)$	$0.454^{+0.026}_{-0.038}$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0033}_{-0.0032}$	$100\theta_*$	$1.0400^{+0.0021}_{-0.0019}$	$\sigma_8(0.51)$	$0.600^{+0.038}_{-0.051}$
$\Omega_{\nu} h^2$	< 0.00457	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.87^{+0.10}_{-0.11}$	$f\sigma_8(0.61)$	$0.450^{+0.026}_{-0.037}$
$\Omega_{\text{m}} h^3$	$0.0975^{+0.0030}_{-0.0026}$	z_{drag}	$1063.1^{+4.1}_{-3.6}$	$\sigma_8(0.61)$	$0.571^{+0.036}_{-0.048}$
σ_8	$0.779^{+0.051}_{-0.067}$	r_{drag}	$146.4^{+1.4}_{-1.5}$	$f\sigma_8(2.33)$	$0.290^{+0.016}_{-0.021}$
S_8	$0.780^{+0.061}_{-0.075}$	k_{D}	$0.1426^{+0.0028}_{-0.0026}$	$\sigma_8(2.33)$	$0.299^{+0.018}_{-0.024}$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.427^{+0.033}_{-0.041}$	$100\theta_{\text{D}}$	$0.1588^{+0.0022}_{-0.0021}$	χ^2_{lensing}	$9.2 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.577^{+0.038}_{-0.053}$	z_{eq}	3350^{+78}_{-83}	χ^2_{simall}	$396.5 (\nu: 0.9)$
$\sigma_8/h^{0.5}$	$0.940^{+0.060}_{-0.086}$	k_{eq}	$0.01023^{+0.00024}_{-0.00025}$	χ^2_{plikEE}	$742.8 (\nu: 3.4)$
$r_{\text{drag}} h$	$100.5^{+2.9}_{-3.2}$	$100\theta_{\text{eq}}$	$0.826^{+0.019}_{-0.016}$	$\chi^2_{6\text{DF}}$	$0.058 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.378^{+0.088}_{-0.099}$	$100\theta_{\text{s,eq}}$	$0.4550^{+0.0090}_{-0.0079}$	χ^2_{MGS}	$1.79 (\nu: 0.3)$
z_{re}	< 9.10	$H(0.15)$	$73.9^{+2.0}_{-2.0}$	χ^2_{DR12BAO}	$4.7 (\nu: 1.3)$
$10^9 A_{\text{s}}$	$2.131^{+0.099}_{-0.080}$	$D_{\text{M}}(0.15)$	632^{+20}_{-18}	χ^2_{prior}	$0.97 (\nu: 1.0)$
$10^9 A_{\text{s}} e^{-2\tau}$	$1.905^{+0.050}_{-0.046}$	$H(0.38)$	$83.8^{+1.7}_{-1.6}$	χ^2_{CMB}	$1148.5 (\nu: 5.5)$
D_{40}	1233^{+71}_{-71}	$D_{\text{M}}(0.38)$	1510^{+40}_{-39}	χ^2_{BAO}	$6.5 (\nu: 1.1)$

$\bar{\chi}^2_{\text{eff}} = 1155.99; R - 1 = 0.01388$

6.25 base_mnu_plikHM_TT_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02229	$0.02218^{+0.00071}_{-0.00070}$	S_8	0.8262	$0.827^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8235	$0.820^{+0.028}_{-0.028}$
$\Omega_c h^2$	0.1178	$0.1186^{+0.0068}_{-0.0064}$	$\sigma_8 \Omega_m^{0.5}$	0.4525	$0.453^{+0.025}_{-0.024}$	$100\theta_{\text{s,eq}}$	0.4548	$0.453^{+0.014}_{-0.014}$
$100\theta_{\text{MC}}$	1.04092	$1.0408^{+0.0014}_{-0.0014}$	$\sigma_8 \Omega_m^{0.25}$	0.5933	$0.590^{+0.037}_{-0.047}$	$H(0.15)$	70.8	$70.3^{+5.0}_{-5.7}$
τ	0.114	$0.107^{+0.069}_{-0.074}$	$\sigma_8/h^{0.5}$	0.963	$0.956^{+0.067}_{-0.086}$	$D_{\text{M}}(0.15)$	662	669^{+67}_{-50}
$\Sigma m_\nu [\text{eV}]$	0.38	< 1.03	$r_{\text{drag}} h$	96.4	$95.4^{+9.1}_{-10}$	$H(0.38)$	81.29	$80.9^{+3.8}_{-4.2}$
$\ln(10^{10} A_s)$	3.156	$3.14^{+0.13}_{-0.14}$	$\langle d^2 \rangle^{1/2}$	2.509	$2.51^{+0.12}_{-0.11}$	$D_{\text{M}}(0.38)$	1573	1585^{+130}_{-100}
n_s	0.9724	$0.968^{+0.020}_{-0.020}$	z_{re}	13.1	$12.4^{+5.3}_{-7.0}$	$H(0.51)$	88.22	$88.0^{+3.1}_{-3.4}$
y_{cal}	1.0002	$1.0002^{+0.0064}_{-0.0064}$	$10^9 A_s$	2.348	$2.32^{+0.31}_{-0.30}$	$D_{\text{M}}(0.51)$	2033	2047^{+150}_{-120}
A_{217}^{CIB}	44.9	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8687	$1.871^{+0.041}_{-0.038}$	$H(0.61)$	94.00	$93.8^{+2.6}_{-2.8}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.83	—	D_{40}	1228.8	1233^{+35}_{-33}	$D_{\text{M}}(0.61)$	2362	2378^{+160}_{-130}
A_{143}^{tSZ}	6.9	—	D_{220}	5711	5714^{+110}_{-110}	$H(2.33)$	236.8	$237.5^{+6.2}_{-5.2}$
A_{100}^{PS}	245	260^{+70}_{-70}	D_{810}	2533.1	2531^{+37}_{-36}	$D_{\text{M}}(2.33)$	5832	5844^{+150}_{-130}
A_{143}^{PS}	53.4	47^{+20}_{-20}	D_{1420}	816.9	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4584	$0.458^{+0.023}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	58.1	43^{+20}_{-20}	D_{2000}	231.2	$230.1^{+5.0}_{-5.1}$	$\sigma_8(0.15)$	0.717	$0.708^{+0.081}_{-0.10}$
A_{217}^{PS}	123.9	115^{+30}_{-30}	$n_{\text{s},0.002}$	0.9724	$0.968^{+0.020}_{-0.020}$	$f\sigma_8(0.38)$	0.4710	$0.468^{+0.025}_{-0.034}$
A^{kSZ}	0.0	—	Y_{P}	0.245365	$0.24531^{+0.00028}_{-0.00032}$	$\sigma_8(0.38)$	0.634	$0.625^{+0.078}_{-0.097}$
A_{100}^{dustTT}	8.88	$8.9^{+4.8}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.246692	$0.24664^{+0.00029}_{-0.00032}$	$f\sigma_8(0.51)$	0.4670	$0.463^{+0.028}_{-0.041}$
A_{143}^{dustTT}	10.85	$10.7^{+4.7}_{-4.6}$	$10^5 \text{D}/\text{H}$	2.600	$2.62^{+0.14}_{-0.13}$	$\sigma_8(0.51)$	0.592	$0.584^{+0.075}_{-0.093}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.2^{+8.5}_{-8.5}$	Age/Gyr	13.957	$13.99^{+0.36}_{-0.31}$	$f\sigma_8(0.61)$	0.4605	$0.456^{+0.031}_{-0.045}$
A_{217}^{dustTT}	95.9	93^{+20}_{-20}	z_*	1089.88	$1090.1^{+1.5}_{-1.4}$	$\sigma_8(0.61)$	0.563	$0.555^{+0.073}_{-0.090}$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	r_*	144.98	$144.8^{+1.4}_{-1.5}$	$f\sigma_8(2.33)$	0.2876	$0.283^{+0.035}_{-0.045}$
c_{217}	0.99821	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04126	$1.0412^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.2929	$0.288^{+0.041}_{-0.050}$
H_0	65.3	$64.7^{+5.7}_{-6.7}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.924	$13.91^{+0.13}_{-0.14}$	χ_{lensing}^2	8.04	$9.1 (\nu: 1.2)$
Ω_Λ	0.662	$0.650^{+0.079}_{-0.11}$	z_{drag}	1059.67	$1059.5^{+1.3}_{-1.3}$	χ_{lowl}^2	23.65	$24.4 (\nu: 0.8)$
Ω_{m}	0.338	$0.350^{+0.11}_{-0.079}$	r_{drag}	147.68	$147.5^{+1.4}_{-1.5}$	χ_{plik}^2	757.8	$770.2 (\nu: 14.9)$
$\Omega_{\text{m}} h^2$	0.1441	$0.145^{+0.010}_{-0.0088}$	k_{D}	0.14024	$0.1403^{+0.0014}_{-0.0014}$	χ_{prior}^2	1.1	$7.3 (\nu: 6.7)$
$\Omega_\nu h^2$	0.0041	< 0.0111	$100\theta_{\text{D}}$	0.16088	$0.16097^{+0.00073}_{-0.00070}$	χ_{CMB}^2	789.5	$803.7 (\nu: 15.4)$
$\Omega_{\text{m}} h^3$	0.09409	$0.0938^{+0.0033}_{-0.0039}$	z_{eq}	3347	3365^{+150}_{-140}			
σ_8	0.778	$0.769^{+0.082}_{-0.10}$	k_{eq}	0.010220	$0.01027^{+0.00046}_{-0.00043}$			

Best-fit $\chi_{\text{eff}}^2 = 790.68$; $\bar{\chi}_{\text{eff}}^2 = 811.02$; $R - 1 = 0.01418$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.04 commander_dx12_v3_2_29: 23.65 plik_rd12_HM_v22_TT: 757.84

6.26 base_mnu_plikHM_TT_lowl_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00054}_{-0.00060}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.024}_{-0.031}$	$H(0.38)$	$82.9^{+1.3}_{-1.4}$
$\Omega_{\mathrm{c}} h^2$	$0.1169^{+0.0043}_{-0.0048}$	$\sigma_8/h^{0.5}$	$0.987^{+0.039}_{-0.050}$	$D_{\mathrm{M}}(0.38)$	1529^{+34}_{-31}
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	$100.1^{+2.7}_{-2.8}$	$H(0.51)$	$89.6^{+1.1}_{-1.2}$
τ	$0.097^{+0.070}_{-0.060}$	$\langle d^2 \rangle^{1/2}$	$2.479^{+0.083}_{-0.080}$	$D_{\mathrm{M}}(0.51)$	1981^{+41}_{-37}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.438	z_{re}	$11.5^{+5.3}_{-5.6}$	$H(0.61)$	$95.18^{+0.95}_{-1.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.13}_{-0.11}$	$10^9 A_{\mathrm{s}}$	$2.27^{+0.30}_{-0.24}$	$D_{\mathrm{M}}(0.61)$	2306^{+44}_{-40}
n_{s}	$0.973^{+0.017}_{-0.014}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.865^{+0.034}_{-0.035}$	$H(2.33)$	$235.1^{+2.1}_{-2.0}$
y_{cal}	$1.0001^{+0.0062}_{-0.0069}$	D_{40}	1228^{+30}_{-29}	$D_{\mathrm{M}}(2.33)$	5773^{+57}_{-47}
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5720^{+100}_{-94}	$f\sigma_8(0.15)$	$0.457^{+0.019}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2529^{+36}_{-38}	$\sigma_8(0.15)$	$0.751^{+0.034}_{-0.043}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.021}$
A_{100}^{PS}	258^{+70}_{-70}	D_{2000}	$230.7^{+5.0}_{-4.8}$	$\sigma_8(0.38)$	$0.667^{+0.031}_{-0.039}$
A_{143}^{PS}	46^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.973^{+0.017}_{-0.014}$	$f\sigma_8(0.51)$	$0.475^{+0.018}_{-0.022}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24539^{+0.00022}_{-0.00027}$	$\sigma_8(0.51)$	$0.624^{+0.029}_{-0.037}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00022}_{-0.00027}$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.021}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.12}_{-0.098}$	$\sigma_8(0.61)$	$0.594^{+0.028}_{-0.035}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.82^{+0.13}_{-0.11}$	$f\sigma_8(2.33)$	$0.301^{+0.013}_{-0.015}$
$A_{143}^{\mathrm{dust}TT}$	$10.6^{+4.3}_{-4.5}$	z_{*}	$1089.7^{+1.0}_{-0.87}$	$\sigma_8(2.33)$	$0.310^{+0.016}_{-0.018}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.3}_{-8.3}$	r_{*}	$145.23^{+0.96}_{-0.99}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$100\theta_{*}$	$1.0414^{+0.0013}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.945^{+0.097}_{-0.094}$	f_{2000}^{217}	$106.8^{+5.1}_{-5.3}$
c_{217}	$0.9982^{+0.0015}_{-0.0017}$	z_{drag}	$1059.7^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.3 (\nu: 1.3)$
H_0	$67.7^{+1.8}_{-1.9}$	r_{drag}	$147.9^{+1.0}_{-1.0}$	χ_{lowl}^2	$23.54 (\nu: 0.4)$
Ω_{Λ}	$0.692^{+0.021}_{-0.023}$	k_{D}	$0.1400^{+0.0012}_{-0.0012}$	χ_{plik}^2	$770.4 (\nu: 15.2)$
Ω_{m}	$0.308^{+0.023}_{-0.021}$	$100\theta_{\mathrm{D}}$	$0.16089^{+0.00072}_{-0.00065}$	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0032}_{-0.0030}$	z_{eq}	3328^{+96}_{-110}	χ_{MGS}^2	$1.58 (\nu: 0.2)$
$\Omega_{\nu} h^2$	< 0.00470	k_{eq}	$0.01016^{+0.00029}_{-0.00032}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 (\nu: 1.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0954^{+0.0017}_{-0.0021}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.022}_{-0.019}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.812^{+0.036}_{-0.047}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.011}_{-0.0096}$	χ_{CMB}^2	$803.2 (\nu: 14.6)$
S_8	$0.822^{+0.036}_{-0.040}$	$H(0.15)$	$72.9^{+1.6}_{-1.7}$	χ_{BAO}^2	$6.1 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.020}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	641^{+16}_{-15}		

$\bar{\chi}_{\mathrm{eff}}^2 = 816.62; R - 1 = 0.05945$

6.27 base_mnu_plikHM_TT_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00070}_{-0.00070}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.025}_{-0.023}$	$H(0.15)$	$70.3^{+5.0}_{-5.7}$
$\Omega_{\mathrm{c}} h^2$	$0.1186^{+0.0066}_{-0.0063}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.590^{+0.037}_{-0.046}$	$D_{\mathrm{M}}(0.15)$	669^{+67}_{-50}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0014}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.956^{+0.067}_{-0.086}$	$H(0.38)$	$80.9^{+3.8}_{-4.2}$
τ	$0.108^{+0.069}_{-0.062}$	$r_{\mathrm{drag}} h$	$95.4^{+9.1}_{-10}$	$D_{\mathrm{M}}(0.38)$	1585^{+130}_{-100}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 1.03	$\langle d^2 \rangle^{1/2}$	$2.52^{+0.12}_{-0.10}$	$H(0.51)$	$87.9^{+3.1}_{-3.4}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.14^{+0.13}_{-0.12}$	z_{re}	$12.5^{+5.2}_{-5.7}$	$D_{\mathrm{M}}(0.51)$	2048^{+150}_{-120}
n_{s}	$0.968^{+0.019}_{-0.020}$	$10^9 A_{\mathrm{s}}$	$2.32^{+0.31}_{-0.26}$	$H(0.61)$	$93.8^{+2.6}_{-2.7}$
y_{cal}	$1.0002^{+0.0064}_{-0.0064}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.040}_{-0.038}$	$D_{\mathrm{M}}(0.61)$	2378^{+160}_{-130}
A_{217}^{CIB}	47^{+20}_{-20}	D_{40}	1233^{+35}_{-33}	$H(2.33)$	$237.5^{+6.2}_{-5.1}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5714^{+110}_{-110}	$D_{\mathrm{M}}(2.33)$	5845^{+150}_{-130}
A_{143}^{tSZ}	—	D_{810}	2531^{+37}_{-36}	$f\sigma_8(0.15)$	$0.458^{+0.023}_{-0.022}$
A_{100}^{PS}	260^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.708^{+0.081}_{-0.10}$
A_{143}^{PS}	47^{+20}_{-20}	D_{2000}	$230.1^{+5.0}_{-5.1}$	$f\sigma_8(0.38)$	$0.468^{+0.025}_{-0.034}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.968^{+0.019}_{-0.020}$	$\sigma_8(0.38)$	$0.625^{+0.078}_{-0.097}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24531^{+0.00028}_{-0.00032}$	$f\sigma_8(0.51)$	$0.463^{+0.028}_{-0.041}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00028}_{-0.00032}$	$\sigma_8(0.51)$	$0.584^{+0.076}_{-0.093}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.14}_{-0.13}$	$f\sigma_8(0.61)$	$0.456^{+0.031}_{-0.045}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.99^{+0.36}_{-0.31}$	$\sigma_8(0.61)$	$0.555^{+0.073}_{-0.090}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.5}_{-8.5}$	z_*	$1090.1^{+1.5}_{-1.4}$	$f\sigma_8(2.33)$	$0.283^{+0.035}_{-0.045}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	r_*	$144.8^{+1.4}_{-1.5}$	$\sigma_8(2.33)$	$0.288^{+0.041}_{-0.050}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0412^{+0.0013}_{-0.0013}$	f_{2000}^{143}	30^{+8}_{-8}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.91^{+0.13}_{-0.14}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
H_0	$64.7^{+5.7}_{-6.7}$	z_{drag}	$1059.5^{+1.3}_{-1.3}$	f_{2000}^{217}	$107.4^{+5.6}_{-5.5}$
Ω_{Λ}	$0.650^{+0.079}_{-0.11}$	r_{drag}	$147.5^{+1.4}_{-1.4}$	$\chi_{\mathrm{lensing}}^2$	$9.1 (\nu: 1.2)$
Ω_{m}	$0.350^{+0.11}_{-0.079}$	k_{D}	$0.1403^{+0.0014}_{-0.0014}$	χ_{lowl}^2	$24.4 (\nu: 0.8)$
$\Omega_{\mathrm{m}} h^2$	$0.145^{+0.011}_{-0.0088}$	$100\theta_{\mathrm{D}}$	$0.16096^{+0.00073}_{-0.00070}$	χ_{plik}^2	$770.2 (\nu: 14.8)$
$\Omega_{\nu} h^2$	< 0.0111	z_{eq}	3363^{+150}_{-140}	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\Omega_{\mathrm{m}} h^3$	$0.0938^{+0.0031}_{-0.0040}$	k_{eq}	$0.01027^{+0.00045}_{-0.00043}$	χ_{CMB}^2	$803.7 (\nu: 15.2)$
σ_8	$0.769^{+0.082}_{-0.10}$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.028}_{-0.027}$		
S_8	$0.827^{+0.046}_{-0.043}$	$100\theta_{\mathrm{s,eq}}$	$0.453^{+0.014}_{-0.014}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 810.97; R - 1 = 0.01413$$

6.28 base_mnu_plikHM_TT_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00054}_{-0.00060}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.024}_{-0.031}$	$H(0.38)$	$82.9^{+1.3}_{-1.4}$
$\Omega_{\mathrm{c}} h^2$	$0.1168^{+0.0041}_{-0.0047}$	$\sigma_8 / h^{0.5}$	$0.987^{+0.039}_{-0.050}$	$D_{\mathrm{M}}(0.38)$	1529^{+34}_{-31}
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	$100.1^{+2.7}_{-2.8}$	$H(0.51)$	$89.6^{+1.1}_{-1.2}$
τ	$0.098^{+0.067}_{-0.057}$	$\langle d^2 \rangle^{1/2}$	$2.480^{+0.082}_{-0.074}$	$D_{\mathrm{M}}(0.51)$	1981^{+41}_{-37}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.438	z_{re}	< 16.5	$H(0.61)$	$95.18^{+0.95}_{-1.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.12^{+0.13}_{-0.098}$	$10^9 A_{\mathrm{s}}$	$2.27^{+0.29}_{-0.23}$	$D_{\mathrm{M}}(0.61)$	2306^{+45}_{-41}
n_{s}	$0.973^{+0.016}_{-0.014}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.865^{+0.034}_{-0.034}$	$H(2.33)$	$235.1^{+2.0}_{-2.0}$
y_{cal}	$1.0001^{+0.0062}_{-0.0069}$	D_{40}	1228^{+30}_{-29}	$D_{\mathrm{M}}(2.33)$	5774^{+57}_{-48}
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5720^{+100}_{-94}	$f\sigma_8(0.15)$	$0.457^{+0.019}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2529^{+36}_{-38}	$\sigma_8(0.15)$	$0.751^{+0.034}_{-0.043}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.021}$
A_{100}^{PS}	258^{+70}_{-70}	D_{2000}	$230.7^{+4.9}_{-4.8}$	$\sigma_8(0.38)$	$0.667^{+0.030}_{-0.039}$
A_{143}^{PS}	46^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.973^{+0.016}_{-0.014}$	$f\sigma_8(0.51)$	$0.476^{+0.017}_{-0.022}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24539^{+0.00021}_{-0.00027}$	$\sigma_8(0.51)$	$0.624^{+0.029}_{-0.037}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00022}_{-0.00027}$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.021}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.11}_{-0.098}$	$\sigma_8(0.61)$	$0.594^{+0.028}_{-0.035}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.82^{+0.13}_{-0.11}$	$f\sigma_8(2.33)$	$0.302^{+0.013}_{-0.015}$
$A_{143}^{\mathrm{dust}TT}$	$10.6^{+4.3}_{-4.4}$	z_{*}	$1089.7^{+1.0}_{-0.87}$	$\sigma_8(2.33)$	$0.310^{+0.016}_{-0.018}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.3}_{-8.4}$	r_{*}	$145.23^{+0.95}_{-0.99}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$100\theta_{*}$	$1.0414^{+0.0013}_{-0.0011}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
c_{100}	$0.9996^{+0.0017}_{-0.0017}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.946^{+0.096}_{-0.094}$	f_{2000}^{217}	$106.8^{+5.2}_{-5.3}$
c_{217}	$0.9982^{+0.0015}_{-0.0017}$	z_{drag}	$1059.7^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.3 (\nu: 1.3)$
H_0	$67.7^{+1.8}_{-1.9}$	r_{drag}	$147.9^{+1.0}_{-1.0}$	χ_{lowl}^2	$23.54 (\nu: 0.4)$
Ω_{Λ}	$0.692^{+0.021}_{-0.023}$	k_{D}	$0.1400^{+0.0012}_{-0.0012}$	χ_{plik}^2	$770.3 (\nu: 15.1)$
Ω_{m}	$0.308^{+0.023}_{-0.021}$	$100\theta_{\mathrm{D}}$	$0.16089^{+0.00069}_{-0.00065}$	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0032}_{-0.0030}$	z_{eq}	3327^{+94}_{-110}	χ_{MGS}^2	$1.58 (\nu: 0.2)$
$\Omega_{\nu} h^2$	< 0.00470	k_{eq}	$0.01015^{+0.00029}_{-0.00032}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 1.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0954^{+0.0017}_{-0.0021}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.021}_{-0.018}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.812^{+0.036}_{-0.047}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.011}_{-0.0091}$	χ_{CMB}^2	$803.2 (\nu: 14.5)$
S_8	$0.822^{+0.036}_{-0.040}$	$H(0.15)$	$72.9^{+1.6}_{-1.7}$	χ_{BAO}^2	$6.1 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.020}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	641^{+16}_{-15}		

$\bar{\chi}_{\mathrm{eff}}^2 = 816.56$; $R - 1 = 0.05884$

6.29 base_mnu_plikHM_TTTEEE_lowl_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022505	$0.02241^{+0.00047}_{-0.00045}$	$\Omega_{\mathrm{m}}h^2$	0.1410	$0.1448^{+0.0080}_{-0.0061}$	z_{eq}	3369	3376^{+91}_{-100}
$\Omega_{\mathrm{c}}h^2$	0.11848	$0.1189^{+0.0041}_{-0.0046}$	$\Omega_{\nu}h^2$	0.00001	< 0.00965	k_{eq}	0.010282	$0.01031^{+0.00028}_{-0.00031}$
$100\theta_{\mathrm{MC}}$	1.04112	$1.04091^{+0.00089}_{-0.00091}$	$\Omega_{\mathrm{m}}h^3$	0.09670	$0.0948^{+0.0025}_{-0.0035}$	$100\theta_{\mathrm{eq}}$	0.8197	$0.819^{+0.020}_{-0.017}$
τ	0.073	$0.101^{+0.061}_{-0.058}$	σ_8	0.833	$0.783^{+0.069}_{-0.093}$	$100\theta_{\mathrm{s,eq}}$	0.4526	$0.452^{+0.010}_{-0.0088}$
Σm_{ν} [eV]	0.001	< 0.898	S_8	0.8332	$0.831^{+0.034}_{-0.035}$	$H(0.15)$	73.75	$71.0^{+3.8}_{-4.8}$
$\ln(10^{10}A_{\mathrm{s}})$	3.076	$3.13^{+0.11}_{-0.11}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4564	$0.455^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.15)$	633.0	661^{+53}_{-39}
n_{s}	0.9702	$0.969^{+0.015}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6167	$0.597^{+0.031}_{-0.045}$	$H(0.38)$	83.67	$81.5^{+2.9}_{-3.6}$
y_{cal}	1.0001	$1.0002^{+0.0064}_{-0.0064}$	$\sigma_8/h^{0.5}$	1.006	$0.968^{+0.060}_{-0.080}$	$D_{\mathrm{M}}(0.38)$	1512	1569^{+110}_{-79}
A_{217}^{CIB}	46.8	46^{+20}_{-20}	$r_{\mathrm{drag}}h$	101.1	$96.4^{+6.4}_{-8.7}$	$H(0.51)$	90.28	$88.5^{+2.4}_{-3.0}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.40	—	$\langle d^2 \rangle^{1/2}$	2.467	$2.51^{+0.11}_{-0.10}$	$D_{\mathrm{M}}(0.51)$	1961	2028^{+120}_{-93}
A_{143}^{tSZ}	7.31	$5.6^{+4.4}_{-4.6}$	z_{re}	9.4	$11.9^{+4.8}_{-5.4}$	$H(0.61)$	95.81	$94.3^{+2.0}_{-2.5}$
A_{100}^{PS}	248	256^{+70}_{-70}	$10^9 A_{\mathrm{s}}$	2.168	$2.30^{+0.27}_{-0.25}$	$D_{\mathrm{M}}(0.61)$	2283	2356^{+130}_{-100}
A_{143}^{PS}	44.7	45^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8753	$1.874^{+0.032}_{-0.032}$	$H(2.33)$	235.38	$237.4^{+4.5}_{-3.6}$
$A_{143\times 217}^{\mathrm{PS}}$	45.3	42^{+20}_{-20}	D_{40}	1225.2	1235^{+31}_{-31}	$D_{\mathrm{M}}(2.33)$	5739	5817^{+130}_{-100}
A_{217}^{PS}	118.8	115^{+30}_{-30}	D_{220}	5730	5731^{+96}_{-110}	$f\sigma_8(0.15)$	0.4612	$0.460^{+0.018}_{-0.019}$
A^{kSZ}	0.0	—	D_{810}	2535.6	2534^{+35}_{-36}	$\sigma_8(0.15)$	0.771	$0.722^{+0.067}_{-0.091}$
$A_{100}^{\mathrm{dustTT}}$	8.81	$8.9^{+4.6}_{-4.8}$	D_{1420}	817.6	817^{+12}_{-13}	$f\sigma_8(0.38)$	0.4826	$0.472^{+0.021}_{-0.031}$
$A_{143}^{\mathrm{dustTT}}$	10.96	$10.8^{+4.6}_{-4.5}$	D_{2000}	231.70	$231.2^{+4.3}_{-4.2}$	$\sigma_8(0.38)$	0.685	$0.638^{+0.064}_{-0.086}$
$A_{143\times 217}^{\mathrm{dustTT}}$	19.5	$18.5^{+8.6}_{-8.1}$	$n_{\mathrm{s},0.002}$	0.9702	$0.969^{+0.015}_{-0.014}$	$f\sigma_8(0.51)$	0.4825	$0.468^{+0.023}_{-0.038}$
$A_{217}^{\mathrm{dustTT}}$	94.8	94^{+20}_{-20}	Y_{P}	0.245446	$0.24541^{+0.00018}_{-0.00019}$	$\sigma_8(0.51)$	0.641	$0.596^{+0.061}_{-0.082}$
$A_{100}^{\mathrm{dustTE}}$	0.114	$0.113^{+0.098}_{-0.096}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246773	$0.24674^{+0.00018}_{-0.00019}$	$f\sigma_8(0.61)$	0.4783	$0.462^{+0.027}_{-0.039}$
$A_{100\times 143}^{\mathrm{dustTE}}$	0.134	$0.134^{+0.075}_{-0.076}$	$10^5\mathrm{D}/\mathrm{H}$	2.561	$2.579^{+0.085}_{-0.084}$	$\sigma_8(0.61)$	0.610	$0.567^{+0.059}_{-0.080}$
$A_{100\times 217}^{\mathrm{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	$\mathrm{Age}/\mathrm{Gyr}$	13.743	$13.92^{+0.31}_{-0.23}$	$f\sigma_8(2.33)$	0.3073	$0.288^{+0.028}_{-0.038}$
$A_{143}^{\mathrm{dustTE}}$	0.222	$0.22^{+0.14}_{-0.13}$	z_*	1089.61	$1089.83^{+0.96}_{-0.91}$	$\sigma_8(2.33)$	0.3178	$0.294^{+0.033}_{-0.044}$
$A_{143\times 217}^{\mathrm{dustTE}}$	0.661	$0.66^{+0.21}_{-0.20}$	r_*	144.73	$144.61^{+0.97}_{-0.96}$	$\chi^2_{\mathrm{lensing}}$	9.71	$9.4 (\nu: 1.4)$
$A_{217}^{\mathrm{dustTE}}$	2.07	$2.08^{+0.70}_{-0.69}$	$100\theta_*$	1.04126	$1.04121^{+0.00082}_{-0.00083}$	χ^2_{lowl}	23.17	$24.2 (\nu: 0.7)$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.899	$13.889^{+0.090}_{-0.088}$	χ^2_{plik}	2342.0	$2358.3 (\nu: 18.2)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0015}$	z_{drag}	1060.12	$1060.00^{+0.85}_{-0.79}$	χ^2_{prior}	1.8	$11.5 (\nu: 10.3)$
H_0	68.58	$65.5^{+4.4}_{-5.5}$	r_{drag}	147.35	$147.26^{+0.92}_{-0.90}$	χ^2_{CMB}	2374.8	$2391.9 (\nu: 17.5)$
Ω_{Λ}	0.700	$0.661^{+0.058}_{-0.082}$	k_{D}	0.14069	$0.14077^{+0.00095}_{-0.00093}$			
Ω_{m}	0.300	$0.339^{+0.082}_{-0.058}$	$100\theta_{\mathrm{D}}$	0.160654	$0.16068^{+0.00046}_{-0.00048}$			

Best-fit $\chi^2_{\mathrm{eff}} = 2376.63$; $\bar{\chi}^2_{\mathrm{eff}} = 2403.40$; $R - 1 = 0.01886$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.71 commander_dx12_v3_2_29: 23.17 plik_rd12_HM_v22b_TTTEEE: 2341.97

6.30 base_mnu_plikHM_TTTEEE_lowl_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00040}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0011}_{-0.0017}$	$H(0.15)$	$73.0^{+1.3}_{-1.5}$
$\Omega_{\mathrm{c}}h^2$	$0.1180^{+0.0031}_{-0.0038}$	σ_8	$0.819^{+0.034}_{-0.041}$	$D_{\mathrm{M}}(0.15)$	640^{+15}_{-13}
$100\theta_{\mathrm{MC}}$	$1.04110^{+0.00076}_{-0.00075}$	S_8	$0.830^{+0.032}_{-0.035}$	$H(0.38)$	$83.1^{+1.0}_{-1.2}$
τ	$0.088^{+0.059}_{-0.049}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1527^{+31}_{-26}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.341	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.021}_{-0.027}$	$H(0.51)$	$89.78^{+0.87}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.10^{+0.11}_{-0.085}$	$\sigma_8/h^{0.5}$	$0.994^{+0.036}_{-0.043}$	$D_{\mathrm{M}}(0.51)$	1978^{+37}_{-31}
n_{s}	$0.971^{+0.013}_{-0.012}$	$r_{\mathrm{drag}}h$	$99.96^{+2.4}_{-2.6}$	$H(0.61)$	$95.38^{+0.75}_{-0.96}$
y_{cal}	$1.0002^{+0.0064}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	$2.478^{+0.083}_{-0.084}$	$D_{\mathrm{M}}(0.61)$	2302^{+41}_{-34}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	$10.6^{+4.7}_{-4.1}$	$H(2.33)$	$235.7^{+1.7}_{-1.7}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.23^{+0.25}_{-0.18}$	$D_{\mathrm{M}}(2.33)$	5761^{+50}_{-35}
A_{143}^{tSZ}	> 1.18	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.030}_{-0.032}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.018}$
A_{100}^{PS}	255^{+80}_{-70}	D_{40}	1230^{+31}_{-28}	$\sigma_8(0.15)$	$0.757^{+0.032}_{-0.039}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5731^{+92}_{-93}	$f\sigma_8(0.38)$	$0.480^{+0.016}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2533^{+35}_{-34}	$\sigma_8(0.38)$	$0.672^{+0.028}_{-0.036}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.51)$	$0.479^{+0.016}_{-0.020}$
A^{kSZ}	< 9.13	D_{2000}	$231.6^{+4.3}_{-4.2}$	$\sigma_8(0.51)$	$0.629^{+0.026}_{-0.034}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.971^{+0.013}_{-0.012}$	$f\sigma_8(0.61)$	$0.474^{+0.017}_{-0.019}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.5}_{-5.0}$	Y_{P}	$0.24545^{+0.00016}_{-0.00015}$	$\sigma_8(0.61)$	$0.598^{+0.025}_{-0.033}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+7.8}_{-7.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00016}_{-0.00015}$	$f\sigma_8(2.33)$	$0.303^{+0.012}_{-0.014}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.560^{+0.071}_{-0.071}$	$\sigma_8(2.33)$	$0.312^{+0.014}_{-0.017}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.097}_{-0.099}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.79^{+0.12}_{-0.080}$	f_{2000}^{143}	28^{+8}_{-7}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.076}_{-0.078}$	z_*	$1089.57^{+0.67}_{-0.67}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.23}_{-0.21}$	r_*	$144.83^{+0.78}_{-0.68}$	f_{2000}^{217}	$105.9^{+4.9}_{-4.9}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.04131^{+0.00076}_{-0.00075}$	$\chi_{\mathrm{lensing}}^2$	$9.99 (\nu: 1.8)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.074}_{-0.063}$	χ_{lowl}^2	$23.55 (\nu: 0.4)$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.71}_{-0.68}$	z_{drag}	$1060.13^{+0.80}_{-0.81}$	χ_{plik}^2	$2357.9 (\nu: 19.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0014}$	r_{drag}	$147.46^{+0.78}_{-0.68}$	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	k_{D}	$0.14059^{+0.00073}_{-0.00081}$	χ_{MGS}^2	$1.46 (\nu: 0.2)$
H_0	$67.8^{+1.5}_{-1.7}$	$100\theta_{\mathrm{D}}$	$0.16065^{+0.00045}_{-0.00046}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 (\nu: 1.2)$
Ω_{Λ}	$0.691^{+0.018}_{-0.021}$	z_{eq}	3358^{+69}_{-85}	χ_{prior}^2	$11.5 (\nu: 9.7)$
Ω_{m}	$0.309^{+0.021}_{-0.018}$	k_{eq}	$0.01025^{+0.00021}_{-0.00026}$	χ_{CMB}^2	$2391.4 (\nu: 17.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1418^{+0.0027}_{-0.0027}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.017}_{-0.013}$	χ_{BAO}^2	$6.1 (\nu: 0.8)$
$\Omega_{\nu}h^2$	< 0.00366	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0086}_{-0.0068}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2409.01; R - 1 = 0.06296$$

6.31 base_mnu_plikHM_TTTEEE_lowl_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02241^{+0.00047}_{-0.00045}$	$\Omega_{\nu}h^2$	< 0.00965	$100\theta_{\mathrm{eq}}$	$0.819^{+0.020}_{-0.017}$
$\Omega_{\mathrm{c}}h^2$	$0.1188^{+0.0040}_{-0.0045}$	$\Omega_{\mathrm{m}}h^3$	$0.0948^{+0.0025}_{-0.0035}$	$100\theta_{\mathrm{s,eq}}$	$0.452^{+0.010}_{-0.0086}$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00089}_{-0.00091}$	σ_8	$0.783^{+0.069}_{-0.093}$	$H(0.15)$	$71.0^{+3.8}_{-4.8}$
τ	$0.101^{+0.060}_{-0.054}$	S_8	$0.831^{+0.034}_{-0.035}$	$D_{\mathrm{M}}(0.15)$	661^{+53}_{-39}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.898	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.019}_{-0.019}$	$H(0.38)$	$81.5^{+2.9}_{-3.6}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.13^{+0.11}_{-0.10}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.031}_{-0.045}$	$D_{\mathrm{M}}(0.38)$	1569^{+110}_{-79}
n_{s}	$0.969^{+0.015}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.968^{+0.060}_{-0.080}$	$H(0.51)$	$88.5^{+2.4}_{-3.0}$
y_{cal}	$1.0002^{+0.0064}_{-0.0064}$	$r_{\mathrm{drag}}h$	$96.4^{+6.4}_{-8.7}$	$D_{\mathrm{M}}(0.51)$	2028^{+120}_{-93}
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.51^{+0.11}_{-0.098}$	$H(0.61)$	$94.3^{+2.0}_{-2.5}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	$11.9^{+4.8}_{-4.9}$	$D_{\mathrm{M}}(0.61)$	2357^{+130}_{-100}
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	$10^9 A_{\mathrm{s}}$	$2.30^{+0.27}_{-0.23}$	$H(2.33)$	$237.4^{+4.6}_{-3.6}$
A_{100}^{PS}	256^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.874^{+0.031}_{-0.032}$	$D_{\mathrm{M}}(2.33)$	5817^{+130}_{-100}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1235^{+31}_{-31}	$f\sigma_8(0.15)$	$0.460^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5731^{+96}_{-110}	$\sigma_8(0.15)$	$0.722^{+0.067}_{-0.091}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2534^{+34}_{-36}	$f\sigma_8(0.38)$	$0.472^{+0.021}_{-0.031}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.638^{+0.064}_{-0.086}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.8}$	D_{2000}	$231.2^{+4.3}_{-4.2}$	$f\sigma_8(0.51)$	$0.468^{+0.023}_{-0.038}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.969^{+0.015}_{-0.013}$	$\sigma_8(0.51)$	$0.596^{+0.061}_{-0.082}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.6}_{-8.1}$	Y_{P}	$0.24541^{+0.00018}_{-0.00019}$	$f\sigma_8(0.61)$	$0.462^{+0.027}_{-0.039}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00018}_{-0.00019}$	$\sigma_8(0.61)$	$0.567^{+0.059}_{-0.080}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.099}_{-0.096}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.578^{+0.085}_{-0.084}$	$f\sigma_8(2.33)$	$0.288^{+0.028}_{-0.038}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.075}_{-0.076}$	Age/Gyr	$13.92^{+0.31}_{-0.23}$	$\sigma_8(2.33)$	$0.294^{+0.033}_{-0.044}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.83^{+0.96}_{-0.91}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	r_*	$144.62^{+0.97}_{-0.95}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$100\theta_*$	$1.04121^{+0.00082}_{-0.00083}$	f_{2000}^{217}	$106.4^{+4.8}_{-4.9}$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.70}_{-0.69}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.090}_{-0.088}$	$\chi_{\mathrm{lensing}}^2$	$9.4 (\nu: 1.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.00^{+0.85}_{-0.79}$	χ_{lowl}^2	$24.2 (\nu: 0.7)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	r_{drag}	$147.26^{+0.92}_{-0.91}$	χ_{plik}^2	$2358.2 (\nu: 18.2)$
H_0	$65.5^{+4.4}_{-5.5}$	k_{D}	$0.14077^{+0.00096}_{-0.00093}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{Λ}	$0.661^{+0.058}_{-0.082}$	$100\theta_{\mathrm{D}}$	$0.16068^{+0.00046}_{-0.00048}$	χ_{CMB}^2	$2391.9 (\nu: 17.5)$
Ω_{m}	$0.339^{+0.082}_{-0.058}$	z_{eq}	3375^{+90}_{-100}		
$\Omega_{\mathrm{m}}h^2$	$0.1448^{+0.0080}_{-0.0061}$	k_{eq}	$0.01031^{+0.00028}_{-0.00031}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2403.37; R - 1 = 0.01980$$

6.32 base_mnu_plikHM_TTTEEE_lowl_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00040}_{-0.00038}$	$\Omega_m h^3$	$0.0961^{+0.0011}_{-0.0017}$	$H(0.15)$	$73.0^{+1.3}_{-1.5}$
$\Omega_c h^2$	$0.1180^{+0.0031}_{-0.0038}$	σ_8	$0.819^{+0.034}_{-0.041}$	$D_M(0.15)$	640^{+15}_{-13}
$100\theta_{MC}$	$1.04110^{+0.00076}_{-0.00075}$	S_8	$0.830^{+0.032}_{-0.035}$	$H(0.38)$	$83.1^{+1.0}_{-1.2}$
τ	$0.088^{+0.058}_{-0.047}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.019}$	$D_M(0.38)$	1526^{+31}_{-26}
Σm_ν [eV]	< 0.341	$\sigma_8 \Omega_m^{0.25}$	$0.610^{+0.021}_{-0.027}$	$H(0.51)$	$89.78^{+0.87}_{-1.1}$
$\ln(10^{10} A_s)$	$3.11^{+0.11}_{-0.080}$	$\sigma_8/h^{0.5}$	$0.995^{+0.036}_{-0.043}$	$D_M(0.51)$	1978^{+37}_{-31}
n_s	$0.971^{+0.013}_{-0.011}$	$r_{\text{drag}} h$	$99.97^{+2.4}_{-2.6}$	$H(0.61)$	$95.38^{+0.75}_{-0.96}$
y_{cal}	$1.0002^{+0.0064}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	$2.479^{+0.083}_{-0.083}$	$D_M(0.61)$	2302^{+41}_{-34}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	$10.7^{+4.3}_{-4.2}$	$H(2.33)$	$235.7^{+1.7}_{-1.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s$	$2.23^{+0.25}_{-0.19}$	$D_M(2.33)$	5761^{+50}_{-36}
A_{143}^{tSZ}	> 1.18	$10^9 A_s e^{-2\tau}$	$1.872^{+0.030}_{-0.032}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.018}$
A_{100}^{PS}	255^{+80}_{-60}	D_{40}	1230^{+31}_{-28}	$\sigma_8(0.15)$	$0.757^{+0.032}_{-0.039}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5731^{+92}_{-93}	$f\sigma_8(0.38)$	$0.480^{+0.016}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{810}	2533^{+35}_{-34}	$\sigma_8(0.38)$	$0.672^{+0.028}_{-0.036}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.51)$	$0.479^{+0.016}_{-0.020}$
A^{kSZ}	< 9.13	D_{2000}	$231.6^{+4.3}_{-4.2}$	$\sigma_8(0.51)$	$0.629^{+0.026}_{-0.034}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.5}$	$n_{s,0.002}$	$0.971^{+0.013}_{-0.011}$	$f\sigma_8(0.61)$	$0.474^{+0.017}_{-0.020}$
A_{143}^{dustTT}	$10.8^{+4.5}_{-5.0}$	Y_P	$0.24545^{+0.00016}_{-0.00015}$	$\sigma_8(0.61)$	$0.598^{+0.025}_{-0.033}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+7.8}_{-7.5}$	Y_P^{BBN}	$0.24678^{+0.00016}_{-0.00015}$	$f\sigma_8(2.33)$	$0.303^{+0.012}_{-0.014}$
A_{217}^{dustTT}	93^{+20}_{-20}	10^5D/H	$2.560^{+0.071}_{-0.071}$	$\sigma_8(2.33)$	$0.312^{+0.014}_{-0.017}$
A_{100}^{dustTE}	$0.113^{+0.097}_{-0.099}$	Age/Gyr	$13.79^{+0.12}_{-0.080}$	f_{2000}^{143}	28^{+8}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.078}$	z_*	$1089.57^{+0.66}_{-0.67}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.21}$	r_*	$144.84^{+0.78}_{-0.68}$	f_{2000}^{217}	$105.9^{+5.0}_{-4.9}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.04131^{+0.00076}_{-0.00075}$	χ_{lensing}^2	$9.99 (\nu: 1.8)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.909^{+0.074}_{-0.063}$	χ_{lowl}^2	$23.55 (\nu: 0.4)$
A_{217}^{dustTE}	$2.07^{+0.71}_{-0.68}$	z_{drag}	$1060.13^{+0.80}_{-0.81}$	χ_{plik}^2	$2357.8 (\nu: 19.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0014}$	r_{drag}	$147.46^{+0.78}_{-0.68}$	$\chi_{6\text{DF}}^2$	$0.053 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	k_D	$0.14059^{+0.00073}_{-0.00081}$	χ_{MGS}^2	$1.47 (\nu: 0.2)$
H_0	$67.8^{+1.5}_{-1.7}$	$100\theta_D$	$0.16065^{+0.00043}_{-0.00046}$	χ_{DR12BAO}^2	$4.6 (\nu: 1.2)$
Ω_Λ	$0.691^{+0.018}_{-0.021}$	z_{eq}	3358^{+68}_{-84}	χ_{prior}^2	$11.5 (\nu: 9.7)$
Ω_m	$0.309^{+0.021}_{-0.018}$	k_{eq}	$0.01025^{+0.00021}_{-0.00026}$	χ_{CMB}^2	$2391.4 (\nu: 17.2)$
$\Omega_m h^2$	$0.1418^{+0.0026}_{-0.0027}$	$100\theta_{\text{eq}}$	$0.822^{+0.017}_{-0.013}$	χ_{BAO}^2	$6.1 (\nu: 0.8)$
$\Omega_\nu h^2$	< 0.00366	$100\theta_{s,\text{eq}}$	$0.4538^{+0.0085}_{-0.0068}$		

$$\bar{\chi}_{\text{eff}}^2 = 2408.99; R - 1 = 0.06301$$

6.33 base_mnu_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02206^{+0.00058}_{-0.00068}$	$\sigma_8 \Omega_m^{0.5}$	0.4564	$0.458^{+0.023}_{-0.023}$	$H(0.15)$	73.09	$71.4^{+2.8}_{-5.8}$
$\Omega_c h^2$	0.1197	$0.1210^{+0.0062}_{-0.0048}$	$\sigma_8 \Omega_m^{0.25}$	0.6125	$0.603^{+0.024}_{-0.040}$	$D_M(0.15)$	639.3	656^{+66}_{-29}
$100\theta_{MC}$	1.04091	$1.0407^{+0.0013}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.998	$0.978^{+0.038}_{-0.077}$	$H(0.38)$	83.15	$81.9^{+2.1}_{-4.2}$
τ	0.0529	$0.052^{+0.022}_{-0.020}$	$r_{drag} h$	99.98	$97.0^{+5.4}_{-11}$	$D_M(0.38)$	1525	1560^{+130}_{-58}
Σm_ν [eV]	0.000	< 0.618	$\langle d^2 \rangle^{1/2}$	2.445	$2.451^{+0.078}_{-0.067}$	$H(0.51)$	89.84	$88.8^{+1.7}_{-3.4}$
$\ln(10^{10} A_s)$	3.0395	$3.042^{+0.043}_{-0.040}$	z_{re}	7.56	$7.6^{+2.1}_{-2.2}$	$D_M(0.51)$	1976	2017^{+150}_{-68}
n_s	0.9657	$0.961^{+0.015}_{-0.018}$	$10^9 A_s$	2.089	$2.095^{+0.091}_{-0.082}$	$H(0.61)$	95.43	$94.6^{+1.4}_{-2.8}$
y_{cal}	1.0002	$1.0006^{+0.0065}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.8797	$1.886^{+0.033}_{-0.031}$	$D_M(0.61)$	2300	2345^{+160}_{-73}
A_{217}^{CIB}	49.3	48^{+20}_{-20}	D_{40}	1226.5	1235^{+36}_{-36}	$H(2.33)$	235.85	$237.4^{+6.4}_{-3.5}$
$\xi^{tSZ \times CIB}$	0.22	—	D_{220}	5712	5714^{+100}_{-110}	$D_M(2.33)$	5757	5800^{+150}_{-70}
A_{143}^{tSZ}	7.2	—	D_{810}	2535.2	2538^{+36}_{-35}	$f\sigma_8(0.15)$	0.4606	$0.462^{+0.021}_{-0.021}$
A_{100}^{PS}	254	265^{+70}_{-70}	D_{1420}	815.2	814^{+13}_{-13}	$\sigma_8(0.15)$	0.760	$0.732^{+0.041}_{-0.087}$
A_{143}^{PS}	47.3	50^{+20}_{-20}	D_{2000}	230.06	$229.3^{+4.7}_{-5.0}$	$f\sigma_8(0.38)$	0.4797	$0.475^{+0.017}_{-0.027}$
$A_{143 \times 217}^{PS}$	44.0	44^{+20}_{-20}	$n_{s,0.002}$	0.9657	$0.961^{+0.015}_{-0.018}$	$\sigma_8(0.38)$	0.674	$0.647^{+0.038}_{-0.084}$
A_{217}^{PS}	117.8	115^{+30}_{-30}	Y_P	0.245329	$0.24526^{+0.00024}_{-0.00031}$	$f\sigma_8(0.51)$	0.4786	$0.471^{+0.017}_{-0.034}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246655	$0.24659^{+0.00024}_{-0.00031}$	$\sigma_8(0.51)$	0.630	$0.605^{+0.037}_{-0.081}$
A_{100}^{dustTT}	8.90	$8.9^{+4.7}_{-4.8}$	$10^5 D/H$	2.617	$2.64^{+0.13}_{-0.11}$	$f\sigma_8(0.61)$	0.4738	$0.465^{+0.017}_{-0.039}$
A_{143}^{dustTT}	10.79	$10.7^{+4.5}_{-4.6}$	Age/Gyr	13.784	$13.88^{+0.35}_{-0.16}$	$\sigma_8(0.61)$	0.600	$0.575^{+0.036}_{-0.079}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.3^{+8.4}_{-8.5}$	z_*	1090.09	$1090.4^{+1.5}_{-1.1}$	$f\sigma_8(2.33)$	0.3016	$0.290^{+0.017}_{-0.038}$
A_{217}^{dustTT}	94.3	93^{+20}_{-20}	r_*	144.65	$144.4^{+1.1}_{-1.4}$	$\sigma_8(2.33)$	0.3116	$0.298^{+0.020}_{-0.044}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04109	$1.0409^{+0.0012}_{-0.0013}$	f_{2000}^{143}	30.2	32^{+8}_{-8}
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.894	$13.87^{+0.10}_{-0.13}$	$f_{2000}^{143 \times 217}$	33.0	34^{+6}_{-5}
H_0	67.8	$65.9^{+3.3}_{-6.8}$	z_{drag}	1059.51	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	107.5	$108.5^{+5.2}_{-5.0}$
Ω_Λ	0.692	$0.666^{+0.043}_{-0.11}$	r_{drag}	147.37	$147.2^{+1.1}_{-1.3}$	$\chi^2_{lensing}$	9.04	$9.43 (\nu: 0.5)$
Ω_m	0.308	$0.334^{+0.11}_{-0.043}$	k_D	0.14044	$0.1406^{+0.0013}_{-0.0012}$	χ^2_{small}	395.86	$397.0 (\nu: 1.5)$
$\Omega_m h^2$	0.1419	$0.145^{+0.011}_{-0.0057}$	$100\theta_D$	0.16100	$0.16111^{+0.00072}_{-0.00067}$	χ^2_{lowl}	23.26	$24.0 (\nu: 0.7)$
$\Omega_\nu h^2$	0.00000	< 0.00664	z_{eq}	3390	3419^{+140}_{-110}	χ^2_{plik}	758.5	$771.9 (\nu: 14.4)$
$\Omega_m h^3$	0.09625	$0.0953^{+0.0018}_{-0.0036}$	k_{eq}	0.010348	$0.01044^{+0.00042}_{-0.00033}$	χ^2_{prior}	1.5	$7.3 (\nu: 6.8)$
σ_8	0.822	$0.794^{+0.042}_{-0.088}$	$100\theta_{eq}$	0.8149	$0.810^{+0.021}_{-0.024}$	χ^2_{CMB}	1186.6	$1202.3 (\nu: 16.6)$
S_8	0.8333	$0.836^{+0.043}_{-0.042}$	$100\theta_{s,eq}$	0.4503	$0.448^{+0.011}_{-0.012}$			

Best-fit $\chi^2_{eff} = 1188.10$; $\bar{\chi}^2_{eff} = 1209.58$; $R - 1 = 0.00659$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.04 simall_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2_29: 23.26 plik_rd12_HM.v22_TT: 758.46

6.34 base_mnu_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02207^{+0.00058}_{-0.00068}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023}$	$H(0.15)$	$71.4^{+2.8}_{-5.9}$
$\Omega_{\mathrm{c}} h^2$	$0.1209^{+0.0062}_{-0.0048}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.024}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	656^{+67}_{-29}
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0013}_{-0.0014}$	$\sigma_8/h^{0.5}$	$0.978^{+0.039}_{-0.078}$	$H(0.38)$	$81.9^{+2.1}_{-4.3}$
τ	$0.054^{+0.019}_{-0.013}$	$r_{\mathrm{drag}} h$	$97.1^{+5.4}_{-11}$	$D_{\mathrm{M}}(0.38)$	1560^{+130}_{-58}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.626	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.078}_{-0.067}$	$H(0.51)$	$88.8^{+1.7}_{-3.4}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.041}_{-0.028}$	z_{re}	< 9.47	$D_{\mathrm{M}}(0.51)$	2017^{+150}_{-68}
n_{s}	$0.962^{+0.014}_{-0.018}$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.087}_{-0.059}$	$H(0.61)$	$94.6^{+1.5}_{-2.8}$
y_{cal}	$1.0005^{+0.0065}_{-0.0065}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.034}_{-0.031}$	$D_{\mathrm{M}}(0.61)$	2344^{+170}_{-74}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1235^{+36}_{-36}	$H(2.33)$	$237.4^{+6.5}_{-3.5}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5714^{+110}_{-110}	$D_{\mathrm{M}}(2.33)$	5800^{+150}_{-70}
A_{143}^{tSZ}	—	D_{810}	2537^{+36}_{-35}	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
A_{100}^{PS}	265^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.15)$	$0.732^{+0.041}_{-0.089}$
A_{143}^{PS}	50^{+20}_{-20}	D_{2000}	$229.3^{+4.7}_{-5.0}$	$f\sigma_8(0.38)$	$0.475^{+0.018}_{-0.027}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.962^{+0.014}_{-0.018}$	$\sigma_8(0.38)$	$0.647^{+0.038}_{-0.085}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24526^{+0.00024}_{-0.00031}$	$f\sigma_8(0.51)$	$0.471^{+0.017}_{-0.035}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24659^{+0.00024}_{-0.00031}$	$\sigma_8(0.51)$	$0.605^{+0.037}_{-0.083}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.13}_{-0.11}$	$f\sigma_8(0.61)$	$0.465^{+0.017}_{-0.039}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.5}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.88^{+0.32}_{-0.17}$	$\sigma_8(0.61)$	$0.575^{+0.036}_{-0.080}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.5}$	z_{*}	$1090.4^{+1.5}_{-1.1}$	$f\sigma_8(2.33)$	$0.291^{+0.017}_{-0.039}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	r_{*}	$144.4^{+1.1}_{-1.4}$	$\sigma_8(2.33)$	$0.298^{+0.020}_{-0.045}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{*}$	$1.0409^{+0.0012}_{-0.0013}$	f_{2000}^{143}	32^{+8}_{-8}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.87^{+0.10}_{-0.13}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-5}
H_0	$65.9^{+3.3}_{-6.8}$	z_{drag}	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	$108.5^{+5.1}_{-5.0}$
Ω_{Λ}	$0.666^{+0.044}_{-0.11}$	r_{drag}	$147.2^{+1.1}_{-1.3}$	$\chi_{\mathrm{lensing}}^2$	$9.40 (\nu: 0.5)$
Ω_{m}	$0.334^{+0.11}_{-0.044}$	k_{D}	$0.1406^{+0.0013}_{-0.0012}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
$\Omega_{\mathrm{m}} h^2$	$0.145^{+0.011}_{-0.0057}$	$100\theta_{\mathrm{D}}$	$0.16111^{+0.00073}_{-0.00067}$	χ_{lowl}^2	$23.9 (\nu: 0.7)$
$\Omega_{\nu} h^2$	< 0.00673	z_{eq}	3417^{+140}_{-110}	χ_{plik}^2	$771.8 (\nu: 14.5)$
$\Omega_{\mathrm{m}} h^3$	$0.0953^{+0.0018}_{-0.0036}$	k_{eq}	$0.01043^{+0.00043}_{-0.00033}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.794^{+0.042}_{-0.089}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.020}_{-0.024}$	χ_{CMB}^2	$1202.1 (\nu: 16.6)$
S_8	$0.836^{+0.043}_{-0.042}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.010}_{-0.012}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1209.38$; $R - 1 = 0.00698$

6.35 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022421	$0.02236^{+0.00041}_{-0.00041}$	$\Omega_\nu h^2$	0.00000	< 0.00376	$100\theta_{\text{eq}}$	0.8145	$0.813^{+0.013}_{-0.015}$
$\Omega_c h^2$	0.11969	$0.1201^{+0.0036}_{-0.0031}$	$\Omega_m h^3$	0.09668	$0.0962^{+0.0010}_{-0.0020}$	$100\theta_{\text{s,eq}}$	0.4500	$0.4491^{+0.0068}_{-0.0075}$
$100\theta_{\text{MC}}$	1.04098	$1.04088^{+0.00082}_{-0.00080}$	σ_8	0.8224	$0.807^{+0.029}_{-0.053}$	$H(0.15)$	73.28	$72.4^{+1.7}_{-3.2}$
τ	0.0532	$0.055^{+0.020}_{-0.019}$	S_8	0.8320	$0.832^{+0.032}_{-0.032}$	$D_{\text{M}}(0.15)$	637.6	646^{+33}_{-17}
$\Sigma m_\nu [\text{eV}]$	0.000	< 0.350	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4557	$0.456^{+0.018}_{-0.017}$	$H(0.38)$	83.33	$82.7^{+1.3}_{-2.4}$
$\ln(10^{10} A_{\text{s}})$	3.0417	$3.046^{+0.039}_{-0.037}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6122	$0.606^{+0.019}_{-0.028}$	$D_{\text{M}}(0.38)$	1522	1538^{+67}_{-34}
n_{s}	0.9664	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9970	$0.985^{+0.029}_{-0.050}$	$H(0.51)$	90.01	$89.5^{+1.1}_{-2.0}$
y_{cal}	1.0005	$1.0007^{+0.0063}_{-0.0061}$	$r_{\text{drag}} h$	100.09	$98.7^{+3.2}_{-5.7}$	$D_{\text{M}}(0.51)$	1972	1992^{+80}_{-40}
A_{217}^{CIB}	47.0	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.445	$2.445^{+0.056}_{-0.054}$	$H(0.61)$	95.61	$95.16^{+0.88}_{-1.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.48	—	z_{re}	7.54	$7.7^{+1.9}_{-2.0}$	$D_{\text{M}}(0.61)$	2295	2317^{+86}_{-44}
A_{143}^{tSZ}	7.15	$5.5^{+4.5}_{-4.6}$	$10^9 A_{\text{s}}$	2.094	$2.103^{+0.084}_{-0.076}$	$H(2.33)$	236.08	$236.8^{+3.2}_{-2.1}$
A_{100}^{PS}	250	259^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8828	$1.884^{+0.028}_{-0.028}$	$D_{\text{M}}(2.33)$	5748	5769^{+83}_{-42}
A_{143}^{PS}	48.2	46^{+20}_{-20}	D_{40}	1228.6	1233^{+31}_{-30}	$f\sigma_8(0.15)$	0.4599	$0.460^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	48.6	42^{+20}_{-20}	D_{220}	5736	5736^{+98}_{-99}	$\sigma_8(0.15)$	0.7602	$0.745^{+0.028}_{-0.052}$
A_{217}^{PS}	119.9	115^{+30}_{-30}	D_{810}	2540.2	2540^{+35}_{-33}	$f\sigma_8(0.38)$	0.4794	$0.477^{+0.014}_{-0.018}$
A^{kSZ}	0.0	—	D_{1420}	818.1	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6741	$0.660^{+0.026}_{-0.049}$
A_{100}^{dustTT}	8.76	$8.9^{+4.7}_{-4.7}$	D_{2000}	231.33	$230.9^{+4.1}_{-4.0}$	$f\sigma_8(0.51)$	0.4784	$0.474^{+0.013}_{-0.021}$
A_{143}^{dustTT}	10.99	$10.9^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9664	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6310	$0.617^{+0.025}_{-0.047}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.4}_{-8.3}$	Y_{P}	0.245415	$0.24539^{+0.00015}_{-0.00017}$	$f\sigma_8(0.61)$	0.4736	$0.469^{+0.013}_{-0.023}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246742	$0.24672^{+0.00015}_{-0.00017}$	$\sigma_8(0.61)$	0.6004	$0.587^{+0.024}_{-0.045}$
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.095}$	$10^5 D/\text{H}$	2.576	$2.587^{+0.078}_{-0.073}$	$f\sigma_8(2.33)$	0.3019	$0.296^{+0.010}_{-0.024}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.075}$	Age/Gyr	13.761	$13.81^{+0.19}_{-0.094}$	$\sigma_8(2.33)$	0.3119	$0.305^{+0.012}_{-0.028}$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	z_*	1089.82	$1089.94^{+0.77}_{-0.71}$	f_{2000}^{143}	28.7	30^{+7}_{-7}
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	r_*	144.48	$144.40^{+0.69}_{-0.77}$	$f_{2000}^{143 \times 217}$	31.89	32^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	1.04112	$1.04108^{+0.00079}_{-0.00076}$	f_{2000}^{217}	106.51	$107.1^{+4.7}_{-4.6}$
A_{217}^{dustTE}	2.08	$2.09^{+0.70}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.877	$13.870^{+0.064}_{-0.071}$	χ_{lensing}^2	9.02	$9.29 (\nu: 0.3)$
c_{100}	0.99972	$0.9997^{+0.0015}_{-0.0015}$	z_{drag}	1060.01	$1059.93^{+0.80}_{-0.80}$	χ_{small}^2	395.85	$397.1 (\nu: 1.7)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.13	$147.06^{+0.69}_{-0.74}$	χ_{lowl}^2	23.26	$23.55 (\nu: 0.4)$
H_0	68.03	$67.1^{+2.0}_{-3.7}$	k_{D}	0.14087	$0.14089^{+0.00079}_{-0.00076}$	χ_{plik}^2	2344.0	$2359.8 (\nu: 17.3)$
Ω_Λ	0.6929	$0.681^{+0.026}_{-0.051}$	$100\theta_{\text{D}}$	0.160709	$0.16076^{+0.00047}_{-0.00046}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.4)$
Ω_{m}	0.3071	$0.319^{+0.051}_{-0.026}$	z_{eq}	3396	3405^{+79}_{-69}	χ_{CMB}^2	2772.2	$2789.8 (\nu: 18.5)$
$\Omega_{\text{m}} h^2$	0.14211	$0.1435^{+0.0056}_{-0.0035}$	k_{eq}	0.010365	$0.01039^{+0.00024}_{-0.00021}$			

Best-fit $\chi_{\text{eff}}^2 = 2773.86$; $\bar{\chi}_{\text{eff}}^2 = 2801.35$; $R - 1 = 0.01138$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.02 simall_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3_2_29: 23.26 plik_rd12_HM_v22b_TTTEEE: 2344.04

6.36 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00041}_{-0.00041}$	$\Omega_\nu h^2$	< 0.00379	$100\theta_{\text{eq}}$	$0.813^{+0.013}_{-0.014}$
$\Omega_c h^2$	$0.1201^{+0.0035}_{-0.0031}$	$\Omega_m h^3$	$0.0962^{+0.0010}_{-0.0020}$	$100\theta_{\text{s,eq}}$	$0.4492^{+0.0067}_{-0.0074}$
$100\theta_{\text{MC}}$	$1.04089^{+0.00081}_{-0.00080}$	σ_8	$0.807^{+0.029}_{-0.054}$	$H(0.15)$	$72.5^{+1.7}_{-3.2}$
τ	$0.056^{+0.018}_{-0.014}$	S_8	$0.832^{+0.032}_{-0.032}$	$D_{\text{M}}(0.15)$	646^{+34}_{-17}
$\Sigma m_\nu [\text{eV}]$	< 0.352	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.456^{+0.018}_{-0.018}$	$H(0.38)$	$82.7^{+1.3}_{-2.4}$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.038}_{-0.029}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.606^{+0.019}_{-0.028}$	$D_{\text{M}}(0.38)$	1538^{+68}_{-34}
n_{s}	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.985^{+0.029}_{-0.051}$	$H(0.51)$	$89.5^{+1.1}_{-2.0}$
y_{cal}	$1.0007^{+0.0063}_{-0.0061}$	$r_{\text{drag}} h$	$98.7^{+3.2}_{-5.8}$	$D_{\text{M}}(0.51)$	1991^{+80}_{-40}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.055}_{-0.052}$	$H(0.61)$	$95.16^{+0.89}_{-1.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.47	$D_{\text{M}}(0.61)$	2316^{+87}_{-44}
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	$10^9 A_{\text{s}}$	$2.106^{+0.081}_{-0.060}$	$H(2.33)$	$236.8^{+3.2}_{-2.1}$
A_{100}^{PS}	259^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.884^{+0.028}_{-0.028}$	$D_{\text{M}}(2.33)$	5769^{+85}_{-42}
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1232^{+31}_{-30}	$f\sigma_8(0.15)$	$0.460^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5736^{+98}_{-99}	$\sigma_8(0.15)$	$0.745^{+0.028}_{-0.053}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2540^{+34}_{-33}	$f\sigma_8(0.38)$	$0.477^{+0.014}_{-0.018}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.38)$	$0.660^{+0.026}_{-0.050}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	D_{2000}	$230.9^{+4.1}_{-4.0}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.021}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.617^{+0.025}_{-0.048}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.3}$	Y_{P}	$0.24539^{+0.00015}_{-0.00017}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.023}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24672^{+0.00015}_{-0.00017}$	$\sigma_8(0.61)$	$0.587^{+0.024}_{-0.046}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.095}$	$10^5 \text{D}/\text{H}$	$2.587^{+0.077}_{-0.073}$	$f\sigma_8(2.33)$	$0.296^{+0.010}_{-0.024}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.075}$	Age/Gyr	$13.81^{+0.19}_{-0.094}$	$\sigma_8(2.33)$	$0.305^{+0.012}_{-0.029}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.93^{+0.77}_{-0.71}$	f_{2000}^{143}	30^{+7}_{-7}
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	r_*	$144.41^{+0.68}_{-0.76}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	$1.04109^{+0.00079}_{-0.00077}$	f_{2000}^{217}	$107.1^{+4.7}_{-4.6}$
A_{217}^{dustTE}	$2.09^{+0.70}_{-0.67}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.871^{+0.064}_{-0.071}$	χ_{lensing}^2	$9.28 (\nu: 0.3)$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	z_{drag}	$1059.93^{+0.80}_{-0.76}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.07^{+0.68}_{-0.74}$	χ_{lowl}^2	$23.54 (\nu: 0.4)$
H_0	$67.1^{+2.0}_{-3.7}$	k_{D}	$0.14088^{+0.00079}_{-0.00076}$	χ_{plik}^2	$2359.7 (\nu: 17.3)$
Ω_{Λ}	$0.681^{+0.025}_{-0.052}$	$100\theta_{\text{D}}$	$0.16076^{+0.00047}_{-0.00046}$	χ_{prior}^2	$11.5 (\nu: 10.4)$
Ω_{m}	$0.319^{+0.052}_{-0.025}$	z_{eq}	3404^{+78}_{-68}	χ_{CMB}^2	$2789.7 (\nu: 18.3)$
$\Omega_{\text{m}} h^2$	$0.1434^{+0.0057}_{-0.0035}$	k_{eq}	$0.01039^{+0.00024}_{-0.00021}$		

$$\bar{\chi}_{\text{eff}}^2 = 2801.19; R - 1 = 0.01124$$

6.37 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022343	$0.02227^{+0.00042}_{-0.00041} \quad (-0.6\sigma)$	σ_8	0.8210	$0.802^{+0.030}_{-0.063} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	0.4508	$0.4499^{+0.0075}_{-0.0074} \quad (+0.3\sigma)$
$\Omega_c h^2$	0.11938	$0.1199^{+0.0035}_{-0.0034} \quad (-0.2\sigma)$	S_8	0.8292	$0.827^{+0.033}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	73.29	$72.3^{+1.9}_{-3.3} \quad (-0.1\sigma)$
$100\theta_{MC}$	1.04091	$1.04083^{+0.00087}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4541	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_M(0.15)$	637.4	$647^{+35}_{-19} \quad (+0.1\sigma)$
τ	0.0532	$0.054^{+0.022}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6106	$0.603^{+0.021}_{-0.028} \quad (-0.4\sigma)$	$H(0.38)$	83.31	$82.6^{+1.4}_{-2.5} \quad (-0.2\sigma)$
Σm_ν [eV]	0.000	$< 0.379 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9952	$0.980^{+0.033}_{-0.052} \quad (-0.4\sigma)$	$D_M(0.38)$	1521	$1541^{+70}_{-38} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0396	$3.042^{+0.043}_{-0.039} \quad (-0.2\sigma)$	$r_{drag} h$	100.24	$98.6^{+3.6}_{-6.0} \quad (-0.0\sigma)$	$H(0.51)$	89.98	$89.4^{+1.2}_{-2.1} \quad (-0.2\sigma)$
n_s	0.9673	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.438	$2.437^{+0.059}_{-0.058} \quad (-0.4\sigma)$	$D_M(0.51)$	1972	$1995^{+82}_{-45} \quad (+0.1\sigma)$
y_{cal}	1.0005	$1.0006^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	7.56	$7.7^{+2.1}_{-2.1} \quad (-0.1\sigma)$	$H(0.61)$	95.56	$95.04^{+0.98}_{-1.8} \quad (-0.2\sigma)$
A_{100}^{PS}	233	$241^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_s$	2.090	$2.095^{+0.092}_{-0.081} \quad (-0.2\sigma)$	$D_M(0.61)$	2295	$2320^{+90}_{-48} \quad (+0.1\sigma)$
A_{143}^{PS}	42.3	$40^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	1.8786	$1.880^{+0.029}_{-0.027} \quad (-0.4\sigma)$	$H(2.33)$	235.79	$236.6^{+3.3}_{-2.4} \quad (-0.2\sigma)$
A_{217}^{PS}	103.7	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1223.7	$1229^{+30}_{-31} \quad (-0.3\sigma)$	$D_M(2.33)$	5751	$5776^{+90}_{-46} \quad (+0.3\sigma)$
A_{217}^{CIB}	42.7	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5719	$5721^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4585	$0.458^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.19	$< 8.79 \quad (-0.8\sigma)$	D_{810}	2536.0	$2536^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7591	$0.740^{+0.028}_{-0.062} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	0.665	$0.66^{+0.32}_{-0.33}$	D_{1420}	816.6	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4781	$0.474^{+0.015}_{-0.018} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.75	—	D_{2000}	230.77	$230.2^{+4.4}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	0.6733	$0.656^{+0.026}_{-0.059} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	0.36	—	$n_{s,0.002}$	0.9673	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4773	$0.472^{+0.015}_{-0.021} \quad (-0.4\sigma)$
A^{kSZ}	0.5	—	Y_P	0.245385	$0.24535^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6302	$0.613^{+0.025}_{-0.057} \quad (-0.3\sigma)$
A_{100}^{dust}	1.009	$1.01^{+0.49}_{-0.49}$	Y_P^{BBN}	0.246711	$0.24668^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	0.4726	$0.466^{+0.015}_{-0.024} \quad (-0.4\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.45}_{-0.45}$	$10^5 D/H$	2.590	$2.604^{+0.078}_{-0.076} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	0.5997	$0.583^{+0.024}_{-0.055} \quad (-0.3\sigma)$
A_{217}^{dust}	0.973	$0.97^{+0.27}_{-0.27}$	Age/Gyr	13.769	$13.83^{+0.21}_{-0.10} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.3016	$0.295^{+0.011}_{-0.025} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	1.018	$1.02^{+0.42}_{-0.42}$	z_*	1089.89	$1090.04^{+0.79}_{-0.72} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3117	$0.303^{+0.013}_{-0.030} \quad (-0.2\sigma)$
c_{100}	0.99772	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.62	$144.54^{+0.78}_{-0.78} \quad (+0.5\sigma)$	f_{2000}^{143}	29.3	$30^{+8}_{-7} \quad (+0.1\sigma)$
c_{217}	1.00120	$1.0011^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_*$	1.04107	$1.04104^{+0.00083}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{217}	106.3	$107.0^{+5.0}_{-5.0} \quad (-0.0\sigma)$
c_{TE}	0.9961	$0.997^{+0.013}_{-0.012}$	$D_M(z_*)/\text{Gpc}$	13.891	$13.884^{+0.073}_{-0.073} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	31.7	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{EE}	0.9917	$0.992^{+0.013}_{-0.013}$	z_{drag}	1059.82	$1059.70^{+0.88}_{-0.84} \quad (-0.7\sigma)$	$\chi_{lensing}^2$	8.92	$9.44 \quad (\nu: 0.4) \quad (+0.2\sigma)$
H_0	68.06	$67.0^{+2.2}_{-3.8} \quad (-0.1\sigma)$	r_{drag}	147.29	$147.24^{+0.79}_{-0.77} \quad (+0.6\sigma)$	χ_{small}^2	395.86	$397.1 \quad (\nu: 1.8) \quad (-0.0\sigma)$
Ω_Λ	0.6940	$0.680^{+0.028}_{-0.054} \quad (-0.0\sigma)$	k_D	0.14063	$0.14064^{+0.00087}_{-0.00090} \quad (-0.8\sigma)$	χ_{lowl}^2	22.92	$23.30 \quad (\nu: 0.4) \quad (-0.3\sigma)$
Ω_m	0.3060	$0.320^{+0.054}_{-0.028} \quad (+0.0\sigma)$	$100\theta_D$	0.160816	$0.16089^{+0.00048}_{-0.00050} \quad (+0.7\sigma)$	$\chi_{CamSpec}^2$	11499.3	$11514.7 \quad (\nu: 15.9)$
$\Omega_m h^2$	0.14172	$0.1432^{+0.0057}_{-0.0040} \quad (-0.1\sigma)$	z_{eq}	3387	$3396^{+78}_{-77} \quad (-0.3\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00000	$< 0.00408 \quad (+0.2\sigma)$	k_{eq}	0.010336	$0.01037^{+0.00024}_{-0.00023} \quad (-0.3\sigma)$	χ_{CMB}^2	11927.0	$11944.5 \quad (\nu: 18.0) \quad (+1503.3\sigma)$
$\Omega_m h^3$	0.09645	$0.0959^{+0.0012}_{-0.0022} \quad (-0.6\sigma)$	$100\theta_{eq}$	0.8159	$0.814^{+0.015}_{-0.014} \quad (+0.2\sigma)$			

Best-fit $\chi_{eff}^2 = 11929.03$; $\Delta\chi_{eff}^2 = 9155.18$; $\bar{\chi}_{eff}^2 = 11952.30$; $\Delta\bar{\chi}_{eff}^2 = 9150.95$; $R - 1 = 0.01307$

χ_{eff}^2 : CMB - smicadx12.Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.92 (Δ -0.10) small_100x143_offlike5_EE_Aplanck.B: 395.86 (Δ 0.01) commander_dx12.v3.2.29: 22.93 (Δ -0.34) CamSpec like_10.7HM_1400_unified: 11499.28

6.38 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02228^{+0.00042}_{-0.00041} \quad (-0.6\sigma)$	σ_8	$0.802^{+0.030}_{-0.064} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	$0.4500^{+0.0074}_{-0.0074} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1198^{+0.0035}_{-0.0033} \quad (-0.2\sigma)$	S_8	$0.827^{+0.034}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$72.3^{+1.9}_{-3.4} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04083^{+0.00087}_{-0.00083} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_M(0.15)$	$647^{+35}_{-19} \quad (+0.1\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.021}_{-0.028} \quad (-0.4\sigma)$	$H(0.38)$	$82.6^{+1.4}_{-2.6} \quad (-0.2\sigma)$
Σm_ν [eV]	$< 0.383 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.033}_{-0.053} \quad (-0.3\sigma)$	$D_M(0.38)$	$1541^{+71}_{-38} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.044^{+0.042}_{-0.029} \quad (-0.2\sigma)$	$r_{drag} h$	$98.6^{+3.6}_{-6.1} \quad (-0.0\sigma)$	$H(0.51)$	$89.4^{+1.2}_{-2.1} \quad (-0.2\sigma)$
n_s	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.058}_{-0.057} \quad (-0.4\sigma)$	$D_M(0.51)$	$1995^{+84}_{-45} \quad (+0.1\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	$< 9.59 \quad (-0.0\sigma)$	$H(0.61)$	$95.04^{+0.98}_{-1.8} \quad (-0.2\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_s$	$2.100^{+0.089}_{-0.060} \quad (-0.2\sigma)$	$D_M(0.61)$	$2320^{+91}_{-48} \quad (+0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.029}_{-0.027} \quad (-0.4\sigma)$	$H(2.33)$	$236.6^{+3.4}_{-2.4} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1229^{+30}_{-31} \quad (-0.3\sigma)$	$D_M(2.33)$	$5776^{+91}_{-47} \quad (+0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5721^{+99}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.8\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.028}_{-0.063} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.32}_{-0.33}$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.018} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	—	D_{2000}	$230.2^{+4.4}_{-4.3} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.026}_{-0.059} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	—	$n_{s,0.002}$	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.022} \quad (-0.4\sigma)$
A^{kSZ}	—	Y_P	$0.24536^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.025}_{-0.057} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	Y_P^{BBN}	$0.24668^{+0.00016}_{-0.00019} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.024} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	$10^5 D/H$	$2.604^{+0.079}_{-0.076} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.584^{+0.024}_{-0.055} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	Age/Gyr	$13.83^{+0.21}_{-0.10} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.011}_{-0.026} \quad (-0.3\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.42}_{-0.42}$	z_*	$1090.03^{+0.80}_{-0.72} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.013}_{-0.030} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.55^{+0.78}_{-0.79} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_*$	$1.04105^{+0.00084}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.0}_{-5.0} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	$D_M(z_*)/Gpc$	$13.885^{+0.072}_{-0.074} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{drag}	$1059.71^{+0.88}_{-0.84} \quad (-0.7\sigma)$	$\chi_{lensing}^2$	$9.39 \quad (\nu: 0.3) \quad (+0.2\sigma)$
H_0	$67.0^{+2.2}_{-3.9} \quad (-0.1\sigma)$	r_{drag}	$147.25^{+0.79}_{-0.77} \quad (+0.6\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.8) \quad (-0.0\sigma)$
Ω_Λ	$0.680^{+0.028}_{-0.054} \quad (-0.1\sigma)$	k_D	$0.14063^{+0.00088}_{-0.00090} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.29 \quad (\nu: 0.4) \quad (-0.3\sigma)$
Ω_m	$0.320^{+0.054}_{-0.028} \quad (+0.1\sigma)$	$100\theta_D$	$0.16088^{+0.00048}_{-0.00049} \quad (+0.7\sigma)$	$\chi_{CamSpec}^2$	$11514.6 \quad (\nu: 15.7)$
$\Omega_m h^2$	$0.1432^{+0.0058}_{-0.0039} \quad (-0.1\sigma)$	z_{eq}	$3395^{+79}_{-76} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$< 0.00412 \quad (+0.2\sigma)$	k_{eq}	$0.01036^{+0.00024}_{-0.00023} \quad (-0.3\sigma)$	χ_{CMB}^2	$11944.4 \quad (\nu: 17.7) \quad (+1512.6\sigma)$
$\Omega_m h^3$	$0.0959^{+0.0012}_{-0.0022} \quad (-0.6\sigma)$	$100\theta_{eq}$	$0.814^{+0.015}_{-0.015} \quad (+0.2\sigma)$		

$$\bar{\chi}_{eff}^2 = 11952.13; \Delta\bar{\chi}_{eff}^2 = 9150.95; R - 1 = 0.01210$$

6.39 base_mnu_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022202	$0.02222^{+0.00049}_{-0.00050}$	$\sigma_8 \Omega_m^{0.25}$	0.6127	$0.603^{+0.025}_{-0.034}$	$H(0.38)$	83.15	$83.00^{+0.94}_{-1.1}$
$\Omega_c h^2$	0.11966	$0.1190^{+0.0033}_{-0.0033}$	$\sigma_8/h^{0.5}$	0.9983	$0.983^{+0.037}_{-0.053}$	$D_M(0.38)$	1525.2	1529^{+29}_{-24}
$100\theta_{MC}$	1.04094	$1.0410^{+0.0010}_{-0.0011}$	$r_{drag}h$	99.99	$99.8^{+2.4}_{-2.6}$	$H(0.51)$	89.84	$89.70^{+0.79}_{-0.95}$
τ	0.0529	$0.053^{+0.023}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.428^{+0.075}_{-0.081}$	$D_M(0.51)$	1976.3	1981^{+34}_{-28}
Σm_ν [eV]	0.003	< 0.211	z_{re}	7.56	$7.6^{+2.2}_{-2.4}$	$H(0.61)$	95.44	$95.30^{+0.68}_{-0.83}$
$\ln(10^{10} A_s)$	3.0404	$3.039^{+0.048}_{-0.045}$	$10^9 A_s$	2.091	$2.09^{+0.10}_{-0.091}$	$D_M(0.61)$	2300.1	2305^{+37}_{-31}
n_s	0.9659	$0.966^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8812	$1.878^{+0.029}_{-0.030}$	$H(2.33)$	235.84	$235.8^{+2.0}_{-2.0}$
y_{cal}	1.0005	$1.0005^{+0.0064}_{-0.0067}$	D_{40}	1227.2	1226^{+33}_{-33}	$D_M(2.33)$	5757.3	5765^{+43}_{-34}
A_{217}^{CIB}	48.7	48^{+20}_{-20}	D_{220}	5716	5720^{+100}_{-100}	$f\sigma_8(0.15)$	0.4607	$0.455^{+0.021}_{-0.025}$
$\xi^{tSZ \times CIB}$	0.30	—	D_{810}	2537.4	2536^{+36}_{-36}	$\sigma_8(0.15)$	0.7601	$0.748^{+0.026}_{-0.043}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.9	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4799	$0.474^{+0.019}_{-0.024}$
A_{100}^{PS}	254	262^{+70}_{-70}	D_{2000}	230.27	$230.0^{+4.7}_{-4.6}$	$\sigma_8(0.38)$	0.6739	$0.663^{+0.022}_{-0.039}$
A_{143}^{PS}	48.7	48^{+20}_{-20}	$n_{s,0.002}$	0.9659	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4788	$0.472^{+0.018}_{-0.024}$
$A_{143 \times 217}^{PS}$	46.0	43^{+20}_{-20}	Y_P	0.245327	$0.24533^{+0.00019}_{-0.00024}$	$\sigma_8(0.51)$	0.6307	$0.620^{+0.021}_{-0.037}$
A_{217}^{PS}	118.9	115^{+30}_{-30}	Y_P^{BBN}	0.246653	$0.24666^{+0.00019}_{-0.00024}$	$f\sigma_8(0.61)$	0.4739	$0.468^{+0.017}_{-0.024}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.618	$2.614^{+0.096}_{-0.089}$	$\sigma_8(0.61)$	0.6002	$0.590^{+0.020}_{-0.035}$
A_{100}^{dustTT}	8.85	$9.0^{+4.8}_{-4.8}$	Age/Gyr	13.784	$13.80^{+0.10}_{-0.077}$	$f\sigma_8(2.33)$	0.3018	$0.2977^{+0.0094}_{-0.016}$
A_{143}^{dustTT}	10.83	$10.7^{+4.6}_{-4.6}$	z_*	1090.10	$1090.02^{+0.75}_{-0.74}$	$\sigma_8(2.33)$	0.3117	$0.307^{+0.010}_{-0.018}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.3}_{-8.4}$	r_*	144.66	$144.80^{+0.89}_{-0.82}$	f_{2000}^{143}	30.1	31^{+8}_{-8}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$100\theta_*$	1.04112	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.894	$13.907^{+0.083}_{-0.078}$	f_{2000}^{217}	107.49	$107.8^{+4.8}_{-4.9}$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	χ_{small}^2	395.9	$397.0 (\nu: 1.7)$
H_0	67.85	$67.7^{+1.4}_{-1.6}$	r_{drag}	147.38	$147.52^{+0.95}_{-0.87}$	χ_{lowl}^2	23.25	$23.11 (\nu: 0.4)$
Ω_Λ	0.6918	$0.690^{+0.018}_{-0.021}$	k_D	0.14043	$0.1403^{+0.0011}_{-0.0012}$	χ_{plik}^2	758.6	$772.0 (\nu: 15.4)$
Ω_m	0.3082	$0.310^{+0.021}_{-0.018}$	$100\theta_D$	0.16101	$0.16101^{+0.00068}_{-0.00065}$	χ_{6DF}^2	0.010	$0.059 (\nu: 0.0)$
$\Omega_m h^2$	0.14189	$0.1419^{+0.0031}_{-0.0030}$	z_{eq}	3390	3375^{+77}_{-80}	χ_{MGS}^2	1.41	$1.39 (\nu: 0.1)$
$\Omega_\nu h^2$	0.00003	< 0.00226	k_{eq}	0.010346	$0.01030^{+0.00023}_{-0.00024}$	$\chi_{DR12BAO}^2$	3.90	$4.7 (\nu: 1.4)$
$\Omega_m h^3$	0.09627	$0.0960^{+0.0012}_{-0.0015}$	$100\theta_{eq}$	0.8150	$0.818^{+0.015}_{-0.014}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.9)$
σ_8	0.8223	$0.809^{+0.028}_{-0.047}$	$100\theta_{s,eq}$	0.4504	$0.4519^{+0.0077}_{-0.0072}$	χ_{BAO}^2	5.32	$6.2 (\nu: 1.0)$
S_8	0.8335	$0.822^{+0.042}_{-0.048}$	$H(0.15)$	73.10	$72.9^{+1.2}_{-1.4}$	χ_{CMB}^2	1177.7	$1192.1 (\nu: 15.4)$
$\sigma_8 \Omega_m^{0.5}$	0.4565	$0.450^{+0.023}_{-0.026}$	$D_M(0.15)$	639.2	641^{+14}_{-12}			

Best-fit $\chi_{eff}^2 = 1184.39$; $\bar{\chi}_{eff}^2 = 1205.62$; $R - 1 = 0.00712$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.90 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2.29: 23.25 plik_rd12_HM_v22.TT: 758.61

6.40 base_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022194	$0.02223^{+0.00048}_{-0.00048}$	$\sigma_8 \Omega_m^{0.25}$	0.6118	$0.603^{+0.024}_{-0.035}$	$H(0.38)$	83.18	$83.06^{+0.89}_{-1.0}$
$\Omega_c h^2$	0.11950	$0.1189^{+0.0032}_{-0.0034}$	$\sigma_8/h^{0.5}$	0.9971	$0.983^{+0.036}_{-0.054}$	$D_M(0.38)$	1524.4	1527^{+26}_{-23}
$100\theta_{MC}$	1.04096	$1.0410^{+0.0011}_{-0.0011}$	$r_{drag}h$	100.11	$99.98^{+2.2}_{-2.4}$	$H(0.51)$	89.86	$89.75^{+0.75}_{-0.86}$
τ	0.0529	$0.054^{+0.023}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.443	$2.426^{+0.074}_{-0.081}$	$D_M(0.51)$	1975.3	1979^{+31}_{-27}
Σm_ν [eV]	0.001	< 0.202	z_{re}	7.56	$7.6^{+2.3}_{-2.3}$	$H(0.61)$	95.45	$95.34^{+0.66}_{-0.77}$
$\ln(10^{10} A_s)$	3.0395	$3.039^{+0.048}_{-0.044}$	$10^9 A_s$	2.090	$2.09^{+0.10}_{-0.089}$	$D_M(0.61)$	2299.1	2303^{+34}_{-29}
n_s	0.9660	$0.967^{+0.011}_{-0.010}$	$10^9 A_s e^{-2\tau}$	1.8797	$1.877^{+0.029}_{-0.030}$	$H(2.33)$	235.73	$235.7^{+1.9}_{-1.9}$
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0067}$	D_{40}	1226.2	1225^{+32}_{-33}	$D_M(2.33)$	5757.1	5763^{+40}_{-32}
A_{217}^{CIB}	49.0	48^{+20}_{-20}	D_{220}	5713	5720^{+100}_{-100}	$f\sigma_8(0.15)$	0.4597	$0.454^{+0.021}_{-0.025}$
$\xi^{tSZ \times CIB}$	0.28	—	D_{810}	2535.9	2535^{+36}_{-36}	$\sigma_8(0.15)$	0.7595	$0.748^{+0.025}_{-0.043}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.4	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4791	$0.473^{+0.019}_{-0.025}$
A_{100}^{PS}	256	262^{+70}_{-80}	D_{2000}	230.08	$230.0^{+4.7}_{-4.5}$	$\sigma_8(0.38)$	0.6735	$0.663^{+0.022}_{-0.039}$
A_{143}^{PS}	48.6	48^{+20}_{-20}	$n_{s,0.002}$	0.9660	$0.967^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4781	$0.472^{+0.017}_{-0.025}$
$A_{143 \times 217}^{PS}$	45.5	43^{+20}_{-20}	Y_P	0.245323	$0.24534^{+0.00018}_{-0.00022}$	$\sigma_8(0.51)$	0.6304	$0.621^{+0.021}_{-0.036}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	Y_P^{BBN}	0.246650	$0.24666^{+0.00018}_{-0.00022}$	$f\sigma_8(0.61)$	0.4733	$0.467^{+0.017}_{-0.024}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.619	$2.612^{+0.092}_{-0.087}$	$\sigma_8(0.61)$	0.5999	$0.591^{+0.020}_{-0.035}$
A_{100}^{dustTT}	8.87	$9.0^{+5.0}_{-4.8}$	Age/Gyr	13.784	$13.798^{+0.093}_{-0.075}$	$f\sigma_8(2.33)$	0.3017	$0.2980^{+0.0094}_{-0.015}$
A_{143}^{dustTT}	10.81	$10.7^{+4.7}_{-4.8}$	z_*	1090.09	$1089.99^{+0.75}_{-0.72}$	$\sigma_8(2.33)$	0.3116	$0.307^{+0.010}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.2}_{-8.4}$	r_*	144.70	$144.84^{+0.92}_{-0.80}$	f_{2000}^{143}	30.3	31^{+8}_{-7}
A_{217}^{dustTT}	94.5	94^{+20}_{-20}	$100\theta_*$	1.04113	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.898	$13.910^{+0.085}_{-0.077}$	f_{2000}^{217}	107.54	$107.8^{+4.9}_{-4.9}$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0017}$	z_{drag}	1059.47	$1059.5^{+1.1}_{-1.1}$	χ_{small}^2	395.9	$397.0 (\nu: 1.7)$
H_0	67.90	$67.8^{+1.3}_{-1.5}$	r_{drag}	147.43	$147.55^{+0.98}_{-0.85}$	χ_{lowl}^2	23.21	$23.05 (\nu: 0.4)$
Ω_Λ	0.6927	$0.691^{+0.017}_{-0.019}$	k_D	0.14037	$0.1403^{+0.0011}_{-0.0011}$	χ_{plik}^2	758.7	$772.1 (\nu: 15.4)$
Ω_m	0.3073	$0.309^{+0.019}_{-0.017}$	$100\theta_D$	0.16103	$0.16101^{+0.00065}_{-0.00062}$	χ_{JLA}^2	1034.88	$1035.03 (\nu: 0.1)$
$\Omega_m h^2$	0.14171	$0.1417^{+0.0030}_{-0.0029}$	z_{eq}	3386	3372^{+74}_{-82}	χ_{6DF}^2	0.006	$0.047 (\nu: 0.0)$
$\Omega_\nu h^2$	0.00001	< 0.00218	k_{eq}	0.010335	$0.01029^{+0.00023}_{-0.00025}$	χ_{MGS}^2	1.47	$1.47 (\nu: 0.1)$
$\Omega_m h^3$	0.09623	$0.0960^{+0.0012}_{-0.0015}$	$100\theta_{eq}$	0.8157	$0.818^{+0.015}_{-0.014}$	$\chi_{DR12BAO}^2$	3.77	$4.5 (\nu: 1.0)$
σ_8	0.8217	$0.809^{+0.027}_{-0.047}$	$100\theta_{s,eq}$	0.4507	$0.4522^{+0.0080}_{-0.0071}$	χ_{prior}^2	1.4	$7.4 (\nu: 7.0)$
S_8	0.8317	$0.821^{+0.041}_{-0.049}$	$H(0.15)$	73.14	$73.0^{+1.2}_{-1.3}$	χ_{BAO}^2	5.25	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_m^{0.5}$	0.4555	$0.449^{+0.022}_{-0.027}$	$D_M(0.15)$	638.8	640^{+13}_{-11}	χ_{CMB}^2	1177.8	$1192.2 (\nu: 15.3)$

Best-fit $\chi_{eff}^2 = 2219.29$; $\bar{\chi}_{eff}^2 = 2240.54$; $R - 1 = 0.00739$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.77 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3.2.29: 23.21 plik_rd12_HM_v22.TT: 758.69
SN - JLA Pantheon18: 1034.88

6.41 base_mnu_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00049}_{-0.00050}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.024}_{-0.034}$	$H(0.38)$	$83.01^{+0.94}_{-1.1}$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0033}_{-0.0033}$	$\sigma_8/h^{0.5}$	$0.984^{+0.036}_{-0.054}$	$D_{\mathrm{M}}(0.38)$	1529^{+28}_{-24}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}} h$	$99.8^{+2.4}_{-2.5}$	$H(0.51)$	$89.70^{+0.79}_{-0.95}$
τ	$0.055^{+0.020}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.073}_{-0.078}$	$D_{\mathrm{M}}(0.51)$	1981^{+33}_{-28}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.210	z_{re}	< 9.58	$H(0.61)$	$95.30^{+0.68}_{-0.83}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.047}_{-0.031}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.063}$	$D_{\mathrm{M}}(0.61)$	2305^{+36}_{-31}
n_{s}	$0.967^{+0.011}_{-0.011}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.030}$	$H(2.33)$	$235.8^{+2.0}_{-2.0}$
y_{cal}	$1.0005^{+0.0064}_{-0.0067}$	D_{40}	1226^{+33}_{-33}	$D_{\mathrm{M}}(2.33)$	5765^{+43}_{-34}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5719^{+100}_{-100}	$f\sigma_8(0.15)$	$0.455^{+0.021}_{-0.025}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2535^{+36}_{-36}	$\sigma_8(0.15)$	$0.748^{+0.025}_{-0.043}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.019}_{-0.024}$
A_{100}^{PS}	262^{+70}_{-70}	D_{2000}	$230.0^{+4.7}_{-4.6}$	$\sigma_8(0.38)$	$0.663^{+0.022}_{-0.038}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.473^{+0.018}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24533^{+0.00019}_{-0.00024}$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.036}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00024}$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.024}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.614^{+0.096}_{-0.089}$	$\sigma_8(0.61)$	$0.591^{+0.020}_{-0.034}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.8}_{-4.8}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.80^{+0.10}_{-0.077}$	$f\sigma_8(2.33)$	$0.2981^{+0.0092}_{-0.015}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.6}$	z_{*}	$1090.02^{+0.76}_{-0.75}$	$\sigma_8(2.33)$	$0.307^{+0.010}_{-0.017}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.4}$	r_{*}	$144.81^{+0.90}_{-0.81}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_{*}$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.908^{+0.083}_{-0.078}$	f_{2000}^{217}	$107.8^{+4.9}_{-4.9}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.9 (\nu: 1.7)$
H_0	$67.7^{+1.4}_{-1.6}$	r_{drag}	$147.53^{+0.96}_{-0.86}$	χ_{lowl}^2	$23.13 (\nu: 0.4)$
Ω_{Λ}	$0.690^{+0.018}_{-0.021}$	k_{D}	$0.1403^{+0.0011}_{-0.0012}$	χ_{plik}^2	$771.8 (\nu: 15.1)$
Ω_{m}	$0.310^{+0.021}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00068}_{-0.00065}$	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0030}_{-0.0030}$	z_{eq}	3375^{+76}_{-80}	χ_{MGS}^2	$1.39 (\nu: 0.2)$
$\Omega_{\nu} h^2$	< 0.00226	k_{eq}	$0.01030^{+0.00023}_{-0.00024}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.4)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0015}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.015}_{-0.014}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.810^{+0.028}_{-0.047}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0077}_{-0.0072}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.823^{+0.041}_{-0.048}$	$H(0.15)$	$72.9^{+1.2}_{-1.4}$	χ_{CMB}^2	$1191.9 (\nu: 15.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.023}_{-0.027}$	$D_{\mathrm{M}}(0.15)$	641^{+14}_{-12}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1205.36; R - 1 = 0.00940$

6.42 base_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02223^{+0.00048}_{-0.00047}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.024}_{-0.035}$	$H(0.38)$	$83.06^{+0.90}_{-1.0}$
$\Omega_c h^2$	$0.1188^{+0.0032}_{-0.0033}$	$\sigma_8/h^{0.5}$	$0.984^{+0.036}_{-0.054}$	$D_M(0.38)$	1527^{+26}_{-23}
$100\theta_{MC}$	$1.0410^{+0.0011}_{-0.0011}$	$r_{drag}h$	$99.99^{+2.3}_{-2.4}$	$H(0.51)$	$89.75^{+0.75}_{-0.86}$
τ	$0.055^{+0.020}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.073}_{-0.079}$	$D_M(0.51)$	1979^{+31}_{-27}
Σm_ν [eV]	< 0.203	z_{re}	< 9.57	$H(0.61)$	$95.34^{+0.66}_{-0.77}$
$\ln(10^{10} A_s)$	$3.042^{+0.046}_{-0.030}$	$10^9 A_s$	$2.095^{+0.099}_{-0.063}$	$D_M(0.61)$	2303^{+34}_{-29}
n_s	$0.967^{+0.010}_{-0.010}$	$10^9 A_s e^{-2\tau}$	$1.877^{+0.029}_{-0.030}$	$H(2.33)$	$235.6^{+1.9}_{-1.9}$
y_{cal}	$1.0005^{+0.0064}_{-0.0067}$	D_{40}	1225^{+32}_{-33}	$D_M(2.33)$	5763^{+40}_{-33}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5720^{+100}_{-100}	$f\sigma_8(0.15)$	$0.455^{+0.021}_{-0.025}$
$\xi^{tSZ \times CIB}$	—	D_{810}	2535^{+36}_{-36}	$\sigma_8(0.15)$	$0.749^{+0.025}_{-0.043}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.018}_{-0.025}$
A_{100}^{PS}	262^{+70}_{-80}	D_{2000}	$230.0^{+4.7}_{-4.5}$	$\sigma_8(0.38)$	$0.664^{+0.022}_{-0.038}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{s,0.002}$	$0.967^{+0.010}_{-0.010}$	$f\sigma_8(0.51)$	$0.473^{+0.017}_{-0.024}$
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	Y_P	$0.24534^{+0.00018}_{-0.00022}$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.036}$
A_{217}^{PS}	115^{+30}_{-30}	Y_P^{BBN}	$0.24666^{+0.00018}_{-0.00022}$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.024}$
A^{kSZ}	—	$10^5 D/H$	$2.612^{+0.091}_{-0.087}$	$\sigma_8(0.61)$	$0.591^{+0.019}_{-0.035}$
A_{100}^{dustTT}	$9.0^{+4.9}_{-4.8}$	Age/Gyr	$13.798^{+0.093}_{-0.076}$	$f\sigma_8(2.33)$	$0.2983^{+0.0092}_{-0.015}$
A_{143}^{dustTT}	$10.7^{+4.7}_{-4.8}$	z_*	$1089.99^{+0.74}_{-0.72}$	$\sigma_8(2.33)$	$0.3076^{+0.0099}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	$18.4^{+8.2}_{-8.4}$	r_*	$144.84^{+0.92}_{-0.80}$	f_{2000}^{143}	31^{+8}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	$D_M(z_*)/\text{Gpc}$	$13.911^{+0.084}_{-0.077}$	f_{2000}^{217}	$107.8^{+4.9}_{-4.9}$
c_{217}	$0.9983^{+0.0017}_{-0.0017}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.9 (\nu: 1.7)$
H_0	$67.8^{+1.3}_{-1.5}$	r_{drag}	$147.56^{+0.97}_{-0.85}$	χ_{lowl}^2	$23.06 (\nu: 0.4)$
Ω_Λ	$0.691^{+0.017}_{-0.019}$	k_D	$0.1403^{+0.0011}_{-0.0012}$	χ_{plik}^2	$771.9 (\nu: 15.1)$
Ω_m	$0.309^{+0.019}_{-0.017}$	$100\theta_D$	$0.16101^{+0.00065}_{-0.00063}$	χ_{JLA}^2	$1035.03 (\nu: 0.1)$
$\Omega_m h^2$	$0.1417^{+0.0030}_{-0.0029}$	z_{eq}	3371^{+73}_{-80}	χ_{6DF}^2	$0.046 (\nu: 0.0)$
$\Omega_\nu h^2$	< 0.00219	k_{eq}	$0.01029^{+0.00022}_{-0.00024}$	χ_{MGS}^2	$1.48 (\nu: 0.1)$
$\Omega_m h^3$	$0.0960^{+0.0012}_{-0.0015}$	$100\theta_{eq}$	$0.819^{+0.015}_{-0.014}$	$\chi_{DR12BAO}^2$	$4.4 (\nu: 1.0)$
σ_8	$0.810^{+0.027}_{-0.047}$	$100\theta_{s,eq}$	$0.4523^{+0.0079}_{-0.0071}$	χ_{prior}^2	$7.3 (\nu: 7.0)$
S_8	$0.821^{+0.041}_{-0.048}$	$H(0.15)$	$73.0^{+1.2}_{-1.3}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_m^{0.5}$	$0.450^{+0.022}_{-0.026}$	$D_M(0.15)$	640^{+13}_{-11}	χ_{CMB}^2	$1191.9 (\nu: 14.9)$

$$\bar{\chi}_{\text{eff}}^2 = 2240.29; R - 1 = 0.00886$$

6.43 base_mnu_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022420	$0.02241^{+0.00036}_{-0.00034}$	$\Omega_m h^3$	0.09670	$0.09648^{+0.00085}_{-0.0011}$	$H(0.15)$	73.29	$73.0^{+1.1}_{-1.2}$
$\Omega_c h^2$	0.11968	$0.1195^{+0.0025}_{-0.0027}$	σ_8	0.8236	$0.814^{+0.024}_{-0.038}$	$D_M(0.15)$	637.4	640^{+12}_{-11}
$100\theta_{MC}$	1.04100	$1.04100^{+0.00077}_{-0.00075}$	S_8	0.8331	$0.828^{+0.034}_{-0.037}$	$H(0.38)$	83.34	$83.13^{+0.81}_{-0.95}$
τ	0.0546	$0.055^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4563	$0.453^{+0.019}_{-0.020}$	$D_M(0.38)$	1521.4	1526^{+25}_{-21}
Σm_ν [eV]	0.001	< 0.173	$\sigma_8 \Omega_m^{0.25}$	0.6130	$0.607^{+0.020}_{-0.026}$	$H(0.51)$	90.02	$89.84^{+0.67}_{-0.79}$
$\ln(10^{10} A_s)$	3.0444	$3.045^{+0.043}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9985	$0.989^{+0.031}_{-0.042}$	$D_M(0.51)$	1971.5	1978^{+30}_{-25}
n_s	0.9669	$0.9666^{+0.0098}_{-0.0096}$	$r_{\text{drag}} h$	100.11	$99.7^{+2.1}_{-2.3}$	$H(0.61)$	95.61	$95.46^{+0.57}_{-0.69}$
y_{cal}	1.0004	$1.0008^{+0.0063}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.447	$2.439^{+0.069}_{-0.068}$	$D_M(0.61)$	2294.7	2301^{+32}_{-27}
A_{217}^{CIB}	46.5	47^{+20}_{-20}	z_{re}	7.69	$7.7^{+2.0}_{-2.1}$	$H(2.33)$	236.08	$236.2^{+1.6}_{-1.6}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.57	—	$10^9 A_s$	2.100	$2.101^{+0.092}_{-0.084}$	$D_M(2.33)$	5747.2	5755^{+35}_{-27}
A_{143}^{tSZ}	7.12	$5.5^{+4.4}_{-4.6}$	$10^9 A_s e^{-2\tau}$	1.8826	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	0.4605	$0.458^{+0.018}_{-0.019}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{40}	1227.6	1229^{+30}_{-30}	$\sigma_8(0.15)$	0.7614	$0.752^{+0.022}_{-0.036}$
A_{143}^{PS}	49.1	46^{+20}_{-20}	D_{220}	5732	5737^{+95}_{-98}	$f\sigma_8(0.38)$	0.4800	$0.477^{+0.016}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	50.7	42^{+20}_{-20}	D_{810}	2540.2	2540^{+34}_{-35}	$\sigma_8(0.38)$	0.6752	$0.667^{+0.020}_{-0.032}$
A_{217}^{PS}	120.9	115^{+30}_{-30}	D_{1420}	818.2	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4791	$0.475^{+0.015}_{-0.019}$
A^{kSZ}	0.0	—	D_{2000}	231.43	$231.2^{+3.9}_{-4.0}$	$\sigma_8(0.51)$	0.6320	$0.624^{+0.018}_{-0.030}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.8}$	$n_{\text{s},0.002}$	0.9669	$0.9666^{+0.0098}_{-0.0096}$	$f\sigma_8(0.61)$	0.4743	$0.470^{+0.014}_{-0.018}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.6}$	Y_{P}	0.245415	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.6014	$0.594^{+0.018}_{-0.029}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.5}_{-8.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.246742	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3024	$0.2994^{+0.0083}_{-0.013}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.576	$2.579^{+0.065}_{-0.064}$	$\sigma_8(2.33)$	0.3124	$0.3088^{+0.0090}_{-0.015}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.096}$	Age/Gyr	13.760	$13.779^{+0.079}_{-0.062}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.073}_{-0.075}$	z_*	1089.82	$1089.82^{+0.56}_{-0.58}$	$f_{2000}^{143 \times 217}$	31.83	32^{+5}_{-5}
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	r_*	144.48	$144.55^{+0.62}_{-0.60}$	f_{2000}^{217}	106.42	$106.9^{+4.5}_{-4.6}$
A_{143}^{dustTE}	0.226	$0.22^{+0.15}_{-0.14}$	$100\theta_*$	1.04116	$1.04118^{+0.00075}_{-0.00074}$	χ_{simall}^2	396.08	$397.1 (\nu: 1.8)$
$A_{143 \times 217}^{\text{dustTE}}$	0.667	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.883^{+0.060}_{-0.058}$	χ_{lowl}^2	23.21	$23.25 (\nu: 0.4)$
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.68}$	z_{drag}	1060.01	$1059.99^{+0.75}_{-0.74}$	χ_{plik}^2	2343.8	$2359.3 (\nu: 17.4)$
c_{100}	0.99970	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	147.13	$147.20^{+0.65}_{-0.63}$	$\chi_{6\text{DF}}^2$	0.006	$0.051 (\nu: 0.0)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14086	$0.14078^{+0.00076}_{-0.00077}$	χ_{MGS}^2	1.47	$1.33 (\nu: 0.1)$
H_0	68.04	$67.8^{+1.3}_{-1.4}$	$100\theta_{\text{D}}$	0.160716	$0.16074^{+0.00044}_{-0.00044}$	χ_{DR12BAO}^2	3.82	$4.7 (\nu: 1.1)$
Ω_Λ	0.6931	$0.690^{+0.016}_{-0.019}$	z_{eq}	3396	3390^{+58}_{-60}	χ_{prior}^2	1.7	$11.6 (\nu: 10.4)$
Ω_m	0.3069	$0.310^{+0.019}_{-0.016}$	k_{eq}	0.010364	$0.01035^{+0.00018}_{-0.00018}$	χ_{BAO}^2	5.30	$6.1 (\nu: 0.7)$
$\Omega_m h^2$	0.14211	$0.1424^{+0.0025}_{-0.0025}$	$100\theta_{\text{eq}}$	0.8146	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	2763.1	$2779.7 (\nu: 17.0)$
$\Omega_\nu h^2$	0.00001	< 0.00186	$100\theta_{\text{s,eq}}$	0.4500	$0.4506^{+0.0059}_{-0.0055}$			

Best-fit $\chi_{\text{eff}}^2 = 2770.08$; $\bar{\chi}_{\text{eff}}^2 = 2797.32$; $R - 1 = 0.00869$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.82 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.08 commander_dx12_v3_2_29: 23.21 plik_rd12_HM_v22b_TTTEEE: 2343.84

6.44 base_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022432	$0.02242^{+0.00035}_{-0.00034}$	$\Omega_m h^3$	0.09670	$0.09649^{+0.00086}_{-0.0011}$	$H(0.15)$	73.34	$73.1^{+1.0}_{-1.2}$
$\Omega_c h^2$	0.11954	$0.1193^{+0.0025}_{-0.0026}$	σ_8	0.8238	$0.814^{+0.024}_{-0.037}$	$D_M(0.15)$	636.9	639^{+11}_{-10}
$100\theta_{MC}$	1.04101	$1.04102^{+0.00076}_{-0.00073}$	S_8	0.8321	$0.827^{+0.034}_{-0.037}$	$H(0.38)$	83.38	$83.18^{+0.77}_{-0.89}$
τ	0.0554	$0.055^{+0.020}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4558	$0.453^{+0.018}_{-0.020}$	$D_M(0.38)$	1520.3	1525^{+24}_{-20}
Σm_ν [eV]	0.001	< 0.163	$\sigma_8 \Omega_m^{0.25}$	0.6128	$0.607^{+0.020}_{-0.025}$	$H(0.51)$	90.05	$89.88^{+0.65}_{-0.75}$
$\ln(10^{10} A_s)$	3.0457	$3.045^{+0.043}_{-0.040}$	$\sigma_8/h^{0.5}$	0.9982	$0.989^{+0.031}_{-0.041}$	$D_M(0.51)$	1970.3	1976^{+28}_{-24}
n_s	0.9676	$0.967^{+0.010}_{-0.0095}$	$r_{\text{drag}} h$	100.22	$99.9^{+2.0}_{-2.1}$	$H(0.61)$	95.64	$95.49^{+0.55}_{-0.64}$
y_{cal}	1.0004	$1.0008^{+0.0063}_{-0.0066}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.438^{+0.069}_{-0.068}$	$D_M(0.61)$	2293.4	2300^{+30}_{-26}
A_{217}^{CIB}	45.6	47^{+20}_{-20}	z_{re}	7.76	$7.7^{+2.0}_{-2.1}$	$H(2.33)$	236.00	$236.1^{+1.5}_{-1.5}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.66	—	$10^9 A_s$	2.102	$2.101^{+0.092}_{-0.083}$	$D_M(2.33)$	5746.3	5754^{+32}_{-26}
A_{143}^{tSZ}	7.09	$5.5^{+4.5}_{-4.5}$	$10^9 A_s e^{-2\tau}$	1.8819	$1.881^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	0.4601	$0.457^{+0.017}_{-0.019}$
A_{100}^{PS}	247	257^{+70}_{-70}	D_{40}	1226.1	1228^{+30}_{-30}	$\sigma_8(0.15)$	0.7616	$0.753^{+0.022}_{-0.034}$
A_{143}^{PS}	50.1	45^{+20}_{-20}	D_{220}	5731	5737^{+95}_{-99}	$f\sigma_8(0.38)$	0.4798	$0.476^{+0.016}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	52.8	42^{+20}_{-20}	D_{810}	2540.3	2540^{+34}_{-35}	$\sigma_8(0.38)$	0.6755	$0.667^{+0.019}_{-0.031}$
A_{217}^{PS}	122.0	115^{+30}_{-30}	D_{1420}	818.6	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4789	$0.475^{+0.015}_{-0.018}$
A^{kSZ}	0.0	—	D_{2000}	231.58	$231.2^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	0.6323	$0.625^{+0.018}_{-0.029}$
A_{100}^{dustTT}	8.81	$8.9^{+4.8}_{-4.8}$	$n_{\text{s},0.002}$	0.9676	$0.967^{+0.010}_{-0.0095}$	$f\sigma_8(0.61)$	0.4743	$0.470^{+0.014}_{-0.018}$
A_{143}^{dustTT}	11.05	$10.9^{+4.5}_{-4.5}$	Y_{P}	0.245420	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.6017	$0.594^{+0.017}_{-0.028}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.6}_{-8.4}$	$Y_{\text{P}}^{\text{BBN}}$	0.246746	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3026	$0.2996^{+0.0081}_{-0.012}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.574	$2.577^{+0.064}_{-0.063}$	$\sigma_8(2.33)$	0.3127	$0.3091^{+0.0087}_{-0.014}$
A_{100}^{dustTE}	0.115	$0.115^{+0.099}_{-0.094}$	Age/Gyr	13.758	$13.776^{+0.074}_{-0.060}$	f_{2000}^{143}	28.3	29^{+7}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.073}_{-0.076}$	z_*	1089.80	$1089.80^{+0.57}_{-0.57}$	$f_{2000}^{143 \times 217}$	31.63	32^{+5}_{-5}
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	r_*	144.51	$144.57^{+0.62}_{-0.59}$	f_{2000}^{217}	106.22	$106.8^{+4.5}_{-4.7}$
A_{143}^{dustTE}	0.224	$0.22^{+0.15}_{-0.14}$	$100\theta_*$	1.04116	$1.04119^{+0.00075}_{-0.00073}$	χ_{simall}^2	396.22	$397.2 (\nu: 1.9)$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.880	$13.885^{+0.059}_{-0.057}$	χ_{lowl}^2	23.08	$23.20 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.66}_{-0.69}$	z_{drag}	1060.05	$1060.00^{+0.74}_{-0.75}$	χ_{plik}^2	2344.0	$2359.3 (\nu: 17.4)$
c_{100}	0.99973	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	147.15	$147.22^{+0.64}_{-0.62}$	χ_{JLA}^2	1034.84	$1035.02 (\nu: 0.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14085	$0.14077^{+0.00076}_{-0.00077}$	$\chi_{6\text{DF}}^2$	0.003	$0.042 (\nu: 0.0)$
H_0	68.11	$67.8^{+1.2}_{-1.3}$	$100\theta_{\text{D}}$	0.160704	$0.16073^{+0.00044}_{-0.00044}$	χ_{MGS}^2	1.54	$1.39 (\nu: 0.1)$
Ω_Λ	0.6939	$0.691^{+0.016}_{-0.017}$	z_{eq}	3393	3388^{+56}_{-60}	χ_{DR12BAO}^2	3.71	$4.5 (\nu: 0.8)$
Ω_m	0.3061	$0.309^{+0.017}_{-0.016}$	k_{eq}	0.010354	$0.01034^{+0.00017}_{-0.00018}$	χ_{prior}^2	1.6	$11.5 (\nu: 10.6)$
$\Omega_m h^2$	0.14198	$0.1423^{+0.0024}_{-0.0024}$	$100\theta_{\text{eq}}$	0.8152	$0.816^{+0.011}_{-0.010}$	χ_{BAO}^2	5.25	$5.93 (\nu: 0.5)$
$\Omega_\nu h^2$	0.00001	< 0.00175	$100\theta_{\text{s,eq}}$	0.4503	$0.4508^{+0.0058}_{-0.0053}$	χ_{CMB}^2	2763.3	$2779.7 (\nu: 17.0)$

Best-fit $\chi_{\text{eff}}^2 = 3804.95$; $\bar{\chi}_{\text{eff}}^2 = 3832.15$; $R - 1 = 0.01154$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.71 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.22 commander_dx12_v3_2_29: 23.08 plik_rd12_HM_v22b_TTTEEE: 2343.99 SN - JLA Pantheon18: 1034.84

6.45 base_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02241^{+0.00036}_{-0.00034}$	$\Omega_{\mathrm{m}}h^3$	$0.09648^{+0.00085}_{-0.0011}$	$H(0.15)$	$73.0^{+1.1}_{-1.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1194^{+0.0025}_{-0.0026}$	σ_8	$0.815^{+0.024}_{-0.039}$	$D_{\mathrm{M}}(0.15)$	640^{+12}_{-10}
$100\theta_{\mathrm{MC}}$	$1.04101^{+0.00077}_{-0.00075}$	S_8	$0.828^{+0.034}_{-0.037}$	$H(0.38)$	$83.14^{+0.81}_{-0.94}$
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.019}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1526^{+25}_{-21}
Σm_{ν} [eV]	< 0.175	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.020}_{-0.026}$	$H(0.51)$	$89.85^{+0.67}_{-0.79}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.041}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.990^{+0.031}_{-0.042}$	$D_{\mathrm{M}}(0.51)$	1977^{+29}_{-25}
n_{s}	$0.9667^{+0.0098}_{-0.0096}$	$r_{\mathrm{drag}}h$	$99.8^{+2.1}_{-2.3}$	$H(0.61)$	$95.46^{+0.57}_{-0.69}$
y_{cal}	$1.0008^{+0.0063}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.067}_{-0.066}$	$D_{\mathrm{M}}(0.61)$	2301^{+32}_{-27}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.56	$H(2.33)$	$236.2^{+1.6}_{-1.6}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.104^{+0.088}_{-0.065}$	$D_{\mathrm{M}}(2.33)$	5755^{+35}_{-27}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.6}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.019}$
A_{100}^{PS}	258^{+70}_{-70}	D_{40}	1229^{+30}_{-30}	$\sigma_8(0.15)$	$0.753^{+0.022}_{-0.036}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5737^{+95}_{-98}	$f\sigma_8(0.38)$	$0.477^{+0.016}_{-0.019}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2540^{+34}_{-35}	$\sigma_8(0.38)$	$0.668^{+0.019}_{-0.033}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.476^{+0.015}_{-0.018}$
A^{kSZ}	—	D_{2000}	$231.2^{+3.9}_{-4.0}$	$\sigma_8(0.51)$	$0.625^{+0.018}_{-0.031}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	$n_{\mathrm{s},0.002}$	$0.9667^{+0.0098}_{-0.0096}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.018}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.6}$	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.595^{+0.017}_{-0.030}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.5}_{-8.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2997^{+0.0081}_{-0.013}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.578^{+0.063}_{-0.064}$	$\sigma_8(2.33)$	$0.3091^{+0.0087}_{-0.015}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.096}$	Age/Gyr	$13.779^{+0.079}_{-0.062}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.073}_{-0.075}$	z_*	$1089.82^{+0.56}_{-0.57}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.55^{+0.62}_{-0.61}$	f_{2000}^{217}	$106.8^{+4.4}_{-4.6}$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04118^{+0.00076}_{-0.00074}$	χ_{simall}^2	397.1 (ν : 1.9)
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.883^{+0.059}_{-0.058}$	χ_{lowl}^2	23.25 (ν : 0.4)
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.68}$	z_{drag}	$1059.99^{+0.75}_{-0.74}$	χ_{plik}^2	2359.1 (ν : 17.3)
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	$147.20^{+0.65}_{-0.63}$	$\chi_{6\mathrm{DF}}^2$	0.051 (ν : 0.0)
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14078^{+0.00075}_{-0.00077}$	χ_{MGS}^2	1.34 (ν : 0.1)
H_0	$67.8^{+1.2}_{-1.4}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00044}_{-0.00044}$	$\chi_{\mathrm{DR12BAO}}^2$	4.7 (ν : 1.1)
Ω_{Λ}	$0.690^{+0.016}_{-0.018}$	z_{eq}	3390^{+58}_{-60}	χ_{prior}^2	11.6 (ν : 10.4)
Ω_{m}	$0.310^{+0.018}_{-0.016}$	k_{eq}	$0.01035^{+0.00018}_{-0.00018}$	χ_{BAO}^2	6.1 (ν : 0.7)
$\Omega_{\mathrm{m}}h^2$	$0.1424^{+0.0025}_{-0.0025}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	2779.5 (ν : 16.8)
$\Omega_{\nu}h^2$	< 0.00188	$100\theta_{\mathrm{s,eq}}$	$0.4506^{+0.0059}_{-0.0055}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2797.12$; $R - 1 = 0.00800$

6.46 base_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00035}_{-0.00034}$	$\Omega_m h^3$	$0.09649^{+0.00084}_{-0.0011}$	$H(0.15)$	$73.1^{+1.0}_{-1.2}$
$\Omega_c h^2$	$0.1193^{+0.0025}_{-0.0026}$	σ_8	$0.815^{+0.024}_{-0.036}$	$D_M(0.15)$	$639^{+11}_{-9.9}$
$100\theta_{MC}$	$1.04102^{+0.00075}_{-0.00073}$	S_8	$0.827^{+0.033}_{-0.036}$	$H(0.38)$	$83.18^{+0.77}_{-0.88}$
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.018}_{-0.020}$	$D_M(0.38)$	1525^{+23}_{-20}
Σm_ν [eV]	< 0.163	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.020}_{-0.025}$	$H(0.51)$	$89.88^{+0.65}_{-0.74}$
$\ln(10^{10} A_s)$	$3.047^{+0.042}_{-0.032}$	$\sigma_8/h^{0.5}$	$0.990^{+0.030}_{-0.040}$	$D_M(0.51)$	1976^{+28}_{-24}
n_s	$0.9669^{+0.0099}_{-0.0095}$	$r_{\text{drag}} h$	$99.9^{+2.0}_{-2.1}$	$H(0.61)$	$95.49^{+0.54}_{-0.64}$
y_{cal}	$1.0007^{+0.0063}_{-0.0066}$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.067}_{-0.067}$	$D_M(0.61)$	2300^{+30}_{-26}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.54	$H(2.33)$	$236.1^{+1.5}_{-1.5}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s$	$2.105^{+0.090}_{-0.066}$	$D_M(2.33)$	5754^{+32}_{-26}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.5}$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.028}_{-0.029}$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.018}$
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1228^{+30}_{-30}	$\sigma_8(0.15)$	$0.753^{+0.022}_{-0.034}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5737^{+96}_{-99}	$f\sigma_8(0.38)$	$0.477^{+0.015}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{810}	2540^{+34}_{-35}	$\sigma_8(0.38)$	$0.668^{+0.019}_{-0.030}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.018}$
A^{kSZ}	—	D_{2000}	$231.2^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	$0.625^{+0.018}_{-0.028}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.8}$	$n_{s,0.002}$	$0.9669^{+0.0099}_{-0.0095}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.018}$
A_{143}^{dustTT}	$10.8^{+4.5}_{-4.6}$	Y_P	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.595^{+0.017}_{-0.027}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.7}_{-8.4}$	Y_P^{BBN}	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2999^{+0.0079}_{-0.012}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.577^{+0.064}_{-0.063}$	$\sigma_8(2.33)$	$0.3093^{+0.0085}_{-0.014}$
A_{100}^{dustTE}	$0.115^{+0.099}_{-0.093}$	Age/Gyr	$13.776^{+0.074}_{-0.060}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.072}_{-0.076}$	z_*	$1089.80^{+0.55}_{-0.57}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-4}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.57^{+0.62}_{-0.59}$	f_{2000}^{217}	$106.8^{+4.4}_{-4.6}$
A_{143}^{dustTE}	$0.22^{+0.15}_{-0.14}$	$100\theta_*$	$1.04119^{+0.00075}_{-0.00073}$	χ_{simall}^2	$397.1 (\nu: 1.9)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.885^{+0.059}_{-0.057}$	χ_{lowl}^2	$23.22 (\nu: 0.4)$
A_{217}^{dustTE}	$2.08^{+0.66}_{-0.69}$	z_{drag}	$1060.00^{+0.73}_{-0.75}$	χ_{plik}^2	$2359.1 (\nu: 17.4)$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	r_{drag}	$147.22^{+0.63}_{-0.62}$	χ_{JLA}^2	$1035.02 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.14077^{+0.00074}_{-0.00077}$	$\chi_{6\text{DF}}^2$	$0.041 (\nu: 0.0)$
H_0	$67.8^{+1.2}_{-1.3}$	$100\theta_D$	$0.16073^{+0.00044}_{-0.00043}$	χ_{MGS}^2	$1.40 (\nu: 0.1)$
Ω_Λ	$0.691^{+0.015}_{-0.017}$	z_{eq}	3387^{+56}_{-59}	χ_{DR12BAO}^2	$4.5 (\nu: 0.8)$
Ω_m	$0.309^{+0.017}_{-0.015}$	k_{eq}	$0.01034^{+0.00017}_{-0.00018}$	χ_{prior}^2	$11.5 (\nu: 10.6)$
$\Omega_m h^2$	$0.1422^{+0.0024}_{-0.0024}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.010}$	χ_{BAO}^2	$5.92 (\nu: 0.5)$
$\Omega_\nu h^2$	< 0.00176	$100\theta_{s,\text{eq}}$	$0.4509^{+0.0057}_{-0.0053}$	χ_{CMB}^2	$2779.5 (\nu: 16.9)$

$$\bar{\chi}_{\text{eff}}^2 = 3831.97; R - 1 = 0.01168$$

6.47 base_mnu_CamSpecHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02222^{+0.00050}_{-0.00050} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4545	$0.450^{+0.023}_{-0.028} \quad (-0.1\sigma)$	$D_M(0.15)$	638.1	$641^{+14}_{-13} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.11938	$0.1189^{+0.0032}_{-0.0036} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6109	$0.603^{+0.025}_{-0.036} \quad (-0.1\sigma)$	$H(0.38)$	83.23	$83.02^{+0.99}_{-1.1} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04101	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9958	$0.982^{+0.037}_{-0.057} \quad (-0.1\sigma)$	$D_M(0.38)$	1523.1	$1528^{+28}_{-26} \quad (-0.0\sigma)$
τ	0.0531	$0.054^{+0.022}_{-0.021} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.22	$99.9^{+2.5}_{-2.5} \quad (+0.1\sigma)$	$H(0.51)$	89.90	$89.71^{+0.83}_{-0.92} \quad (+0.0\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.003	$< 0.220 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.424^{+0.075}_{-0.087} \quad (-0.1\sigma)$	$D_M(0.51)$	1973.8	$1980^{+33}_{-30} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	3.0387	$3.038^{+0.045}_{-0.045} \quad (-0.1\sigma)$	z_{re}	7.57	$7.6^{+2.1}_{-2.3} \quad (+0.0\sigma)$	$H(0.61)$	95.49	$95.31^{+0.71}_{-0.82} \quad (+0.0\sigma)$
n_s	0.9670	$0.967^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s$	2.088	$2.088^{+0.096}_{-0.091} \quad (-0.1\sigma)$	$D_M(0.61)$	2297.4	$2304^{+36}_{-33} \quad (-0.0\sigma)$
y_{cal}	1.0005	$1.0005^{+0.0065}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8776	$1.875^{+0.030}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	235.69	$235.7^{+2.0}_{-2.0} \quad (-0.1\sigma)$
A_{100}^{PS}	234	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.0	$1222^{+34}_{-34} \quad (-0.3\sigma)$	$D_M(2.33)$	5755.3	$5764^{+43}_{-35} \quad (-0.0\sigma)$
A_{143}^{PS}	43.5	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5707	$5709^{+110}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4588	$0.454^{+0.021}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	101.9	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	2534.3	$2533^{+36}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7590	$0.747^{+0.026}_{-0.046} \quad (-0.1\sigma)$
A_{217}^{CIB}	44.6	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	815.3	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	0.4784	$0.473^{+0.019}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{tSZ}	6.47	$< 8.73 \quad (-0.7\sigma)$	D_{2000}	230.14	$229.9^{+4.7}_{-4.6} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	0.6731	$0.662^{+0.022}_{-0.041} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.626	$0.65^{+0.32}_{-0.33}$	$n_{s,0.002}$	0.9670	$0.967^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	0.4775	$0.472^{+0.018}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.84	—	Y_P	0.245333	$0.24533^{+0.00019}_{-0.00024} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	0.6301	$0.620^{+0.021}_{-0.038} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.29	—	Y_P^{BBN}	0.246659	$0.24666^{+0.00019}_{-0.00024} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	0.4728	$0.467^{+0.017}_{-0.025} \quad (-0.1\sigma)$
A^{kSZ}	0.3	—	10^5D/H	2.615	$2.615^{+0.097}_{-0.091} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5996	$0.590^{+0.020}_{-0.037} \quad (-0.0\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	Age/Gyr	13.779	$13.80^{+0.10}_{-0.080} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	0.3016	$0.2976^{+0.0093}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{dust}	0.992	$0.98^{+0.45}_{-0.44}$	z_*	1090.06	$1090.02^{+0.77}_{-0.75} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	0.3116	$0.307^{+0.010}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{dust}	0.969	$0.97^{+0.27}_{-0.26}$	r_*	144.71	$144.83^{+0.89}_{-0.84} \quad (+0.1\sigma)$	f_{2000}^{143}	30.5	$30^{+8}_{-8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	0.996	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	1.04118	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	107.1	$107.4^{+5.2}_{-5.1} \quad (-0.3\sigma)$
c_{100}	0.99764	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.899	$13.909^{+0.083}_{-0.080} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.5	$33^{+5}_{-5} \quad (-0.3\sigma)$
c_{217}	1.00136	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	395.87	$397.0 \quad (\nu: 1.6) \quad (+0.0\sigma)$
H_0	67.98	$67.7^{+1.5}_{-1.6} \quad (+0.1\sigma)$	r_{drag}	147.43	$147.55^{+0.94}_{-0.91} \quad (+0.1\sigma)$	χ_{lowl}^2	22.93	$22.85 \quad (\nu: 0.4) \quad (-0.3\sigma)$
Ω_Λ	0.6935	$0.690^{+0.019}_{-0.020} \quad (+0.1\sigma)$	k_D	0.14038	$0.1403^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	χ_{CamSpec}^2	7050.5	$7063.9 \quad (\nu: 15.9)$
Ω_m	0.3065	$0.310^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$100\theta_D$	0.16101	$0.16103^{+0.00068}_{-0.00064} \quad (+0.1\sigma)$	$\chi_{6\text{DF}}^2$	0.003	$0.054 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.14164	$0.1418^{+0.0030}_{-0.0030} \quad (-0.1\sigma)$	z_{eq}	3384	$3373^{+75}_{-82} \quad (-0.1\sigma)$	χ_{MGS}^2	1.54	$1.42 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_\nu h^2$	0.00004	$< 0.00237 \quad (+0.0\sigma)$	k_{eq}	0.010327	$0.01029^{+0.00023}_{-0.00025} \quad (-0.1\sigma)$	χ_{DR12BAO}^2	3.66	$4.6 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_m h^3$	0.09628	$0.0960^{+0.0013}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	0.8162	$0.818^{+0.016}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	2.1	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	0.8210	$0.808^{+0.028}_{-0.050} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	0.4510	$0.4521^{+0.0082}_{-0.0071} \quad (+0.1\sigma)$	χ_{BAO}^2	5.21	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	0.8299	$0.821^{+0.042}_{-0.051} \quad (-0.1\sigma)$	$H(0.15)$	73.21	$73.0^{+1.3}_{-1.4} \quad (+0.0\sigma)$	χ_{CMB}^2	7469.3	$7483.8 \quad (\nu: 15.6) \quad (+1132.2\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 7476.59$; $\Delta\chi_{\text{eff}}^2 = 6292.20$; $\bar{\chi}_{\text{eff}}^2 = 7497.48$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.87$; $R - 1 = 0.00749$

χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.54 (Δ 0.13) DR12BAO: 3.66 (Δ -0.24) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ 0.00) commander_dx12_v3_2_29: 22.93 (Δ -0.33) CamSpec like_10.7HM: 7050.52

6.48 base_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02220	$0.02223^{+0.00051}_{-0.00049} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6099	$0.602^{+0.024}_{-0.036} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	1523.3	$1527^{+26}_{-24} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11938	$0.1188^{+0.0031}_{-0.0036} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9942	$0.982^{+0.036}_{-0.057} \quad (-0.1\sigma)$	$H(0.51)$	89.89	$89.75^{+0.79}_{-0.87} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04100	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	100.22	$100.0^{+2.4}_{-2.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	1974.1	$1978^{+31}_{-29} \quad (-0.0\sigma)$
τ	0.0517	$0.054^{+0.023}_{-0.021} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.436	$2.422^{+0.074}_{-0.089} \quad (-0.1\sigma)$	$H(0.61)$	95.47	$95.35^{+0.68}_{-0.76} \quad (+0.0\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.001	$< 0.214 \quad (+0.0\sigma)$	z_{re}	7.43	$7.6^{+2.2}_{-2.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	2297.7	$2303^{+34}_{-31} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0354	$3.038^{+0.045}_{-0.043} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.081	$2.088^{+0.096}_{-0.089} \quad (-0.1\sigma)$	$H(2.33)$	235.66	$235.6^{+1.9}_{-1.9} \quad (-0.0\sigma)$
n_{s}	0.9662	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8765	$1.874^{+0.030}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5756.0	$5763^{+40}_{-34} \quad (-0.0\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	1223.7	$1222^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4581	$0.454^{+0.021}_{-0.026} \quad (-0.1\sigma)$
A_{100}^{PS}	237	$243^{+70}_{-60} \quad (-0.7\sigma)$	D_{220}	5706	$5710^{+110}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7578	$0.747^{+0.025}_{-0.046} \quad (-0.1\sigma)$
A_{143}^{PS}	39.2	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2532.5	$2533^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4775	$0.473^{+0.019}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	99.97	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{1420}	814.4	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	0.6720	$0.663^{+0.022}_{-0.041} \quad (-0.1\sigma)$
A_{217}^{CIB}	46.1	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	229.76	$229.9^{+4.6}_{-4.6} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	0.4766	$0.472^{+0.017}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{tSZ}	6.64	$< 8.73 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	0.9662	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6290	$0.620^{+0.021}_{-0.038} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.559	$0.65^{+0.32}_{-0.33}$	Y_{P}	0.245326	$0.24534^{+0.00019}_{-0.00023} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	0.4720	$0.467^{+0.016}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.81	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246652	$0.24666^{+0.00020}_{-0.00023} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	0.5986	$0.590^{+0.020}_{-0.036} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.00	—	$10^5 \mathrm{D}/\mathrm{H}$	2.618	$2.613^{+0.095}_{-0.092} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	0.3010	$0.2977^{+0.0093}_{-0.016} \quad (-0.0\sigma)$
A^{kSZ}	0.2	—	Age/Gyr	13.781	$13.798^{+0.094}_{-0.078} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	0.3110	$0.307^{+0.010}_{-0.018} \quad (-0.0\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	z_{*}	1090.08	$1089.99^{+0.77}_{-0.75} \quad (-0.0\sigma)$	f_{2000}^{143}	30.9	$30^{+8}_{-7} \quad (-0.1\sigma)$
A_{143}^{dust}	0.988	$0.98^{+0.44}_{-0.45}$	r_{*}	144.73	$144.86^{+0.87}_{-0.80} \quad (+0.1\sigma)$	f_{2000}^{217}	107.4	$107.3^{+5.1}_{-5.3} \quad (-0.3\sigma)$
A_{217}^{dust}	0.963	$0.97^{+0.26}_{-0.26}$	$100\theta_{*}$	1.04117	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.7	$33^{+6}_{-6} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	0.996	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.900	$13.911^{+0.081}_{-0.079} \quad (+0.0\sigma)$	χ_{small}^2	395.76	$397.0 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{100}	0.99759	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.1} \quad (-0.0\sigma)$	χ_{lowl}^2	23.01	$22.80 \quad (\nu: 0.4) \quad (-0.3\sigma)$
c_{217}	1.00140	$1.0012^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	147.45	$147.57^{+0.93}_{-0.89} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	7050.4	$7064.0 \quad (\nu: 16.1)$
H_0	67.97	$67.8^{+1.4}_{-1.5} \quad (+0.0\sigma)$	k_{D}	0.14035	$0.1402^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	χ_{JLA}^2	1034.85	$1035.02 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	0.6935	$0.692^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16103	$0.16102^{+0.00067}_{-0.00065} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.003	$0.044 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	0.3065	$0.308^{+0.019}_{-0.018} \quad (-0.0\sigma)$	z_{eq}	3383	$3370^{+73}_{-81} \quad (-0.1\sigma)$	χ_{MGS}^2	1.54	$1.49 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.14159	$0.1417^{+0.0029}_{-0.0029} \quad (-0.0\sigma)$	k_{eq}	0.010326	$0.01029^{+0.00022}_{-0.00025} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.66	$4.4 \quad (\nu: 0.8) \quad (-0.0\sigma)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00230 \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	0.8162	$0.819^{+0.016}_{-0.013} \quad (+0.1\sigma)$	χ_{prior}^2	2.2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.09623	$0.0960^{+0.0013}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4510	$0.4524^{+0.0081}_{-0.0069} \quad (+0.1\sigma)$	χ_{BAO}^2	5.21	$5.9 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	0.8197	$0.808^{+0.028}_{-0.050} \quad (-0.1\sigma)$	$H(0.15)$	73.20	$73.0^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{CMB}^2	7469.2	$7483.8 \quad (\nu: 15.7) \quad (+1136.0\sigma)$
S_8	0.8285	$0.819^{+0.040}_{-0.050} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	638.2	$640^{+13}_{-12} \quad (-0.0\sigma)$			
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4538	$0.449^{+0.022}_{-0.027} \quad (-0.1\sigma)$	$H(0.38)$	83.22	$83.07^{+0.95}_{-1.0} \quad (+0.0\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 8511.39$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.10$; $\bar{\chi}_{\mathrm{eff}}^2 = 8532.36$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.82$; $R - 1 = 0.00853$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.54 (Δ 0.07) DR12BAO: 3.66 (Δ -0.11) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.76 (Δ -0.12) commander_dx12_v3_2_29: 23.01 (Δ -0.20) CamSpec like_10.7HM: 7050.38 SN - JLA Pantheon18: 1034.85 (Δ -0.03)

6.49 base_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00050}_{-0.00050} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.023}_{-0.028} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+14}_{-12} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0036} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.024}_{-0.036} \quad (-0.1\sigma)$	$H(0.38)$	$83.03^{+0.99}_{-1.1} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.036}_{-0.058} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+28}_{-25} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.5} \quad (+0.1\sigma)$	$H(0.51)$	$89.72^{+0.82}_{-0.93} \quad (+0.1\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.221 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.073}_{-0.083} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+34}_{-30} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.043}_{-0.030} \quad (-0.1\sigma)$	z_{re}	$< 9.54 \quad (+0.0\sigma)$	$H(0.61)$	$95.32^{+0.71}_{-0.82} \quad (+0.0\sigma)$
n_{s}	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.093}_{-0.063} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+37}_{-33} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.030}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+2.0}_{-2.0} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1222^{+35}_{-34} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+43}_{-35} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5709^{+110}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.021}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2533^{+36}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.025}_{-0.046} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.019}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.7\sigma)$	D_{2000}	$229.9^{+4.7}_{-4.6} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.022}_{-0.041} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24533^{+0.00019}_{-0.00024} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.039} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00024} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.025} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.614^{+0.097}_{-0.091} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.019}_{-0.037} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.80^{+0.10}_{-0.080} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0090}_{-0.016} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.44}$	z_*	$1090.01^{+0.78}_{-0.75} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.307^{+0.010}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.83^{+0.89}_{-0.83} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.2}_{-5.2} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.909^{+0.084}_{-0.079} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.7) \quad (+0.0\sigma)$
H_0	$67.7^{+1.5}_{-1.6} \quad (+0.1\sigma)$	r_{drag}	$147.55^{+0.94}_{-0.91} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.86 \quad (\nu: 0.4) \quad (-0.3\sigma)$
Ω_{Λ}	$0.691^{+0.019}_{-0.020} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.8 \quad (\nu: 15.8)$
Ω_{m}	$0.309^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00068}_{-0.00064} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.053 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0030}_{-0.0030} \quad (-0.1\sigma)$	z_{eq}	$3372^{+75}_{-82} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.43 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\nu} h^2$	$< 0.00237 \quad (+0.0\sigma)$	k_{eq}	$0.01029^{+0.00023}_{-0.00025} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0016} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.016}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
σ_8	$0.809^{+0.027}_{-0.050} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0083}_{-0.0071} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.821^{+0.041}_{-0.051} \quad (-0.1\sigma)$	$H(0.15)$	$73.0^{+1.3}_{-1.4} \quad (+0.1\sigma)$	χ_{CMB}^2	$7483.6 \quad (\nu: 15.3) \quad (+1148.8\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7497.29$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.93$; $R - 1 = 0.00759$

6.50 base_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00050}_{-0.00049} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.024}_{-0.037} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+27}_{-24} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0037} \quad (-0.1\sigma)$	$\sigma_8 / h^{0.5}$	$0.983^{+0.035}_{-0.058} \quad (-0.1\sigma)$	$H(0.51)$	$89.76^{+0.79}_{-0.87} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.4}_{-2.3} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1978^{+32}_{-29} \quad (-0.0\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.072}_{-0.082} \quad (-0.1\sigma)$	$H(0.61)$	$95.35^{+0.68}_{-0.77} \quad (+0.0\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.215 \quad (+0.0\sigma)$	z_{re}	$< 9.58 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2302^{+34}_{-31} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.043}_{-0.031} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.093}_{-0.063} \quad (-0.1\sigma)$	$H(2.33)$	$235.6^{+1.9}_{-1.9} \quad (-0.0\sigma)$
n_{s}	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.030}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+40}_{-34} \quad (-0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	$1222^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.026} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+70}_{-60} \quad (-0.7\sigma)$	D_{220}	$5710^{+110}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.025}_{-0.046} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2533^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.018}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.022}_{-0.040} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.0^{+4.6}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.038} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	Y_{P}	$0.24534^{+0.00019}_{-0.00023} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.016}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00023} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.019}_{-0.036} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.612^{+0.094}_{-0.092} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0091}_{-0.016} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.095}_{-0.078} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.307^{+0.010}_{-0.018} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	z_*	$1089.98^{+0.78}_{-0.74} \quad (-0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	r_*	$144.86^{+0.87}_{-0.80} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.0}_{-5.3} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.912^{+0.081}_{-0.078} \quad (+0.0\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.1} \quad (-0.0\sigma)$	χ_{lowl}^2	$22.81 \quad (\nu: 0.4) \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	$147.57^{+0.93}_{-0.89} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.9 \quad (\nu: 16.0)$
H_0	$67.8^{+1.4}_{-1.5} \quad (+0.0\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.02 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.692^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00067}_{-0.00066} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.308^{+0.019}_{-0.018} \quad (-0.0\sigma)$	z_{eq}	$3369^{+73}_{-82} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.50 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1416^{+0.0029}_{-0.0029} \quad (-0.0\sigma)$	k_{eq}	$0.01028^{+0.00022}_{-0.00025} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\nu} h^2$	$< 0.00231 \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.016}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4524^{+0.0082}_{-0.0069} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.9 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.027}_{-0.050} \quad (-0.1\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{CMB}^2	$7483.6 \quad (\nu: 15.5) \quad (+1151.7\sigma)$
S_8	$0.820^{+0.040}_{-0.051} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+13}_{-12} \quad (-0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.022}_{-0.028} \quad (-0.1\sigma)$	$H(0.38)$	$83.08^{+0.94}_{-1.0} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 8532.17$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.88$; $R - 1 = 0.00943$

6.51 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022331	$0.02234^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	S_8	0.8271	$0.820^{+0.036}_{-0.041} \quad (-0.6\sigma)$	$D_M(0.15)$	637.1	$640^{+14}_{-11} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.11924	$0.1189^{+0.0027}_{-0.0028} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4530	$0.449^{+0.020}_{-0.022} \quad (-0.6\sigma)$	$H(0.38)$	83.33	$83.08^{+0.88}_{-1.1} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04096	$1.04095^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6094	$0.602^{+0.023}_{-0.030} \quad (-0.6\sigma)$	$D_M(0.38)$	1520.8	$1527^{+28}_{-23} \quad (+0.1\sigma)$
τ	0.0530	$0.053^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9933	$0.981^{+0.035}_{-0.049} \quad (-0.6\sigma)$	$H(0.51)$	89.99	$89.77^{+0.72}_{-0.93} \quad (-0.3\sigma)$
Σm_ν [eV]	0.005	$< 0.217 \quad (+0.3\sigma)$	$r_{drag} h$	100.34	$99.9^{+2.2}_{-2.4} \quad (+0.2\sigma)$	$D_M(0.51)$	1971.1	$1979^{+33}_{-27} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0382	$3.038^{+0.044}_{-0.043} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	2.435	$2.423^{+0.070}_{-0.073} \quad (-0.6\sigma)$	$H(0.61)$	95.57	$95.38^{+0.62}_{-0.81} \quad (-0.4\sigma)$
n_s	0.9673	$0.968^{+0.011}_{-0.0098} \quad (+0.2\sigma)$	z_{re}	7.54	$7.6^{+2.1}_{-2.1} \quad (-0.2\sigma)$	$D_M(0.61)$	2294.4	$2303^{+36}_{-29} \quad (+0.1\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0066}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s$	2.087	$2.087^{+0.095}_{-0.088} \quad (-0.4\sigma)$	$H(2.33)$	235.71	$235.8^{+1.6}_{-1.7} \quad (-0.6\sigma)$
A_{100}^{PS}	232	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8768	$1.876^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_M(2.33)$	5750.8	$5761^{+41}_{-31} \quad (+0.5\sigma)$
A_{143}^{PS}	41.7	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	1222.9	$1223^{+31}_{-32} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4574	$0.454^{+0.019}_{-0.021} \quad (-0.6\sigma)$
A_{217}^{PS}	102.5	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	5716	$5720^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7579	$0.746^{+0.025}_{-0.043} \quad (-0.6\sigma)$
A_{217}^{CIB}	43.9	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2534.1	$2534^{+36}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4771	$0.473^{+0.017}_{-0.021} \quad (-0.6\sigma)$
A_{143}^{tSZ}	6.59	$< 8.79 \quad (-0.9\sigma)$	D_{1420}	815.9	$816^{+13}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6723	$0.662^{+0.022}_{-0.039} \quad (-0.6\sigma)$
$r_{143 \times 217}^{PS}$	0.630	$0.66^{+0.31}_{-0.33}$	D_{2000}	230.49	$230.4^{+4.3}_{-4.2} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4764	$0.471^{+0.017}_{-0.022} \quad (-0.6\sigma)$
$r_{143 \times 217}^{CIB}$	0.80	—	$n_{s,0.002}$	0.9673	$0.968^{+0.011}_{-0.0098} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6294	$0.619^{+0.020}_{-0.036} \quad (-0.6\sigma)$
$\xi^{tSZ \times CIB}$	0.26	—	Y_P	0.245380	$0.24538^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	0.4718	$0.467^{+0.016}_{-0.022} \quad (-0.6\sigma)$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246706	$0.24671^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	0.5990	$0.589^{+0.020}_{-0.034} \quad (-0.5\sigma)$
A_{100}^{dust}	1.011	$1.01^{+0.49}_{-0.50}$	$10^5 D/H$	2.593	$2.592^{+0.072}_{-0.071} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.3013	$0.2974^{+0.0092}_{-0.016} \quad (-0.5\sigma)$
A_{143}^{dust}	0.975	$0.96^{+0.45}_{-0.46}$	Age/Gyr	13.769	$13.792^{+0.095}_{-0.069} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3114	$0.307^{+0.010}_{-0.018} \quad (-0.5\sigma)$
A_{217}^{dust}	0.973	$0.98^{+0.26}_{-0.26}$	z_*	1089.90	$1089.87^{+0.60}_{-0.61} \quad (+0.2\sigma)$	f_{2000}^{143}	29.7	$30^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.006	$1.03^{+0.43}_{-0.42}$	r_*	144.66	$144.74^{+0.70}_{-0.63} \quad (+0.8\sigma)$	f_{2000}^{217}	106.53	$106.8^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{100}	0.99768	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04112	$1.04114^{+0.00076}_{-0.00077} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{217}	1.00130	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	13.895	$13.902^{+0.067}_{-0.061} \quad (+0.8\sigma)$	χ_{small}^2	395.85	$396.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.012}$	z_{drag}	1059.78	$1059.78^{+0.88}_{-0.84} \quad (-0.7\sigma)$	χ_{lowl}^2	22.91	$22.85 \quad (\nu: 0.3) \quad (-0.5\sigma)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	r_{drag}	147.34	$147.41^{+0.73}_{-0.67} \quad (+0.9\sigma)$	$\chi_{CamSpec}^2$	11499.2	$11514.8 \quad (\nu: 16.6)$
H_0	68.10	$67.8^{+1.3}_{-1.5} \quad (-0.0\sigma)$	k_D	0.14057	$0.14050^{+0.00084}_{-0.00088} \quad (-1.0\sigma)$	χ_{6DF}^2	0.001	$0.049 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_Λ	0.6946	$0.691^{+0.017}_{-0.019} \quad (+0.1\sigma)$	$100\theta_D$	0.160845	$0.16085^{+0.00049}_{-0.00050} \quad (+0.6\sigma)$	χ_{MGS}^2	1.61	$1.41 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_m	0.3054	$0.309^{+0.019}_{-0.017} \quad (-0.1\sigma)$	z_{eq}	3383	$3376^{+61}_{-65} \quad (-0.6\sigma)$	$\chi_{DR12BAO}^2$	3.59	$4.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.14162	$0.1419^{+0.0026}_{-0.0027} \quad (-0.5\sigma)$	k_{eq}	0.010325	$0.01030^{+0.00019}_{-0.00020} \quad (-0.6\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00005	$< 0.00233 \quad (+0.3\sigma)$	$100\theta_{eq}$	0.8166	$0.818^{+0.012}_{-0.011} \quad (+0.5\sigma)$	χ_{BAO}^2	5.20	$6.0 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\Omega_m h^3$	0.09644	$0.09616^{+0.00099}_{-0.0013} \quad (-0.9\sigma)$	$100\theta_{s,eq}$	0.4511	$0.4518^{+0.0063}_{-0.0058} \quad (+0.6\sigma)$	χ_{CMB}^2	11917.9	$11934.6 \quad (\nu: 16.8) \quad (+1568.4\sigma)$
σ_8	0.8197	$0.807^{+0.027}_{-0.045} \quad (-0.6\sigma)$	$H(0.15)$	73.32	$73.0^{+1.2}_{-1.4} \quad (-0.1\sigma)$			

Best-fit $\chi_{eff}^2 = 11925.28$; $\Delta\chi_{eff}^2 = 9155.19$; $\bar{\chi}_{eff}^2 = 11948.38$; $\Delta\bar{\chi}_{eff}^2 = 9151.06$; $R - 1 = 0.01113$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.61 (Δ 0.14) DR12BAO: 3.59 (Δ -0.22) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.85 (Δ -0.23) commander_dx12_v3_2_29: 22.91 (Δ -0.30) CamSpec like_10.7HM_1400_unified: 11499.17

6.52 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022328	$0.02234^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	S_8	0.8278	$0.819^{+0.035}_{-0.039} \quad (-0.6\sigma)$	$D_M(0.15)$	637.1	$639^{+13}_{-10} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.11927	$0.1188^{+0.0026}_{-0.0028} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4534	$0.449^{+0.019}_{-0.022} \quad (-0.6\sigma)$	$H(0.38)$	83.33	$83.13^{+0.85}_{-1.0} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04097	$1.04096^{+0.00075}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6099	$0.602^{+0.022}_{-0.030} \quad (-0.6\sigma)$	$D_M(0.38)$	1520.8	$1526^{+26}_{-22} \quad (+0.1\sigma)$
τ	0.0533	$0.053^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9943	$0.981^{+0.034}_{-0.048} \quad (-0.6\sigma)$	$H(0.51)$	89.99	$89.81^{+0.70}_{-0.87} \quad (-0.2\sigma)$
Σm_ν [eV]	0.001	$< 0.208 \quad (+0.3\sigma)$	$r_{drag} h$	100.33	$100.0^{+2.1}_{-2.3} \quad (+0.2\sigma)$	$D_M(0.51)$	1971.0	$1977^{+31}_{-26} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0390	$3.038^{+0.044}_{-0.043} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	2.437	$2.422^{+0.069}_{-0.072} \quad (-0.6\sigma)$	$H(0.61)$	95.57	$95.41^{+0.60}_{-0.76} \quad (-0.4\sigma)$
n_s	0.9673	$0.968^{+0.011}_{-0.0099} \quad (+0.2\sigma)$	z_{re}	7.56	$7.6^{+2.1}_{-2.2} \quad (-0.2\sigma)$	$D_M(0.61)$	2294.4	$2301^{+34}_{-28} \quad (+0.1\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_s$	2.088	$2.087^{+0.095}_{-0.089} \quad (-0.4\sigma)$	$H(2.33)$	235.71	$235.8^{+1.6}_{-1.7} \quad (-0.6\sigma)$
A_{100}^{PS}	231	$239^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8775	$1.875^{+0.029}_{-0.030} \quad (-0.5\sigma)$	$D_M(2.33)$	5750.8	$5759^{+39}_{-29} \quad (+0.5\sigma)$
A_{143}^{PS}	46.2	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	1223.3	$1223^{+30}_{-31} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4578	$0.453^{+0.018}_{-0.020} \quad (-0.6\sigma)$
A_{217}^{PS}	103.8	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	5717	$5721^{+96}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7587	$0.747^{+0.024}_{-0.041} \quad (-0.6\sigma)$
A_{217}^{CIB}	43.2	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2534.9	$2534^{+36}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4775	$0.472^{+0.017}_{-0.021} \quad (-0.6\sigma)$
A_{143}^{tSZ}	6.53	$< 8.73 \quad (-0.8\sigma)$	D_{1420}	816.1	$816^{+12}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6730	$0.662^{+0.021}_{-0.036} \quad (-0.6\sigma)$
$r_{143 \times 217}^{PS}$	0.679	$0.66^{+0.31}_{-0.34}$	D_{2000}	230.57	$230.4^{+4.2}_{-4.2} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4768	$0.471^{+0.016}_{-0.021} \quad (-0.6\sigma)$
$r_{143 \times 217}^{CIB}$	0.85	—	$n_{s,0.002}$	0.9673	$0.968^{+0.011}_{-0.0099} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6300	$0.620^{+0.020}_{-0.034} \quad (-0.6\sigma)$
$\xi^{tSZ \times CIB}$	0.52	—	Y_P	0.245379	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	0.4722	$0.467^{+0.016}_{-0.021} \quad (-0.6\sigma)$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246705	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	0.5995	$0.590^{+0.019}_{-0.033} \quad (-0.5\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	$10^5 D/H$	2.593	$2.591^{+0.073}_{-0.070} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	0.3016	$0.2977^{+0.0090}_{-0.014} \quad (-0.5\sigma)$
A_{143}^{dust}	0.983	$0.96^{+0.46}_{-0.48}$	Age/Gyr	13.769	$13.789^{+0.090}_{-0.066} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3116	$0.3070^{+0.0098}_{-0.017} \quad (-0.5\sigma)$
A_{217}^{dust}	0.978	$0.98^{+0.27}_{-0.26}$	z_*	1089.90	$1089.85^{+0.61}_{-0.60} \quad (+0.2\sigma)$	f_{2000}^{143}	29.8	$29^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.004	$1.03^{+0.42}_{-0.42}$	r_*	144.66	$144.76^{+0.69}_{-0.63} \quad (+0.8\sigma)$	f_{2000}^{217}	106.51	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
c_{100}	0.99774	$0.9975^{+0.0026}_{-0.0026} \quad (-3.6\sigma)$	$100\theta_*$	1.04112	$1.04115^{+0.00076}_{-0.00075} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{217}	1.00133	$1.0011^{+0.0039}_{-0.0040} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	13.895	$13.903^{+0.067}_{-0.060} \quad (+0.8\sigma)$	χ_{small}^2	395.86	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.012}$	z_{drag}	1059.78	$1059.79^{+0.87}_{-0.85} \quad (-0.7\sigma)$	χ_{lowl}^2	22.93	$22.82 \quad (\nu: 0.3) \quad (-0.5\sigma)$
c_{EE}	0.9924	$0.992^{+0.013}_{-0.012}$	r_{drag}	147.34	$147.43^{+0.72}_{-0.66} \quad (+0.9\sigma)$	$\chi_{CamSpec}^2$	11499.3	$11514.7 \quad (\nu: 17.0)$
H_0	68.10	$67.8^{+1.2}_{-1.5} \quad (-0.0\sigma)$	k_D	0.14057	$0.14049^{+0.00084}_{-0.00090} \quad (-1.0\sigma)$	χ_{JLA}^2	1034.82	$1035.00 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_Λ	0.6946	$0.692^{+0.016}_{-0.019} \quad (+0.1\sigma)$	$100\theta_D$	0.160847	$0.16084^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ_{6DF}^2	0.001	$0.040 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_m	0.3054	$0.308^{+0.019}_{-0.016} \quad (-0.1\sigma)$	z_{eq}	3384	$3374^{+60}_{-65} \quad (-0.6\sigma)$	χ_{MGS}^2	1.61	$1.47 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_m h^2$	0.14160	$0.1418^{+0.0025}_{-0.0026} \quad (-0.5\sigma)$	k_{eq}	0.010327	$0.01030^{+0.00018}_{-0.00020} \quad (-0.6\sigma)$	$\chi_{DR12BAO}^2$	3.60	$4.4 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_\nu h^2$	0.00001	$< 0.00223 \quad (+0.3\sigma)$	$100\theta_{eq}$	0.8165	$0.818^{+0.012}_{-0.011} \quad (+0.6\sigma)$	χ_{prior}^2	2.0	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^3$	0.09643	$0.09618^{+0.00097}_{-0.0013} \quad (-0.9\sigma)$	$100\theta_{s,eq}$	0.4511	$0.4521^{+0.0062}_{-0.0058} \quad (+0.6\sigma)$	χ_{BAO}^2	5.21	$5.89 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	0.8205	$0.808^{+0.027}_{-0.043} \quad (-0.6\sigma)$	$H(0.15)$	73.32	$73.1^{+1.1}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	11918.0	$11934.5 \quad (\nu: 17.2) \quad (+1568.1\sigma)$

Best-fit $\chi_{eff}^2 = 12960.09$; $\Delta\chi_{eff}^2 = 9155.15$; $\bar{\chi}_{eff}^2 = 12983.16$; $\Delta\bar{\chi}_{eff}^2 = 9151.01$; $R - 1 = 0.01385$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.61 (Δ 0.07) DR12BAO: 3.60 (Δ -0.11) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 (Δ -0.36) commander_dx12_v3_2_29: 22.93 (Δ -0.15) CamSpec like_10.7HM_1400_unified: 11499.25 SN - JLA Pantheon18: 1034.82 (Δ -0.02)

6.53 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02234^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	S_8	$0.820^{+0.035}_{-0.040} \quad (-0.6\sigma)$	$D_{\text{M}}(0.15)$	$640^{+14}_{-11} \quad (+0.0\sigma)$
$\Omega_{\text{c}}h^2$	$0.1189^{+0.0027}_{-0.0028} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.449^{+0.019}_{-0.022} \quad (-0.6\sigma)$	$H(0.38)$	$83.08^{+0.88}_{-1.1} \quad (-0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04096^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.603^{+0.023}_{-0.030} \quad (-0.6\sigma)$	$D_{\text{M}}(0.38)$	$1527^{+28}_{-23} \quad (+0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.034}_{-0.049} \quad (-0.6\sigma)$	$H(0.51)$	$89.78^{+0.73}_{-0.92} \quad (-0.3\sigma)$
$\Sigma m_{\nu} [\text{eV}]$	$< 0.218 \quad (+0.4\sigma)$	$r_{\text{drag}}h$	$99.9^{+2.2}_{-2.4} \quad (+0.2\sigma)$	$D_{\text{M}}(0.51)$	$1978^{+33}_{-27} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.041^{+0.042}_{-0.029} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.069}_{-0.072} \quad (-0.6\sigma)$	$H(0.61)$	$95.38^{+0.62}_{-0.81} \quad (-0.4\sigma)$
n_{s}	$0.968^{+0.011}_{-0.0099} \quad (+0.3\sigma)$	z_{re}	$< 9.49 \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2302^{+36}_{-29} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_{\text{s}}$	$2.093^{+0.090}_{-0.061} \quad (-0.4\sigma)$	$H(2.33)$	$235.8^{+1.7}_{-1.7} \quad (-0.6\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_{\text{M}}(2.33)$	$5761^{+41}_{-31} \quad (+0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1223^{+31}_{-32} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.021} \quad (-0.6\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5720^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.024}_{-0.042} \quad (-0.6\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.022} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.021}_{-0.038} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.4^{+4.2}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.022} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{\text{s},0.002}$	$0.968^{+0.011}_{-0.0099} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.020}_{-0.036} \quad (-0.5\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.016}_{-0.022} \quad (-0.6\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.019}_{-0.035} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.49}$	$10^5 \text{D}/\text{H}$	$2.592^{+0.073}_{-0.071} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0089}_{-0.015} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.46}$	Age/Gyr	$13.792^{+0.095}_{-0.070} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0098}_{-0.018} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.86^{+0.60}_{-0.61} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.42}$	r_*	$144.74^{+0.70}_{-0.64} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.04115^{+0.00076}_{-0.00076} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.902^{+0.067}_{-0.061} \quad (+0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	z_{drag}	$1059.79^{+0.87}_{-0.85} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.86 \quad (\nu: 0.3) \quad (-0.5\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.42^{+0.72}_{-0.68} \quad (+0.9\sigma)$	χ_{CamSpec}^2	$11514.6 \quad (\nu: 16.6)$
H_0	$67.8^{+1.3}_{-1.6} \quad (-0.0\sigma)$	k_{D}	$0.14050^{+0.00084}_{-0.00088} \quad (-1.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.017}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16084^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.42 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.017} \quad (-0.1\sigma)$	z_{eq}	$3375^{+61}_{-65} \quad (-0.6\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
$\Omega_{\text{m}}h^2$	$0.1419^{+0.0026}_{-0.0026} \quad (-0.5\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00020} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\nu}h^2$	$< 0.00235 \quad (+0.4\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.5\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\Omega_{\text{m}}h^3$	$0.09616^{+0.00099}_{-0.0013} \quad (-0.9\sigma)$	$100\theta_{\text{s,eq}}$	$0.4519^{+0.0063}_{-0.0058} \quad (+0.6\sigma)$	χ_{CMB}^2	$11934.4 \quad (\nu: 16.7) \quad (+1579.5\sigma)$
σ_8	$0.808^{+0.027}_{-0.045} \quad (-0.6\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.4} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11948.19; \Delta\bar{\chi}_{\text{eff}}^2 = 9151.06; R - 1 = 0.01072$$

6.54 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02235^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	S_8	$0.820^{+0.035}_{-0.039} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$639^{+13}_{-11} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0027}_{-0.0028} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.021} \quad (-0.6\sigma)$	$H(0.38)$	$83.13^{+0.85}_{-1.0} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04097^{+0.00075}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.022}_{-0.030} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1526^{+26}_{-21} \quad (+0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.034}_{-0.048} \quad (-0.6\sigma)$	$H(0.51)$	$89.82^{+0.70}_{-0.87} \quad (-0.3\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.209 \quad (+0.3\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.1}_{-2.3} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1977^{+31}_{-26} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.042}_{-0.029} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.067}_{-0.071} \quad (-0.6\sigma)$	$H(0.61)$	$95.41^{+0.61}_{-0.77} \quad (-0.4\sigma)$
n_{s}	$0.968^{+0.011}_{-0.0096} \quad (+0.2\sigma)$	z_{re}	$< 9.50 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2301^{+34}_{-28} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.090}_{-0.060} \quad (-0.4\sigma)$	$H(2.33)$	$235.7^{+1.6}_{-1.7} \quad (-0.6\sigma)$
A_{100}^{PS}	$239^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.029}_{-0.030} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5759^{+39}_{-30} \quad (+0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1223^{+30}_{-31} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.018}_{-0.020} \quad (-0.6\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5721^{+97}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.024}_{-0.041} \quad (-0.6\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.021} \quad (-0.6\sigma)$
A_{143}^{tSZ}	$< 8.70 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.021}_{-0.037} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.5^{+4.2}_{-4.3} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.021} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.968^{+0.011}_{-0.0096} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.020}_{-0.035} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.021} \quad (-0.6\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.019}_{-0.033} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.590^{+0.073}_{-0.070} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0087}_{-0.015} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.789^{+0.091}_{-0.068} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0095}_{-0.017} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	z_*	$1089.84^{+0.61}_{-0.61} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	r_*	$144.76^{+0.68}_{-0.63} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.6\sigma)$	$100\theta_*$	$1.04116^{+0.00076}_{-0.00075} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.066}_{-0.059} \quad (+0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	z_{drag}	$1059.80^{+0.86}_{-0.82} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.83 \quad (\nu: 0.3) \quad (-0.5\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.44^{+0.71}_{-0.67} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.6 \quad (\nu: 16.8)$
H_0	$67.8^{+1.2}_{-1.5} \quad (-0.0\sigma)$	k_{D}	$0.14048^{+0.00084}_{-0.00088} \quad (-1.0\sigma)$	χ_{JLA}^2	$1035.00 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.692^{+0.016}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.040 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.308^{+0.019}_{-0.016} \quad (-0.1\sigma)$	z_{eq}	$3373^{+61}_{-64} \quad (-0.6\sigma)$	χ_{MGS}^2	$1.48 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0025}_{-0.0026} \quad (-0.5\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00020} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\nu} h^2$	$< 0.00224 \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09618^{+0.00097}_{-0.0013} \quad (-0.9\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0062}_{-0.0058} \quad (+0.6\sigma)$	χ_{BAO}^2	$5.88 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.026}_{-0.044} \quad (-0.6\sigma)$	$H(0.15)$	$73.1^{+1.1}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11934.3 \quad (\nu: 17.0) \quad (+1574.2\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 12982.95$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.98$; $R - 1 = 0.01405$

6.55 base_mnu_plikHM_TT_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02223	$0.02222^{+0.00050}_{-0.00049}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6115	$0.606^{+0.018}_{-0.023}$	$H(0.38)$	83.24	$83.01^{+0.98}_{-1.0}$
$\Omega_{\mathrm{c}} h^2$	0.11936	$0.1192^{+0.0027}_{-0.0027}$	$\sigma_8/h^{0.5}$	0.9967	$0.987^{+0.027}_{-0.037}$	$D_{\mathrm{M}}(0.38)$	1523.0	1529^{+27}_{-25}
$100\theta_{\mathrm{MC}}$	1.04096	$1.0410^{+0.0011}_{-0.0010}$	$r_{\mathrm{drag}} h$	100.22	$99.8^{+2.3}_{-2.4}$	$H(0.51)$	89.90	$89.71^{+0.82}_{-0.86}$
τ	0.0542	$0.054^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.435^{+0.056}_{-0.058}$	$D_{\mathrm{M}}(0.51)$	1973.7	1980^{+32}_{-29}
$\Sigma m_{\nu} [\mathrm{eV}]$	0.004	< 0.177	z_{re}	7.68	$7.7^{+2.0}_{-2.0}$	$H(0.61)$	95.49	$95.32^{+0.71}_{-0.76}$
$\ln(10^{10} A_{\mathrm{s}})$	3.0419	$3.042^{+0.040}_{-0.037}$	$10^9 A_{\mathrm{s}}$	2.094	$2.095^{+0.086}_{-0.077}$	$D_{\mathrm{M}}(0.61)$	2297.3	2305^{+34}_{-32}
n_{s}	0.9662	$0.966^{+0.011}_{-0.010}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8794	$1.879^{+0.028}_{-0.028}$	$H(2.33)$	235.68	$235.8^{+1.8}_{-1.7}$
y_{cal}	1.0002	$1.0006^{+0.0063}_{-0.0065}$	D_{40}	1226.6	1228^{+30}_{-31}	$D_{\mathrm{M}}(2.33)$	5755.2	5764^{+39}_{-35}
A_{217}^{CIB}	48.3	48^{+20}_{-20}	D_{220}	5718	5723^{+100}_{-110}	$f\sigma_8(0.15)$	0.4593	$0.457^{+0.016}_{-0.017}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.36	—	D_{810}	2536.1	2536^{+35}_{-35}	$\sigma_8(0.15)$	0.7598	$0.750^{+0.019}_{-0.032}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.6	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4788	$0.475^{+0.014}_{-0.016}$
A_{100}^{PS}	253	263^{+70}_{-70}	D_{2000}	230.22	$230.0^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	0.6738	$0.665^{+0.018}_{-0.029}$
A_{143}^{PS}	49.3	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	0.9662	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4779	$0.474^{+0.013}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	47.5	43^{+20}_{-20}	Y_{P}	0.245339	$0.24533^{+0.00019}_{-0.00023}$	$\sigma_8(0.51)$	0.6307	$0.623^{+0.016}_{-0.027}$
A_{217}^{PS}	119.5	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246666	$0.24666^{+0.00019}_{-0.00023}$	$f\sigma_8(0.61)$	0.4732	$0.469^{+0.012}_{-0.016}$
A^{kSZ}	0.0	—	$10^5 \mathrm{D}/\mathrm{H}$	2.612	$2.615^{+0.095}_{-0.092}$	$\sigma_8(0.61)$	0.6002	$0.592^{+0.016}_{-0.026}$
$A_{100}^{\mathrm{dustTT}}$	8.88	$8.9^{+4.8}_{-4.7}$	Age/Gyr	13.779	$13.800^{+0.089}_{-0.079}$	$f\sigma_8(2.33)$	0.3019	$0.2987^{+0.0075}_{-0.011}$
$A_{143}^{\mathrm{dustTT}}$	10.78	$10.7^{+4.6}_{-4.7}$	z_*	1090.04	$1090.04^{+0.74}_{-0.74}$	$\sigma_8(2.33)$	0.3119	$0.3080^{+0.0084}_{-0.013}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	19.5	$18.3^{+8.4}_{-8.6}$	r_*	144.71	$144.77^{+0.72}_{-0.71}$	f_{2000}^{143}	30.0	31^{+7}_{-7}
$A_{217}^{\mathrm{dustTT}}$	94.7	93^{+20}_{-20}	$100\theta_*$	1.04113	$1.0412^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.899	$13.905^{+0.071}_{-0.069}$	f_{2000}^{217}	107.38	$107.9^{+5.0}_{-4.9}$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	$\chi_{\mathrm{lensing}}^2$	8.96	$9.41 (\nu: 0.3)$
H_0	67.98	$67.7^{+1.4}_{-1.5}$	r_{drag}	147.42	$147.49^{+0.81}_{-0.77}$	χ_{small}^2	396.04	$397.0 (\nu: 1.4)$
Ω_{Λ}	0.6935	$0.690^{+0.018}_{-0.020}$	k_{D}	0.14041	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	23.24	$23.28 (\nu: 0.4)$
Ω_{m}	0.3065	$0.310^{+0.020}_{-0.018}$	$100\theta_{\mathrm{D}}$	0.16098	$0.16101^{+0.00068}_{-0.00064}$	χ_{plik}^2	758.7	$771.4 (\nu: 14.1)$
$\Omega_{\mathrm{m}} h^2$	0.14163	$0.1419^{+0.0028}_{-0.0027}$	z_{eq}	3384	3379^{+64}_{-63}	$\chi_{6\mathrm{DF}}^2$	0.003	$0.055 (\nu: 0.0)$
$\Omega_{\nu} h^2$	0.00004	< 0.00191	k_{eq}	0.010327	$0.01031^{+0.00019}_{-0.00019}$	χ_{MGS}^2	1.54	$1.37 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^3$	0.09628	$0.0960^{+0.0012}_{-0.0013}$	$100\theta_{\mathrm{eq}}$	0.8162	$0.817^{+0.012}_{-0.012}$	$\chi_{\mathrm{DR12BAO}}^2$	3.67	$4.7 (\nu: 1.2)$
σ_8	0.8218	$0.812^{+0.021}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	0.4510	$0.4515^{+0.0062}_{-0.0061}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.8)$
S_8	0.8306	$0.825^{+0.031}_{-0.032}$	$H(0.15)$	73.21	$72.9^{+1.3}_{-1.3}$	χ_{CMB}^2	1186.9	$1201.0 (\nu: 15.2)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4550	$0.452^{+0.017}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	638.1	641^{+13}_{-12}	χ_{BAO}^2	5.21	$6.1 (\nu: 0.8)$

Best-fit $\chi_{\mathrm{eff}}^2 = 1193.44$; $\bar{\chi}_{\mathrm{eff}}^2 = 1214.40$; $R - 1 = 0.00805$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.67 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.96 small_100x143.offlike5_EE_Aplanck_B: 396.04 commander_dx12.v3.2.29: 23.24 plik_rd12_HM.v22_TT: 758.68

6.56 base_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022235	$0.02223^{+0.00050}_{-0.00049}$	$\sigma_8 \Omega_m^{0.25}$	0.6103	$0.606^{+0.017}_{-0.022}$	$H(0.38)$	83.27	$83.07^{+0.94}_{-0.98}$
$\Omega_c h^2$	0.11922	$0.1190^{+0.0027}_{-0.0026}$	$\sigma_8/h^{0.5}$	0.9952	$0.987^{+0.026}_{-0.036}$	$D_M(0.38)$	1522.0	1527^{+25}_{-24}
$100\theta_{MC}$	1.04097	$1.0410^{+0.0011}_{-0.0011}$	$r_{drag}h$	100.33	$99.9^{+2.2}_{-2.3}$	$H(0.51)$	89.93	$89.75^{+0.79}_{-0.83}$
τ	0.0531	$0.054^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.434^{+0.056}_{-0.056}$	$D_M(0.51)$	1972.5	1979^{+30}_{-29}
Σm_ν [eV]	0.000	< 0.169	z_{re}	7.57	$7.7^{+2.0}_{-2.0}$	$H(0.61)$	95.51	$95.35^{+0.69}_{-0.73}$
$\ln(10^{10} A_s)$	3.0397	$3.042^{+0.040}_{-0.037}$	$10^9 A_s$	2.090	$2.095^{+0.085}_{-0.076}$	$D_M(0.61)$	2296.1	2303^{+33}_{-31}
n_s	0.9668	$0.966^{+0.011}_{-0.0099}$	$10^9 A_s e^{-2\tau}$	1.8792	$1.879^{+0.028}_{-0.028}$	$H(2.33)$	235.59	$235.7^{+1.7}_{-1.7}$
y_{cal}	1.0004	$1.0007^{+0.0064}_{-0.0065}$	D_{40}	1225.3	1228^{+30}_{-31}	$D_M(2.33)$	5754.5	5762^{+38}_{-34}
A_{217}^{CIB}	48.7	48^{+20}_{-20}	D_{220}	5718	5724^{+100}_{-110}	$f\sigma_8(0.15)$	0.4581	$0.456^{+0.016}_{-0.016}$
$\xi^{tSZ \times CIB}$	0.29	—	D_{810}	2536.8	2537^{+35}_{-35}	$\sigma_8(0.15)$	0.7590	$0.751^{+0.019}_{-0.031}$
A_{143}^{tSZ}	7.0	—	D_{1420}	816.0	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4778	$0.475^{+0.013}_{-0.016}$
A_{100}^{PS}	254	262^{+70}_{-70}	D_{2000}	230.33	$230.1^{+4.5}_{-4.3}$	$\sigma_8(0.38)$	0.6732	$0.666^{+0.017}_{-0.028}$
A_{143}^{PS}	48.2	48^{+20}_{-20}	$n_{s,0.002}$	0.9668	$0.966^{+0.011}_{-0.0099}$	$f\sigma_8(0.51)$	0.4770	$0.474^{+0.012}_{-0.016}$
$A_{143 \times 217}^{PS}$	45.7	43^{+20}_{-20}	Y_P	0.245340	$0.24533^{+0.00019}_{-0.00023}$	$\sigma_8(0.51)$	0.6302	$0.623^{+0.016}_{-0.026}$
A_{217}^{PS}	118.8	115^{+30}_{-30}	Y_P^{BBN}	0.246667	$0.24666^{+0.00019}_{-0.00023}$	$f\sigma_8(0.61)$	0.4724	$0.469^{+0.012}_{-0.016}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.611	$2.613^{+0.095}_{-0.091}$	$\sigma_8(0.61)$	0.5997	$0.593^{+0.015}_{-0.025}$
A_{100}^{dustTT}	8.91	$8.9^{+4.8}_{-4.8}$	Age/Gyr	13.778	$13.796^{+0.087}_{-0.078}$	$f\sigma_8(2.33)$	0.3017	$0.2990^{+0.0073}_{-0.011}$
A_{143}^{dustTT}	10.76	$10.7^{+4.5}_{-4.8}$	z_*	1090.02	$1090.02^{+0.73}_{-0.73}$	$\sigma_8(2.33)$	0.3117	$0.3084^{+0.0082}_{-0.013}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.2^{+8.5}_{-8.7}$	r_*	144.74	$144.80^{+0.71}_{-0.69}$	$\chi^2_{lensing}$	8.91	9.40 (ν : 0.3)
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$100\theta_*$	1.04113	$1.0412^{+0.0010}_{-0.0010}$	χ^2_{small}	395.89	397.0 (ν : 1.4)
c_{100}	0.99966	$0.9996^{+0.0015}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.902	$13.907^{+0.069}_{-0.069}$	χ^2_{lowl}	23.08	23.23 (ν : 0.4)
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0015}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ^2_{plik}	758.9	771.4 (ν : 14.2)
H_0	68.04	$67.8^{+1.4}_{-1.4}$	r_{drag}	147.46	$147.51^{+0.80}_{-0.78}$	χ^2_{JLA}	1034.82	1035.03 (ν : 0.0)
Ω_Λ	0.6945	$0.691^{+0.017}_{-0.019}$	k_D	0.14037	$0.1403^{+0.0011}_{-0.0011}$	χ^2_{6DF}	0.001	0.044 (ν : 0.0)
Ω_m	0.3055	$0.309^{+0.019}_{-0.017}$	$100\theta_D$	0.16098	$0.16100^{+0.00067}_{-0.00064}$	χ^2_{MGS}	1.61	1.45 (ν : 0.1)
$\Omega_m h^2$	0.14146	$0.1418^{+0.0026}_{-0.0026}$	z_{eq}	3380	3376^{+62}_{-61}	$\chi^2_{DR12BAO}$	3.58	4.4 (ν : 0.9)
$\Omega_\nu h^2$	0.00000	< 0.00182	k_{eq}	0.010317	$0.01030^{+0.00019}_{-0.00019}$	χ^2_{prior}	1.4	7.3 (ν : 6.9)
$\Omega_m h^3$	0.09625	$0.0961^{+0.0012}_{-0.0013}$	$100\theta_{eq}$	0.8168	$0.818^{+0.012}_{-0.011}$	χ^2_{CMB}	1186.8	1201.1 (ν : 15.2)
σ_8	0.8209	$0.812^{+0.021}_{-0.033}$	$100\theta_{s,eq}$	0.4513	$0.4518^{+0.0060}_{-0.0059}$	χ^2_{BAO}	5.19	5.9 (ν : 0.5)
S_8	0.8284	$0.824^{+0.030}_{-0.031}$	$H(0.15)$	73.26	$73.0^{+1.2}_{-1.3}$			
$\sigma_8 \Omega_m^{0.5}$	0.4538	$0.451^{+0.017}_{-0.017}$	$D_M(0.15)$	637.6	640^{+12}_{-12}			

Best-fit $\chi^2_{eff} = 2228.19$; $\bar{\chi}^2_{eff} = 2249.31$; $R - 1 = 0.00867$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.58 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.91 small_100x143_offlike5_EE_Aplanck_B: 395.89 commander_dx12.v3.2.29: 23.08 plik_rd12_HM.v22_TT: 758.94 SN - JLA Pantheon18: 1034.82

6.57 base_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00050}_{-0.00049}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.018}_{-0.023}$	$H(0.38)$	$83.02^{+0.98}_{-1.0}$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0027}_{-0.0027}$	$\sigma_8/h^{0.5}$	$0.987^{+0.026}_{-0.037}$	$D_{\mathrm{M}}(0.38)$	1528^{+27}_{-25}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}} h$	$99.8^{+2.3}_{-2.5}$	$H(0.51)$	$89.72^{+0.82}_{-0.87}$
τ	$0.055^{+0.018}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.056}_{-0.056}$	$D_{\mathrm{M}}(0.51)$	1980^{+32}_{-29}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.178	z_{re}	< 9.46	$H(0.61)$	$95.32^{+0.71}_{-0.77}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.029}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.084}_{-0.059}$	$D_{\mathrm{M}}(0.61)$	2304^{+35}_{-32}
n_{s}	$0.966^{+0.011}_{-0.010}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.028}$	$H(2.33)$	$235.8^{+1.8}_{-1.7}$
y_{cal}	$1.0006^{+0.0063}_{-0.0065}$	D_{40}	1228^{+30}_{-31}	$D_{\mathrm{M}}(2.33)$	5764^{+39}_{-35}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5723^{+100}_{-110}	$f\sigma_8(0.15)$	$0.457^{+0.016}_{-0.017}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2536^{+35}_{-35}	$\sigma_8(0.15)$	$0.751^{+0.019}_{-0.032}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.476^{+0.014}_{-0.016}$
A_{100}^{PS}	263^{+70}_{-70}	D_{2000}	$230.0^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.666^{+0.017}_{-0.029}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24533^{+0.00019}_{-0.00023}$	$\sigma_8(0.51)$	$0.623^{+0.016}_{-0.027}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00023}$	$f\sigma_8(0.61)$	$0.469^{+0.012}_{-0.016}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.614^{+0.095}_{-0.092}$	$\sigma_8(0.61)$	$0.593^{+0.016}_{-0.026}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.800^{+0.090}_{-0.079}$	$f\sigma_8(2.33)$	$0.2989^{+0.0073}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.7}$	z_*	$1090.03^{+0.74}_{-0.74}$	$\sigma_8(2.33)$	$0.3082^{+0.0082}_{-0.013}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.4}_{-8.6}$	r_*	$144.78^{+0.72}_{-0.71}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.070}_{-0.069}$	f_{2000}^{217}	$107.8^{+5.0}_{-4.9}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.38 (\nu: 0.3)$
H_0	$67.7^{+1.4}_{-1.5}$	r_{drag}	$147.50^{+0.81}_{-0.78}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
Ω_{Λ}	$0.690^{+0.018}_{-0.020}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.27 (\nu: 0.4)$
Ω_{m}	$0.310^{+0.020}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00068}_{-0.00064}$	χ_{plik}^2	$771.3 (\nu: 14.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0028}_{-0.0027}$	z_{eq}	3378^{+63}_{-63}	$\chi_{6\mathrm{DF}}^2$	$0.054 (\nu: 0.0)$
$\Omega_{\nu} h^2$	< 0.00192	k_{eq}	$0.01031^{+0.00019}_{-0.00019}$	χ_{MGS}^2	$1.39 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0013}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.2)$
σ_8	$0.812^{+0.021}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0062}_{-0.0060}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.825^{+0.031}_{-0.032}$	$H(0.15)$	$72.9^{+1.3}_{-1.3}$	χ_{CMB}^2	$1200.9 (\nu: 15.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	641^{+13}_{-12}	χ_{BAO}^2	$6.1 (\nu: 0.8)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1214.24; R - 1 = 0.00889$

6.58 base_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02223^{+0.00050}_{-0.00049}$	$\sigma_8/h^{0.5}$	$0.987^{+0.026}_{-0.036}$	$H(0.51)$	$89.76^{+0.80}_{-0.84}$
$\Omega_{\mathrm{c}}h^2$	$0.1190^{+0.0026}_{-0.0026}$	$r_{\mathrm{drag}}h$	$99.97^{+2.2}_{-2.3}$	$D_{\mathrm{M}}(0.51)$	1979^{+30}_{-28}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.055}_{-0.055}$	$H(0.61)$	$95.35^{+0.69}_{-0.73}$
τ	$0.055^{+0.018}_{-0.014}$	z_{re}	< 9.46	$D_{\mathrm{M}}(0.61)$	2303^{+33}_{-31}
Σm_{ν} [eV]	< 0.171	$10^9 A_{\mathrm{s}}$	$2.098^{+0.083}_{-0.061}$	$H(2.33)$	$235.7^{+1.7}_{-1.7}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.029}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.028}$	$D_{\mathrm{M}}(2.33)$	5762^{+38}_{-34}
n_{s}	$0.966^{+0.011}_{-0.0098}$	D_{40}	1227^{+30}_{-31}	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.016}$
y_{cal}	$1.0006^{+0.0064}_{-0.0066}$	D_{220}	5724^{+100}_{-100}	$\sigma_8(0.15)$	$0.751^{+0.019}_{-0.031}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+35}_{-35}	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$\sigma_8(0.38)$	$0.666^{+0.017}_{-0.028}$
A_{143}^{tSZ}	—	D_{2000}	$230.1^{+4.5}_{-4.3}$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.016}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.0098}$	$\sigma_8(0.51)$	$0.624^{+0.016}_{-0.026}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24534^{+0.00019}_{-0.00023}$	$f\sigma_8(0.61)$	$0.469^{+0.012}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00023}$	$\sigma_8(0.61)$	$0.593^{+0.015}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.613^{+0.095}_{-0.091}$	$f\sigma_8(2.33)$	$0.2991^{+0.0072}_{-0.011}$
A^{kSZ}	—	Age/Gyr	$13.796^{+0.088}_{-0.078}$	$\sigma_8(2.33)$	$0.3086^{+0.0081}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	z_*	$1090.01^{+0.72}_{-0.73}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.5}_{-4.8}$	r_*	$144.80^{+0.70}_{-0.69}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.5}_{-8.7}$	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011}$	f_{2000}^{217}	$107.8^{+4.9}_{-5.0}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.069}_{-0.069}$	$\chi_{\mathrm{lensing}}^2$	$9.37 (\nu: 0.3)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$397.0 (\nu: 1.5)$
c_{217}	$0.9983^{+0.0017}_{-0.0015}$	r_{drag}	$147.52^{+0.80}_{-0.78}$	χ_{lowl}^2	$23.22 (\nu: 0.4)$
H_0	$67.8^{+1.4}_{-1.4}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	χ_{plik}^2	$771.4 (\nu: 14.2)$
Ω_{Λ}	$0.691^{+0.017}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00068}_{-0.00064}$	χ_{JLA}^2	$1035.02 (\nu: 0.0)$
Ω_{m}	$0.309^{+0.019}_{-0.017}$	z_{eq}	3375^{+61}_{-60}	$\chi_{6\mathrm{DF}}^2$	$0.043 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1418^{+0.0027}_{-0.0025}$	k_{eq}	$0.01030^{+0.00019}_{-0.00018}$	χ_{MGS}^2	$1.46 (\nu: 0.1)$
$\Omega_{\nu}h^2$	< 0.00183	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.011}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.9)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0012}_{-0.0013}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0059}_{-0.0058}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.813^{+0.021}_{-0.033}$	$H(0.15)$	$73.0^{+1.2}_{-1.3}$	χ_{CMB}^2	$1200.9 (\nu: 15.0)$
S_8	$0.824^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	640^{+13}_{-12}	χ_{BAO}^2	$5.9 (\nu: 0.5)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017}$	$H(0.38)$	$83.07^{+0.94}_{-0.98}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.017}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1527^{+26}_{-24}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2249.16; R - 1 = 0.00928$$

6.59 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022417	$0.02242^{+0.00035}_{-0.00035}$	$\Omega_m h^3$	0.09666	$0.09649^{+0.00087}_{-0.0010}$	$H(0.15)$	73.33	$73.1^{+1.1}_{-1.3}$
$\Omega_c h^2$	0.11952	$0.1193^{+0.0024}_{-0.0024}$	σ_8	0.8220	$0.814^{+0.021}_{-0.031}$	$D_M(0.15)$	637.0	639^{+13}_{-10}
$100\theta_{MC}$	1.04100	$1.04100^{+0.00076}_{-0.00075}$	S_8	0.8303	$0.826^{+0.028}_{-0.029}$	$H(0.38)$	83.36	$83.17^{+0.81}_{-0.99}$
τ	0.0533	$0.055^{+0.020}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	0.4548	$0.453^{+0.015}_{-0.016}$	$D_M(0.38)$	1520.5	1525^{+26}_{-21}
Σm_ν [eV]	0.001	< 0.161	$\sigma_8 \Omega_m^{0.25}$	0.6114	$0.607^{+0.016}_{-0.020}$	$H(0.51)$	90.04	$89.87^{+0.66}_{-0.83}$
$\ln(10^{10} A_s)$	3.0415	$3.045^{+0.039}_{-0.036}$	$\sigma_8/h^{0.5}$	0.9961	$0.988^{+0.025}_{-0.032}$	$D_M(0.51)$	1970.6	1976^{+31}_{-25}
n_s	0.9672	$0.9666^{+0.0095}_{-0.0095}$	$r_{\text{drag}} h$	100.22	$99.9^{+2.1}_{-2.4}$	$H(0.61)$	95.62	$95.48^{+0.56}_{-0.70}$
y_{cal}	1.0006	$1.0006^{+0.0064}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.438^{+0.054}_{-0.053}$	$D_M(0.61)$	2293.7	2300^{+33}_{-27}
A_{217}^{CIB}	46.5	47^{+20}_{-20}	z_{re}	7.55	$7.7^{+1.9}_{-1.9}$	$H(2.33)$	235.97	$236.1^{+1.6}_{-1.5}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.50	—	$10^9 A_s$	2.094	$2.101^{+0.083}_{-0.075}$	$D_M(2.33)$	5747.0	5754^{+35}_{-26}
A_{143}^{tSZ}	7.23	$5.5^{+4.5}_{-4.5}$	$10^9 A_s e^{-2\tau}$	1.8820	$1.881^{+0.027}_{-0.026}$	$f\sigma_8(0.15)$	0.4591	$0.457^{+0.014}_{-0.015}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{40}	1226.5	1229^{+30}_{-28}	$\sigma_8(0.15)$	0.7599	$0.752^{+0.019}_{-0.029}$
A_{143}^{PS}	48.1	45^{+20}_{-20}	D_{220}	5733	5738^{+98}_{-93}	$f\sigma_8(0.38)$	0.4787	$0.476^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	49.2	42^{+20}_{-20}	D_{810}	2540.3	2539^{+35}_{-34}	$\sigma_8(0.38)$	0.6740	$0.667^{+0.017}_{-0.026}$
A_{217}^{PS}	120.4	115^{+30}_{-30}	D_{1420}	818.3	818^{+13}_{-12}	$f\sigma_8(0.51)$	0.4779	$0.475^{+0.012}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	231.42	$231.1^{+4.1}_{-3.9}$	$\sigma_8(0.51)$	0.6309	$0.624^{+0.016}_{-0.025}$
A_{100}^{dustTT}	8.86	$8.9^{+4.8}_{-4.7}$	$n_{\text{s},0.002}$	0.9672	$0.9666^{+0.0095}_{-0.0095}$	$f\sigma_8(0.61)$	0.4732	$0.470^{+0.011}_{-0.014}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.6}$	Y_{P}	0.245414	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.6004	$0.594^{+0.015}_{-0.024}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+8.6}_{-8.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.246741	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3020	$0.2995^{+0.0073}_{-0.010}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.577	$2.576^{+0.065}_{-0.062}$	$\sigma_8(2.33)$	0.3120	$0.3090^{+0.0081}_{-0.012}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.096}$	Age/Gyr	13.760	$13.777^{+0.080}_{-0.060}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.076}$	z_*	1089.81	$1089.79^{+0.56}_{-0.53}$	$f_{2000}^{143 \times 217}$	31.85	32^{+5}_{-5}
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.22}$	r_*	144.53	$144.57^{+0.57}_{-0.57}$	f_{2000}^{217}	106.44	$106.8^{+4.6}_{-4.6}$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	1.04115	$1.04117^{+0.00076}_{-0.00074}$	χ^2_{lensing}	8.97	$9.24 (\nu: 0.2)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.885^{+0.056}_{-0.054}$	χ^2_{small}	395.88	$397.1 (\nu: 1.7)$
A_{217}^{dustTE}	2.08	$2.08^{+0.71}_{-0.70}$	z_{drag}	1060.01	$1060.00^{+0.77}_{-0.76}$	χ^2_{lowl}	23.09	$23.25 (\nu: 0.3)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.17	$147.22^{+0.60}_{-0.60}$	χ^2_{plik}	2344.2	$2359.3 (\nu: 16.7)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14081	$0.14077^{+0.00076}_{-0.00072}$	$\chi^2_{6\text{DF}}$	0.003	$0.046 (\nu: 0.0)$
H_0	68.10	$67.8^{+1.2}_{-1.5}$	$100\theta_{\text{D}}$	0.160723	$0.16073^{+0.00047}_{-0.00043}$	χ^2_{MGS}	1.54	$1.39 (\nu: 0.1)$
Ω_Λ	0.6939	$0.691^{+0.016}_{-0.019}$	z_{eq}	3392	3388^{+55}_{-54}	χ^2_{DR12BAO}	3.71	$4.6 (\nu: 1.0)$
Ω_m	0.3061	$0.309^{+0.019}_{-0.016}$	k_{eq}	0.010352	$0.01034^{+0.00017}_{-0.00017}$	χ^2_{prior}	1.7	$11.6 (\nu: 10.3)$
$\Omega_m h^2$	0.14194	$0.1423^{+0.0026}_{-0.0024}$	$100\theta_{\text{eq}}$	0.8153	$0.816^{+0.010}_{-0.010}$	χ^2_{CMB}	2772.2	$2788.9 (\nu: 17.5)$
$\Omega_\nu h^2$	0.00001	< 0.00174	$100\theta_{\text{s,eq}}$	0.4504	$0.4508^{+0.0054}_{-0.0052}$	χ^2_{BAO}	5.25	$6.0 (\nu: 0.6)$

Best-fit $\chi^2_{\text{eff}} = 2779.13$; $\bar{\chi}^2_{\text{eff}} = 2806.44$; $R - 1 = 0.01008$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.71 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.97 small_100x143_offlike5_EE_Aplanck_B: 395.88 commander_dx12.v3.2.29: 23.09 plik_rd12_HM_v22b_TTTEEE: 2344.24

6.60 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022419	$0.02243^{+0.00035}_{-0.00034}$	σ_8	0.8217	$0.814^{+0.020}_{-0.029}$	$H(0.38)$	83.36	$83.22^{+0.77}_{-0.92}$
$\Omega_c h^2$	0.11950	$0.1192^{+0.0023}_{-0.0023}$	S_8	0.8300	$0.826^{+0.027}_{-0.028}$	$D_M(0.38)$	1520.5	1524^{+24}_{-20}
$100\theta_{MC}$	1.04100	$1.04101^{+0.00076}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	0.4546	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	90.04	$89.91^{+0.63}_{-0.76}$
τ	0.0533	$0.055^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6112	$0.607^{+0.016}_{-0.019}$	$D_M(0.51)$	1970.6	1975^{+28}_{-23}
Σm_ν [eV]	0.004	< 0.154	$\sigma_8/h^{0.5}$	0.9957	$0.988^{+0.025}_{-0.031}$	$H(0.61)$	95.62	$95.51^{+0.54}_{-0.66}$
$\ln(10^{10} A_s)$	3.0414	$3.045^{+0.039}_{-0.036}$	$r_{\text{drag}} h$	100.22	$99.96^{+2.0}_{-2.1}$	$D_M(0.61)$	2293.7	2299^{+31}_{-25}
n_s	0.9674	$0.9668^{+0.0094}_{-0.0094}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.438^{+0.053}_{-0.053}$	$H(2.33)$	235.96	$236.0^{+1.5}_{-1.4}$
y_{cal}	1.0005	$1.0007^{+0.0067}_{-0.0065}$	z_{re}	7.55	$7.8^{+2.0}_{-1.9}$	$D_M(2.33)$	5747.1	5753^{+33}_{-25}
A_{217}^{CIB}	46.4	47^{+20}_{-20}	$10^9 A_s$	2.093	$2.101^{+0.083}_{-0.074}$	$f\sigma_8(0.15)$	0.4590	$0.457^{+0.014}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8820	$1.880^{+0.027}_{-0.026}$	$\sigma_8(0.15)$	0.7597	$0.753^{+0.019}_{-0.027}$
A_{143}^{tSZ}	7.12	> 0.953	D_{40}	1226.1	1228^{+30}_{-28}	$f\sigma_8(0.38)$	0.4786	$0.476^{+0.012}_{-0.014}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{220}	5732	5738^{+96}_{-94}	$\sigma_8(0.38)$	0.6738	$0.668^{+0.016}_{-0.025}$
A_{143}^{PS}	48.8	45^{+20}_{-20}	D_{810}	2540.4	2539^{+36}_{-34}	$f\sigma_8(0.51)$	0.4777	$0.475^{+0.012}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	50.3	42^{+20}_{-20}	D_{1420}	818.4	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6307	$0.625^{+0.015}_{-0.024}$
A_{217}^{PS}	120.8	115^{+30}_{-30}	D_{2000}	231.46	$231.1^{+4.1}_{-4.0}$	$f\sigma_8(0.61)$	0.4731	$0.470^{+0.011}_{-0.013}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9674	$0.9668^{+0.0094}_{-0.0094}$	$\sigma_8(0.61)$	0.6002	$0.595^{+0.015}_{-0.023}$
A_{100}^{dustTT}	8.91	$8.9^{+4.8}_{-4.7}$	Y_P	0.245415	$0.24542^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3019	$0.2998^{+0.0070}_{-0.0099}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	0.246741	$0.24674^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3119	$0.3093^{+0.0077}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+8.6}_{-8.5}$	$10^5 D/H$	2.576	$2.575^{+0.064}_{-0.062}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.760	$13.774^{+0.075}_{-0.057}$	$f_{2000}^{143 \times 217}$	31.79	32^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.115^{+0.099}_{-0.097}$	z_*	1089.81	$1089.78^{+0.54}_{-0.54}$	f_{2000}^{217}	106.39	$106.8^{+4.8}_{-4.5}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.073}$	r_*	144.53	$144.59^{+0.56}_{-0.54}$	χ_{lensing}^2	8.96	$9.22 (\nu: 0.2)$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.23}$	$100\theta_*$	1.04115	$1.04118^{+0.00075}_{-0.00075}$	χ_{small}^2	395.88	$397.1 (\nu: 1.7)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	13.882	$13.887^{+0.055}_{-0.053}$	χ_{lowl}^2	23.05	$23.22 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.20}$	z_{drag}	1060.01	$1060.02^{+0.72}_{-0.77}$	χ_{plik}^2	2344.3	$2359.2 (\nu: 16.8)$
A_{217}^{dustTE}	2.08	$2.08^{+0.67}_{-0.69}$	r_{drag}	147.18	$147.23^{+0.59}_{-0.59}$	χ_{JLA}^2	1034.84	$1034.99 (\nu: 0.0)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14081	$0.14076^{+0.00075}_{-0.00071}$	$\chi_{6\text{DF}}^2$	0.003	$0.037 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160721	$0.16072^{+0.00045}_{-0.00043}$	χ_{MGS}^2	1.54	$1.45 (\nu: 0.1)$
H_0	68.10	$67.9^{+1.2}_{-1.4}$	z_{eq}	3391	3386^{+53}_{-53}	χ_{DR12BAO}^2	3.71	$4.4 (\nu: 0.7)$
Ω_Λ	0.6939	$0.692^{+0.015}_{-0.017}$	k_{eq}	0.010351	$0.01033^{+0.00016}_{-0.00016}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.8)$
Ω_m	0.3061	$0.308^{+0.017}_{-0.015}$	$100\theta_{\text{eq}}$	0.8154	$0.817^{+0.010}_{-0.0099}$	χ_{CMB}^2	2772.2	$2788.7 (\nu: 17.5)$
$\Omega_m h^2$	0.14196	$0.1421^{+0.0024}_{-0.0022}$	$100\theta_{s,\text{eq}}$	0.4504	$0.4510^{+0.0053}_{-0.0051}$	χ_{BAO}^2	5.25	$5.86 (\nu: 0.4)$
$\Omega_\nu h^2$	0.00004	< 0.00165	$H(0.15)$	73.33	$73.1^{+1.0}_{-1.2}$			
$\Omega_m h^3$	0.09667	$0.09650^{+0.00085}_{-0.00098}$	$D_M(0.15)$	637.0	$639^{+12}_{-9.7}$			

Best-fit $\chi_{\text{eff}}^2 = 3813.97$; $\bar{\chi}_{\text{eff}}^2 = 3841.20$; $R - 1 = 0.01317$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.71 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.96 small_100x143.offlike5_EE_Aplanck_B: 395.88 commander_dx12.v3.2.29: 23.05 plik_rd12_HM_v22b_TTTEEE: 2344.32 SN - JLA Pantheon18: 1034.84

6.61 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02242^{+0.00034}_{-0.00034}$	$\Omega_{\mathrm{m}}h^3$	$0.09648^{+0.00087}_{-0.0010}$	$H(0.15)$	$73.1^{+1.1}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0024}_{-0.0024}$	σ_8	$0.814^{+0.020}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	639^{+13}_{-10}
$100\theta_{\mathrm{MC}}$	$1.04100^{+0.00075}_{-0.00075}$	S_8	$0.827^{+0.028}_{-0.029}$	$H(0.38)$	$83.18^{+0.81}_{-0.98}$
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.015}_{-0.016}$	$D_{\mathrm{M}}(0.38)$	1525^{+26}_{-21}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.162	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.016}_{-0.020}$	$H(0.51)$	$89.88^{+0.66}_{-0.83}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.038}_{-0.029}$	$\sigma_8/h^{0.5}$	$0.989^{+0.025}_{-0.032}$	$D_{\mathrm{M}}(0.51)$	1976^{+31}_{-25}
n_{s}	$0.9667^{+0.0095}_{-0.0094}$	$r_{\mathrm{drag}}h$	$99.9^{+2.1}_{-2.4}$	$H(0.61)$	$95.48^{+0.56}_{-0.70}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.053}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2300^{+33}_{-27}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.49	$H(2.33)$	$236.1^{+1.6}_{-1.5}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.104^{+0.081}_{-0.061}$	$D_{\mathrm{M}}(2.33)$	5754^{+35}_{-26}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.6}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.027}_{-0.026}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.015}$
A_{100}^{PS}	258^{+70}_{-70}	D_{40}	1229^{+30}_{-28}	$\sigma_8(0.15)$	$0.753^{+0.019}_{-0.029}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5737^{+98}_{-93}	$f\sigma_8(0.38)$	$0.476^{+0.012}_{-0.014}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+34}_{-34}	$\sigma_8(0.38)$	$0.667^{+0.017}_{-0.026}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+13}_{-12}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.014}$
A^{kSZ}	—	D_{2000}	$231.1^{+4.1}_{-3.9}$	$\sigma_8(0.51)$	$0.625^{+0.016}_{-0.025}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.9667^{+0.0095}_{-0.0094}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.014}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.7}$	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.595^{+0.015}_{-0.024}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.6}_{-8.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2997^{+0.0072}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.576^{+0.065}_{-0.062}$	$\sigma_8(2.33)$	$0.3091^{+0.0080}_{-0.012}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.099}_{-0.096}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.777^{+0.080}_{-0.060}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.075}_{-0.076}$	z_*	$1089.79^{+0.55}_{-0.53}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.57^{+0.57}_{-0.56}$	f_{2000}^{217}	$106.8^{+4.7}_{-4.6}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.04118^{+0.00075}_{-0.00074}$	$\chi_{\mathrm{lensing}}^2$	$9.22 (\nu: 0.2)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.056}_{-0.054}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.71}_{-0.70}$	z_{drag}	$1060.01^{+0.73}_{-0.76}$	χ_{lowl}^2	$23.25 (\nu: 0.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.22^{+0.60}_{-0.60}$	χ_{plik}^2	$2359.1 (\nu: 16.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14077^{+0.00076}_{-0.00072}$	$\chi_{6\mathrm{DF}}^2$	$0.045 (\nu: 0.0)$
H_0	$67.8^{+1.2}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.16072^{+0.00046}_{-0.00043}$	χ_{MGS}^2	$1.39 (\nu: 0.1)$
Ω_{Λ}	$0.691^{+0.016}_{-0.019}$	z_{eq}	3387^{+53}_{-54}	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 (\nu: 1.0)$
Ω_{m}	$0.309^{+0.019}_{-0.016}$	k_{eq}	$0.01034^{+0.00016}_{-0.00017}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1422^{+0.0025}_{-0.0023}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.010}_{-0.010}$	χ_{CMB}^2	$2788.7 (\nu: 17.2)$
$\Omega_{\nu}h^2$	< 0.00174	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0054}_{-0.0051}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2806.28; R - 1 = 0.01177$$

6.62 base_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00035}_{-0.00034}$	σ_8	$0.815^{+0.020}_{-0.030}$	$H(0.38)$	$83.22^{+0.77}_{-0.92}$
$\Omega_c h^2$	$0.1192^{+0.0023}_{-0.0023}$	S_8	$0.826^{+0.027}_{-0.028}$	$D_M(0.38)$	1524^{+24}_{-20}
$100\theta_{MC}$	$1.04102^{+0.00075}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	$89.91^{+0.63}_{-0.76}$
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.016}_{-0.020}$	$D_M(0.51)$	1975^{+28}_{-23}
Σm_ν [eV]	< 0.154	$\sigma_8/h^{0.5}$	$0.989^{+0.025}_{-0.031}$	$H(0.61)$	$95.51^{+0.54}_{-0.66}$
$\ln(10^{10} A_s)$	$3.046^{+0.038}_{-0.030}$	$r_{\text{drag}} h$	$99.97^{+2.0}_{-2.1}$	$D_M(0.61)$	2298^{+31}_{-25}
n_s	$0.9669^{+0.0094}_{-0.0094}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.052}_{-0.051}$	$H(2.33)$	$236.0^{+1.5}_{-1.4}$
y_{cal}	$1.0006^{+0.0066}_{-0.0065}$	z_{re}	< 9.54	$D_M(2.33)$	5753^{+33}_{-25}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.081}_{-0.062}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.880^{+0.027}_{-0.027}$	$\sigma_8(0.15)$	$0.753^{+0.019}_{-0.028}$
A_{143}^{tSZ}	> 0.961	D_{40}	1228^{+29}_{-28}	$f\sigma_8(0.38)$	$0.476^{+0.012}_{-0.014}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5738^{+96}_{-94}	$\sigma_8(0.38)$	$0.668^{+0.016}_{-0.025}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+36}_{-34}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.625^{+0.015}_{-0.024}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.1^{+4.1}_{-4.0}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.013}$
A^{kSZ}	—	$n_{s,0.002}$	$0.9669^{+0.0094}_{-0.0094}$	$\sigma_8(0.61)$	$0.595^{+0.015}_{-0.023}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	Y_P	$0.24542^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2999^{+0.0068}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.24674^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3094^{+0.0075}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.5}$	10^5D/H	$2.575^{+0.065}_{-0.062}$	f_{2000}^{143}	29^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.774^{+0.074}_{-0.057}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{100}^{dustTE}	$0.115^{+0.099}_{-0.097}$	z_*	$1089.77^{+0.52}_{-0.54}$	f_{2000}^{217}	$106.8^{+4.7}_{-4.5}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.073}$	r_*	$144.59^{+0.56}_{-0.54}$	χ_{lensing}^2	$9.20 (\nu: 0.2)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.23}$	$100\theta_*$	$1.04119^{+0.00074}_{-0.00075}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	$13.887^{+0.054}_{-0.053}$	χ_{lowl}^2	$23.22 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1060.02^{+0.72}_{-0.73}$	χ_{plik}^2	$2359.0 (\nu: 16.6)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.69}$	r_{drag}	$147.24^{+0.58}_{-0.59}$	χ_{JLA}^2	$1034.99 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14076^{+0.00074}_{-0.00070}$	$\chi_{6\text{DF}}^2$	$0.037 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16072^{+0.00045}_{-0.00043}$	χ_{MGS}^2	$1.45 (\nu: 0.1)$
H_0	$67.9^{+1.2}_{-1.4}$	z_{eq}	3385^{+52}_{-52}	χ_{DR12BAO}^2	$4.4 (\nu: 0.7)$
Ω_Λ	$0.692^{+0.015}_{-0.017}$	k_{eq}	$0.01033^{+0.00016}_{-0.00016}$	χ_{prior}^2	$11.6 (\nu: 10.7)$
Ω_m	$0.308^{+0.017}_{-0.015}$	$100\theta_{\text{eq}}$	$0.817^{+0.010}_{-0.0097}$	χ_{CMB}^2	$2788.6 (\nu: 17.2)$
$\Omega_m h^2$	$0.1421^{+0.0024}_{-0.0022}$	$100\theta_{s,\text{eq}}$	$0.4511^{+0.0052}_{-0.0049}$	χ_{BAO}^2	$5.84 (\nu: 0.4)$
$\Omega_\nu h^2$	< 0.00166	$H(0.15)$	$73.2^{+1.0}_{-1.2}$		
$\Omega_m h^3$	$0.09650^{+0.00086}_{-0.00097}$	$D_M(0.15)$	$639^{+12}_{-9.7}$		

$$\bar{\chi}_{\text{eff}}^2 = 3841.03; R - 1 = 0.01560$$

6.63 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022335	$0.02233^{+0.00036}_{-0.00037} \quad (-0.7\sigma)$	S_8	0.8275	$0.824^{+0.028}_{-0.029} \quad (-0.3\sigma)$	$D_M(0.15)$	637.1	$640^{+13}_{-11} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.11925	$0.1191^{+0.0024}_{-0.0025} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4532	$0.451^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	83.33	$83.10^{+0.85}_{-0.99} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04093	$1.04094^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6097	$0.605^{+0.016}_{-0.020} \quad (-0.3\sigma)$	$D_M(0.38)$	1520.8	$1527^{+26}_{-22} \quad (+0.1\sigma)$
τ	0.0533	$0.054^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9938	$0.985^{+0.025}_{-0.033} \quad (-0.3\sigma)$	$H(0.51)$	89.99	$89.80^{+0.69}_{-0.84} \quad (-0.3\sigma)$
Σm_ν [eV]	0.004	$< 0.174 \quad (+0.1\sigma)$	$r_{drag} h$	100.33	$99.9^{+2.2}_{-2.3} \quad (+0.0\sigma)$	$D_M(0.51)$	1971.1	$1978^{+31}_{-26} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.0391	$3.041^{+0.038}_{-0.038} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.437	$2.431^{+0.052}_{-0.054} \quad (-0.4\sigma)$	$H(0.61)$	95.57	$95.40^{+0.57}_{-0.73} \quad (-0.4\sigma)$
n_s	0.9671	$0.9670^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$	z_{re}	7.56	$7.7^{+1.9}_{-2.1} \quad (-0.1\sigma)$	$D_M(0.61)$	2294.4	$2302^{+33}_{-28} \quad (+0.2\sigma)$
y_{cal}	1.0005	$1.0006^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_s$	2.089	$2.094^{+0.081}_{-0.079} \quad (-0.2\sigma)$	$H(2.33)$	235.71	$235.9^{+1.6}_{-1.6} \quad (-0.4\sigma)$
A_{100}^{PS}	235	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.8776	$1.877^{+0.026}_{-0.027} \quad (-0.3\sigma)$	$D_M(2.33)$	5750.8	$5759^{+37}_{-27} \quad (+0.4\sigma)$
A_{143}^{PS}	41.4	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	1224.1	$1225^{+29}_{-29} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4576	$0.456^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	103.7	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	5720	$5724^{+100}_{-96} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7583	$0.750^{+0.019}_{-0.030} \quad (-0.3\sigma)$
A_{217}^{CIB}	42.1	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2535.1	$2535^{+36}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4774	$0.475^{+0.013}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	5.60	$< 8.73 \quad (-0.8\sigma)$	D_{1420}	816.1	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6727	$0.665^{+0.017}_{-0.027} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	0.641	$0.66^{+0.31}_{-0.34}$	D_{2000}	230.55	$230.5^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4766	$0.474^{+0.012}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	0.74	—	$n_{s,0.002}$	0.9671	$0.9670^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6297	$0.622^{+0.016}_{-0.026} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	0.33	—	Y_P	0.245382	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	0.4720	$0.469^{+0.011}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	1.5	—	Y_P^{BBN}	0.246708	$0.24671^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	0.5993	$0.592^{+0.015}_{-0.025} \quad (-0.3\sigma)$
A_{100}^{dust}	1.010	$1.01^{+0.50}_{-0.50}$	$10^5 D/H$	2.592	$2.593^{+0.070}_{-0.065} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	0.3015	$0.2986^{+0.0073}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{dust}	0.987	$0.96^{+0.45}_{-0.45}$	Age/Gyr	13.769	$13.789^{+0.085}_{-0.063} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3115	$0.3080^{+0.0082}_{-0.013} \quad (-0.3\sigma)$
A_{217}^{dust}	0.968	$0.98^{+0.27}_{-0.26}$	z_*	1089.89	$1089.89^{+0.57}_{-0.56} \quad (+0.4\sigma)$	f_{2000}^{143}	29.6	$30^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{dust}$	0.995	$1.03^{+0.43}_{-0.42}$	r_*	144.66	$144.70^{+0.60}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	106.61	$106.7^{+4.9}_{-4.8} \quad (-0.1\sigma)$
c_{100}	0.99756	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	1.04110	$1.04112^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{217}	1.00108	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	$D_M(z_*)/\text{Gpc}$	13.895	$13.898^{+0.060}_{-0.056} \quad (+0.6\sigma)$	$\chi^2_{lensing}$	8.89	$9.39 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{TE}	0.9965	$0.997^{+0.013}_{-0.012}$	z_{drag}	1059.78	$1059.78^{+0.80}_{-0.80} \quad (-0.8\sigma)$	χ^2_{small}	395.87	$397.0 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	r_{drag}	147.34	$147.37^{+0.65}_{-0.62} \quad (+0.7\sigma)$	χ^2_{lowl}	22.96	$23.02 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	68.10	$67.8^{+1.3}_{-1.5} \quad (-0.1\sigma)$	k_D	0.14058	$0.14054^{+0.00077}_{-0.00081} \quad (-0.8\sigma)$	$\chi^2_{CamSpec}$	11499.2	$11514.0 \quad (\nu: 15.2)$
Ω_Λ	0.6946	$0.691^{+0.016}_{-0.019} \quad (+0.0\sigma)$	$100\theta_D$	0.160835	$0.16085^{+0.00047}_{-0.00046} \quad (+0.7\sigma)$	χ^2_{6DF}	0.001	$0.045 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_m	0.3054	$0.309^{+0.019}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	3383	$3380^{+55}_{-58} \quad (-0.4\sigma)$	χ^2_{MGS}	1.61	$1.40 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_m h^2$	0.14162	$0.1420^{+0.0025}_{-0.0025} \quad (-0.3\sigma)$	k_{eq}	0.010326	$0.01032^{+0.00017}_{-0.00018} \quad (-0.4\sigma)$	$\chi^2_{DR12BAO}$	3.60	$4.5 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_\nu h^2$	0.00004	$< 0.00187 \quad (+0.1\sigma)$	$100\theta_{eq}$	0.8165	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ^2_{prior}	2.1	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^3$	0.09644	$0.09623^{+0.00091}_{-0.0011} \quad (-0.7\sigma)$	$100\theta_{s,eq}$	0.4511	$0.4514^{+0.0056}_{-0.0052} \quad (+0.3\sigma)$	χ^2_{CMB}	11926.9	$11943.4 \quad (\nu: 16.6) \quad (+1547.4\sigma)$
σ_8	0.8201	$0.811^{+0.020}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	73.32	$73.0^{+1.1}_{-1.3} \quad (-0.1\sigma)$	χ^2_{BAO}	5.21	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$

Best-fit $\chi^2_{eff} = 11934.26$; $\Delta\chi^2_{eff} = 9155.13$; $\bar{\chi}^2_{eff} = 11957.14$; $\Delta\bar{\chi}^2_{eff} = 9150.70$; $R - 1 = 0.00745$
 χ^2_{eff} : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.61 (Δ 0.07) DR12BAO: 3.60 (Δ -0.11) CMB - smicadx12.Dec5.ftl.mv2.ndclpp-p.teb.consext8: 8.89 (Δ -0.08) small_100x143.offlike5_EE_Aplanc
395.87 (Δ -0.02) commander_dx12_v3.2.29: 22.96 (Δ -0.12) CamSpec like_10.7HM_1400_unified: 11499.19

6.64 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022346	$0.02234^{+0.00036}_{-0.00037} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4525	$0.451^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1519.6	$1525^{+25}_{-21} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11912	$0.1190^{+0.0024}_{-0.0025} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6091	$0.605^{+0.016}_{-0.020} \quad (-0.3\sigma)$	$H(0.51)$	90.03	$89.83^{+0.66}_{-0.81} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	1.04097	$1.04095^{+0.00076}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9932	$0.986^{+0.025}_{-0.032} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	1969.7	$1977^{+30}_{-25} \quad (+0.2\sigma)$
τ	0.0533	$0.055^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	100.45	$99.99^{+2.1}_{-2.2} \quad (+0.0\sigma)$	$H(0.61)$	95.60	$95.43^{+0.57}_{-0.70} \quad (-0.4\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.001	$< 0.164 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.435	$2.430^{+0.052}_{-0.054} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	2292.9	$2300^{+33}_{-27} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0391	$3.042^{+0.038}_{-0.038} \quad (-0.2\sigma)$	z_{re}	7.56	$7.7^{+1.8}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	235.63	$235.8^{+1.5}_{-1.5} \quad (-0.4\sigma)$
n_{s}	0.9675	$0.9672^{+0.0097}_{-0.0098} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.089	$2.094^{+0.080}_{-0.078} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5749.6	$5758^{+35}_{-27} \quad (+0.5\sigma)$
y_{cal}	1.0004	$1.0006^{+0.0066}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8774	$1.877^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4569	$0.455^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{100}^{PS}	232	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.3	$1225^{+28}_{-29} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7583	$0.750^{+0.018}_{-0.029} \quad (-0.3\sigma)$
A_{143}^{PS}	44.3	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5721	$5724^{+99}_{-96} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4769	$0.475^{+0.012}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	103.3	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2535.5	$2536^{+36}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6728	$0.665^{+0.016}_{-0.026} \quad (-0.3\sigma)$
A_{217}^{CIB}	43.3	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	816.4	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4762	$0.473^{+0.012}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.49	$< 8.77 \quad (-0.8\sigma)$	D_{2000}	230.66	$230.5^{+4.3}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6298	$0.623^{+0.015}_{-0.025} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.662	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	0.9675	$0.9672^{+0.0097}_{-0.0098} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4717	$0.469^{+0.011}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.83	—	Y_{P}	0.245386	$0.24538^{+0.00013}_{-0.00016} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	0.5994	$0.593^{+0.015}_{-0.024} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.42	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246712	$0.24671^{+0.00014}_{-0.00016} \quad (-0.7\sigma)$	$f\sigma_8(2.33)$	0.3015	$0.2989^{+0.0070}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	0.1	—	$10^5 \mathrm{D}/\mathrm{H}$	2.590	$2.592^{+0.070}_{-0.065} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	0.3116	$0.3083^{+0.0080}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{dust}	1.014	$1.01^{+0.49}_{-0.50}$	Age/Gyr	13.766	$13.786^{+0.079}_{-0.061} \quad (+0.5\sigma)$	f_{2000}^{143}	29.6	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	0.977	$0.96^{+0.44}_{-0.46}$	z_*	1089.87	$1089.87^{+0.57}_{-0.55} \quad (+0.4\sigma)$	f_{2000}^{217}	106.43	$106.7^{+5.0}_{-4.7} \quad (-0.1\sigma)$
A_{217}^{dust}	0.975	$0.98^{+0.27}_{-0.26}$	r_*	144.68	$144.71^{+0.58}_{-0.57} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	31.8	$32^{+5}_{-5} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	1.04112	$1.04113^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.88	$9.38 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{100}	0.99773	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.897	$13.899^{+0.059}_{-0.055} \quad (+0.6\sigma)$	χ_{small}^2	395.86	$397.0 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	1.00128	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	1059.82	$1059.79^{+0.79}_{-0.81} \quad (-0.8\sigma)$	χ_{lowl}^2	22.90	$22.99 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.012}$	r_{drag}	147.36	$147.39^{+0.64}_{-0.61} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.3	$11514.0 \quad (\nu: 15.0)$
c_{EE}	0.9922	$0.992^{+0.012}_{-0.012}$	k_{D}	0.14056	$0.14053^{+0.00076}_{-0.00081} \quad (-0.8\sigma)$	χ_{JLA}^2	1034.80	$1034.99 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	68.17	$67.8^{+1.2}_{-1.4} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	0.160829	$0.16084^{+0.00047}_{-0.00046} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.000	$0.037 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	0.6955	$0.692^{+0.015}_{-0.018} \quad (+0.0\sigma)$	z_{eq}	3381	$3378^{+53}_{-56} \quad (-0.4\sigma)$	χ_{MGS}^2	1.68	$1.46 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{m}	0.3045	$0.308^{+0.018}_{-0.015} \quad (-0.0\sigma)$	k_{eq}	0.010318	$0.01031^{+0.00016}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.52	$4.3 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.14148	$0.1419^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8171	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	2.1	$7.7 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00177 \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4514	$0.4516^{+0.0055}_{-0.0052} \quad (+0.3\sigma)$	χ_{CMB}^2	11926.9	$11943.4 \quad (\nu: 16.3) \quad (+1546.3\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.09644	$0.09625^{+0.00089}_{-0.0011} \quad (-0.7\sigma)$	$H(0.15)$	73.38	$73.1^{+1.1}_{-1.2} \quad (-0.1\sigma)$	χ_{BAO}^2	5.20	$5.84 \quad (\nu: 0.4) \quad (-0.0\sigma)$
σ_8	0.8200	$0.812^{+0.020}_{-0.031} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	636.5	$639^{+12}_{-10} \quad (+0.1\sigma)$			
S_8	0.8261	$0.823^{+0.027}_{-0.029} \quad (-0.3\sigma)$	$H(0.38)$	83.38	$83.15^{+0.82}_{-0.96} \quad (-0.2\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12968.97$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.00$; $\bar{\chi}_{\mathrm{eff}}^2 = 12991.94$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.74$; $R - 1 = 0.00817$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.68 (Δ 0.14) DR12BAO: 3.52 (Δ -0.18) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.88 (Δ -0.08) small_100x143_offlike5_EE_Aplanc
395.86 (Δ -0.02) commander_dx12_v3.2_29: 22.90 (Δ -0.15) CamSpec like_10.7HM_1400_unified: 11499.28 SN - JLA Pantheon18: 1034.80 (Δ -0.04)

6.65 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02234^{+0.00036}_{-0.00036} \quad (-0.7\sigma)$	S_8	$0.824^{+0.028}_{-0.029} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+13}_{-11} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0024}_{-0.0025} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	$83.11^{+0.85}_{-0.99} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.016}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+26}_{-22} \quad (+0.1\sigma)$
τ	$0.055^{+0.017}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.025}_{-0.034} \quad (-0.3\sigma)$	$H(0.51)$	$89.80^{+0.69}_{-0.85} \quad (-0.3\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.175 \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$99.9^{+2.2}_{-2.3} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1978^{+31}_{-26} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.036}_{-0.028} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.051}_{-0.051} \quad (-0.3\sigma)$	$H(0.61)$	$95.40^{+0.58}_{-0.74} \quad (-0.3\sigma)$
n_{s}	$0.9671^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$	z_{re}	$< 9.38 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2302^{+33}_{-28} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.078}_{-0.058} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.6}_{-1.6} \quad (-0.4\sigma)$
A_{100}^{PS}	$239^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.877^{+0.026}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5759^{+37}_{-28} \quad (+0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1225^{+28}_{-28} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5723^{+100}_{-96} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.019}_{-0.031} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.75 \quad (-0.8\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.017}_{-0.028} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.5^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.9671^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.623^{+0.016}_{-0.026} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.593^{+0.015}_{-0.025} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.069}_{-0.064} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.2988^{+0.0072}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.789^{+0.085}_{-0.063} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3082^{+0.0081}_{-0.013} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	z_*	$1089.88^{+0.57}_{-0.56} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	r_*	$144.70^{+0.60}_{-0.58} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.7^{+5.0}_{-4.9} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	$1.04113^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.060}_{-0.056} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.34 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	z_{drag}	$1059.79^{+0.79}_{-0.81} \quad (-0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.38^{+0.65}_{-0.62} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.02 \quad (\nu: 0.3) \quad (-0.3\sigma)$
H_0	$67.8^{+1.3}_{-1.5} \quad (-0.1\sigma)$	k_{D}	$0.14053^{+0.00077}_{-0.00082} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.1)$
Ω_{Λ}	$0.691^{+0.016}_{-0.019} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00047}_{-0.00046} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.016} \quad (-0.0\sigma)$	z_{eq}	$3379^{+55}_{-58} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.41 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0025}_{-0.0025} \quad (-0.3\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00018} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_{\nu}h^2$	$< 0.00188 \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.09623^{+0.00091}_{-0.0011} \quad (-0.7\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0056}_{-0.0053} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.2 \quad (\nu: 16.3) \quad (+1560.6\sigma)$
σ_8	$0.812^{+0.020}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$73.0^{+1.1}_{-1.3} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11956.94; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.67; R - 1 = 0.00819$$

6.66 base_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00036}_{-0.00036} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1525^{+25}_{-21} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0023}_{-0.0025} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.016}_{-0.020} \quad (-0.3\sigma)$	$H(0.51)$	$89.84^{+0.67}_{-0.82} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00077}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.024}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1976^{+30}_{-25} \quad (+0.2\sigma)$
τ	$0.055^{+0.017}_{-0.013} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.0}_{-2.2} \quad (+0.0\sigma)$	$H(0.61)$	$95.43^{+0.57}_{-0.70} \quad (-0.4\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.166 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.051}_{-0.051} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2300^{+32}_{-27} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.036}_{-0.028} \quad (-0.2\sigma)$	z_{re}	$< 9.36 \quad (-0.1\sigma)$	$H(2.33)$	$235.8^{+1.5}_{-1.5} \quad (-0.4\sigma)$
n_{s}	$0.9673^{+0.0098}_{-0.0097} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.077}_{-0.058} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+35}_{-27} \quad (+0.5\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.026}_{-0.026} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+28}_{-29} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.751^{+0.018}_{-0.030} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.666^{+0.016}_{-0.027} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.8\sigma)$	D_{2000}	$230.5^{+4.2}_{-4.0} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.623^{+0.015}_{-0.025} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.9673^{+0.0098}_{-0.0097} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$\sigma_8(0.61)$	$0.593^{+0.014}_{-0.024} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00013}_{-0.00015} \quad (-0.7\sigma)$	$f\sigma_8(2.33)$	$0.2991^{+0.0069}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.591^{+0.069}_{-0.065} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3085^{+0.0078}_{-0.013} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.080}_{-0.062} \quad (+0.5\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.46}$	z_*	$1089.86^{+0.56}_{-0.55} \quad (+0.4\sigma)$	f_{2000}^{217}	$106.7^{+5.0}_{-4.8} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	r_*	$144.72^{+0.59}_{-0.57} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	$1.04114^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.33 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.059}_{-0.055} \quad (+0.6\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	$1059.80^{+0.78}_{-0.82} \quad (-0.8\sigma)$	χ_{lowl}^2	$22.99 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	r_{drag}	$147.39^{+0.64}_{-0.61} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 15.0)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	k_{D}	$0.14052^{+0.00077}_{-0.00081} \quad (-0.8\sigma)$	χ_{JLA}^2	$1034.99 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$67.8^{+1.2}_{-1.4} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00048}_{-0.00046} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.036 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.692^{+0.016}_{-0.018} \quad (+0.0\sigma)$	z_{eq}	$3378^{+53}_{-56} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.47 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{m}	$0.308^{+0.018}_{-0.016} \quad (-0.0\sigma)$	k_{eq}	$0.01031^{+0.00016}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.3 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0024}_{-0.0023} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\nu} h^2$	$< 0.00179 \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0055}_{-0.0051} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.2 \quad (\nu: 16.0) \quad (+1559.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09625^{+0.00089}_{-0.0011} \quad (-0.7\sigma)$	$H(0.15)$	$73.1^{+1.1}_{-1.2} \quad (-0.1\sigma)$	χ_{BAO}^2	$5.83 \quad (\nu: 0.4) \quad (-0.0\sigma)$
σ_8	$0.812^{+0.019}_{-0.032} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$639^{+12}_{-10} \quad (+0.1\sigma)$		
S_8	$0.823^{+0.027}_{-0.028} \quad (-0.3\sigma)$	$H(0.38)$	$83.15^{+0.82}_{-0.97} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12991.75; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.73; R - 1 = 0.00951$$

6.67 base_mnu_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02213	$0.02203^{+0.00061}_{-0.00071}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.614	$0.598^{+0.041}_{-0.074}$	$H(0.15)$	72.9	$71.2^{+3.2}_{-6.9}$
$\Omega_{\mathrm{c}} h^2$	0.1201	$0.1209^{+0.0060}_{-0.0054}$	$\sigma_8/h^{0.5}$	0.9998	$0.969^{+0.064}_{-0.13}$	$D_{\mathrm{M}}(0.15)$	641	658^{+80}_{-30}
$100\theta_{\mathrm{MC}}$	1.04085	$1.0406^{+0.0013}_{-0.0014}$	$r_{\mathrm{drag}} h$	99.6	$96.8^{+6.0}_{-12}$	$H(0.38)$	82.99	$81.7^{+2.4}_{-5.1}$
τ	0.0518	$0.051^{+0.021}_{-0.023}$	$\langle d^2 \rangle^{1/2}$	2.453	$2.44^{+0.10}_{-0.10}$	$D_{\mathrm{M}}(0.38)$	1530	1564^{+160}_{-65}
$\Sigma m_{\nu} [\mathrm{eV}]$	0.000	< 0.873	z_{re}	7.47	$7.4^{+2.1}_{-2.5}$	$H(0.51)$	89.70	$88.7^{+1.9}_{-4.1}$
$\ln(10^{10} A_{\mathrm{s}})$	3.0372	$3.037^{+0.042}_{-0.046}$	$10^9 A_{\mathrm{s}}$	2.085	$2.085^{+0.090}_{-0.094}$	$D_{\mathrm{M}}(0.51)$	1981	2022^{+180}_{-76}
n_{s}	0.9630	$0.961^{+0.016}_{-0.018}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8794	$1.881^{+0.036}_{-0.034}$	$H(0.61)$	95.32	$94.5^{+1.6}_{-3.4}$
y_{cal}	1.0004	$1.0004^{+0.0064}_{-0.0066}$	D_{40}	1231.1	1233^{+40}_{-38}	$D_{\mathrm{M}}(0.61)$	2306	2350^{+200}_{-83}
A_{100}^{PS}	255	258^{+70}_{-70}	D_{220}	5708	5706^{+110}_{-110}	$H(2.33)$	236.1	$237.5^{+6.9}_{-3.9}$
A_{143}^{tSZ}	4.81	< 8.77	D_{810}	2531.2	2532^{+35}_{-36}	$D_{\mathrm{M}}(2.33)$	5763	5807^{+190}_{-78}
A^{kSZ}	2.7	—	D_{1420}	812.6	812^{+13}_{-14}	$f\sigma_8(0.15)$	0.4625	$0.458^{+0.034}_{-0.036}$
A_{100}^{dust}	0.995	$1.00^{+0.51}_{-0.51}$	D_{2000}	229.1	$228.5^{+4.9}_{-5.4}$	$\sigma_8(0.15)$	0.759	$0.724^{+0.053}_{-0.13}$
A_{143}^{power}	11.4	$10.9^{+7.0}_{-5.7}$	$n_{\mathrm{s},0.002}$	0.9630	$0.961^{+0.016}_{-0.018}$	$f\sigma_8(0.38)$	0.4809	$0.471^{+0.031}_{-0.054}$
A_{217}^{power}	9.6	$8.5^{+7.7}_{-5.2}$	Y_{P}	0.245296	$0.24525^{+0.00025}_{-0.00032}$	$\sigma_8(0.38)$	0.673	$0.640^{+0.048}_{-0.12}$
$A_{143 \times 217}^{\mathrm{power}}$	6.0	< 11.6	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246622	$0.24657^{+0.00025}_{-0.00032}$	$f\sigma_8(0.51)$	0.4795	$0.467^{+0.030}_{-0.062}$
$\gamma_{143}^{\mathrm{power}}$	1.29	> 0.385	$10^5 \mathrm{D}/\mathrm{H}$	2.632	$2.65^{+0.14}_{-0.11}$	$\sigma_8(0.51)$	0.630	$0.598^{+0.045}_{-0.12}$
$\gamma_{217}^{\mathrm{power}}$	1.41	—	Age/Gyr	13.796	$13.90^{+0.45}_{-0.18}$	$f\sigma_8(0.61)$	0.4744	$0.461^{+0.028}_{-0.067}$
$\gamma_{143 \times 217}^{\mathrm{power}}$	1.32	—	z_*	1090.23	$1090.5^{+1.6}_{-1.1}$	$\sigma_8(0.61)$	0.599	$0.569^{+0.043}_{-0.11}$
c_{100}	0.99792	$0.9978^{+0.0027}_{-0.0029}$	r_*	144.60	$144.4^{+1.2}_{-1.4}$	$f\sigma_8(2.33)$	0.3011	$0.287^{+0.020}_{-0.055}$
c_{217}	0.99896	$0.9994^{+0.0044}_{-0.0035}$	$100\theta_*$	1.04102	$1.0409^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3109	$0.295^{+0.023}_{-0.062}$
H_0	67.6	$65.7^{+3.7}_{-8.1}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.890	$13.88^{+0.11}_{-0.12}$	f_{2000}^{143}	23.3	24^{+9}_{-8}
Ω_{Λ}	0.689	$0.663^{+0.056}_{-0.12}$	z_{drag}	1059.36	$1059.2^{+1.2}_{-1.3}$	f_{2000}^{217}	17.0	$17.4^{+5.9}_{-5.3}$
Ω_{m}	0.311	$0.337^{+0.12}_{-0.056}$	r_{drag}	147.34	$147.2^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	11.2	$11.7^{+6.5}_{-5.8}$
$\Omega_{\mathrm{m}} h^2$	0.1422	$0.145^{+0.012}_{-0.0065}$	k_{D}	0.14041	$0.1405^{+0.0014}_{-0.0013}$	χ_{simall}^2	395.81	$396.9 (\nu: 1.3)$
$\Omega_{\nu} h^2$	0.00000	< 0.00938	$100\theta_{\mathrm{D}}$	0.16108	$0.16115^{+0.00074}_{-0.00068}$	χ_{lowl}^2	23.69	$23.9 (\nu: 0.9)$
$\Omega_{\mathrm{m}} h^3$	0.09615	$0.0951^{+0.0020}_{-0.0050}$	z_{eq}	3399	3415^{+130}_{-120}	$\chi_{\mathrm{CamSpec}}^2$	6703.6	$6717.4 (\nu: 14.8)$
σ_8	0.822	$0.786^{+0.057}_{-0.14}$	k_{eq}	0.010374	$0.01042^{+0.00041}_{-0.00037}$	χ_{prior}^2	1.5	$5.3 (\nu: 4.2)$
S_8	0.837	$0.831^{+0.066}_{-0.065}$	$100\theta_{\mathrm{eq}}$	0.8131	$0.810^{+0.023}_{-0.024}$	χ_{CMB}^2	7123.1	$7138.2 (\nu: 15.1)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4586	$0.455^{+0.036}_{-0.036}$	$100\theta_{\mathrm{s,eq}}$	0.4495	$0.448^{+0.012}_{-0.012}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 7124.58$; $\bar{\chi}_{\mathrm{eff}}^2 = 7143.49$; $R - 1 = 0.00791$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.81 commander_dx12_v3.2_29: 23.69 CamSpec like_10.7cleaned: 6703.61

6.68 base_mnu_lensing_lenspriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1540	1082^{+700}_{-500}	$H(0.15)$	92.1	77^{+30}_{-30}
$\Omega_c h^2$	0.127	$0.168^{+0.083}_{-0.074}$	D_{220}	6680	4588^{+4000}_{-3000}	$D_M(0.15)$	501	655^{+300}_{-200}
$100\theta_{MC}$	1.118	$1.11^{+0.14}_{-0.16}$	D_{810}	2684	1908^{+2000}_{-1000}	$H(0.38)$	101.0	91^{+30}_{-30}
Σm_ν [eV]	0.55	—	D_{1420}	733	564^{+500}_{-300}	$D_M(0.38)$	1217	1509^{+700}_{-500}
$\ln(10^{10} A_s)$	3.238	$2.96^{+0.46}_{-0.45}$	D_{2000}	210	167^{+200}_{-100}	$H(0.51)$	107.1	100^{+30}_{-30}
n_s	0.961	$0.960^{+0.052}_{-0.053}$	$n_{s,0.002}$	0.961	$0.960^{+0.052}_{-0.053}$	$D_M(0.51)$	1592	1927^{+800}_{-600}
H_0	87.6	—	Y_P	0.24533	$0.24531^{+0.00055}_{-0.00056}$	$H(0.61)$	112.3	108^{+30}_{-30}
Ω_Λ	0.80	$0.45^{+0.43}_{-0.98}$	Y_P^{BBN}	0.24666	$0.24664^{+0.00055}_{-0.00056}$	$D_M(0.61)$	1866	2221^{+1000}_{-700}
Ω_m	0.20	$0.55^{+0.98}_{-0.43}$	$10^5 D/H$	2.616	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	252	284^{+70}_{-70}
$\Omega_m h^2$	0.155	$0.213^{+0.11}_{-0.096}$	Age/Gyr	11.97	$12.5^{+4.4}_{-3.1}$	$D_M(2.33)$	4976	5207^{+2000}_{-1000}
$\Omega_\nu h^2$	0.0059	< 0.0526	z_*	1090.9	$1094.9^{+7.8}_{-7.0}$	$f\sigma_8(0.15)$	0.406	$0.457^{+0.065}_{-0.098}$
$\Omega_m h^3$	0.136	$0.147^{+0.14}_{-0.097}$	r_*	142.6	133^{+20}_{-20}	$\sigma_8(0.15)$	0.816	$0.63^{+0.26}_{-0.23}$
σ_8	0.868	$0.70^{+0.24}_{-0.22}$	$100\theta_*$	1.118	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	0.451	$0.440^{+0.055}_{-0.081}$
S_8	0.713	$0.87^{+0.27}_{-0.23}$	$D_M(z_*)/\text{Gpc}$	12.75	$12.0^{+3.6}_{-2.6}$	$\sigma_8(0.38)$	0.739	$0.55^{+0.26}_{-0.22}$
$\sigma_8 \Omega_m^{0.5}$	0.390	$0.47^{+0.15}_{-0.13}$	z_{drag}	1060.2	$1063.4^{+6.7}_{-6.9}$	$f\sigma_8(0.51)$	0.465	$0.427^{+0.069}_{-0.11}$
$\sigma_8 \Omega_m^{0.25}$	0.582	$0.569^{+0.059}_{-0.056}$	r_{drag}	145.3	135^{+20}_{-20}	$\sigma_8(0.51)$	0.699	$0.51^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	0.927	$0.85^{+0.15}_{-0.13}$	k_D	0.1428	$0.155^{+0.023}_{-0.022}$	$f\sigma_8(0.61)$	0.470	$0.416^{+0.081}_{-0.12}$
$r_{\text{drag}} h$	127.2	93^{+50}_{-40}	$100\theta_D$	0.1726	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	0.670	$0.49^{+0.25}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	2.516	$2.50^{+0.15}_{-0.15}$	z_{eq}	3569	4534^{+2000}_{-2000}	$f\sigma_8(2.33)$	0.351	$0.25^{+0.14}_{-0.12}$
z_{re}	8.12	$8.9^{+1.6}_{-1.6}$	k_{eq}	0.0109	$0.0139^{+0.0062}_{-0.0055}$	$\sigma_8(2.33)$	0.366	$0.25^{+0.16}_{-0.12}$
$10^9 A_s$	2.55	$1.96^{+1.1}_{-0.73}$	$100\theta_{\text{eq}}$	0.843	$0.72^{+0.21}_{-0.15}$	χ^2_{lensing}	7.4	$10.3 (\nu: 2.4)$
$10^9 A_s e^{-2\tau}$	2.28	$1.76^{+0.98}_{-0.66}$	$100\theta_{s,\text{eq}}$	0.467	$0.403^{+0.11}_{-0.080}$	χ^2_{prior}	0.00	$2.0 (\nu: 2.1)$

Best-fit $\chi^2_{\text{eff}} = 7.40$; $\bar{\chi}^2_{\text{eff}} = 12.38$; $R - 1 = 0.00245$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.40

6.69 base_mnu_lensing_lenspriors_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.0222^{+0.0013}_{-0.0014}$	D_{220}	6603	4854^{+3000}_{-2000}	$H(0.38)$	84.0	102^{+20}_{-20}
$\Omega_c h^2$	0.116	$0.168^{+0.073}_{-0.072}$	D_{810}	2872	1826^{+2000}_{-1000}	$D_M(0.38)$	1506	1255^{+400}_{-200}
$100\theta_{MC}$	1.048	$1.16^{+0.10}_{-0.15}$	D_{1420}	916	527^{+600}_{-300}	$H(0.51)$	90.6	110^{+20}_{-30}
Σm_ν [eV]	0.31	—	D_{2000}	258	152^{+200}_{-80}	$D_M(0.51)$	1952	1627^{+500}_{-300}
$\ln(10^{10} A_s)$	3.166	$3.05^{+0.32}_{-0.28}$	$n_{s,0.002}$	0.959	$0.960^{+0.055}_{-0.051}$	$H(0.61)$	96.2	117^{+20}_{-30}
n_s	0.959	$0.960^{+0.055}_{-0.051}$	Y_P	0.24535	$0.24532^{+0.00056}_{-0.00059}$	$D_M(0.61)$	2274	1895^{+600}_{-400}
H_0	68.9	> 63.5	Y_P^{BBN}	0.24667	$0.24664^{+0.00056}_{-0.00059}$	$H(2.33)$	236	287^{+60}_{-70}
Ω_Λ	0.702	$0.700^{+0.053}_{-0.058}$	$10^5 D/H$	2.607	$2.62^{+0.27}_{-0.23}$	$D_M(2.33)$	5719	4765^{+1000}_{-900}
Ω_m	0.298	$0.300^{+0.058}_{-0.053}$	Age/Gyr	13.69	$11.4^{+3.3}_{-2.2}$	$f\sigma_8(0.15)$	0.4427	$0.433^{+0.047}_{-0.049}$
$\Omega_m h^2$	0.142	$0.212^{+0.098}_{-0.096}$	z_*	1089.8	$1094.9^{+7.2}_{-7.0}$	$\sigma_8(0.15)$	0.736	$0.717^{+0.086}_{-0.083}$
$\Omega_\nu h^2$	0.0033	< 0.0513	r_*	145.5	133^{+20}_{-10}	$f\sigma_8(0.38)$	0.4643	$0.455^{+0.046}_{-0.049}$
$\Omega_m h^3$	0.098	$0.18^{+0.12}_{-0.11}$	$100\theta_*$	1.049	$1.16^{+0.10}_{-0.15}$	$\sigma_8(0.38)$	0.655	$0.638^{+0.080}_{-0.076}$
σ_8	0.795	$0.774^{+0.090}_{-0.087}$	$D_M(z_*)/\text{Gpc}$	13.87	$11.6^{+3.3}_{-2.2}$	$f\sigma_8(0.51)$	0.4647	$0.456^{+0.047}_{-0.048}$
S_8	0.793	$0.772^{+0.090}_{-0.090}$	z_{drag}	1059.4	$1063.4^{+6.0}_{-6.7}$	$\sigma_8(0.51)$	0.614	$0.598^{+0.077}_{-0.073}$
$\sigma_8 \Omega_m^{0.5}$	0.4341	$0.423^{+0.049}_{-0.049}$	r_{drag}	148.2	135^{+20}_{-10}	$f\sigma_8(0.61)$	0.4611	$0.452^{+0.046}_{-0.048}$
$\sigma_8 \Omega_m^{0.25}$	0.587	$0.572^{+0.060}_{-0.061}$	k_D	0.1397	$0.155^{+0.020}_{-0.022}$	$\sigma_8(0.61)$	0.585	$0.570^{+0.075}_{-0.070}$
$\sigma_8/h^{0.5}$	0.957	$0.85^{+0.15}_{-0.14}$	$100\theta_D$	0.1622	$0.177^{+0.015}_{-0.020}$	$f\sigma_8(2.33)$	0.2992	$0.296^{+0.039}_{-0.037}$
$r_{\text{drag}} h$	102.1	113^{+10}_{-20}	z_{eq}	3307	4555^{+2000}_{-2000}	$\sigma_8(2.33)$	0.3069	$0.301^{+0.043}_{-0.040}$
$\langle d^2 \rangle^{1/2}$	2.517	$2.49^{+0.15}_{-0.14}$	k_{eq}	0.0101	$0.0140^{+0.0055}_{-0.0053}$	χ^2_{lensing}	7.5	$10.2 (\nu: 2.2)$
z_{re}	7.77	$8.9^{+1.5}_{-1.6}$	$100\theta_{\text{eq}}$	0.837	$0.75^{+0.15}_{-0.11}$	χ^2_{JLA}	1034.73	$1035.7 (\nu: 0.9)$
$10^9 A_s$	2.37	$2.12^{+0.77}_{-0.52}$	$100\theta_{s,\text{eq}}$	0.462	$0.416^{+0.078}_{-0.058}$	χ^2_{prior}	0.01	$2.0 (\nu: 2.1)$
$10^9 A_s e^{-2\tau}$	2.12	$1.90^{+0.69}_{-0.47}$	$H(0.15)$	74.1	90^{+20}_{-20}			
D_{40}	1421	1182^{+500}_{-400}	$D_M(0.15)$	630	525^{+200}_{-100}			

Best-fit $\chi^2_{\text{eff}} = 1042.24$; $\bar{\chi}^2_{\text{eff}} = 1047.91$; $R - 1 = 0.00847$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.49 SN - JLA Pantheon18: 1034.73

6.70 base_mnu_lensing_lenspriors_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1101^{+800}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.166^{+0.080}_{-0.074}$	D_{220}	4687^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	653^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1939^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	572^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1505^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.97^{+0.47}_{-0.45}$	D_{2000}	169^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.054}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.054}$	$D_{\mathrm{M}}(0.51)$	1921^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00057}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.46^{+0.44}_{-0.99}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00058}$	$D_{\mathrm{M}}(0.61)$	2215^{+1000}_{-700}
Ω_{m}	$0.54^{+0.99}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	283^{+70}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.212^{+0.11}_{-0.098}$	Age/Gyr	$12.5^{+4.4}_{-3.1}$	$D_{\mathrm{M}}(2.33)$	5203^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0527	z_{*}	$1094.8^{+7.5}_{-7.4}$	$f\sigma_8(0.15)$	$0.449^{+0.058}_{-0.094}$
$\Omega_{\mathrm{m}}h^3$	$0.146^{+0.14}_{-0.097}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.62^{+0.25}_{-0.22}$
σ_8	$0.69^{+0.24}_{-0.21}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.433^{+0.046}_{-0.076}$
S_8	$0.85^{+0.27}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.0^{+3.6}_{-2.7}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.22}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.47^{+0.15}_{-0.12}$	z_{drag}	$1063.3^{+6.6}_{-7.0}$	$f\sigma_8(0.51)$	$0.420^{+0.060}_{-0.10}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.559^{+0.047}_{-0.044}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.25}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.83^{+0.15}_{-0.11}$	k_{D}	$0.155^{+0.022}_{-0.022}$	$f\sigma_8(0.61)$	$0.410^{+0.073}_{-0.12}$
$r_{\mathrm{drag}}h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	$0.48^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.15}_{-0.15}$	z_{eq}	4494^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0138^{+0.0060}_{-0.0055}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
10^9A_{s}	$1.99^{+1.1}_{-0.79}$	$100\theta_{\mathrm{eq}}$	$0.73^{+0.21}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$12.6 (\nu: 2.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.78^{+0.95}_{-0.70}$	$100\theta_{\mathrm{s,eq}}$	$0.407^{+0.11}_{-0.078}$	χ^2_{prior}	$2.1 (\nu: 2.2)$

$\bar{\chi}^2_{\mathrm{eff}} = 14.65$; $R - 1 = 0.00247$

6.71 base_mnu_lensing_lenspriors_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1089^{+800}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.168^{+0.092}_{-0.078}$	D_{220}	4631^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	655^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1919^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	568^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1509^{+700}_{-500}
$\ln(10^{10} A_{\mathrm{s}})$	$2.96^{+0.49}_{-0.50}$	D_{2000}	169^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.053}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.053}$	$D_{\mathrm{M}}(0.51)$	1926^{+900}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00056}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.45^{+0.44}_{-1.0}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2220^{+1000}_{-700}
Ω_{m}	$0.55^{+1.0}_{-0.44}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	284^{+70}_{-70}
$\Omega_{\mathrm{m}} h^2$	$0.21^{+0.12}_{-0.10}$	Age/Gyr	$12.5^{+4.5}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5208^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0527	z_{*}	$1094.9^{+8.4}_{-7.4}$	$f\sigma_8(0.15)$	$0.457^{+0.067}_{-0.10}$
$\Omega_{\mathrm{m}} h^3$	$0.15^{+0.15}_{-0.10}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.63^{+0.26}_{-0.23}$
σ_8	$0.70^{+0.25}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.440^{+0.059}_{-0.081}$
S_8	$0.87^{+0.28}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.0^{+3.7}_{-2.8}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.23}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.47^{+0.15}_{-0.13}$	z_{drag}	$1063.4^{+7.1}_{-7.1}$	$f\sigma_8(0.51)$	$0.427^{+0.071}_{-0.11}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.569^{+0.064}_{-0.058}$	r_{drag}	135^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.85^{+0.15}_{-0.13}$	k_{D}	$0.155^{+0.024}_{-0.023}$	$f\sigma_8(0.61)$	$0.416^{+0.083}_{-0.12}$
$r_{\mathrm{drag}} h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.020}_{-0.023}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.19}_{-0.19}$	z_{eq}	4547^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.11}$
z_{re}	$8.9^{+1.7}_{-1.7}$	k_{eq}	$0.0140^{+0.0069}_{-0.0058}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
$10^9 A_{\mathrm{s}}$	$1.97^{+1.2}_{-0.80}$	$100\theta_{\mathrm{eq}}$	$0.72^{+0.22}_{-0.16}$	$\chi^2_{\mathrm{lensing}}$	$10.3 (\nu: 2.3)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.77^{+1.1}_{-0.72}$	$100\theta_{\mathrm{s,eq}}$	$0.404^{+0.11}_{-0.088}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.33$; $R - 1 = 0.00626$

6.72 base_mnu_lensing_lenspriors_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1090^{+700}_{-500}	$H(0.15)$	76^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.166^{+0.086}_{-0.072}$	D_{220}	4639^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	658^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1937^{+2000}_{-1000}	$H(0.38)$	90^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	573^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1517^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.96^{+0.45}_{-0.46}$	D_{2000}	170^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.053}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.053}$	$D_{\mathrm{M}}(0.51)$	1937^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00057}$	$H(0.61)$	107^{+30}_{-30}
Ω_{Λ}	$0.46^{+0.43}_{-0.98}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2233^{+900}_{-700}
Ω_{m}	$0.54^{+0.98}_{-0.43}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	281^{+70}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.209^{+0.11}_{-0.092}$	Age/Gyr	$12.6^{+4.3}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5241^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0523	z_{*}	$1094.6^{+8.1}_{-6.8}$	$f\sigma_8(0.15)$	$0.460^{+0.065}_{-0.097}$
$\Omega_{\mathrm{m}}h^3$	$0.143^{+0.14}_{-0.094}$	r_{*}	134^{+20}_{-20}	$\sigma_8(0.15)$	$0.64^{+0.25}_{-0.23}$
σ_8	$0.70^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.443^{+0.055}_{-0.082}$
S_8	$0.87^{+0.27}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.1^{+3.6}_{-2.6}$	$\sigma_8(0.38)$	$0.56^{+0.26}_{-0.23}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.48^{+0.15}_{-0.13}$	z_{drag}	$1063.2^{+6.9}_{-6.7}$	$f\sigma_8(0.51)$	$0.431^{+0.068}_{-0.11}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.573^{+0.059}_{-0.056}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.52^{+0.25}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.85^{+0.15}_{-0.13}$	k_{D}	$0.154^{+0.023}_{-0.021}$	$f\sigma_8(0.61)$	$0.420^{+0.080}_{-0.12}$
$r_{\mathrm{drag}}h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.020}_{-0.022}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.15}_{-0.15}$	z_{eq}	4487^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.8^{+1.7}_{-1.5}$	k_{eq}	$0.0138^{+0.0064}_{-0.0053}$	$\sigma_8(2.33)$	$0.26^{+0.16}_{-0.13}$
10^9A_{s}	$1.97^{+1.1}_{-0.75}$	$100\theta_{\mathrm{eq}}$	$0.73^{+0.20}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$8.2 (\nu: 2.6)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.77^{+0.96}_{-0.67}$	$100\theta_{\mathrm{s,eq}}$	$0.404^{+0.10}_{-0.083}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 10.23$; $R - 1 = 0.00322$

6.73 base_mnu_lensing_lenspriors_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1245^{+800}_{-600}	$H(0.15)$	76^{+30}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.153^{+0.082}_{-0.077}$	D_{220}	5459^{+5000}_{-3000}	$D_{\mathrm{M}}(0.15)$	660^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.10^{+0.14}_{-0.16}$	D_{810}	2219^{+2000}_{-1000}	$H(0.38)$	90^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	659^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1528^{+700}_{-500}
$\ln(10^{10} A_{\mathrm{s}})$	$3.08^{+0.44}_{-0.47}$	D_{2000}	200^{+300}_{-100}	$H(0.51)$	98^{+30}_{-30}
n_{s}	$0.959^{+0.051}_{-0.054}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.051}_{-0.054}$	$D_{\mathrm{M}}(0.51)$	1954^{+900}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00057}$	$H(0.61)$	105^{+30}_{-30}
Ω_{Λ}	$0.49^{+0.43}_{-0.93}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2255^{+1000}_{-700}
Ω_{m}	$0.51^{+0.92}_{-0.43}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	274^{+70}_{-70}
$\Omega_{\mathrm{m}} h^2$	$0.20^{+0.11}_{-0.10}$	Age/Gyr	$12.8^{+4.7}_{-3.5}$	$D_{\mathrm{M}}(2.33)$	5336^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0524	z_{*}	$1093.8^{+7.9}_{-7.7}$	$f\sigma_8(0.15)$	$0.441^{+0.076}_{-0.099}$
$\Omega_{\mathrm{m}} h^3$	$0.14^{+0.14}_{-0.10}$	r_{*}	136^{+20}_{-20}	$\sigma_8(0.15)$	$0.63^{+0.25}_{-0.22}$
σ_8	$0.69^{+0.24}_{-0.21}$	$100\theta_{*}$	$1.10^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.429^{+0.055}_{-0.072}$
S_8	$0.83^{+0.28}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.4^{+3.9}_{-2.7}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.24}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.45^{+0.15}_{-0.13}$	z_{drag}	$1062.5^{+7.0}_{-7.2}$	$f\sigma_8(0.51)$	$0.419^{+0.066}_{-0.098}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.553^{+0.060}_{-0.059}$	r_{drag}	138^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.26}_{-0.24}$
$\sigma_8/h^{0.5}$	$0.84^{+0.16}_{-0.12}$	k_{D}	$0.152^{+0.024}_{-0.024}$	$f\sigma_8(0.61)$	$0.409^{+0.078}_{-0.11}$
$r_{\mathrm{drag}} h$	95^{+50}_{-50}	$100\theta_{\mathrm{D}}$	$0.169^{+0.020}_{-0.024}$	$\sigma_8(0.61)$	$0.49^{+0.26}_{-0.23}$
$\langle d^2 \rangle^{1/2}$	$2.57^{+0.19}_{-0.18}$	z_{eq}	4185^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.13}$
z_{re}	$8.7^{+1.6}_{-1.6}$	k_{eq}	$0.0129^{+0.0061}_{-0.0057}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.13}$
$10^9 A_{\mathrm{s}}$	$2.22^{+1.2}_{-0.86}$	$100\theta_{\mathrm{eq}}$	$0.76^{+0.21}_{-0.16}$	$\chi^2_{\mathrm{lensing}}$	$11.5 (\nu: 2.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.99^{+1.0}_{-0.77}$	$100\theta_{\mathrm{s,eq}}$	$0.423^{+0.11}_{-0.085}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 13.44$; $R - 1 = 0.08205$

6.74 base_mnu_lensing_lenspriors_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1055^{+700}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.169^{+0.085}_{-0.075}$	D_{220}	4463^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	654^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1859^{+1000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	549^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1507^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.94^{+0.45}_{-0.45}$	D_{2000}	163^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.053}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.053}$	$D_{\mathrm{M}}(0.51)$	1924^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00054}_{-0.00059}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.45^{+0.44}_{-1.0}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2218^{+900}_{-700}
Ω_{m}	$0.55^{+1.0}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	284^{+70}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.213^{+0.11}_{-0.097}$	Age/Gyr	$12.5^{+4.3}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5199^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0526	z_{*}	$1094.9^{+7.8}_{-7.3}$	$f\sigma_8(0.15)$	$0.455^{+0.065}_{-0.096}$
$\Omega_{\mathrm{m}}h^3$	$0.147^{+0.14}_{-0.098}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.63^{+0.25}_{-0.23}$
σ_8	$0.69^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.438^{+0.055}_{-0.082}$
S_8	$0.86^{+0.27}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.0^{+3.5}_{-2.7}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.22}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.47^{+0.15}_{-0.13}$	z_{drag}	$1063.5^{+6.8}_{-6.9}$	$f\sigma_8(0.51)$	$0.425^{+0.069}_{-0.11}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.566^{+0.060}_{-0.055}$	r_{drag}	135^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.84^{+0.15}_{-0.13}$	k_{D}	$0.155^{+0.023}_{-0.022}$	$f\sigma_8(0.61)$	$0.414^{+0.081}_{-0.12}$
$r_{\mathrm{drag}}h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.15}_{-0.14}$	z_{eq}	4559^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0140^{+0.0063}_{-0.0055}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
10^9A_{s}	$1.92^{+1.0}_{-0.72}$	$100\theta_{\mathrm{eq}}$	$0.72^{+0.20}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$10.5 (\nu: 2.4)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.72^{+0.93}_{-0.64}$	$100\theta_{\mathrm{s,eq}}$	$0.402^{+0.10}_{-0.081}$	χ^2_{prior}	$2.1 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.60$; $R - 1 = 0.00308$

6.75 base_mnu_lensing_lenspriors_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1077^{+700}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.166^{+0.082}_{-0.075}$	D_{220}	4579^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	652^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1896^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	559^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1505^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.95^{+0.46}_{-0.45}$	D_{2000}	166^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.055}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.055}$	$D_{\mathrm{M}}(0.51)$	1921^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00054}_{-0.00059}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.46^{+0.44}_{-1.0}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2215^{+900}_{-700}
Ω_{m}	$0.54^{+1.0}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	283^{+70}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.212^{+0.11}_{-0.097}$	Age/Gyr	$12.5^{+4.4}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5205^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0526	z_{*}	$1094.8^{+7.7}_{-7.4}$	$f\sigma_8(0.15)$	$0.447^{+0.057}_{-0.092}$
$\Omega_{\mathrm{m}}h^3$	$0.146^{+0.14}_{-0.098}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.62^{+0.25}_{-0.22}$
σ_8	$0.68^{+0.24}_{-0.21}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.431^{+0.046}_{-0.077}$
S_8	$0.85^{+0.26}_{-0.22}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.1^{+3.6}_{-2.7}$	$\sigma_8(0.38)$	$0.54^{+0.25}_{-0.22}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.46^{+0.15}_{-0.12}$	z_{drag}	$1063.3^{+6.7}_{-7.0}$	$f\sigma_8(0.51)$	$0.419^{+0.060}_{-0.10}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.557^{+0.047}_{-0.044}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.25}_{-0.21}$
$\sigma_8/h^{0.5}$	$0.83^{+0.15}_{-0.11}$	k_{D}	$0.155^{+0.023}_{-0.022}$	$f\sigma_8(0.61)$	$0.408^{+0.072}_{-0.12}$
$r_{\mathrm{drag}}h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	$0.48^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.47^{+0.15}_{-0.15}$	z_{eq}	4504^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.11}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0138^{+0.0062}_{-0.0055}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
10^9A_{s}	$1.95^{+1.0}_{-0.78}$	$100\theta_{\mathrm{eq}}$	$0.73^{+0.20}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$12.8 (\nu: 2.3)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.74^{+0.90}_{-0.70}$	$100\theta_{\mathrm{s,eq}}$	$0.406^{+0.11}_{-0.079}$	χ^2_{prior}	$2.1 (\nu: 2.2)$

$\bar{\chi}^2_{\mathrm{eff}} = 14.86$; $R - 1 = 0.00267$

6.76 base_mnu_lensing_lenspriors_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1050^{+700}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.172^{+0.085}_{-0.076}$	D_{220}	4412^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	657^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1847^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	545^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1510^{+700}_{-500}
$\ln(10^{10} A_{\mathrm{s}})$	$2.94^{+0.46}_{-0.46}$	D_{2000}	161^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.052}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	1926^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00054}_{-0.00056}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.43^{+0.45}_{-1.0}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2219^{+900}_{-700}
Ω_{m}	$0.57^{+1.0}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	286^{+70}_{-70}
$\Omega_{\mathrm{m}} h^2$	$0.217^{+0.11}_{-0.098}$	Age/Gyr	$12.4^{+4.3}_{-3.1}$	$D_{\mathrm{M}}(2.33)$	5182^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0527	z_{*}	$1095.2^{+7.8}_{-7.1}$	$f\sigma_8(0.15)$	$0.466^{+0.067}_{-0.10}$
$\Omega_{\mathrm{m}} h^3$	$0.149^{+0.14}_{-0.099}$	r_{*}	132^{+20}_{-20}	$\sigma_8(0.15)$	$0.64^{+0.26}_{-0.23}$
σ_8	$0.70^{+0.25}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.447^{+0.060}_{-0.085}$
S_8	$0.89^{+0.28}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$11.9^{+3.5}_{-2.6}$	$\sigma_8(0.38)$	$0.56^{+0.26}_{-0.22}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.49^{+0.16}_{-0.13}$	z_{drag}	$1063.7^{+6.7}_{-6.9}$	$f\sigma_8(0.51)$	$0.432^{+0.074}_{-0.11}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.578^{+0.064}_{-0.060}$	r_{drag}	135^{+20}_{-20}	$\sigma_8(0.51)$	$0.52^{+0.26}_{-0.23}$
$\sigma_8/h^{0.5}$	$0.85^{+0.15}_{-0.13}$	k_{D}	$0.156^{+0.023}_{-0.022}$	$f\sigma_8(0.61)$	$0.420^{+0.085}_{-0.12}$
$r_{\mathrm{drag}} h$	92^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.16}_{-0.15}$	z_{eq}	4647^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0143^{+0.0063}_{-0.0056}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
$10^9 A_{\mathrm{s}}$	$1.92^{+1.1}_{-0.73}$	$100\theta_{\mathrm{eq}}$	$0.71^{+0.20}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$10.8 (\nu: 2.4)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.72^{+0.95}_{-0.65}$	$100\theta_{\mathrm{s,eq}}$	$0.397^{+0.11}_{-0.081}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.85$; $R - 1 = 0.00368$

6.77 base_mnu_lensing_lenspriors_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1084^{+700}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.167^{+0.083}_{-0.074}$	D_{220}	4594^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	655^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1913^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	565^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1509^{+700}_{-500}
$\ln(10^{10} A_{\mathrm{s}})$	$2.96^{+0.46}_{-0.45}$	D_{2000}	168^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.051}_{-0.052}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	1927^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00058}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.45^{+0.43}_{-0.98}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00058}$	$D_{\mathrm{M}}(0.61)$	2221^{+900}_{-700}
Ω_{m}	$0.55^{+0.98}_{-0.43}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	283^{+70}_{-70}
$\Omega_{\mathrm{m}} h^2$	$0.212^{+0.11}_{-0.096}$	Age/Gyr	$12.5^{+4.3}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5209^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0526	z_{*}	$1094.8^{+7.9}_{-7.1}$	$f\sigma_8(0.15)$	$0.457^{+0.065}_{-0.097}$
$\Omega_{\mathrm{m}} h^3$	$0.146^{+0.14}_{-0.097}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.63^{+0.26}_{-0.23}$
σ_8	$0.70^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.440^{+0.055}_{-0.081}$
S_8	$0.86^{+0.27}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.0^{+3.6}_{-2.7}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.23}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.47^{+0.15}_{-0.13}$	z_{drag}	$1063.4^{+6.7}_{-6.8}$	$f\sigma_8(0.51)$	$0.427^{+0.068}_{-0.11}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.568^{+0.058}_{-0.055}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.85^{+0.15}_{-0.13}$	k_{D}	$0.155^{+0.022}_{-0.022}$	$f\sigma_8(0.61)$	$0.416^{+0.080}_{-0.12}$
$r_{\mathrm{drag}} h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.020}_{-0.023}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.15}_{-0.15}$	z_{eq}	4526^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0139^{+0.0062}_{-0.0055}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
$10^9 A_{\mathrm{s}}$	$1.97^{+1.1}_{-0.73}$	$100\theta_{\mathrm{eq}}$	$0.72^{+0.21}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$10.3 (\nu: 2.3)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.76^{+0.98}_{-0.66}$	$100\theta_{\mathrm{s,eq}}$	$0.404^{+0.11}_{-0.079}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.32$; $R - 1 = 0.00185$

6.78 base_mnu_lensing_lenspriors_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1101^{+800}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.166^{+0.080}_{-0.075}$	D_{220}	4682^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	652^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1938^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	570^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1504^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.97^{+0.47}_{-0.44}$	D_{2000}	169^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.054}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.054}$	$D_{\mathrm{M}}(0.51)$	1920^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00059}$	$H(0.61)$	108^{+30}_{-30}
Ω_{Λ}	$0.46^{+0.44}_{-0.99}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2214^{+900}_{-700}
Ω_{m}	$0.54^{+0.99}_{-0.44}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	283^{+70}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.212^{+0.11}_{-0.099}$	Age/Gyr	$12.5^{+4.4}_{-3.1}$	$D_{\mathrm{M}}(2.33)$	5199^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0527	z_{*}	$1094.8^{+7.7}_{-7.3}$	$f\sigma_8(0.15)$	$0.448^{+0.057}_{-0.094}$
$\Omega_{\mathrm{m}}h^3$	$0.147^{+0.14}_{-0.098}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.62^{+0.25}_{-0.22}$
σ_8	$0.68^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.432^{+0.045}_{-0.076}$
S_8	$0.85^{+0.26}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.0^{+3.7}_{-2.6}$	$\sigma_8(0.38)$	$0.54^{+0.26}_{-0.23}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.46^{+0.14}_{-0.12}$	z_{drag}	$1063.4^{+6.6}_{-7.0}$	$f\sigma_8(0.51)$	$0.419^{+0.059}_{-0.10}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.558^{+0.046}_{-0.043}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.25}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.83^{+0.15}_{-0.11}$	k_{D}	$0.155^{+0.022}_{-0.022}$	$f\sigma_8(0.61)$	$0.409^{+0.072}_{-0.12}$
$r_{\mathrm{drag}}h$	94^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.019}_{-0.023}$	$\sigma_8(0.61)$	$0.48^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.15}_{-0.15}$	z_{eq}	4496^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.9^{+1.6}_{-1.6}$	k_{eq}	$0.0138^{+0.0059}_{-0.0056}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.12}$
10^9A_{s}	$1.99^{+1.1}_{-0.79}$	$100\theta_{\mathrm{eq}}$	$0.73^{+0.21}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$12.6 (\nu: 2.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.78^{+0.96}_{-0.71}$	$100\theta_{\mathrm{s,eq}}$	$0.407^{+0.11}_{-0.077}$	χ^2_{prior}	$2.1 (\nu: 2.2)$

$\bar{\chi}^2_{\mathrm{eff}} = 14.67$; $R - 1 = 0.00159$

6.79 base_mnu_lensing_lenspriors_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\rm b} h^2$	$0.0222^{+0.0013}_{-0.0014}$	D_{40}	1095^{+700}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\rm c} h^2$	$0.164^{+0.077}_{-0.071}$	D_{220}	4668^{+4000}_{-3000}	$D_{\rm M}(0.15)$	655^{+300}_{-200}
$100\theta_{\rm MC}$	$1.11^{+0.13}_{-0.16}$	D_{810}	1939^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_ν [eV]	—	D_{1420}	572^{+500}_{-400}	$D_{\rm M}(0.38)$	1510^{+700}_{-500}
$\ln(10^{10} A_{\rm s})$	$2.97^{+0.45}_{-0.44}$	D_{2000}	170^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
$n_{\rm s}$	$0.959^{+0.052}_{-0.053}$	$n_{\rm s,0.002}$	$0.959^{+0.052}_{-0.053}$	$D_{\rm M}(0.51)$	1929^{+900}_{-600}
H_0	—	$Y_{\rm P}$	$0.24531^{+0.00054}_{-0.00059}$	$H(0.61)$	107^{+30}_{-30}
Ω_{Λ}	$0.46^{+0.43}_{-0.95}$	$Y_{\rm P}^{\rm BBN}$	$0.24664^{+0.00055}_{-0.00059}$	$D_{\rm M}(0.61)$	2225^{+1000}_{-700}
$\Omega_{\rm m}$	$0.54^{+0.95}_{-0.43}$	$10^5 {\rm D/H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	281^{+60}_{-70}
$\Omega_{\rm m} h^2$	$0.209^{+0.10}_{-0.093}$	Age/Gyr	$12.5^{+4.3}_{-3.2}$	$D_{\rm M}(2.33)$	5228^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0527	z_*	$1094.6^{+7.5}_{-6.9}$	$f\sigma_8(0.15)$	$0.449^{+0.070}_{-0.093}$
$\Omega_{\rm m} h^3$	$0.144^{+0.14}_{-0.096}$	r_*	134^{+20}_{-20}	$\sigma_8(0.15)$	$0.63^{+0.26}_{-0.23}$
σ_8	$0.69^{+0.25}_{-0.22}$	$100\theta_*$	$1.11^{+0.13}_{-0.16}$	$f\sigma_8(0.38)$	$0.434^{+0.058}_{-0.083}$
S_8	$0.85^{+0.25}_{-0.22}$	$D_{\rm M}(z_*)/{\rm Gpc}$	$12.1^{+3.5}_{-2.6}$	$\sigma_8(0.38)$	$0.55^{+0.26}_{-0.23}$
$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.46^{+0.14}_{-0.12}$	$z_{\rm drag}$	$1063.2^{+6.5}_{-6.7}$	$f\sigma_8(0.51)$	$0.422^{+0.072}_{-0.11}$
$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.560^{+0.065}_{-0.059}$	$r_{\rm drag}$	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.51^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.84^{+0.16}_{-0.13}$	$k_{\rm D}$	$0.154^{+0.021}_{-0.021}$	$f\sigma_8(0.61)$	$0.411^{+0.083}_{-0.12}$
$r_{\rm drag} h$	93^{+50}_{-40}	$100\theta_{\rm D}$	$0.170^{+0.020}_{-0.022}$	$\sigma_8(0.61)$	$0.48^{+0.26}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.15}_{-0.15}$	$z_{\rm eq}$	4448^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.11}$
$z_{\rm re}$	$8.8^{+1.5}_{-1.6}$	$k_{\rm eq}$	$0.0137^{+0.0058}_{-0.0053}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.13}$
$10^9 A_{\rm s}$	$1.98^{+1.1}_{-0.73}$	$100\theta_{\rm eq}$	$0.73^{+0.20}_{-0.14}$	$\chi^2_{\rm lensing}$	$10.1 (\nu: 2.2)$
$10^9 A_{\rm s} e^{-2\tau}$	$1.77^{+0.97}_{-0.65}$	$100\theta_{\rm s,eq}$	$0.408^{+0.11}_{-0.075}$	$\chi^2_{\rm prior}$	$2.1 (\nu: 2.1)$

$\bar{\chi}^2_{\rm eff} = 12.19; R - 1 = 0.00405$

6.80 base_mnu_lensing_lenspriors_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0014}$	D_{40}	1124^{+800}_{-500}	$H(0.15)$	77^{+30}_{-30}
$\Omega_{\mathrm{c}}h^2$	$0.161^{+0.074}_{-0.071}$	D_{220}	4816^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	649^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1982^{+2000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	583^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1499^{+700}_{-500}
$\ln(10^{10}A_{\mathrm{s}})$	$2.99^{+0.46}_{-0.42}$	D_{2000}	173^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.055}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.055}$	$D_{\mathrm{M}}(0.51)$	1917^{+900}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00054}_{-0.00060}$	$H(0.61)$	107^{+30}_{-30}
Ω_{Λ}	$0.48^{+0.43}_{-0.94}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00060}$	$D_{\mathrm{M}}(0.61)$	2211^{+1000}_{-700}
Ω_{m}	$0.52^{+0.94}_{-0.42}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.28}_{-0.23}$	$H(2.33)$	281^{+60}_{-70}
$\Omega_{\mathrm{m}}h^2$	$0.207^{+0.099}_{-0.094}$	Age/Gyr	$12.5^{+4.4}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5219^{+2000}_{-1000}
$\Omega_{\nu}h^2$	< 0.0530	z_{*}	$1094.5^{+7.2}_{-7.0}$	$f\sigma_8(0.15)$	$0.438^{+0.061}_{-0.090}$
$\Omega_{\mathrm{m}}h^3$	$0.145^{+0.14}_{-0.097}$	r_{*}	134^{+20}_{-20}	$\sigma_8(0.15)$	$0.62^{+0.25}_{-0.23}$
σ_8	$0.68^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.425^{+0.048}_{-0.080}$
S_8	$0.82^{+0.25}_{-0.22}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.1^{+3.6}_{-2.6}$	$\sigma_8(0.38)$	$0.54^{+0.26}_{-0.22}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.45^{+0.14}_{-0.12}$	z_{drag}	$1063.1^{+6.3}_{-6.9}$	$f\sigma_8(0.51)$	$0.414^{+0.061}_{-0.11}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.548^{+0.053}_{-0.047}$	r_{drag}	137^{+20}_{-20}	$\sigma_8(0.51)$	$0.50^{+0.25}_{-0.21}$
$\sigma_8/h^{0.5}$	$0.82^{+0.16}_{-0.12}$	k_{D}	$0.154^{+0.021}_{-0.021}$	$f\sigma_8(0.61)$	$0.404^{+0.074}_{-0.12}$
$r_{\mathrm{drag}}h$	95^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.020}_{-0.023}$	$\sigma_8(0.61)$	$0.48^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.15}_{-0.16}$	z_{eq}	4381^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.11}$
z_{re}	$8.8^{+1.5}_{-1.6}$	k_{eq}	$0.0135^{+0.0055}_{-0.0053}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.13}$
10^9A_{s}	$2.02^{+1.1}_{-0.78}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.21}_{-0.14}$	$\chi^2_{\mathrm{lensing}}$	$12.5 (\nu: 2.1)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.81^{+0.95}_{-0.69}$	$100\theta_{\mathrm{s,eq}}$	$0.413^{+0.11}_{-0.074}$	χ^2_{prior}	$2.1 (\nu: 2.2)$

$\bar{\chi}^2_{\mathrm{eff}} = 14.57$; $R - 1 = 0.00607$

6.81 base_mnu_lensing_lenspriors_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1076^{+700}_{-500}	$H(0.15)$	76^{+30}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.167^{+0.086}_{-0.072}$	D_{220}	4571^{+4000}_{-3000}	$D_{\mathrm{M}}(0.15)$	658^{+300}_{-200}
$100\theta_{\mathrm{MC}}$	$1.11^{+0.14}_{-0.16}$	D_{810}	1910^{+1000}_{-1000}	$H(0.38)$	91^{+30}_{-30}
Σm_{ν} [eV]	—	D_{1420}	565^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1516^{+700}_{-500}
$\ln(10^{10} A_{\mathrm{s}})$	$2.95^{+0.44}_{-0.46}$	D_{2000}	168^{+200}_{-100}	$H(0.51)$	100^{+30}_{-30}
n_{s}	$0.959^{+0.052}_{-0.053}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.053}$	$D_{\mathrm{M}}(0.51)$	1935^{+800}_{-600}
H_0	—	Y_{P}	$0.24531^{+0.00055}_{-0.00057}$	$H(0.61)$	107^{+30}_{-30}
Ω_{Λ}	$0.45^{+0.43}_{-0.98}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2231^{+900}_{-700}
Ω_{m}	$0.55^{+0.98}_{-0.43}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	282^{+70}_{-70}
$\Omega_{\mathrm{m}} h^2$	$0.210^{+0.11}_{-0.093}$	Age/Gyr	$12.6^{+4.3}_{-3.2}$	$D_{\mathrm{M}}(2.33)$	5233^{+2000}_{-1000}
$\Omega_{\nu} h^2$	< 0.0523	z_{*}	$1094.7^{+8.1}_{-6.8}$	$f\sigma_8(0.15)$	$0.460^{+0.065}_{-0.097}$
$\Omega_{\mathrm{m}} h^3$	$0.144^{+0.14}_{-0.095}$	r_{*}	133^{+20}_{-20}	$\sigma_8(0.15)$	$0.64^{+0.25}_{-0.23}$
σ_8	$0.70^{+0.24}_{-0.22}$	$100\theta_{*}$	$1.11^{+0.14}_{-0.16}$	$f\sigma_8(0.38)$	$0.443^{+0.056}_{-0.083}$
S_8	$0.87^{+0.27}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.1^{+3.5}_{-2.7}$	$\sigma_8(0.38)$	$0.56^{+0.26}_{-0.23}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.48^{+0.15}_{-0.13}$	z_{drag}	$1063.3^{+6.9}_{-6.7}$	$f\sigma_8(0.51)$	$0.430^{+0.069}_{-0.11}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.572^{+0.060}_{-0.057}$	r_{drag}	136^{+20}_{-20}	$\sigma_8(0.51)$	$0.52^{+0.26}_{-0.22}$
$\sigma_8/h^{0.5}$	$0.85^{+0.15}_{-0.13}$	k_{D}	$0.155^{+0.023}_{-0.021}$	$f\sigma_8(0.61)$	$0.419^{+0.081}_{-0.12}$
$r_{\mathrm{drag}} h$	93^{+50}_{-40}	$100\theta_{\mathrm{D}}$	$0.170^{+0.020}_{-0.022}$	$\sigma_8(0.61)$	$0.49^{+0.25}_{-0.21}$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.15}_{-0.15}$	z_{eq}	4512^{+2000}_{-2000}	$f\sigma_8(2.33)$	$0.25^{+0.14}_{-0.12}$
z_{re}	$8.8^{+1.6}_{-1.5}$	k_{eq}	$0.0139^{+0.0064}_{-0.0054}$	$\sigma_8(2.33)$	$0.25^{+0.16}_{-0.13}$
$10^9 A_{\mathrm{s}}$	$1.95^{+1.0}_{-0.74}$	$100\theta_{\mathrm{eq}}$	$0.72^{+0.20}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$9.2 (\nu: 2.6)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.75^{+0.93}_{-0.66}$	$100\theta_{\mathrm{s,eq}}$	$0.403^{+0.10}_{-0.082}$	χ^2_{prior}	$2.0 (\nu: 2.1)$

$\bar{\chi}^2_{\mathrm{eff}} = 11.22$; $R - 1 = 0.00322$

6.82 base_mnu_lensing_lenspriors_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1365	1107^{+700}_{-400}	$H(0.15)$	69.8	62^{+20}_{-10}
$\Omega_c h^2$	0.1191	$0.142^{+0.043}_{-0.046}$	D_{220}	6388	5103^{+4000}_{-2000}	$D_M(0.15)$	673	798^{+200}_{-200}
$100\theta_{MC}$	1.04089	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2807	2374^{+1000}_{-900}	$H(0.38)$	80.5	76^{+10}_{-5}
Σm_ν [eV]	0.46	< 2.84	D_{1420}	900	775^{+400}_{-300}	$D_M(0.38)$	1595	1807^{+300}_{-400}
$\ln(10^{10} A_s)$	3.145	$2.98^{+0.42}_{-0.34}$	D_{2000}	254	220^{+100}_{-80}	$H(0.51)$	87.6	$85.4^{+7.8}_{-2.9}$
n_s	0.960	$0.961^{+0.051}_{-0.051}$	$n_{s,0.002}$	0.960	$0.961^{+0.051}_{-0.051}$	$D_M(0.51)$	2059	2291^{+300}_{-400}
H_0	64.1	< 74.5	Y_P	0.24533	$0.24532^{+0.00055}_{-0.00055}$	$H(0.61)$	93.53	$92.8^{+5.2}_{-2.4}$
Ω_Λ	0.64	$0.29^{+0.50}_{-0.70}$	Y_P^{BBN}	0.24666	$0.24664^{+0.00055}_{-0.00055}$	$D_M(0.61)$	2390	2628^{+300}_{-500}
Ω_m	0.36	$0.71^{+0.70}_{-0.51}$	$10^5 D/H$	2.615	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	238.1	258^{+30}_{-40}
$\Omega_m h^2$	0.146	$0.178^{+0.053}_{-0.057}$	Age/Gyr	14.01	$14.25^{+0.41}_{-0.58}$	$D_M(2.33)$	5855	5940^{+150}_{-250}
$\Omega_\nu h^2$	0.0049	< 0.0305	z_*	1090.12	$1092.5^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	0.457	$0.477^{+0.049}_{-0.088}$
$\Omega_m h^3$	0.0937	$0.0928^{+0.0056}_{-0.0053}$	r_*	144.7	139^{+12}_{-10}	$\sigma_8(0.15)$	0.696	$0.58^{+0.21}_{-0.17}$
σ_8	0.757	$0.65^{+0.20}_{-0.16}$	$100\theta_*$	1.04127	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	0.465	$0.435^{+0.057}_{-0.069}$
S_8	0.825	$0.93^{+0.20}_{-0.25}$	$D_M(z_*)/\text{Gpc}$	13.89	$13.3^{+1.2}_{-0.97}$	$\sigma_8(0.38)$	0.614	$0.50^{+0.21}_{-0.16}$
$\sigma_8 \Omega_m^{0.5}$	0.452	$0.51^{+0.11}_{-0.14}$	z_{drag}	1059.59	$1061.5^{+4.8}_{-5.1}$	$f\sigma_8(0.51)$	0.460	$0.413^{+0.072}_{-0.083}$
$\sigma_8 \Omega_m^{0.25}$	0.585	$0.570^{+0.054}_{-0.052}$	r_{drag}	147.4	141^{+13}_{-10}	$\sigma_8(0.51)$	0.573	$0.46^{+0.21}_{-0.15}$
$\sigma_8/h^{0.5}$	0.946	$0.88^{+0.13}_{-0.11}$	k_D	0.1405	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	0.452	$0.397^{+0.082}_{-0.090}$
$r_{\text{drag}} h$	94.4	76^{+40}_{-20}	$100\theta_D$	0.16092	$0.1600^{+0.0028}_{-0.0027}$	$\sigma_8(0.61)$	0.545	$0.43^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	2.529	$2.53^{+0.13}_{-0.13}$	z_{eq}	3376	3935^{+1000}_{-1000}	$f\sigma_8(2.33)$	0.278	$0.219^{+0.11}_{-0.078}$
z_{re}	7.83	$8.30^{+0.84}_{-0.93}$	k_{eq}	0.01031	$0.0120^{+0.0032}_{-0.0034}$	$\sigma_8(2.33)$	0.282	$0.220^{+0.12}_{-0.082}$
$10^9 A_s$	2.32	$1.99^{+0.94}_{-0.64}$	$100\theta_{\text{eq}}$	0.818	$0.74^{+0.18}_{-0.13}$	χ^2_{lensing}	7.47	9.8 (ν : 1.9)
$10^9 A_s e^{-2\tau}$	2.08	$1.79^{+0.84}_{-0.58}$	$100\theta_{s,\text{eq}}$	0.452	$0.412^{+0.095}_{-0.067}$	χ^2_{prior}	0.0	3.0 (ν : 2.9)

Best-fit $\chi^2_{\text{eff}} = 7.48$; $\bar{\chi}^2_{\text{eff}} = 12.80$; $R - 1 = 0.00091$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.47

6.83 base_mnu_lensing_lenspriors_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0012}_{-0.0013}$	D_{220}	6761	6806^{+2000}_{-1000}	$H(0.38)$	82.84	$82.7^{+2.7}_{-2.6}$
$\Omega_c h^2$	0.1130	$0.113^{+0.011}_{-0.011}$	D_{810}	2916	2940^{+800}_{-600}	$D_M(0.38)$	1527	1530^{+72}_{-69}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	D_{1420}	930	939^{+300}_{-200}	$H(0.51)$	89.37	$89.3^{+2.2}_{-2.2}$
Σm_ν [eV]	0.261	< 0.716	D_{2000}	261	264^{+70}_{-60}	$D_M(0.51)$	1980	1984^{+85}_{-82}
$\ln(10^{10} A_s)$	3.178	$3.18^{+0.22}_{-0.19}$	$n_{s,0.002}$	0.961	$0.963^{+0.052}_{-0.048}$	$H(0.61)$	94.85	$94.8^{+1.9}_{-2.0}$
n_s	0.961	$0.963^{+0.052}_{-0.048}$	Y_P	0.24533	$0.24531^{+0.00051}_{-0.00057}$	$D_M(0.61)$	2306	2310^{+92}_{-89}
H_0	67.93	$67.8^{+4.2}_{-4.1}$	Y_P^{BBN}	0.24665	$0.24664^{+0.00051}_{-0.00057}$	$H(2.33)$	232.9	$233.0^{+6.9}_{-6.8}$
Ω_Λ	0.701	$0.699^{+0.051}_{-0.057}$	$10^5 D/H$	2.617	$2.62^{+0.27}_{-0.21}$	$D_M(2.33)$	5798	5802^{+110}_{-89}
Ω_m	0.299	$0.301^{+0.057}_{-0.051}$	Age/Gyr	13.885	$13.89^{+0.25}_{-0.21}$	$f\sigma_8(0.15)$	0.4418	$0.441^{+0.035}_{-0.038}$
$\Omega_m h^2$	0.1380	$0.138^{+0.010}_{-0.010}$	z_*	1089.54	$1089.6^{+1.7}_{-1.7}$	$\sigma_8(0.15)$	0.735	$0.731^{+0.060}_{-0.071}$
$\Omega_\nu h^2$	0.00281	< 0.00770	r_*	146.37	$146.4^{+3.3}_{-3.2}$	$f\sigma_8(0.38)$	0.4631	$0.461^{+0.029}_{-0.036}$
$\Omega_m h^3$	0.09375	$0.0936^{+0.0046}_{-0.0047}$	$100\theta_*$	1.04123	$1.0412^{+0.0016}_{-0.0016}$	$\sigma_8(0.38)$	0.653	$0.650^{+0.057}_{-0.064}$
σ_8	0.793	$0.790^{+0.062}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	14.057	$14.06^{+0.31}_{-0.31}$	$f\sigma_8(0.51)$	0.4634	$0.462^{+0.029}_{-0.036}$
S_8	0.792	$0.791^{+0.072}_{-0.075}$	z_{drag}	1059.06	$1059.1^{+3.0}_{-3.2}$	$\sigma_8(0.51)$	0.612	$0.609^{+0.054}_{-0.061}$
$\sigma_8 \Omega_m^{0.5}$	0.4337	$0.433^{+0.039}_{-0.041}$	r_{drag}	149.13	$149.1^{+3.5}_{-3.5}$	$f\sigma_8(0.61)$	0.4597	$0.458^{+0.029}_{-0.035}$
$\sigma_8 \Omega_m^{0.25}$	0.5865	$0.585^{+0.040}_{-0.051}$	k_D	0.13863	$0.1386^{+0.0041}_{-0.0041}$	$\sigma_8(0.61)$	0.583	$0.580^{+0.053}_{-0.059}$
$\sigma_8/h^{0.5}$	0.962	$0.959^{+0.063}_{-0.077}$	$100\theta_D$	0.16120	$0.1612^{+0.0019}_{-0.0018}$	$f\sigma_8(2.33)$	0.2978	$0.296^{+0.026}_{-0.028}$
$r_{\text{drag}} h$	101.3	$101.1^{+7.7}_{-6.9}$	z_{eq}	3231	3230^{+270}_{-270}	$\sigma_8(2.33)$	0.3057	$0.304^{+0.030}_{-0.033}$
$\langle d^2 \rangle^{1/2}$	2.522	$2.52^{+0.14}_{-0.12}$	k_{eq}	0.00986	$0.00986^{+0.00082}_{-0.00081}$	χ^2_{lensing}	7.50	9.2 (ν : 1.5)
z_{re}	7.704	$7.71^{+0.30}_{-0.30}$	$100\theta_{\text{eq}}$	0.845	$0.846^{+0.056}_{-0.050}$	χ^2_{JLA}	1034.73	1035.6 (ν : 0.9)
$10^9 A_s$	2.40	$2.42^{+0.59}_{-0.43}$	$100\theta_{s,\text{eq}}$	0.4661	$0.467^{+0.030}_{-0.026}$	χ^2_{prior}	0.0	3.0 (ν : 2.8)
$10^9 A_s e^{-2\tau}$	2.149	$2.16^{+0.53}_{-0.38}$	$H(0.15)$	73.04	$72.9^{+3.6}_{-3.5}$			
D_{40}	1440	1441^{+400}_{-300}	$D_M(0.15)$	639.1	641^{+36}_{-34}			

Best-fit $\chi^2_{\text{eff}} = 1042.24$; $\bar{\chi}^2_{\text{eff}} = 1047.78$; $R - 1 = 0.00923$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.50 SN - JLA Pantheon18: 1034.73

6.84 base_mnu_lensing_lenspriors_theta_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1140^{+700}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.140^{+0.041}_{-0.045}$	D_{220}	5286^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	796^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2438^{+1000}_{-900}	$H(0.38)$	76^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.89	D_{1420}	795^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1805^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$3.00^{+0.42}_{-0.34}$	D_{2000}	225^{+100}_{-80}	$H(0.51)$	$85.4^{+7.8}_{-3.1}$
n_{s}	$0.960^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2288^{+300}_{-500}
H_0	< 75.4	Y_{P}	$0.24532^{+0.00056}_{-0.00055}$	$H(0.61)$	$92.7^{+5.3}_{-2.6}$
Ω_{Λ}	$0.29^{+0.52}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2625^{+300}_{-500}
Ω_{m}	$0.71^{+0.70}_{-0.52}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.24}$	$H(2.33)$	257^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.176^{+0.053}_{-0.058}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.28^{+0.40}_{-0.62}$	$D_{\mathrm{M}}(2.33)$	5949^{+150}_{-270}
$\Omega_{\nu} h^2$	< 0.0310	z_{*}	$1092.3^{+4.4}_{-4.7}$	$f\sigma_8(0.15)$	$0.466^{+0.043}_{-0.084}$
$\Omega_{\mathrm{m}} h^3$	$0.0920^{+0.0051}_{-0.0047}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.22}_{-0.16}$
σ_8	$0.64^{+0.21}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.427^{+0.052}_{-0.062}$
S_8	$0.91^{+0.20}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.4^{+1.2}_{-0.98}$	$\sigma_8(0.38)$	$0.49^{+0.22}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.50^{+0.11}_{-0.13}$	z_{drag}	$1061.3^{+5.1}_{-5.1}$	$f\sigma_8(0.51)$	$0.406^{+0.069}_{-0.077}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.559^{+0.048}_{-0.041}$	r_{drag}	142^{+13}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.22}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.87^{+0.12}_{-0.10}$	k_{D}	$0.147^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.390^{+0.080}_{-0.085}$
$r_{\mathrm{drag}} h$	77^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0028}_{-0.0028}$	$\sigma_8(0.61)$	$0.43^{+0.21}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.13}_{-0.12}$	z_{eq}	3867^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.217^{+0.11}_{-0.078}$
z_{re}	$8.27^{+0.85}_{-0.92}$	k_{eq}	$0.0118^{+0.0031}_{-0.0033}$	$\sigma_8(2.33)$	$0.218^{+0.13}_{-0.081}$
$10^9 A_{\mathrm{s}}$	$2.04^{+0.96}_{-0.66}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$12.1 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.83^{+0.86}_{-0.59}$	$100\theta_{\mathrm{s,eq}}$	$0.418^{+0.096}_{-0.067}$	χ^2_{prior}	$3.0 (\nu: 2.8)$

$\bar{\chi}^2_{\mathrm{eff}} = 15.15$; $R - 1 = 0.00151$

6.85 base_mnu_lensing_lenspriors_theta_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1131^{+800}_{-500}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.141^{+0.046}_{-0.048}$	D_{220}	5233^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	794^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2421^{+1000}_{-900}	$H(0.38)$	76^{+10}_{-5}
Σm_{ν} [eV]	< 2.89	D_{1420}	790^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1801^{+300}_{-400}
$\ln(10^{10}A_{\mathrm{s}})$	$3.00^{+0.46}_{-0.38}$	D_{2000}	224^{+100}_{-80}	$H(0.51)$	$85.5^{+7.8}_{-3.3}$
n_{s}	$0.961^{+0.050}_{-0.051}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.051}$	$D_{\mathrm{M}}(0.51)$	2284^{+300}_{-500}
H_0	< 75.4	Y_{P}	$0.24532^{+0.00054}_{-0.00055}$	$H(0.61)$	$92.7^{+5.5}_{-2.6}$
Ω_{Λ}	$0.30^{+0.50}_{-0.71}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2621^{+300}_{-500}
Ω_{m}	$0.70^{+0.71}_{-0.50}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	257^{+30}_{-40}
$\Omega_{\mathrm{m}}h^2$	$0.177^{+0.055}_{-0.059}$	Age/Gyr	$14.25^{+0.43}_{-0.59}$	$D_{\mathrm{M}}(2.33)$	5940^{+160}_{-260}
$\Omega_{\nu}h^2$	< 0.0311	z_{*}	$1092.4^{+4.4}_{-4.8}$	$f\sigma_8(0.15)$	$0.474^{+0.053}_{-0.093}$
$\Omega_{\mathrm{m}}h^3$	$0.0926^{+0.0060}_{-0.0054}$	r_{*}	139^{+13}_{-11}	$\sigma_8(0.15)$	$0.58^{+0.21}_{-0.17}$
σ_8	$0.65^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.435^{+0.058}_{-0.069}$
S_8	$0.93^{+0.21}_{-0.25}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-1.0}$	$\sigma_8(0.38)$	$0.50^{+0.21}_{-0.16}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.14}$	z_{drag}	$1061.4^{+5.0}_{-5.2}$	$f\sigma_8(0.51)$	$0.413^{+0.072}_{-0.084}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.569^{+0.057}_{-0.054}$	r_{drag}	142^{+13}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.21}_{-0.16}$
$\sigma_8/h^{0.5}$	$0.88^{+0.13}_{-0.12}$	k_{D}	$0.147^{+0.013}_{-0.015}$	$f\sigma_8(0.61)$	$0.397^{+0.081}_{-0.091}$
$r_{\mathrm{drag}}h$	77^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0028}_{-0.0027}$	$\sigma_8(0.61)$	$0.44^{+0.21}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.15}_{-0.15}$	z_{eq}	3903^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.221^{+0.11}_{-0.081}$
z_{re}	$8.28^{+0.86}_{-0.94}$	k_{eq}	$0.0120^{+0.0034}_{-0.0035}$	$\sigma_8(2.33)$	$0.221^{+0.13}_{-0.084}$
10^9A_{s}	$2.03^{+1.1}_{-0.71}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.19}_{-0.14}$	$\chi^2_{\mathrm{lensing}}$	$9.7 (\nu: 1.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.82^{+0.96}_{-0.64}$	$100\theta_{\mathrm{s,eq}}$	$0.415^{+0.10}_{-0.072}$	χ^2_{prior}	$3.0 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.69$; $R - 1 = 0.00184$

6.86 base_mnu_lensing_lenspriors_theta_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{40}	1098^{+600}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.143^{+0.044}_{-0.046}$	D_{220}	5051^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	798^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{810}	2353^{+1000}_{-900}	$H(0.38)$	76^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.79	D_{1420}	769^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1808^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$2.97^{+0.42}_{-0.35}$	D_{2000}	218^{+100}_{-80}	$H(0.51)$	$85.4^{+7.6}_{-2.8}$
n_{s}	$0.960^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2291^{+300}_{-400}
H_0	< 74.0	Y_{P}	$0.24532^{+0.00054}_{-0.00054}$	$H(0.61)$	$92.8^{+4.9}_{-2.4}$
Ω_{Λ}	$0.29^{+0.50}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2628^{+300}_{-500}
Ω_{m}	$0.71^{+0.70}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	259^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.179^{+0.053}_{-0.057}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.25^{+0.40}_{-0.57}$	$D_{\mathrm{M}}(2.33)$	5937^{+150}_{-240}
$\Omega_{\nu} h^2$	< 0.0300	z_{*}	$1092.5^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	$0.479^{+0.049}_{-0.088}$
$\Omega_{\mathrm{m}} h^3$	$0.0930^{+0.0056}_{-0.0053}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.58^{+0.21}_{-0.17}$
σ_8	$0.65^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.438^{+0.056}_{-0.069}$
S_8	$0.94^{+0.20}_{-0.25}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-0.97}$	$\sigma_8(0.38)$	$0.50^{+0.21}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.13}$	z_{drag}	$1061.5^{+4.9}_{-5.0}$	$f\sigma_8(0.51)$	$0.415^{+0.071}_{-0.084}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.573^{+0.054}_{-0.051}$	r_{drag}	141^{+12}_{-10}	$\sigma_8(0.51)$	$0.46^{+0.21}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.89^{+0.12}_{-0.11}$	k_{D}	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.399^{+0.081}_{-0.091}$
$r_{\mathrm{drag}} h$	76^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0027}_{-0.0027}$	$\sigma_8(0.61)$	$0.44^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.13}_{-0.13}$	z_{eq}	3952^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.220^{+0.11}_{-0.078}$
z_{re}	$8.31^{+0.83}_{-0.92}$	k_{eq}	$0.0121^{+0.0032}_{-0.0034}$	$\sigma_8(2.33)$	$0.220^{+0.12}_{-0.082}$
$10^9 A_{\mathrm{s}}$	$1.98^{+0.92}_{-0.64}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$7.6 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.77^{+0.83}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.411^{+0.093}_{-0.068}$	χ^2_{prior}	$3.0 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 10.54; R - 1 = 0.00109$

6.87 base_mnu_lensing_lenspriors_theta_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1264^{+900}_{-500}	$H(0.15)$	63^{+20}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.134^{+0.045}_{-0.046}$	D_{220}	5943^{+5000}_{-3000}	$D_{\mathrm{M}}(0.15)$	784^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2695^{+2000}_{-1000}	$H(0.38)$	77^{+10}_{-6}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 3.53	D_{1420}	875^{+500}_{-300}	$D_{\mathrm{M}}(0.38)$	1786^{+400}_{-400}
$\ln(10^{10}A_{\mathrm{s}})$	$3.09^{+0.44}_{-0.38}$	D_{2000}	248^{+100}_{-90}	$H(0.51)$	$85.5^{+9.3}_{-3.7}$
n_{s}	$0.961^{+0.050}_{-0.052}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.052}$	$D_{\mathrm{M}}(0.51)$	2268^{+400}_{-500}
H_0	< 78.4	Y_{P}	$0.24531^{+0.00056}_{-0.00059}$	$H(0.61)$	$92.5^{+7.8}_{-2.9}$
Ω_{Λ}	$0.33^{+0.54}_{-0.74}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00059}$	$D_{\mathrm{M}}(0.61)$	2605^{+400}_{-500}
Ω_{m}	$0.67^{+0.73}_{-0.54}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	254^{+40}_{-40}
$\Omega_{\mathrm{m}}h^2$	$0.171^{+0.060}_{-0.063}$	Age/Gyr	$14.30^{+0.47}_{-0.75}$	$D_{\mathrm{M}}(2.33)$	5958^{+190}_{-310}
$\Omega_{\nu}h^2$	< 0.0379	z_{*}	$1091.9^{+4.5}_{-5.0}$	$f\sigma_8(0.15)$	$0.459^{+0.060}_{-0.096}$
$\Omega_{\mathrm{m}}h^3$	$0.0911^{+0.0056}_{-0.0055}$	r_{*}	140^{+13}_{-11}	$\sigma_8(0.15)$	$0.58^{+0.24}_{-0.19}$
σ_8	$0.64^{+0.22}_{-0.18}$	$100\theta_{*}$	$1.0414^{+0.0015}_{-0.0016}$	$f\sigma_8(0.38)$	$0.426^{+0.059}_{-0.077}$
S_8	$0.89^{+0.22}_{-0.25}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.5^{+1.3}_{-1.1}$	$\sigma_8(0.38)$	$0.50^{+0.24}_{-0.19}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.49^{+0.12}_{-0.14}$	z_{drag}	$1061.0^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	$0.407^{+0.073}_{-0.092}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.555^{+0.058}_{-0.062}$	r_{drag}	143^{+14}_{-12}	$\sigma_8(0.51)$	$0.46^{+0.23}_{-0.18}$
$\sigma_8/h^{0.5}$	$0.87^{+0.13}_{-0.14}$	k_{D}	$0.146^{+0.014}_{-0.015}$	$f\sigma_8(0.61)$	$0.392^{+0.084}_{-0.099}$
$r_{\mathrm{drag}}h$	79^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1601^{+0.0030}_{-0.0027}$	$\sigma_8(0.61)$	$0.44^{+0.23}_{-0.17}$
$\langle d^2 \rangle^{1/2}$	$2.60^{+0.14}_{-0.16}$	z_{eq}	3727^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.223^{+0.12}_{-0.093}$
z_{re}	$8.20^{+0.88}_{-0.99}$	k_{eq}	$0.0114^{+0.0033}_{-0.0034}$	$\sigma_8(2.33)$	$0.224^{+0.14}_{-0.097}$
10^9A_{s}	$2.24^{+1.2}_{-0.79}$	$100\theta_{\mathrm{eq}}$	$0.77^{+0.21}_{-0.15}$	$\chi^2_{\mathrm{lensing}}$	$11.1 (\nu: 1.7)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.01^{+1.0}_{-0.71}$	$100\theta_{\mathrm{s,eq}}$	$0.429^{+0.11}_{-0.078}$	χ^2_{prior}	$2.9 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 13.98; R - 1 = 0.03431$

6.88 base_mnu_lensing_lenspriors_theta_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{40}	1078^{+600}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.143^{+0.044}_{-0.046}$	D_{220}	4963^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	798^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2314^{+1000}_{-800}	$H(0.38)$	76^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.80	D_{1420}	756^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1808^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$2.95^{+0.41}_{-0.35}$	D_{2000}	215^{+100}_{-70}	$H(0.51)$	$85.4^{+7.1}_{-3.0}$
n_{s}	$0.961^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2292^{+300}_{-400}
H_0	< 74.0	Y_{P}	$0.24532^{+0.00056}_{-0.00053}$	$H(0.61)$	$92.8^{+4.9}_{-2.4}$
Ω_{Λ}	$0.28^{+0.50}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2629^{+300}_{-500}
Ω_{m}	$0.72^{+0.70}_{-0.52}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.24}$	$H(2.33)$	259^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.179^{+0.054}_{-0.057}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.25^{+0.41}_{-0.57}$	$D_{\mathrm{M}}(2.33)$	5938^{+150}_{-240}
$\Omega_{\nu} h^2$	< 0.0301	z_{*}	$1092.5^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	$0.475^{+0.049}_{-0.087}$
$\Omega_{\mathrm{m}} h^3$	$0.0929^{+0.0055}_{-0.0053}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.21}_{-0.16}$
σ_8	$0.64^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.433^{+0.056}_{-0.068}$
S_8	$0.93^{+0.20}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-0.97}$	$\sigma_8(0.38)$	$0.49^{+0.21}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.13}$	z_{drag}	$1061.5^{+5.0}_{-5.0}$	$f\sigma_8(0.51)$	$0.411^{+0.071}_{-0.083}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.567^{+0.055}_{-0.052}$	r_{drag}	141^{+12}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.20}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.88^{+0.12}_{-0.12}$	k_{D}	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.394^{+0.081}_{-0.089}$
$r_{\mathrm{drag}} h$	76^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0027}_{-0.0028}$	$\sigma_8(0.61)$	$0.43^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.12}_{-0.12}$	z_{eq}	3952^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.217^{+0.11}_{-0.078}$
z_{re}	$8.31^{+0.83}_{-0.92}$	k_{eq}	$0.0121^{+0.0032}_{-0.0034}$	$\sigma_8(2.33)$	$0.218^{+0.12}_{-0.081}$
$10^9 A_{\mathrm{s}}$	$1.94^{+0.90}_{-0.63}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$9.96 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.74^{+0.81}_{-0.56}$	$100\theta_{\mathrm{s,eq}}$	$0.411^{+0.094}_{-0.068}$	χ^2_{prior}	$3.0 (\nu: 2.8)$
$\bar{\chi}^2_{\mathrm{eff}} = 12.95; R - 1 = 0.00197$					

6.89 base_mnu_lensing_lenspriors_theta_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1111^{+600}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.140^{+0.042}_{-0.044}$	D_{220}	5147^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	795^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2378^{+1000}_{-800}	$H(0.38)$	76^{+10}_{-5}
Σm_{ν} [eV]	< 2.83	D_{1420}	775^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1804^{+300}_{-400}
$\ln(10^{10}A_{\mathrm{s}})$	$2.98^{+0.41}_{-0.34}$	D_{2000}	220^{+100}_{-70}	$H(0.51)$	$85.4^{+7.5}_{-3.1}$
n_{s}	$0.960^{+0.049}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.049}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2287^{+300}_{-400}
H_0	< 75.0	Y_{P}	$0.24532^{+0.00056}_{-0.00054}$	$H(0.61)$	$92.7^{+5.0}_{-2.6}$
Ω_{Λ}	$0.29^{+0.51}_{-0.71}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2624^{+300}_{-500}
Ω_{m}	$0.71^{+0.71}_{-0.51}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.24}$	$H(2.33)$	257^{+30}_{-40}
$\Omega_{\mathrm{m}}h^2$	$0.177^{+0.053}_{-0.056}$	Age/Gyr	$14.27^{+0.40}_{-0.60}$	$D_{\mathrm{M}}(2.33)$	5946^{+150}_{-260}
$\Omega_{\nu}h^2$	< 0.0304	z_{*}	$1092.3^{+4.4}_{-4.6}$	$f\sigma_8(0.15)$	$0.464^{+0.042}_{-0.082}$
$\Omega_{\mathrm{m}}h^3$	$0.0922^{+0.0051}_{-0.0047}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.21}_{-0.16}$
σ_8	$0.63^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0015}_{-0.0015}$	$f\sigma_8(0.38)$	$0.425^{+0.052}_{-0.061}$
S_8	$0.91^{+0.20}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.4^{+1.2}_{-0.99}$	$\sigma_8(0.38)$	$0.49^{+0.21}_{-0.16}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.50^{+0.11}_{-0.12}$	z_{drag}	$1061.4^{+5.2}_{-5.0}$	$f\sigma_8(0.51)$	$0.404^{+0.067}_{-0.077}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.557^{+0.047}_{-0.041}$	r_{drag}	142^{+13}_{-10}	$\sigma_8(0.51)$	$0.45^{+0.21}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.86^{+0.12}_{-0.10}$	k_{D}	$0.147^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.389^{+0.079}_{-0.084}$
$r_{\mathrm{drag}}h$	77^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0028}_{-0.0029}$	$\sigma_8(0.61)$	$0.43^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.12}_{-0.12}$	z_{eq}	3880^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.216^{+0.11}_{-0.078}$
z_{re}	$8.28^{+0.86}_{-0.91}$	k_{eq}	$0.0119^{+0.0031}_{-0.0033}$	$\sigma_8(2.33)$	$0.217^{+0.12}_{-0.081}$
10^9A_{s}	$1.99^{+0.91}_{-0.64}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$12.3 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.78^{+0.82}_{-0.57}$	$100\theta_{\mathrm{s,eq}}$	$0.416^{+0.094}_{-0.067}$	χ^2_{prior}	$3.0 (\nu: 2.8)$

$\bar{\chi}^2_{\mathrm{eff}} = 15.30$; $R - 1 = 0.00207$

6.90 base_mnu_lensing_lenspriors_theta_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0012}$	D_{40}	1075^{+600}_{-400}	$H(0.15)$	61^{+20}_{-9}
$\Omega_{\mathrm{c}}h^2$	$0.146^{+0.042}_{-0.047}$	D_{220}	4920^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	805^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{810}	2311^{+1000}_{-800}	$H(0.38)$	76^{+10}_{-5}
Σm_{ν} [eV]	< 2.77	D_{1420}	756^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1819^{+300}_{-400}
$\ln(10^{10}A_{\mathrm{s}})$	$2.96^{+0.42}_{-0.33}$	D_{2000}	215^{+100}_{-70}	$H(0.51)$	$85.4^{+7.4}_{-2.7}$
n_{s}	$0.961^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2302^{+300}_{-400}
H_0	< 73.5	Y_{P}	$0.24531^{+0.00053}_{-0.00053}$	$H(0.61)$	$92.9^{+4.7}_{-2.4}$
Ω_{Λ}	$0.26^{+0.52}_{-0.68}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00053}_{-0.00053}$	$D_{\mathrm{M}}(0.61)$	2639^{+300}_{-500}
Ω_{m}	$0.74^{+0.68}_{-0.52}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$H(2.33)$	260^{+30}_{-40}
$\Omega_{\mathrm{m}}h^2$	$0.181^{+0.052}_{-0.058}$	Age/Gyr	$14.24^{+0.40}_{-0.56}$	$D_{\mathrm{M}}(2.33)$	5934^{+150}_{-240}
$\Omega_{\nu}h^2$	< 0.0298	z_{*}	$1092.7^{+4.3}_{-4.8}$	$f\sigma_8(0.15)$	$0.487^{+0.050}_{-0.091}$
$\Omega_{\mathrm{m}}h^3$	$0.0933^{+0.0056}_{-0.0054}$	r_{*}	$138^{+12}_{-9.8}$	$\sigma_8(0.15)$	$0.58^{+0.21}_{-0.16}$
σ_8	$0.65^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.441^{+0.058}_{-0.070}$
S_8	$0.96^{+0.20}_{-0.26}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.2^{+1.2}_{-0.94}$	$\sigma_8(0.38)$	$0.50^{+0.21}_{-0.16}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.53^{+0.11}_{-0.14}$	z_{drag}	$1061.7^{+4.7}_{-5.1}$	$f\sigma_8(0.51)$	$0.417^{+0.073}_{-0.083}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.580^{+0.054}_{-0.054}$	r_{drag}	140^{+13}_{-10}	$\sigma_8(0.51)$	$0.46^{+0.21}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.89^{+0.13}_{-0.12}$	k_{D}	$0.149^{+0.012}_{-0.015}$	$f\sigma_8(0.61)$	$0.400^{+0.083}_{-0.089}$
$r_{\mathrm{drag}}h$	75^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0027}_{-0.0026}$	$\sigma_8(0.61)$	$0.43^{+0.20}_{-0.14}$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.13}_{-0.13}$	z_{eq}	4017^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.219^{+0.11}_{-0.076}$
z_{re}	$8.35^{+0.82}_{-0.95}$	k_{eq}	$0.0123^{+0.0031}_{-0.0035}$	$\sigma_8(2.33)$	$0.219^{+0.12}_{-0.079}$
10^9A_{s}	$1.95^{+0.91}_{-0.61}$	$100\theta_{\mathrm{eq}}$	$0.73^{+0.18}_{-0.12}$	$\chi^2_{\mathrm{lensing}}$	$10.2 (\nu: 1.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.75^{+0.81}_{-0.55}$	$100\theta_{\mathrm{s,eq}}$	$0.406^{+0.094}_{-0.066}$	χ^2_{prior}	$3.0 (\nu: 2.8)$

$\bar{\chi}^2_{\mathrm{eff}} = 13.20$; $R - 1 = 0.00228$

6.91 base_mnu_lensing_lenspriors_theta_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1110^{+700}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.142^{+0.043}_{-0.046}$	D_{220}	5116^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	797^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	D_{810}	2381^{+1000}_{-900}	$H(0.38)$	76^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.86	D_{1420}	777^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1806^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$2.98^{+0.43}_{-0.35}$	D_{2000}	221^{+100}_{-80}	$H(0.51)$	$85.4^{+7.8}_{-2.9}$
n_{s}	$0.961^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2289^{+300}_{-400}
H_0	< 74.5	Y_{P}	$0.24532^{+0.00054}_{-0.00054}$	$H(0.61)$	$92.7^{+5.1}_{-2.5}$
Ω_{Λ}	$0.29^{+0.52}_{-0.71}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2626^{+300}_{-500}
Ω_{m}	$0.71^{+0.70}_{-0.52}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	258^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.178^{+0.054}_{-0.057}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.25^{+0.42}_{-0.59}$	$D_{\mathrm{M}}(2.33)$	5940^{+160}_{-250}
$\Omega_{\nu} h^2$	< 0.0308	z_{*}	$1092.5^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	$0.476^{+0.049}_{-0.088}$
$\Omega_{\mathrm{m}} h^3$	$0.0927^{+0.0057}_{-0.0053}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.58^{+0.21}_{-0.17}$
σ_8	$0.65^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.435^{+0.057}_{-0.070}$
S_8	$0.93^{+0.20}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-0.98}$	$\sigma_8(0.38)$	$0.50^{+0.21}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.13}$	z_{drag}	$1061.5^{+4.9}_{-5.1}$	$f\sigma_8(0.51)$	$0.413^{+0.072}_{-0.084}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.570^{+0.055}_{-0.054}$	r_{drag}	141^{+13}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.21}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.88^{+0.13}_{-0.12}$	k_{D}	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.397^{+0.082}_{-0.090}$
$r_{\mathrm{drag}} h$	76^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0027}_{-0.0027}$	$\sigma_8(0.61)$	$0.43^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.13}_{-0.13}$	z_{eq}	3928^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.219^{+0.11}_{-0.079}$
z_{re}	$8.30^{+0.83}_{-0.92}$	k_{eq}	$0.0120^{+0.0032}_{-0.0034}$	$\sigma_8(2.33)$	$0.220^{+0.12}_{-0.083}$
$10^9 A_{\mathrm{s}}$	$2.00^{+0.95}_{-0.66}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$9.8 (\nu: 2.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.79^{+0.85}_{-0.59}$	$100\theta_{\mathrm{s,eq}}$	$0.412^{+0.095}_{-0.069}$	χ^2_{prior}	$3.0 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.75; R - 1 = 0.00245$

6.92 base_mnu_lensing_lenspriors_theta_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1149^{+700}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.139^{+0.042}_{-0.044}$	D_{220}	5334^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	793^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	D_{810}	2458^{+1000}_{-900}	$H(0.38)$	77^{+10}_{-5}
Σm_{ν} [eV]	< 2.91	D_{1420}	801^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1800^{+300}_{-400}
$\ln(10^{10}A_{\mathrm{s}})$	$3.01^{+0.43}_{-0.35}$	D_{2000}	227^{+100}_{-80}	$H(0.51)$	$85.4^{+7.9}_{-3.2}$
n_{s}	$0.960^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2283^{+300}_{-500}
H_0	< 75.5	Y_{P}	$0.24532^{+0.00056}_{-0.00055}$	$H(0.61)$	$92.6^{+5.6}_{-2.5}$
Ω_{Λ}	$0.30^{+0.52}_{-0.71}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00056}_{-0.00056}$	$D_{\mathrm{M}}(0.61)$	2621^{+300}_{-500}
Ω_{m}	$0.70^{+0.70}_{-0.52}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	256^{+30}_{-40}
$\Omega_{\mathrm{m}}h^2$	$0.176^{+0.055}_{-0.058}$	Age/Gyr	$14.28^{+0.40}_{-0.62}$	$D_{\mathrm{M}}(2.33)$	5949^{+150}_{-270}
$\Omega_{\nu}h^2$	< 0.0313	z_{*}	$1092.2^{+4.4}_{-4.6}$	$f\sigma_8(0.15)$	$0.464^{+0.043}_{-0.082}$
$\Omega_{\mathrm{m}}h^3$	$0.0920^{+0.0051}_{-0.0047}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.22}_{-0.16}$
σ_8	$0.64^{+0.21}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0015}_{-0.0016}$	$f\sigma_8(0.38)$	$0.426^{+0.052}_{-0.062}$
S_8	$0.91^{+0.20}_{-0.23}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.4^{+1.2}_{-1.0}$	$\sigma_8(0.38)$	$0.49^{+0.22}_{-0.16}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.50^{+0.11}_{-0.13}$	z_{drag}	$1061.3^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	$0.406^{+0.068}_{-0.077}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.558^{+0.048}_{-0.042}$	r_{drag}	142^{+13}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.22}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.87^{+0.12}_{-0.11}$	k_{D}	$0.147^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.390^{+0.080}_{-0.086}$
$r_{\mathrm{drag}}h$	77^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0028}_{-0.0028}$	$\sigma_8(0.61)$	$0.43^{+0.21}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.13}_{-0.13}$	z_{eq}	3847^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.218^{+0.11}_{-0.079}$
z_{re}	$8.26^{+0.84}_{-0.91}$	k_{eq}	$0.0118^{+0.0031}_{-0.0032}$	$\sigma_8(2.33)$	$0.219^{+0.13}_{-0.083}$
10^9A_{s}	$2.06^{+0.97}_{-0.67}$	$100\theta_{\mathrm{eq}}$	$0.76^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$12.2 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.84^{+0.87}_{-0.60}$	$100\theta_{\mathrm{s,eq}}$	$0.419^{+0.095}_{-0.068}$	χ^2_{prior}	$3.0 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 15.21$; $R - 1 = 0.00402$

6.93 base_mnu_lensing_lenspriors_theta_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1113^{+700}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.141^{+0.043}_{-0.045}$	D_{220}	5145^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	797^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2387^{+1000}_{-900}	$H(0.38)$	76^{+10}_{-5}
Σm_{ν} [eV]	< 2.93	D_{1420}	779^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1808^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$2.98^{+0.42}_{-0.34}$	D_{2000}	221^{+100}_{-80}	$H(0.51)$	$85.4^{+7.5}_{-3.2}$
n_{s}	$0.961^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2291^{+300}_{-400}
H_0	< 74.7	Y_{P}	$0.24532^{+0.00056}_{-0.00055}$	$H(0.61)$	$92.7^{+5.4}_{-2.4}$
Ω_{Λ}	$0.29^{+0.52}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00055}$	$D_{\mathrm{M}}(0.61)$	2629^{+300}_{-500}
Ω_{m}	$0.71^{+0.70}_{-0.52}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	258^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.178^{+0.053}_{-0.058}$	Age/Gyr	$14.27^{+0.43}_{-0.60}$	$D_{\mathrm{M}}(2.33)$	5945^{+160}_{-260}
$\Omega_{\nu} h^2$	< 0.0315	z_{*}	$1092.4^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	$0.472^{+0.051}_{-0.088}$
$\Omega_{\mathrm{m}} h^3$	$0.0925^{+0.0058}_{-0.0054}$	r_{*}	139^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.22}_{-0.17}$
σ_8	$0.64^{+0.21}_{-0.17}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.432^{+0.060}_{-0.072}$
S_8	$0.92^{+0.19}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-0.97}$	$\sigma_8(0.38)$	$0.49^{+0.22}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.13}$	z_{drag}	$1061.4^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	$0.410^{+0.075}_{-0.086}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.565^{+0.059}_{-0.059}$	r_{drag}	141^{+13}_{-10}	$\sigma_8(0.51)$	$0.46^{+0.21}_{-0.16}$
$\sigma_8/h^{0.5}$	$0.87^{+0.13}_{-0.12}$	k_{D}	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.394^{+0.085}_{-0.093}$
$r_{\mathrm{drag}} h$	76^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0028}_{-0.0028}$	$\sigma_8(0.61)$	$0.43^{+0.21}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.13}_{-0.13}$	z_{eq}	3907^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.218^{+0.11}_{-0.080}$
z_{re}	$8.29^{+0.84}_{-0.92}$	k_{eq}	$0.0120^{+0.0031}_{-0.0034}$	$\sigma_8(2.33)$	$0.218^{+0.12}_{-0.083}$
$10^9 A_{\mathrm{s}}$	$2.00^{+0.94}_{-0.65}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$9.7 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.79^{+0.84}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	$0.414^{+0.095}_{-0.067}$	χ^2_{prior}	$3.0 (\nu: 2.9)$

$\bar{\chi}^2_{\mathrm{eff}} = 12.69$; $R - 1 = 0.00149$

6.94 base_mnu_lensing_lenspriors_theta_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	1160^{+700}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.137^{+0.041}_{-0.043}$	D_{220}	5400^{+4000}_{-2000}	$D_{\mathrm{M}}(0.15)$	791^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{810}	2476^{+1000}_{-900}	$H(0.38)$	77^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.99	D_{1420}	806^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1797^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$3.01^{+0.42}_{-0.35}$	D_{2000}	228^{+100}_{-80}	$H(0.51)$	$85.4^{+8.0}_{-3.3}$
n_{s}	$0.960^{+0.050}_{-0.049}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.050}_{-0.049}$	$D_{\mathrm{M}}(0.51)$	2280^{+300}_{-500}
H_0	< 75.8	Y_{P}	$0.24531^{+0.00056}_{-0.00057}$	$H(0.61)$	$92.6^{+5.9}_{-2.5}$
Ω_{Λ}	$0.31^{+0.51}_{-0.71}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00056}_{-0.00057}$	$D_{\mathrm{M}}(0.61)$	2617^{+300}_{-500}
Ω_{m}	$0.69^{+0.71}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$H(2.33)$	256^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.174^{+0.055}_{-0.057}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.28^{+0.42}_{-0.63}$	$D_{\mathrm{M}}(2.33)$	5953^{+150}_{-280}
$\Omega_{\nu} h^2$	< 0.0322	z_{*}	$1092.1^{+4.5}_{-4.6}$	$f\sigma_8(0.15)$	$0.459^{+0.044}_{-0.080}$
$\Omega_{\mathrm{m}} h^3$	$0.0917^{+0.0052}_{-0.0050}$	r_{*}	140^{+12}_{-10}	$\sigma_8(0.15)$	$0.57^{+0.22}_{-0.17}$
σ_8	$0.63^{+0.21}_{-0.17}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0015}$	$f\sigma_8(0.38)$	$0.423^{+0.054}_{-0.065}$
S_8	$0.89^{+0.18}_{-0.22}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.4^{+1.2}_{-1.0}$	$\sigma_8(0.38)$	$0.49^{+0.22}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.49^{+0.10}_{-0.12}$	z_{drag}	$1061.2^{+5.1}_{-5.1}$	$f\sigma_8(0.51)$	$0.403^{+0.070}_{-0.080}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.553^{+0.052}_{-0.047}$	r_{drag}	142^{+13}_{-11}	$\sigma_8(0.51)$	$0.46^{+0.22}_{-0.16}$
$\sigma_8/h^{0.5}$	$0.86^{+0.13}_{-0.12}$	k_{D}	$0.147^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.388^{+0.082}_{-0.088}$
$r_{\mathrm{drag}} h$	78^{+40}_{-30}	$100\theta_{\mathrm{D}}$	$0.1601^{+0.0029}_{-0.0029}$	$\sigma_8(0.61)$	$0.43^{+0.21}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.13}_{-0.13}$	z_{eq}	3809^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.218^{+0.11}_{-0.082}$
z_{re}	$8.24^{+0.87}_{-0.90}$	k_{eq}	$0.0117^{+0.0030}_{-0.0032}$	$\sigma_8(2.33)$	$0.218^{+0.13}_{-0.086}$
$10^9 A_{\mathrm{s}}$	$2.07^{+0.96}_{-0.68}$	$100\theta_{\mathrm{eq}}$	$0.76^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$12.2 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.85^{+0.86}_{-0.61}$	$100\theta_{\mathrm{s,eq}}$	$0.422^{+0.095}_{-0.068}$	χ^2_{prior}	$3.0 (\nu: 2.8)$

$\bar{\chi}^2_{\mathrm{eff}} = 15.21$; $R - 1 = 0.00352$

6.95 base_mnu_lensing_lenspriors_theta_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0012}$	D_{40}	1087^{+600}_{-400}	$H(0.15)$	62^{+20}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.144^{+0.044}_{-0.046}$	D_{220}	4995^{+3000}_{-2000}	$D_{\mathrm{M}}(0.15)$	798^{+200}_{-200}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{810}	2331^{+1000}_{-800}	$H(0.38)$	76^{+10}_{-5}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 2.78	D_{1420}	761^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1808^{+300}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$2.96^{+0.41}_{-0.35}$	D_{2000}	216^{+100}_{-70}	$H(0.51)$	$85.4^{+7.5}_{-2.8}$
n_{s}	$0.961^{+0.050}_{-0.050}$	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.050}$	$D_{\mathrm{M}}(0.51)$	2291^{+300}_{-400}
H_0	< 73.7	Y_{P}	$0.24532^{+0.00055}_{-0.00053}$	$H(0.61)$	$92.8^{+4.9}_{-2.4}$
Ω_{Λ}	$0.29^{+0.50}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00055}_{-0.00054}$	$D_{\mathrm{M}}(0.61)$	2628^{+300}_{-500}
Ω_{m}	$0.71^{+0.70}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	259^{+30}_{-40}
$\Omega_{\mathrm{m}} h^2$	$0.179^{+0.053}_{-0.056}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.24^{+0.41}_{-0.56}$	$D_{\mathrm{M}}(2.33)$	5936^{+150}_{-240}
$\Omega_{\nu} h^2$	< 0.0299	z_{*}	$1092.6^{+4.3}_{-4.7}$	$f\sigma_8(0.15)$	$0.479^{+0.049}_{-0.087}$
$\Omega_{\mathrm{m}} h^3$	$0.0931^{+0.0056}_{-0.0053}$	r_{*}	138^{+12}_{-10}	$\sigma_8(0.15)$	$0.58^{+0.21}_{-0.17}$
σ_8	$0.65^{+0.20}_{-0.16}$	$100\theta_{*}$	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.38)$	$0.437^{+0.056}_{-0.069}$
S_8	$0.94^{+0.20}_{-0.24}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.3^{+1.2}_{-0.97}$	$\sigma_8(0.38)$	$0.50^{+0.21}_{-0.16}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.51^{+0.11}_{-0.13}$	z_{drag}	$1061.5^{+4.9}_{-5.0}$	$f\sigma_8(0.51)$	$0.415^{+0.071}_{-0.084}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.573^{+0.054}_{-0.051}$	r_{drag}	141^{+12}_{-10}	$\sigma_8(0.51)$	$0.46^{+0.20}_{-0.15}$
$\sigma_8/h^{0.5}$	$0.88^{+0.12}_{-0.11}$	k_{D}	$0.148^{+0.013}_{-0.014}$	$f\sigma_8(0.61)$	$0.398^{+0.081}_{-0.091}$
$r_{\mathrm{drag}} h$	76^{+40}_{-20}	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0027}_{-0.0027}$	$\sigma_8(0.61)$	$0.43^{+0.20}_{-0.15}$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.13}_{-0.12}$	z_{eq}	3961^{+1000}_{-1000}	$f\sigma_8(2.33)$	$0.219^{+0.11}_{-0.078}$
z_{re}	$8.31^{+0.84}_{-0.92}$	k_{eq}	$0.0121^{+0.0032}_{-0.0034}$	$\sigma_8(2.33)$	$0.219^{+0.12}_{-0.081}$
$10^9 A_{\mathrm{s}}$	$1.96^{+0.90}_{-0.63}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.18}_{-0.13}$	$\chi^2_{\mathrm{lensing}}$	$8.5 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.76^{+0.81}_{-0.57}$	$100\theta_{\mathrm{s,eq}}$	$0.410^{+0.093}_{-0.067}$	χ^2_{prior}	$3.0 (\nu: 2.8)$

$\bar{\chi}^2_{\mathrm{eff}} = 11.51$; $R - 1 = 0.00127$

6.96 base_mnu_lensing_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2656	2165^{+1000}_{-1000}	$H(0.51)$	93.4	99^{+10}_{-10}
$\Omega_c h^2$	0.133	$0.157^{+0.068}_{-0.053}$	D_{1420}	829	629^{+400}_{-400}	$D_M(0.51)$	1926	1850^{+180}_{-190}
$100\theta_{MC}$	1.076	$1.109^{+0.076}_{-0.085}$	D_{2000}	240	182^{+100}_{-100}	$H(0.61)$	99.6	106^{+20}_{-10}
Σm_ν [eV]	0.83	< 4.36	$n_{s,0.002}$	0.962	$0.960^{+0.052}_{-0.052}$	$D_M(0.61)$	2237	2144^{+220}_{-230}
$\ln(10^{10} A_s)$	3.127	$3.03^{+0.28}_{-0.29}$	Y_P	0.24531	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	252	274^{+60}_{-50}
n_s	0.962	$0.960^{+0.052}_{-0.052}$	Y_P^{BBN}	0.24664	$0.24665^{+0.00055}_{-0.00056}$	$D_M(2.33)$	5501	5193^{+800}_{-700}
H_0	68.7	$70.6^{+5.8}_{-4.5}$	$10^5 D/H$	2.625	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	0.4545	$0.457^{+0.046}_{-0.046}$
Ω_Λ	0.653	$0.61^{+0.11}_{-0.12}$	Age/Gyr	13.16	$12.4^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	0.699	$0.669^{+0.097}_{-0.098}$
Ω_m	0.347	$0.39^{+0.12}_{-0.11}$	z_*	1091.5	$1093.8^{+6.5}_{-5.4}$	$f\sigma_8(0.38)$	0.4653	$0.459^{+0.044}_{-0.047}$
$\Omega_m h^2$	0.164	$0.196^{+0.093}_{-0.068}$	r_*	141.1	135^{+14}_{-14}	$\sigma_8(0.38)$	0.617	$0.587^{+0.092}_{-0.092}$
$\Omega_\nu h^2$	0.0089	< 0.0468	$100\theta_*$	1.077	$1.110^{+0.076}_{-0.085}$	$f\sigma_8(0.51)$	0.4607	$0.450^{+0.045}_{-0.051}$
$\Omega_m h^3$	0.113	$0.139^{+0.077}_{-0.057}$	$D_M(z_*)/\text{Gpc}$	13.10	$12.2^{+2.3}_{-2.0}$	$\sigma_8(0.51)$	0.577	$0.548^{+0.088}_{-0.088}$
σ_8	0.759	$0.730^{+0.099}_{-0.10}$	z_{drag}	1060.5	$1062.6^{+6.0}_{-5.3}$	$f\sigma_8(0.61)$	0.454	$0.441^{+0.047}_{-0.054}$
S_8	0.817	$0.830^{+0.093}_{-0.090}$	r_{drag}	143.7	138^{+14}_{-15}	$\sigma_8(0.61)$	0.549	$0.520^{+0.085}_{-0.085}$
$\sigma_8 \Omega_m^{0.5}$	0.447	$0.454^{+0.051}_{-0.049}$	k_D	0.1446	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	0.2828	$0.267^{+0.040}_{-0.046}$
$\sigma_8 \Omega_m^{0.25}$	0.583	$0.576^{+0.058}_{-0.059}$	$100\theta_D$	0.1659	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	0.2859	$0.269^{+0.047}_{-0.048}$
$\sigma_8/h^{0.5}$	0.916	$0.87^{+0.13}_{-0.13}$	z_{eq}	3703	4271^{+2000}_{-1000}	χ^2_{lensing}	7.5	9.96 (ν : 2.2)
$r_{\text{drag}} h$	98.72	$97.2^{+5.0}_{-4.8}$	k_{eq}	0.01132	$0.0131^{+0.0051}_{-0.0039}$	$\chi^2_{6\text{DF}}$	0.09	0.40 (ν : 0.1)
$\langle d^2 \rangle^{1/2}$	2.526	$2.50^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.791	$0.75^{+0.13}_{-0.11}$	χ^2_{MGS}	0.98	0.71 (ν : 0.2)
z_{re}	8.17	$8.7^{+1.3}_{-1.2}$	$100\theta_{s,\text{eq}}$	0.439	$0.415^{+0.068}_{-0.059}$	χ^2_{DR12BAO}	2.28	3.7 (ν : 1.3)
$10^9 A_s$	2.28	$2.08^{+0.66}_{-0.54}$	$H(0.15)$	74.7	$77.5^{+8.1}_{-6.3}$	χ^2_{prior}	0.01	2.0 (ν : 2.0)
$10^9 A_s e^{-2\tau}$	2.04	$1.87^{+0.59}_{-0.48}$	$D_M(0.15)$	628.6	609^{+47}_{-53}	χ^2_{BAO}	3.35	4.9 (ν : 1.6)
D_{40}	1310	1160^{+500}_{-400}	$H(0.38)$	86.0	90^{+10}_{-10}			
D_{220}	5922	5016^{+3000}_{-2000}	$D_M(0.38)$	1491	1436^{+130}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 10.86$; $\bar{\chi}^2_{\text{eff}} = 16.83$; $R - 1 = 0.00375$

χ^2_{eff} : BAO - 6DF: 0.09 MGS: 0.98 DR12BAO: 2.28 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.50

6.97 base_mnu_lensing_lenspriors_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02230	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2802	2828^{+700}_{-700}	$H(0.51)$	90.3	$90.9^{+6.6}_{-5.4}$
$\Omega_c h^2$	0.1184	$0.120^{+0.028}_{-0.023}$	D_{1420}	895	896^{+200}_{-300}	$D_M(0.51)$	1969	1962^{+88}_{-110}
$100\theta_{MC}$	1.0485	$1.054^{+0.047}_{-0.038}$	D_{2000}	253	255^{+70}_{-70}	$H(0.61)$	95.9	$96.6^{+7.4}_{-6.0}$
Σm_ν [eV]	0.33	< 1.34	$n_{s,0.002}$	0.958	$0.961^{+0.049}_{-0.050}$	$D_M(0.61)$	2291	2282^{+110}_{-140}
$\ln(10^{10} A_s)$	3.143	$3.16^{+0.20}_{-0.24}$	Y_P	0.24537	$0.24532^{+0.00053}_{-0.00054}$	$H(2.33)$	237.6	240^{+25}_{-21}
n_s	0.958	$0.961^{+0.049}_{-0.050}$	Y_P^{BBN}	0.24669	$0.24665^{+0.00054}_{-0.00054}$	$D_M(2.33)$	5726	5688^{+350}_{-440}
H_0	68.01	$68.1^{+3.4}_{-2.7}$	$10^5 D/H$	2.599	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	0.4480	$0.446^{+0.041}_{-0.042}$
Ω_Λ	0.6881	$0.682^{+0.041}_{-0.052}$	Age/Gyr	13.71	$13.62^{+0.85}_{-1.1}$	$\sigma_8(0.15)$	0.729	$0.718^{+0.061}_{-0.078}$
Ω_m	0.3119	$0.318^{+0.052}_{-0.041}$	z_*	1089.91	$1090.3^{+3.1}_{-2.5}$	$f\sigma_8(0.38)$	0.4665	$0.463^{+0.039}_{-0.041}$
$\Omega_m h^2$	0.1442	$0.148^{+0.034}_{-0.027}$	r_*	144.9	$144.3^{+5.8}_{-7.5}$	$\sigma_8(0.38)$	0.647	$0.636^{+0.055}_{-0.070}$
$\Omega_\nu h^2$	0.0036	< 0.0144	$100\theta_*$	1.0488	$1.055^{+0.048}_{-0.039}$	$f\sigma_8(0.51)$	0.4654	$0.461^{+0.037}_{-0.040}$
$\Omega_m h^3$	0.0981	$0.101^{+0.028}_{-0.021}$	$D_M(z_*)/\text{Gpc}$	13.81	$13.7^{+1.0}_{-1.3}$	$\sigma_8(0.51)$	0.606	$0.596^{+0.052}_{-0.066}$
σ_8	0.788	$0.777^{+0.067}_{-0.082}$	z_{drag}	1059.70	$1059.7^{+3.7}_{-3.4}$	$f\sigma_8(0.61)$	0.4607	$0.456^{+0.036}_{-0.040}$
S_8	0.804	$0.799^{+0.081}_{-0.081}$	r_{drag}	147.5	$147.0^{+6.5}_{-7.5}$	$\sigma_8(0.61)$	0.577	$0.567^{+0.049}_{-0.063}$
$\sigma_8 \Omega_m^{0.5}$	0.4403	$0.438^{+0.044}_{-0.045}$	k_D	0.1404	$0.1410^{+0.0087}_{-0.0071}$	$f\sigma_8(2.33)$	0.2948	$0.291^{+0.022}_{-0.029}$
$\sigma_8 \Omega_m^{0.25}$	0.589	$0.583^{+0.053}_{-0.055}$	$100\theta_D$	0.1620	$0.1629^{+0.0065}_{-0.0055}$	$\sigma_8(2.33)$	0.3017	$0.297^{+0.025}_{-0.033}$
$\sigma_8/h^{0.5}$	0.956	$0.941^{+0.079}_{-0.10}$	z_{eq}	3361	3411^{+700}_{-600}	χ^2_{lensing}	7.54	9.4 (ν : 2.0)
$r_{\text{drag}} h$	100.34	$100.2^{+2.9}_{-2.8}$	k_{eq}	0.01026	$0.0104^{+0.0021}_{-0.0017}$	χ^2_{JLA}	1035.08	1036.1 (ν : 1.6)
$\langle d^2 \rangle^{1/2}$	2.511	$2.52^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.827	$0.825^{+0.072}_{-0.080}$	$\chi^2_{6\text{DF}}$	0.000	0.052 (ν : 0.0)
z_{re}	7.79	$7.88^{+0.66}_{-0.56}$	$100\theta_{s,\text{eq}}$	0.4567	$0.456^{+0.036}_{-0.041}$	χ^2_{MGS}	1.68	1.69 (ν : 0.2)
$10^9 A_s$	2.32	$2.36^{+0.50}_{-0.51}$	$H(0.15)$	73.32	$73.6^{+4.2}_{-3.1}$	χ^2_{DR12BAO}	3.01	3.8 (ν : 1.0)
$10^9 A_s e^{-2\tau}$	2.077	$2.12^{+0.45}_{-0.45}$	$D_M(0.15)$	637.5	636^{+26}_{-32}	χ^2_{prior}	0.04	1.9 (ν : 1.8)
D_{40}	1384	1394^{+300}_{-300}	$H(0.38)$	83.5	$84.0^{+5.6}_{-4.5}$	χ^2_{BAO}	4.69	5.5 (ν : 1.3)
D_{220}	6407	6477^{+2000}_{-2000}	$D_M(0.38)$	1520	1515^{+66}_{-84}			

Best-fit $\chi^2_{\text{eff}} = 1047.35$; $\bar{\chi}^2_{\text{eff}} = 1053.01$; $R - 1 = 0.03389$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.01 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.54 SN - JLA Pantheon18: 1035.08

6.98 base_mnu_lensing_lenspriors_BAO_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2193^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.155^{+0.068}_{-0.053}$	D_{1420}	636^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1852^{+180}_{-200}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.076}_{-0.088}$	D_{2000}	184^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.35	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2147^{+220}_{-240}
$\ln(10^{10} A_{\mathrm{s}})$	$3.04^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.959^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5199^{+800}_{-700}
H_0	$70.5^{+5.9}_{-4.5}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.448^{+0.037}_{-0.038}$
Ω_{Λ}	$0.61^{+0.11}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.655^{+0.091}_{-0.080}$
Ω_{m}	$0.39^{+0.12}_{-0.11}$	z_{*}	$1093.7^{+6.6}_{-5.6}$	$f\sigma_8(0.38)$	$0.450^{+0.034}_{-0.036}$
$\Omega_{\mathrm{m}} h^2$	$0.196^{+0.093}_{-0.070}$	r_{*}	136^{+14}_{-15}	$\sigma_8(0.38)$	$0.575^{+0.088}_{-0.076}$
$\Omega_{\nu} h^2$	< 0.0468	$100\theta_{*}$	$1.111^{+0.076}_{-0.089}$	$f\sigma_8(0.51)$	$0.441^{+0.037}_{-0.039}$
$\Omega_{\mathrm{m}} h^3$	$0.139^{+0.079}_{-0.059}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.4}_{-2.0}$	$\sigma_8(0.51)$	$0.536^{+0.085}_{-0.073}$
σ_8	$0.715^{+0.092}_{-0.080}$	z_{drag}	$1062.5^{+6.1}_{-5.5}$	$f\sigma_8(0.61)$	$0.432^{+0.039}_{-0.042}$
S_8	$0.813^{+0.080}_{-0.081}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.509^{+0.082}_{-0.071}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.044}_{-0.044}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.262^{+0.039}_{-0.039}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.564^{+0.045}_{-0.044}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.012}$	$\sigma_8(2.33)$	$0.263^{+0.047}_{-0.041}$
$\sigma_8/h^{0.5}$	$0.85^{+0.13}_{-0.11}$	z_{eq}	4237^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$12.3 (\nu: 2.1)$
$r_{\mathrm{drag}} h$	$97.2^{+5.1}_{-4.8}$	k_{eq}	$0.0130^{+0.0051}_{-0.0039}$	$\chi^2_{6\mathrm{DF}}$	$0.41 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.14}_{-0.12}$	χ^2_{MGS}	$0.71 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.418^{+0.069}_{-0.061}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.3)$
$10^9 A_{\mathrm{s}}$	$2.11^{+0.65}_{-0.56}$	$H(0.15)$	$77.4^{+8.2}_{-6.3}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.89^{+0.59}_{-0.50}$	$D_{\mathrm{M}}(0.15)$	610^{+47}_{-54}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1177^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	5112^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1438^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 19.21$; $R - 1 = 0.00433$

6.99 base_mnu_lensing_lenspriors_BAO_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2202^{+1000}_{-1000}	$H(0.51)$	99^{+20}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.155^{+0.072}_{-0.052}$	D_{1420}	642^{+500}_{-400}	$D_{\mathrm{M}}(0.51)$	1853^{+180}_{-200}
$100\theta_{\mathrm{MC}}$	$1.108^{+0.078}_{-0.083}$	D_{2000}	186^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
Σm_{ν} [eV]	< 4.30	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2148^{+220}_{-240}
$\ln(10^{10}A_{\mathrm{s}})$	$3.04^{+0.30}_{-0.35}$	Y_{P}	$0.24532^{+0.00055}_{-0.00056}$	$H(2.33)$	273^{+60}_{-50}
n_{s}	$0.959^{+0.052}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5206^{+800}_{-700}
H_0	$70.5^{+6.2}_{-4.4}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.456^{+0.054}_{-0.051}$
Ω_{Λ}	$0.61^{+0.10}_{-0.12}$	Age/Gyr	$12.5^{+1.8}_{-1.8}$	$\sigma_8(0.15)$	$0.668^{+0.10}_{-0.097}$
Ω_{m}	$0.39^{+0.12}_{-0.10}$	z_{*}	$1093.7^{+6.6}_{-5.3}$	$f\sigma_8(0.38)$	$0.458^{+0.050}_{-0.050}$
$\Omega_{\mathrm{m}}h^2$	$0.195^{+0.095}_{-0.067}$	r_{*}	136^{+13}_{-15}	$\sigma_8(0.38)$	$0.587^{+0.093}_{-0.091}$
$\Omega_{\nu}h^2$	< 0.0462	$100\theta_{*}$	$1.109^{+0.078}_{-0.083}$	$f\sigma_8(0.51)$	$0.450^{+0.050}_{-0.054}$
$\Omega_{\mathrm{m}}h^3$	$0.138^{+0.080}_{-0.056}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.3^{+2.2}_{-2.1}$	$\sigma_8(0.51)$	$0.547^{+0.090}_{-0.087}$
σ_8	$0.73^{+0.10}_{-0.10}$	z_{drag}	$1062.5^{+6.2}_{-5.3}$	$f\sigma_8(0.61)$	$0.441^{+0.051}_{-0.056}$
S_8	$0.83^{+0.11}_{-0.10}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.520^{+0.086}_{-0.084}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.060}_{-0.056}$	k_{D}	$0.151^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.267^{+0.040}_{-0.046}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.574^{+0.067}_{-0.063}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.269^{+0.047}_{-0.048}$
$\sigma_8/h^{0.5}$	$0.87^{+0.13}_{-0.13}$	z_{eq}	4245^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$9.96 (\nu: 2.4)$
$r_{\mathrm{drag}}h$	$97.3^{+5.0}_{-4.9}$	k_{eq}	$0.0130^{+0.0053}_{-0.0038}$	$\chi^2_{6\mathrm{DF}}$	$0.39 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.19}_{-0.18}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.13}_{-0.12}$	χ^2_{MGS}	$0.73 (\nu: 0.2)$
z_{re}	$8.6^{+1.4}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.417^{+0.069}_{-0.065}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.7 (\nu: 1.3)$
10^9A_{s}	$2.10^{+0.72}_{-0.63}$	$H(0.15)$	$77.4^{+8.4}_{-6.2}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.89^{+0.64}_{-0.56}$	$D_{\mathrm{M}}(0.15)$	610^{+46}_{-55}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1176^{+500}_{-400}	$H(0.38)$	90^{+10}_{-9}		
D_{220}	5103^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1439^{+130}_{-150}		

$\bar{\chi}^2_{\mathrm{eff}} = 16.84; R - 1 = 0.00475$

6.100 base_mnu_lensing_lenspriors_BAO_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2177^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.156^{+0.068}_{-0.051}$	D_{1420}	635^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1853^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.107^{+0.077}_{-0.081}$	D_{2000}	184^{+100}_{-100}	$H(0.61)$	105^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.17	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2149^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.03^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	273^{+60}_{-50}
n_{s}	$0.959^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00055}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5209^{+700}_{-700}
H_0	$70.6^{+5.8}_{-4.4}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.459^{+0.046}_{-0.045}$
Ω_{Λ}	$0.61^{+0.10}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.5^{+1.8}_{-1.8}$	$\sigma_8(0.15)$	$0.675^{+0.094}_{-0.097}$
Ω_{m}	$0.39^{+0.12}_{-0.10}$	z_{*}	$1093.7^{+6.5}_{-5.2}$	$f\sigma_8(0.38)$	$0.462^{+0.044}_{-0.046}$
$\Omega_{\mathrm{m}}h^2$	$0.194^{+0.093}_{-0.065}$	r_{*}	136^{+13}_{-14}	$\sigma_8(0.38)$	$0.592^{+0.089}_{-0.091}$
$\Omega_{\nu}h^2$	< 0.0448	$100\theta_{*}$	$1.108^{+0.077}_{-0.082}$	$f\sigma_8(0.51)$	$0.454^{+0.045}_{-0.050}$
$\Omega_{\mathrm{m}}h^3$	$0.138^{+0.077}_{-0.055}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.3^{+2.2}_{-2.0}$	$\sigma_8(0.51)$	$0.552^{+0.086}_{-0.088}$
σ_8	$0.736^{+0.098}_{-0.099}$	z_{drag}	$1062.5^{+6.1}_{-5.2}$	$f\sigma_8(0.61)$	$0.444^{+0.045}_{-0.053}$
S_8	$0.833^{+0.094}_{-0.090}$	r_{drag}	138^{+13}_{-15}	$\sigma_8(0.61)$	$0.525^{+0.083}_{-0.085}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.051}_{-0.049}$	k_{D}	$0.151^{+0.020}_{-0.015}$	$f\sigma_8(2.33)$	$0.269^{+0.038}_{-0.046}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.579^{+0.058}_{-0.057}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.271^{+0.045}_{-0.048}$
$\sigma_8/h^{0.5}$	$0.88^{+0.13}_{-0.13}$	z_{eq}	4251^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$7.7 (\nu: 2.3)$
$r_{\mathrm{drag}}h$	$97.3^{+4.9}_{-4.8}$	k_{eq}	$0.0130^{+0.0051}_{-0.0038}$	$\chi^2_{6\mathrm{DF}}$	$0.38 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.13}_{-0.11}$	χ^2_{MGS}	$0.74 (\nu: 0.2)$
z_{re}	$8.6^{+1.3}_{-1.1}$	$100\theta_{\mathrm{s,eq}}$	$0.415^{+0.067}_{-0.060}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.7 (\nu: 1.3)$
10^9A_{s}	$2.08^{+0.65}_{-0.54}$	$H(0.15)$	$77.4^{+8.0}_{-6.1}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.86^{+0.59}_{-0.49}$	$D_{\mathrm{M}}(0.15)$	610^{+45}_{-52}	χ^2_{BAO}	$4.8 (\nu: 1.5)$
D_{40}	1162^{+500}_{-400}	$H(0.38)$	90^{+10}_{-9}		
D_{220}	5028^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1438^{+130}_{-140}		
$\bar{\chi}^2_{\mathrm{eff}} = 14.55; R - 1 = 0.00373$					

6.101 base_mnu_lensing_lenspriors_BAO_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2111^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}} h^2$	$0.157^{+0.068}_{-0.054}$	D_{1420}	614^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1848^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.077}_{-0.085}$	D_{2000}	178^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.30	$n_{\mathrm{s},0.002}$	$0.960^{+0.053}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2142^{+220}_{-230}
$\ln(10^{10} A_{\mathrm{s}})$	$3.01^{+0.28}_{-0.29}$	Y_{P}	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.960^{+0.053}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00057}$	$D_{\mathrm{M}}(2.33)$	5189^{+800}_{-700}
H_0	$70.7^{+5.8}_{-4.5}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.455^{+0.047}_{-0.045}$
Ω_{Λ}	$0.61^{+0.11}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.9}_{-1.7}$	$\sigma_8(0.15)$	$0.666^{+0.096}_{-0.096}$
Ω_{m}	$0.39^{+0.12}_{-0.11}$	z_{*}	$1093.8^{+6.5}_{-5.4}$	$f\sigma_8(0.38)$	$0.457^{+0.045}_{-0.048}$
$\Omega_{\mathrm{m}} h^2$	$0.197^{+0.093}_{-0.069}$	r_{*}	135^{+14}_{-14}	$\sigma_8(0.38)$	$0.584^{+0.090}_{-0.090}$
$\Omega_{\nu} h^2$	< 0.0462	$100\theta_{*}$	$1.110^{+0.077}_{-0.085}$	$f\sigma_8(0.51)$	$0.448^{+0.046}_{-0.051}$
$\Omega_{\mathrm{m}} h^3$	$0.140^{+0.080}_{-0.054}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.3}_{-2.0}$	$\sigma_8(0.51)$	$0.545^{+0.086}_{-0.086}$
σ_8	$0.73^{+0.10}_{-0.10}$	z_{drag}	$1062.6^{+6.1}_{-5.4}$	$f\sigma_8(0.61)$	$0.439^{+0.047}_{-0.054}$
S_8	$0.826^{+0.096}_{-0.089}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.517^{+0.083}_{-0.083}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.053}_{-0.049}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.266^{+0.039}_{-0.045}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.573^{+0.059}_{-0.060}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.267^{+0.046}_{-0.048}$
$\sigma_8/h^{0.5}$	$0.86^{+0.13}_{-0.13}$	z_{eq}	4287^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$10.2 (\nu: 2.2)$
$r_{\mathrm{drag}} h$	$97.2^{+5.0}_{-4.8}$	k_{eq}	$0.0131^{+0.0051}_{-0.0040}$	$\chi^2_{6\mathrm{DF}}$	$0.40 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.14}_{-0.11}$	χ^2_{MGS}	$0.71 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.414^{+0.070}_{-0.060}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.7 (\nu: 1.3)$
$10^9 A_{\mathrm{s}}$	$2.03^{+0.65}_{-0.53}$	$H(0.15)$	$77.6^{+8.1}_{-6.3}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.82^{+0.58}_{-0.47}$	$D_{\mathrm{M}}(0.15)$	609^{+47}_{-53}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1132^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	4887^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1435^{+130}_{-140}		
$\bar{\chi}^2_{\mathrm{eff}} = 17.06; R - 1 = 0.00602$					

6.102 base_mnu_lensing_lenspriors_BAO_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2142^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.156^{+0.068}_{-0.054}$	D_{1420}	622^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1852^{+190}_{-200}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.077}_{-0.088}$	D_{2000}	180^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.29	$n_{\mathrm{s},0.002}$	$0.959^{+0.053}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2146^{+230}_{-240}
$\ln(10^{10}A_{\mathrm{s}})$	$3.02^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00057}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.959^{+0.053}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00058}$	$D_{\mathrm{M}}(2.33)$	5198^{+800}_{-700}
H_0	$70.6^{+5.8}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$f\sigma_8(0.15)$	$0.446^{+0.037}_{-0.039}$
Ω_{Λ}	$0.61^{+0.11}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.652^{+0.089}_{-0.080}$
Ω_{m}	$0.39^{+0.12}_{-0.11}$	z_{*}	$1093.7^{+6.6}_{-5.6}$	$f\sigma_8(0.38)$	$0.448^{+0.034}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.196^{+0.093}_{-0.070}$	r_{*}	136^{+14}_{-15}	$\sigma_8(0.38)$	$0.573^{+0.086}_{-0.076}$
$\Omega_{\nu}h^2$	< 0.0461	$100\theta_{*}$	$1.110^{+0.077}_{-0.088}$	$f\sigma_8(0.51)$	$0.440^{+0.036}_{-0.039}$
$\Omega_{\mathrm{m}}h^3$	$0.139^{+0.079}_{-0.060}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.4}_{-2.0}$	$\sigma_8(0.51)$	$0.534^{+0.083}_{-0.073}$
σ_8	$0.712^{+0.089}_{-0.080}$	z_{drag}	$1062.6^{+6.2}_{-5.5}$	$f\sigma_8(0.61)$	$0.431^{+0.039}_{-0.042}$
S_8	$0.810^{+0.080}_{-0.082}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.507^{+0.081}_{-0.071}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.044}_{-0.045}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.261^{+0.039}_{-0.039}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.562^{+0.045}_{-0.043}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.012}$	$\sigma_8(2.33)$	$0.262^{+0.046}_{-0.041}$
$\sigma_8/h^{0.5}$	$0.85^{+0.13}_{-0.11}$	z_{eq}	4248^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$12.5 (\nu: 2.1)$
$r_{\mathrm{drag}}h$	$97.2^{+5.1}_{-4.8}$	k_{eq}	$0.0130^{+0.0051}_{-0.0041}$	$\chi^2_{6\mathrm{DF}}$	$0.41 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.48^{+0.13}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.14}_{-0.12}$	χ^2_{MGS}	$0.72 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.417^{+0.071}_{-0.060}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.3)$
10^9A_{s}	$2.06^{+0.65}_{-0.54}$	$H(0.15)$	$77.4^{+8.2}_{-6.5}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.84^{+0.58}_{-0.49}$	$D_{\mathrm{M}}(0.15)$	610^{+47}_{-53}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1149^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	4987^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1438^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 19.44; R - 1 = 0.00654$

6.103 base_mnu_lensing_lenspriors_BAO_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2122^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.159^{+0.068}_{-0.053}$	D_{1420}	616^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1845^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.076}_{-0.083}$	D_{2000}	178^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.27	$n_{\mathrm{s},0.002}$	$0.960^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2138^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.01^{+0.28}_{-0.29}$	Y_{P}	$0.24532^{+0.00054}_{-0.00055}$	$H(2.33)$	275^{+60}_{-50}
n_{s}	$0.960^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5176^{+800}_{-700}
H_0	$70.8^{+5.7}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.465^{+0.050}_{-0.048}$
Ω_{Λ}	$0.61^{+0.10}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.8}_{-1.7}$	$\sigma_8(0.15)$	$0.680^{+0.096}_{-0.10}$
Ω_{m}	$0.39^{+0.12}_{-0.10}$	z_{*}	$1093.9^{+6.4}_{-5.3}$	$f\sigma_8(0.38)$	$0.467^{+0.046}_{-0.050}$
$\Omega_{\mathrm{m}}h^2$	$0.198^{+0.092}_{-0.068}$	r_{*}	135^{+13}_{-14}	$\sigma_8(0.38)$	$0.597^{+0.091}_{-0.096}$
$\Omega_{\nu}h^2$	< 0.0459	$100\theta_{*}$	$1.111^{+0.076}_{-0.083}$	$f\sigma_8(0.51)$	$0.458^{+0.047}_{-0.054}$
$\Omega_{\mathrm{m}}h^3$	$0.141^{+0.081}_{-0.054}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.3}_{-2.0}$	$\sigma_8(0.51)$	$0.556^{+0.087}_{-0.092}$
σ_8	$0.742^{+0.099}_{-0.11}$	z_{drag}	$1062.7^{+6.0}_{-5.3}$	$f\sigma_8(0.61)$	$0.448^{+0.048}_{-0.057}$
S_8	$0.845^{+0.099}_{-0.094}$	r_{drag}	137^{+14}_{-14}	$\sigma_8(0.61)$	$0.528^{+0.084}_{-0.089}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.463^{+0.054}_{-0.052}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.271^{+0.039}_{-0.048}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.586^{+0.061}_{-0.062}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.273^{+0.046}_{-0.050}$
$\sigma_8/h^{0.5}$	$0.88^{+0.13}_{-0.14}$	z_{eq}	4327^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$10.4 (\nu: 2.2)$
$r_{\mathrm{drag}}h$	$97.2^{+4.9}_{-4.8}$	k_{eq}	$0.0133^{+0.0051}_{-0.0039}$	$\chi^2_{6\mathrm{DF}}$	$0.41 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.13}_{-0.11}$	χ^2_{MGS}	$0.70 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.411^{+0.069}_{-0.058}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.4)$
10^9A_{s}	$2.05^{+0.65}_{-0.52}$	$H(0.15)$	$77.7^{+7.9}_{-6.3}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.84^{+0.59}_{-0.47}$	$D_{\mathrm{M}}(0.15)$	608^{+47}_{-52}	χ^2_{BAO}	$4.9 (\nu: 1.7)$
D_{40}	1141^{+500}_{-300}	$H(0.38)$	91^{+10}_{-10}		
D_{220}	4903^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1432^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 17.26$; $R - 1 = 0.00388$

6.104 base_mnu_lensing_lenspriors_BAO_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2171^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.156^{+0.069}_{-0.053}$	D_{1420}	631^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1851^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.109^{+0.077}_{-0.085}$	D_{2000}	183^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.33	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2146^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.03^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00055}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.960^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5198^{+800}_{-700}
H_0	$70.6^{+5.8}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.456^{+0.046}_{-0.045}$
Ω_{Λ}	$0.61^{+0.11}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.668^{+0.098}_{-0.096}$
Ω_{m}	$0.39^{+0.12}_{-0.11}$	z_{*}	$1093.7^{+6.5}_{-5.4}$	$f\sigma_8(0.38)$	$0.458^{+0.045}_{-0.046}$
$\Omega_{\mathrm{m}}h^2$	$0.196^{+0.094}_{-0.068}$	r_{*}	135^{+14}_{-14}	$\sigma_8(0.38)$	$0.587^{+0.092}_{-0.090}$
$\Omega_{\nu}h^2$	< 0.0465	$100\theta_{*}$	$1.109^{+0.077}_{-0.085}$	$f\sigma_8(0.51)$	$0.450^{+0.046}_{-0.050}$
$\Omega_{\mathrm{m}}h^3$	$0.139^{+0.078}_{-0.058}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.3}_{-2.0}$	$\sigma_8(0.51)$	$0.547^{+0.089}_{-0.086}$
σ_8	$0.729^{+0.10}_{-0.098}$	z_{drag}	$1062.6^{+6.1}_{-5.4}$	$f\sigma_8(0.61)$	$0.441^{+0.047}_{-0.053}$
S_8	$0.828^{+0.093}_{-0.089}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.519^{+0.086}_{-0.083}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.051}_{-0.049}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.267^{+0.040}_{-0.045}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.575^{+0.059}_{-0.058}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.268^{+0.047}_{-0.047}$
$\sigma_8/h^{0.5}$	$0.87^{+0.13}_{-0.13}$	z_{eq}	4261^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$9.9 (\nu: 2.2)$
$r_{\mathrm{drag}}h$	$97.3^{+5.0}_{-4.8}$	k_{eq}	$0.0131^{+0.0052}_{-0.0039}$	$\chi^2_{6\mathrm{DF}}$	$0.40 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.13}_{-0.11}$	χ^2_{MGS}	$0.72 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.416^{+0.069}_{-0.060}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.7 (\nu: 1.3)$
10^9A_{s}	$2.08^{+0.66}_{-0.55}$	$H(0.15)$	$77.5^{+8.1}_{-6.2}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.87^{+0.59}_{-0.49}$	$D_{\mathrm{M}}(0.15)$	610^{+46}_{-53}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1163^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	5028^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1437^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 16.78; R - 1 = 0.00542$

6.105 base_mnu_lensing_lenspriors_BAO_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2198^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.155^{+0.070}_{-0.054}$	D_{1420}	637^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1853^{+180}_{-200}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.077}_{-0.089}$	D_{2000}	184^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
Σm_{ν} [eV]	< 4.36	$n_{\mathrm{s},0.002}$	$0.959^{+0.051}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2148^{+230}_{-240}
$\ln(10^{10}A_{\mathrm{s}})$	$3.04^{+0.27}_{-0.31}$	Y_{P}	$0.24532^{+0.00054}_{-0.00057}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.959^{+0.051}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00057}$	$D_{\mathrm{M}}(2.33)$	5201^{+800}_{-700}
H_0	$70.5^{+5.9}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.447^{+0.037}_{-0.038}$
Ω_{Λ}	$0.61^{+0.11}_{-0.12}$	Age/Gyr	$12.4^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.653^{+0.093}_{-0.078}$
Ω_{m}	$0.39^{+0.12}_{-0.11}$	z_{*}	$1093.7^{+6.6}_{-5.7}$	$f\sigma_8(0.38)$	$0.448^{+0.034}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.196^{+0.094}_{-0.071}$	r_{*}	136^{+14}_{-15}	$\sigma_8(0.38)$	$0.573^{+0.089}_{-0.075}$
$\Omega_{\nu}h^2$	< 0.0469	$100\theta_{*}$	$1.111^{+0.077}_{-0.089}$	$f\sigma_8(0.51)$	$0.440^{+0.037}_{-0.038}$
$\Omega_{\mathrm{m}}h^3$	$0.139^{+0.080}_{-0.060}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.4}_{-2.0}$	$\sigma_8(0.51)$	$0.534^{+0.086}_{-0.072}$
σ_8	$0.712^{+0.094}_{-0.078}$	z_{drag}	$1062.5^{+6.2}_{-5.5}$	$f\sigma_8(0.61)$	$0.431^{+0.039}_{-0.041}$
S_8	$0.811^{+0.081}_{-0.080}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.507^{+0.083}_{-0.070}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.044}_{-0.044}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.261^{+0.040}_{-0.039}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.562^{+0.045}_{-0.043}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.012}$	$\sigma_8(2.33)$	$0.262^{+0.047}_{-0.041}$
$\sigma_8/h^{0.5}$	$0.85^{+0.13}_{-0.11}$	z_{eq}	4230^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$12.3 (\nu: 2.1)$
$r_{\mathrm{drag}}h$	$97.2^{+5.2}_{-4.8}$	k_{eq}	$0.0130^{+0.0052}_{-0.0040}$	$\chi^2_{6\mathrm{DF}}$	$0.42 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.14}_{-0.12}$	χ^2_{MGS}	$0.71 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.3}$	$100\theta_{\mathrm{s,eq}}$	$0.419^{+0.069}_{-0.062}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.4)$
10^9A_{s}	$2.11^{+0.65}_{-0.57}$	$H(0.15)$	$77.4^{+8.3}_{-6.4}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.89^{+0.58}_{-0.51}$	$D_{\mathrm{M}}(0.15)$	610^{+47}_{-54}	χ^2_{BAO}	$4.9 (\nu: 1.7)$
D_{40}	1180^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	5126^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1439^{+130}_{-150}		
$\bar{\chi}^2_{\mathrm{eff}} = 19.27; R - 1 = 0.00616$					

6.106 base_mnu_lensing_lenspriors_BAO_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2166^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.156^{+0.064}_{-0.052}$	D_{1420}	629^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1851^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.075}_{-0.086}$	D_{2000}	182^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	—	$n_{\mathrm{s},0.002}$	$0.960^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2146^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.03^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.960^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5195^{+800}_{-700}
H_0	$70.6^{+5.6}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.451^{+0.048}_{-0.045}$
Ω_{Λ}	$0.61^{+0.11}_{-0.11}$	Age/Gyr	$12.4^{+1.9}_{-1.7}$	$\sigma_8(0.15)$	$0.66^{+0.10}_{-0.11}$
Ω_{m}	$0.39^{+0.11}_{-0.11}$	z_{*}	$1093.8^{+6.3}_{-5.4}$	$f\sigma_8(0.38)$	$0.453^{+0.048}_{-0.056}$
$\Omega_{\mathrm{m}}h^2$	$0.196^{+0.089}_{-0.069}$	r_{*}	135^{+14}_{-14}	$\sigma_8(0.38)$	$0.579^{+0.099}_{-0.098}$
$\Omega_{\nu}h^2$	< 0.0486	$100\theta_{*}$	$1.110^{+0.075}_{-0.086}$	$f\sigma_8(0.51)$	$0.444^{+0.050}_{-0.060}$
$\Omega_{\mathrm{m}}h^3$	$0.139^{+0.078}_{-0.054}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.3}_{-2.0}$	$\sigma_8(0.51)$	$0.540^{+0.095}_{-0.094}$
σ_8	$0.72^{+0.11}_{-0.11}$	z_{drag}	$1062.6^{+6.0}_{-5.4}$	$f\sigma_8(0.61)$	$0.435^{+0.051}_{-0.062}$
S_8	$0.819^{+0.093}_{-0.088}$	r_{drag}	138^{+14}_{-14}	$\sigma_8(0.61)$	$0.513^{+0.091}_{-0.091}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.051}_{-0.048}$	k_{D}	$0.152^{+0.019}_{-0.016}$	$f\sigma_8(2.33)$	$0.263^{+0.043}_{-0.049}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.568^{+0.063}_{-0.068}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.265^{+0.050}_{-0.051}$
$\sigma_8/h^{0.5}$	$0.86^{+0.14}_{-0.15}$	z_{eq}	4251^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$9.8 (\nu: 2.1)$
$r_{\mathrm{drag}}h$	$97.2^{+5.0}_{-4.7}$	k_{eq}	$0.0130^{+0.0048}_{-0.0039}$	$\chi^2_{6\mathrm{DF}}$	$0.41 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.75^{+0.13}_{-0.11}$	χ^2_{MGS}	$0.71 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s,eq}}$	$0.417^{+0.068}_{-0.058}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.3)$
10^9A_{s}	$2.08^{+0.67}_{-0.55}$	$H(0.15)$	$77.4^{+7.8}_{-6.2}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.87^{+0.60}_{-0.49}$	$D_{\mathrm{M}}(0.15)$	610^{+46}_{-51}	χ^2_{BAO}	$4.9 (\nu: 1.6)$
D_{40}	1160^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	5029^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1437^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 16.75$; $R - 1 = 0.00892$

6.107 base_mnu_lensing_lenspriors_BAO_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2199^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.154^{+0.063}_{-0.053}$	D_{1420}	637^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1854^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.110^{+0.074}_{-0.089}$	D_{2000}	184^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.52	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2149^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.04^{+0.28}_{-0.30}$	Y_{P}	$0.24532^{+0.00054}_{-0.00057}$	$H(2.33)$	274^{+60}_{-50}
n_{s}	$0.959^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00057}$	$D_{\mathrm{M}}(2.33)$	5203^{+800}_{-700}
H_0	$70.4^{+5.6}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.441^{+0.037}_{-0.037}$
Ω_{Λ}	$0.61^{+0.11}_{-0.11}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.9}_{-1.7}$	$\sigma_8(0.15)$	$0.644^{+0.099}_{-0.087}$
Ω_{m}	$0.39^{+0.11}_{-0.11}$	z_{*}	$1093.7^{+6.4}_{-5.7}$	$f\sigma_8(0.38)$	$0.442^{+0.038}_{-0.040}$
$\Omega_{\mathrm{m}}h^2$	$0.196^{+0.089}_{-0.071}$	r_{*}	136^{+14}_{-14}	$\sigma_8(0.38)$	$0.565^{+0.095}_{-0.083}$
$\Omega_{\nu}h^2$	< 0.0486	$100\theta_{*}$	$1.111^{+0.074}_{-0.090}$	$f\sigma_8(0.51)$	$0.434^{+0.041}_{-0.044}$
$\Omega_{\mathrm{m}}h^3$	$0.139^{+0.076}_{-0.059}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.2^{+2.4}_{-2.0}$	$\sigma_8(0.51)$	$0.527^{+0.092}_{-0.079}$
σ_8	$0.703^{+0.099}_{-0.089}$	z_{drag}	$1062.5^{+5.9}_{-5.5}$	$f\sigma_8(0.61)$	$0.425^{+0.043}_{-0.047}$
S_8	$0.800^{+0.075}_{-0.076}$	r_{drag}	138^{+14}_{-14}	$\sigma_8(0.61)$	$0.500^{+0.089}_{-0.076}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.438^{+0.041}_{-0.041}$	k_{D}	$0.152^{+0.019}_{-0.016}$	$f\sigma_8(2.33)$	$0.257^{+0.043}_{-0.042}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.555^{+0.049}_{-0.050}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.012}$	$\sigma_8(2.33)$	$0.259^{+0.050}_{-0.044}$
$\sigma_8/h^{0.5}$	$0.84^{+0.14}_{-0.12}$	z_{eq}	4208^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$12.3 (\nu: 2.0)$
$r_{\mathrm{drag}}h$	$97.2^{+5.2}_{-4.8}$	k_{eq}	$0.0129^{+0.0048}_{-0.0039}$	$\chi^2_{6\mathrm{DF}}$	$0.42 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.51^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.76^{+0.14}_{-0.11}$	χ^2_{MGS}	$0.71 (\nu: 0.2)$
z_{re}	$8.7^{+1.3}_{-1.3}$	$100\theta_{\mathrm{s,eq}}$	$0.420^{+0.069}_{-0.057}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.8 (\nu: 1.3)$
10^9A_{s}	$2.11^{+0.67}_{-0.56}$	$H(0.15)$	$77.3^{+7.8}_{-6.3}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.89^{+0.60}_{-0.50}$	$D_{\mathrm{M}}(0.15)$	611^{+47}_{-51}	χ^2_{BAO}	$5.0 (\nu: 1.6)$
D_{40}	1178^{+500}_{-400}	$H(0.38)$	90^{+10}_{-10}		
D_{220}	5136^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1440^{+130}_{-140}		

$\bar{\chi}^2_{\mathrm{eff}} = 19.28; R - 1 = 0.00629$

6.108 base_mnu_lensing_lenspriors_BAO_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2153^{+1000}_{-1000}	$H(0.51)$	99^{+10}_{-10}
$\Omega_{\mathrm{c}}h^2$	$0.156^{+0.068}_{-0.052}$	D_{1420}	628^{+400}_{-400}	$D_{\mathrm{M}}(0.51)$	1852^{+180}_{-190}
$100\theta_{\mathrm{MC}}$	$1.108^{+0.077}_{-0.082}$	D_{2000}	182^{+100}_{-100}	$H(0.61)$	106^{+20}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 4.19	$n_{\mathrm{s},0.002}$	$0.959^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2147^{+220}_{-230}
$\ln(10^{10}A_{\mathrm{s}})$	$3.02^{+0.28}_{-0.29}$	Y_{P}	$0.24532^{+0.00054}_{-0.00056}$	$H(2.33)$	273^{+60}_{-50}
n_{s}	$0.959^{+0.052}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00054}_{-0.00056}$	$D_{\mathrm{M}}(2.33)$	5203^{+700}_{-700}
H_0	$70.6^{+5.7}_{-4.4}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.15)$	$0.459^{+0.047}_{-0.046}$
Ω_{Λ}	$0.61^{+0.10}_{-0.12}$	$\mathrm{Age}/\mathrm{Gyr}$	$12.4^{+1.8}_{-1.8}$	$\sigma_8(0.15)$	$0.674^{+0.095}_{-0.098}$
Ω_{m}	$0.39^{+0.12}_{-0.10}$	z_{*}	$1093.7^{+6.5}_{-5.2}$	$f\sigma_8(0.38)$	$0.462^{+0.045}_{-0.047}$
$\Omega_{\mathrm{m}}h^2$	$0.195^{+0.093}_{-0.066}$	r_{*}	136^{+13}_{-14}	$\sigma_8(0.38)$	$0.592^{+0.089}_{-0.092}$
$\Omega_{\nu}h^2$	< 0.0451	$100\theta_{*}$	$1.108^{+0.077}_{-0.082}$	$f\sigma_8(0.51)$	$0.453^{+0.045}_{-0.051}$
$\Omega_{\mathrm{m}}h^3$	$0.138^{+0.077}_{-0.055}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$12.3^{+2.2}_{-2.0}$	$\sigma_8(0.51)$	$0.552^{+0.086}_{-0.088}$
σ_8	$0.735^{+0.098}_{-0.10}$	z_{drag}	$1062.5^{+6.0}_{-5.2}$	$f\sigma_8(0.61)$	$0.444^{+0.046}_{-0.053}$
S_8	$0.834^{+0.095}_{-0.091}$	r_{drag}	138^{+14}_{-15}	$\sigma_8(0.61)$	$0.524^{+0.083}_{-0.085}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.052}_{-0.050}$	k_{D}	$0.152^{+0.020}_{-0.016}$	$f\sigma_8(2.33)$	$0.269^{+0.038}_{-0.046}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.579^{+0.059}_{-0.058}$	$100\theta_{\mathrm{D}}$	$0.170^{+0.010}_{-0.011}$	$\sigma_8(2.33)$	$0.271^{+0.045}_{-0.048}$
$\sigma_8/h^{0.5}$	$0.88^{+0.13}_{-0.14}$	z_{eq}	4266^{+2000}_{-1000}	$\chi^2_{\mathrm{lensing}}$	$8.7 (\nu: 2.3)$
$r_{\mathrm{drag}}h$	$97.3^{+4.9}_{-4.8}$	k_{eq}	$0.0131^{+0.0051}_{-0.0038}$	$\chi^2_{6\mathrm{DF}}$	$0.38 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	$2.49^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.74^{+0.13}_{-0.11}$	χ^2_{MGS}	$0.73 (\nu: 0.2)$
z_{re}	$8.6^{+1.3}_{-1.1}$	$100\theta_{\mathrm{s,eq}}$	$0.414^{+0.068}_{-0.060}$	$\chi^2_{\mathrm{DR12BAO}}$	$3.7 (\nu: 1.3)$
10^9A_{s}	$2.06^{+0.65}_{-0.54}$	$H(0.15)$	$77.4^{+8.0}_{-6.1}$	χ^2_{prior}	$2.0 (\nu: 2.0)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.85^{+0.58}_{-0.48}$	$D_{\mathrm{M}}(0.15)$	609^{+46}_{-52}	χ^2_{BAO}	$4.8 (\nu: 1.5)$
D_{40}	1150^{+400}_{-400}	$H(0.38)$	90^{+10}_{-9}		
D_{220}	4970^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1437^{+130}_{-140}		
$\bar{\chi}^2_{\mathrm{eff}} = 15.55; R - 1 = 0.00430$					

6.109 base_mnu_lensing_lenspriors_BAO_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	2916	2926^{+700}_{-500}	$H(0.51)$	89.10	$89.1^{+1.6}_{-1.7}$
$\Omega_c h^2$	0.1136	$0.1136^{+0.0076}_{-0.0091}$	D_{1420}	930	935^{+300}_{-200}	$D_M(0.51)$	1991.0	1992^{+50}_{-46}
$100\theta_{MC}$	1.04088	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	261	263^{+70}_{-50}	$H(0.61)$	94.62	$94.6^{+1.5}_{-1.7}$
Σm_ν [eV]	0.292	< 0.723	$n_{s,0.002}$	0.961	$0.962^{+0.050}_{-0.051}$	$D_M(0.61)$	2318	2319^{+56}_{-50}
$\ln(10^{10} A_s)$	3.178	$3.18^{+0.21}_{-0.18}$	Y_P	0.24531	$0.24530^{+0.00054}_{-0.00054}$	$H(2.33)$	233.39	$233.4^{+4.2}_{-4.3}$
n_s	0.961	$0.962^{+0.050}_{-0.051}$	Y_P^{BBN}	0.24664	$0.24663^{+0.00054}_{-0.00054}$	$D_M(2.33)$	5808	5809^{+100}_{-88}
H_0	67.41	$67.4^{+2.0}_{-2.1}$	$10^5 D/H$	2.623	$2.62^{+0.25}_{-0.23}$	$f\sigma_8(0.15)$	0.4436	$0.443^{+0.031}_{-0.035}$
Ω_Λ	0.6944	$0.694^{+0.022}_{-0.023}$	Age/Gyr	13.908	$13.91^{+0.25}_{-0.21}$	$\sigma_8(0.15)$	0.729	$0.727^{+0.053}_{-0.065}$
Ω_m	0.3056	$0.306^{+0.023}_{-0.022}$	z_*	1089.63	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	0.4634	$0.462^{+0.030}_{-0.036}$
$\Omega_m h^2$	0.1389	$0.1390^{+0.0055}_{-0.0055}$	r_*	146.23	$146.2^{+2.6}_{-2.3}$	$\sigma_8(0.38)$	0.648	$0.646^{+0.047}_{-0.057}$
$\Omega_\nu h^2$	0.00314	< 0.00777	$100\theta_*$	1.04122	$1.0412^{+0.0015}_{-0.0015}$	$f\sigma_8(0.51)$	0.4630	$0.462^{+0.030}_{-0.036}$
$\Omega_m h^3$	0.09362	$0.0936^{+0.0042}_{-0.0047}$	$D_M(z_*)/\text{Gpc}$	14.044	$14.04^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	0.6069	$0.605^{+0.044}_{-0.054}$
σ_8	0.788	$0.786^{+0.058}_{-0.070}$	z_{drag}	1059.06	$1059.1^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	0.4588	$0.457^{+0.029}_{-0.035}$
S_8	0.796	$0.794^{+0.061}_{-0.069}$	r_{drag}	149.00	$149.0^{+2.9}_{-2.6}$	$\sigma_8(0.61)$	0.5779	$0.576^{+0.042}_{-0.051}$
$\sigma_8 \Omega_m^{0.5}$	0.4357	$0.435^{+0.033}_{-0.038}$	k_D	0.13876	$0.1388^{+0.0034}_{-0.0035}$	$f\sigma_8(2.33)$	0.2953	$0.294^{+0.019}_{-0.022}$
$\sigma_8 \Omega_m^{0.25}$	0.5860	$0.585^{+0.042}_{-0.051}$	$100\theta_D$	0.16121	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	0.3027	$0.302^{+0.021}_{-0.025}$
$\sigma_8/h^{0.5}$	0.960	$0.957^{+0.065}_{-0.078}$	z_{eq}	3244	3244^{+190}_{-220}	χ^2_{lensing}	7.50	9.2 (ν : 1.6)
$r_{\text{drag}} h$	100.44	$100.4^{+3.0}_{-2.9}$	k_{eq}	0.00990	$0.00990^{+0.00058}_{-0.00067}$	$\chi^2_{6\text{DF}}$	0.000	0.056 (ν : 0.0)
$\langle d^2 \rangle^{1/2}$	2.526	$2.52^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8425	$0.843^{+0.046}_{-0.035}$	χ^2_{MGS}	1.68	1.72 (ν : 0.2)
z_{re}	7.722	$7.73^{+0.30}_{-0.27}$	$100\theta_{s,\text{eq}}$	0.4648	$0.465^{+0.024}_{-0.018}$	χ^2_{DR12BAO}	3.43	4.3 (ν : 1.0)
$10^9 A_s$	2.400	$2.41^{+0.56}_{-0.40}$	$H(0.15)$	72.58	$72.5^{+1.9}_{-1.9}$	χ^2_{prior}	0.0	2.9 (ν : 2.8)
$10^9 A_s e^{-2\tau}$	2.150	$2.16^{+0.50}_{-0.36}$	$D_M(0.15)$	643.6	644^{+19}_{-18}	χ^2_{BAO}	5.11	6.1 (ν : 1.0)
D_{40}	1437	1434^{+300}_{-200}	$H(0.38)$	82.50	$82.5^{+1.6}_{-1.8}$			
D_{220}	6745	6763^{+2000}_{-1000}	$D_M(0.38)$	1536.3	1537^{+41}_{-38}			

Best-fit $\chi^2_{\text{eff}} = 12.61$; $\bar{\chi}^2_{\text{eff}} = 18.27$; $R - 1 = 0.00180$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.50

6.110 base_mnu_lensing_lenspriors_BAO_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0012}_{-0.0012}$	D_{810}	2910	2929^{+800}_{-500}	$H(0.51)$	89.16	$89.1^{+1.5}_{-1.7}$
$\Omega_c h^2$	0.1136	$0.1135^{+0.0075}_{-0.0092}$	D_{1420}	929	935^{+300}_{-200}	$D_M(0.51)$	1989.1	1990^{+48}_{-44}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	261	263^{+70}_{-50}	$H(0.61)$	94.67	$94.6^{+1.5}_{-1.7}$
Σm_ν [eV]	0.284	< 0.714	$n_{s,0.002}$	0.961	$0.962^{+0.049}_{-0.051}$	$D_M(0.61)$	2315	2317^{+54}_{-49}
$\ln(10^{10} A_s)$	3.176	$3.18^{+0.21}_{-0.18}$	Y_P	0.24532	$0.24531^{+0.00053}_{-0.00054}$	$H(2.33)$	233.38	$233.4^{+4.0}_{-4.3}$
n_s	0.961	$0.962^{+0.049}_{-0.051}$	Y_P^{BBN}	0.24665	$0.24663^{+0.00053}_{-0.00054}$	$D_M(2.33)$	5806	5808^{+100}_{-87}
H_0	67.50	$67.4^{+1.9}_{-2.0}$	$10^5 D/H$	2.619	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	0.4436	$0.442^{+0.031}_{-0.035}$
Ω_Λ	0.6952	$0.695^{+0.021}_{-0.022}$	Age/Gyr	13.901	$13.91^{+0.25}_{-0.21}$	$\sigma_8(0.15)$	0.730	$0.728^{+0.053}_{-0.065}$
Ω_m	0.3048	$0.305^{+0.022}_{-0.021}$	z_*	1089.61	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	0.4636	$0.462^{+0.030}_{-0.036}$
$\Omega_m h^2$	0.1388	$0.1388^{+0.0053}_{-0.0054}$	r_*	146.21	$146.2^{+2.6}_{-2.3}$	$\sigma_8(0.38)$	0.649	$0.647^{+0.047}_{-0.057}$
$\Omega_\nu h^2$	0.00306	< 0.00768	$100\theta_*$	1.04123	$1.0412^{+0.0016}_{-0.0015}$	$f\sigma_8(0.51)$	0.4633	$0.462^{+0.030}_{-0.036}$
$\Omega_m h^3$	0.09371	$0.0936^{+0.0041}_{-0.0047}$	$D_M(z_*)/\text{Gpc}$	14.042	$14.04^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	0.6079	$0.606^{+0.044}_{-0.053}$
σ_8	0.789	$0.787^{+0.057}_{-0.070}$	z_{drag}	1059.09	$1059.1^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	0.4592	$0.458^{+0.029}_{-0.035}$
S_8	0.796	$0.793^{+0.059}_{-0.068}$	r_{drag}	148.97	$149.0^{+2.9}_{-2.6}$	$\sigma_8(0.61)$	0.5789	$0.577^{+0.042}_{-0.050}$
$\sigma_8 \Omega_m^{0.5}$	0.4357	$0.435^{+0.033}_{-0.037}$	k_D	0.13880	$0.1388^{+0.0034}_{-0.0035}$	$f\sigma_8(2.33)$	0.2958	$0.295^{+0.018}_{-0.022}$
$\sigma_8 \Omega_m^{0.25}$	0.5865	$0.585^{+0.041}_{-0.051}$	$100\theta_D$	0.16119	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	0.3032	$0.302^{+0.021}_{-0.025}$
$\sigma_8/h^{0.5}$	0.961	$0.958^{+0.065}_{-0.078}$	z_{eq}	3245	3242^{+180}_{-230}	χ^2_{lensing}	7.50	9.2 (ν : 1.6)
$r_{\text{drag}} h$	100.55	$100.5^{+2.8}_{-2.7}$	k_{eq}	0.00991	$0.00990^{+0.00056}_{-0.00068}$	χ^2_{JLA}	1034.80	1034.95 (ν : 0.0)
$\langle d^2 \rangle^{1/2}$	2.524	$2.52^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8424	$0.844^{+0.047}_{-0.034}$	$\chi^2_{6\text{DF}}$	0.000	0.048 (ν : 0.0)
z_{re}	7.716	$7.72^{+0.29}_{-0.27}$	$100\theta_{s,\text{eq}}$	0.4647	$0.465^{+0.025}_{-0.018}$	χ^2_{MGS}	1.75	1.79 (ν : 0.2)
$10^9 A_s$	2.395	$2.41^{+0.57}_{-0.40}$	$H(0.15)$	72.66	$72.6^{+1.8}_{-1.9}$	χ^2_{DR12BAO}	3.38	4.2 (ν : 0.7)
$10^9 A_s e^{-2\tau}$	2.146	$2.16^{+0.51}_{-0.36}$	$D_M(0.15)$	642.8	643^{+18}_{-17}	χ^2_{prior}	0.0	2.9 (ν : 2.8)
D_{40}	1434	1436^{+300}_{-200}	$H(0.38)$	82.57	$82.5^{+1.6}_{-1.7}$	χ^2_{BAO}	5.13	6.0 (ν : 0.8)
D_{220}	6734	6771^{+2000}_{-1000}	$D_M(0.38)$	1534.6	1536^{+39}_{-36}			

Best-fit $\chi^2_{\text{eff}} = 1047.43$; $\bar{\chi}^2_{\text{eff}} = 1053.09$; $R - 1 = 0.00184$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.38 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.50 SN - JLA Pantheon18: 1034.80

6.111 base_mnu_lensing_lenspriors_BAO_theta_post_agr2

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2967^{+800}_{-600}	$H(0.51)$	$88.9^{+1.6}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1125^{+0.0081}_{-0.0086}$	D_{1420}	946^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1995^{+49}_{-47}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	266^{+70}_{-60}	$H(0.61)$	$94.4^{+1.6}_{-1.7}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.759	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2323^{+55}_{-53}
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.21}_{-0.20}$	Y_{P}	$0.24531^{+0.00052}_{-0.00054}$	$H(2.33)$	$233.0^{+4.2}_{-4.2}$
n_{s}	$0.960^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00055}$	$D_{\mathrm{M}}(2.33)$	5820^{+100}_{-94}
H_0	$67.3^{+2.1}_{-2.0}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.435^{+0.028}_{-0.032}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.93^{+0.24}_{-0.22}$	$\sigma_8(0.15)$	$0.715^{+0.052}_{-0.059}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.455^{+0.028}_{-0.032}$
$\Omega_{\mathrm{m}}h^2$	$0.1385^{+0.0054}_{-0.0054}$	r_{*}	$146.5^{+2.5}_{-2.4}$	$\sigma_8(0.38)$	$0.635^{+0.046}_{-0.053}$
$\Omega_{\nu}h^2$	< 0.00816	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.454^{+0.027}_{-0.032}$
$\Omega_{\mathrm{m}}h^3$	$0.0931^{+0.0044}_{-0.0045}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.07^{+0.24}_{-0.23}$	$\sigma_8(0.51)$	$0.595^{+0.043}_{-0.050}$
σ_8	$0.772^{+0.056}_{-0.063}$	z_{drag}	$1059.0^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.450^{+0.027}_{-0.032}$
S_8	$0.780^{+0.056}_{-0.061}$	r_{drag}	$149.3^{+2.9}_{-2.7}$	$\sigma_8(0.61)$	$0.566^{+0.041}_{-0.047}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.427^{+0.031}_{-0.033}$	k_{D}	$0.1385^{+0.0035}_{-0.0035}$	$f\sigma_8(2.33)$	$0.290^{+0.018}_{-0.021}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.575^{+0.040}_{-0.045}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.297^{+0.021}_{-0.023}$
$\sigma_8/h^{0.5}$	$0.942^{+0.062}_{-0.070}$	z_{eq}	3217^{+200}_{-210}	$\chi^2_{\mathrm{lensing}}$	$11.7 (\nu: 1.7)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.8}$	k_{eq}	$0.00982^{+0.00061}_{-0.00064}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.848^{+0.044}_{-0.037}$	χ^2_{MGS}	$1.73 (\nu: 0.2)$
z_{re}	$7.71^{+0.30}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.468^{+0.023}_{-0.020}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 1.0)$
10^9A_{s}	$2.44^{+0.56}_{-0.45}$	$H(0.15)$	$72.4^{+1.9}_{-1.9}$	χ^2_{prior}	$3.0 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.18^{+0.50}_{-0.40}$	$D_{\mathrm{M}}(0.15)$	645^{+19}_{-18}	χ^2_{BAO}	$6.1 (\nu: 0.9)$
D_{40}	1461^{+300}_{-300}	$H(0.38)$	$82.3^{+1.7}_{-1.7}$		
D_{220}	6900^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1540^{+40}_{-39}		

$$\bar{\chi}^2_{\mathrm{eff}} = 20.82; R - 1 = 0.00190$$

6.112 base_mnu_lensing_lenspriors_BAO_theta_post_conslmin40

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2993^{+800}_{-600}	$H(0.51)$	$89.0^{+1.6}_{-1.9}$
$\Omega_{\mathrm{c}}h^2$	$0.1128^{+0.0084}_{-0.010}$	D_{1420}	955^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1995^{+54}_{-47}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	D_{2000}	268^{+80}_{-60}	$H(0.61)$	$94.5^{+1.6}_{-1.9}$
Σm_{ν} [eV]	< 0.803	$n_{\mathrm{s},0.002}$	$0.962^{+0.050}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2322^{+61}_{-53}
$\ln(10^{10}A_{\mathrm{s}})$	$3.20^{+0.23}_{-0.20}$	Y_{P}	$0.24530^{+0.00053}_{-0.00055}$	$H(2.33)$	$233.1^{+4.4}_{-4.5}$
n_{s}	$0.962^{+0.050}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00055}$	$D_{\mathrm{M}}(2.33)$	5817^{+110}_{-94}
H_0	$67.3^{+2.1}_{-2.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.26}_{-0.22}$	$f\sigma_8(0.15)$	$0.440^{+0.033}_{-0.038}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.93^{+0.27}_{-0.22}$	$\sigma_8(0.15)$	$0.723^{+0.057}_{-0.072}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.460^{+0.032}_{-0.040}$
$\Omega_{\mathrm{m}}h^2$	$0.1386^{+0.0057}_{-0.0058}$	r_{*}	$146.4^{+2.8}_{-2.5}$	$\sigma_8(0.38)$	$0.642^{+0.050}_{-0.064}$
$\Omega_{\nu}h^2$	< 0.00864	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.459^{+0.031}_{-0.039}$
$\Omega_{\mathrm{m}}h^3$	$0.0933^{+0.0044}_{-0.0049}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.06^{+0.26}_{-0.24}$	$\sigma_8(0.51)$	$0.601^{+0.047}_{-0.060}$
σ_8	$0.781^{+0.061}_{-0.077}$	z_{drag}	$1059.0^{+3.0}_{-3.2}$	$f\sigma_8(0.61)$	$0.455^{+0.031}_{-0.039}$
S_8	$0.789^{+0.064}_{-0.074}$	r_{drag}	$149.2^{+3.1}_{-2.8}$	$\sigma_8(0.61)$	$0.572^{+0.045}_{-0.057}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.432^{+0.035}_{-0.041}$	k_{D}	$0.1386^{+0.0036}_{-0.0037}$	$f\sigma_8(2.33)$	$0.293^{+0.020}_{-0.025}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.581^{+0.045}_{-0.055}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.300^{+0.022}_{-0.028}$
$\sigma_8/h^{0.5}$	$0.952^{+0.069}_{-0.086}$	z_{eq}	3225^{+210}_{-240}	$\chi^2_{\mathrm{lensing}}$	$9.1 (\nu: 1.5)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.9}$	k_{eq}	$0.00985^{+0.00062}_{-0.00072}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.54^{+0.16}_{-0.15}$	$100\theta_{\mathrm{eq}}$	$0.847^{+0.051}_{-0.038}$	χ^2_{MGS}	$1.71 (\nu: 0.2)$
z_{re}	$7.72^{+0.30}_{-0.28}$	$100\theta_{\mathrm{s,eq}}$	$0.467^{+0.027}_{-0.020}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 1.0)$
10^9A_{s}	$2.46^{+0.63}_{-0.46}$	$H(0.15)$	$72.4^{+1.9}_{-2.1}$	χ^2_{prior}	$3.0 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.20^{+0.56}_{-0.41}$	$D_{\mathrm{M}}(0.15)$	645^{+20}_{-18}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1468^{+400}_{-300}	$H(0.38)$	$82.4^{+1.7}_{-2.0}$		
D_{220}	6942^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1539^{+44}_{-39}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.19$; $R - 1 = 0.00198$

6.113 base_mnu_lensing_lenspriors_BAO_theta_post_agrlmax425

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2919^{+700}_{-500}	$H(0.51)$	$89.1^{+1.5}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1137^{+0.0076}_{-0.0091}$	D_{1420}	933^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1992^{+50}_{-45}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	262^{+70}_{-50}	$H(0.61)$	$94.6^{+1.5}_{-1.7}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.710	$n_{\mathrm{s},0.002}$	$0.962^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2318^{+56}_{-50}
$\ln(10^{10}A_{\mathrm{s}})$	$3.17^{+0.21}_{-0.18}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.5^{+4.2}_{-4.3}$
n_{s}	$0.962^{+0.049}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5808^{+100}_{-87}
H_0	$67.4^{+2.0}_{-2.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.443^{+0.030}_{-0.035}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.91^{+0.25}_{-0.20}$	$\sigma_8(0.15)$	$0.729^{+0.052}_{-0.064}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.7^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.463^{+0.030}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.1390^{+0.0055}_{-0.0056}$	r_{*}	$146.2^{+2.6}_{-2.3}$	$\sigma_8(0.38)$	$0.647^{+0.047}_{-0.057}$
$\Omega_{\nu}h^2$	< 0.00764	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.463^{+0.029}_{-0.035}$
$\Omega_{\mathrm{m}}h^3$	$0.0937^{+0.0041}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.04^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	$0.606^{+0.044}_{-0.053}$
σ_8	$0.788^{+0.056}_{-0.069}$	z_{drag}	$1059.0^{+3.0}_{-3.2}$	$f\sigma_8(0.61)$	$0.458^{+0.029}_{-0.035}$
S_8	$0.796^{+0.060}_{-0.068}$	r_{drag}	$148.9^{+3.0}_{-2.6}$	$\sigma_8(0.61)$	$0.577^{+0.041}_{-0.050}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.436^{+0.033}_{-0.037}$	k_{D}	$0.1388^{+0.0034}_{-0.0035}$	$f\sigma_8(2.33)$	$0.295^{+0.018}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.586^{+0.042}_{-0.050}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.302^{+0.021}_{-0.025}$
$\sigma_8/h^{0.5}$	$0.959^{+0.064}_{-0.078}$	z_{eq}	3248^{+190}_{-220}	$\chi^2_{\mathrm{lensing}}$	$7.0 (\nu: 1.6)$
$r_{\mathrm{drag}}h$	$100.4^{+3.0}_{-2.9}$	k_{eq}	$0.00991^{+0.00057}_{-0.00067}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.842^{+0.046}_{-0.035}$	χ^2_{MGS}	$1.71 (\nu: 0.2)$
z_{re}	$7.73^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.465^{+0.024}_{-0.018}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.0)$
10^9A_{s}	$2.40^{+0.56}_{-0.40}$	$H(0.15)$	$72.6^{+1.9}_{-1.9}$	χ^2_{prior}	$2.9 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.15^{+0.50}_{-0.36}$	$D_{\mathrm{M}}(0.15)$	644^{+19}_{-18}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1430^{+300}_{-200}	$H(0.38)$	$82.5^{+1.6}_{-1.8}$		
D_{220}	6741^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1537^{+41}_{-37}		

$\bar{\chi}^2_{\mathrm{eff}} = 16.07$; $R - 1 = 0.00165$

6.114 base_mnu_lensing_lenspriors_BAO_theta_post_ptt

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0013}_{-0.0013}$	D_{810}	3253^{+700}_{-800}	$H(0.51)$	$88.5^{+1.9}_{-1.8}$
$\Omega_{\mathrm{c}} h^2$	$0.1098^{+0.0098}_{-0.0092}$	D_{1420}	1035^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	2004^{+49}_{-52}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	D_{2000}	290^{+70}_{-70}	$H(0.61)$	$94.0^{+1.9}_{-1.8}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.955	$n_{\mathrm{s},0.002}$	$0.960^{+0.053}_{-0.049}$	$D_{\mathrm{M}}(0.61)$	2333^{+55}_{-57}
$\ln(10^{10} A_{\mathrm{s}})$	$3.28^{+0.19}_{-0.24}$	Y_{P}	$0.24531^{+0.00054}_{-0.00058}$	$H(2.33)$	$232.1^{+4.7}_{-3.9}$
n_{s}	$0.960^{+0.053}_{-0.049}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00054}_{-0.00058}$	$D_{\mathrm{M}}(2.33)$	5844^{+110}_{-110}
H_0	$67.0^{+2.2}_{-2.0}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.27}_{-0.23}$	$f\sigma_8(0.15)$	$0.432^{+0.037}_{-0.035}$
Ω_{Λ}	$0.693^{+0.025}_{-0.022}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.99^{+0.26}_{-0.26}$	$\sigma_8(0.15)$	$0.707^{+0.067}_{-0.064}$
Ω_{m}	$0.307^{+0.022}_{-0.025}$	z_{*}	$1089.4^{+1.8}_{-1.5}$	$f\sigma_8(0.38)$	$0.451^{+0.038}_{-0.036}$
$\Omega_{\mathrm{m}} h^2$	$0.1374^{+0.0059}_{-0.0052}$	r_{*}	$147.1^{+2.5}_{-2.7}$	$\sigma_8(0.38)$	$0.628^{+0.059}_{-0.058}$
$\Omega_{\nu} h^2$	< 0.0103	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0017}$	$f\sigma_8(0.51)$	$0.451^{+0.037}_{-0.037}$
$\Omega_{\mathrm{m}} h^3$	$0.0920^{+0.0051}_{-0.0045}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.13^{+0.24}_{-0.26}$	$\sigma_8(0.51)$	$0.588^{+0.055}_{-0.055}$
σ_8	$0.764^{+0.072}_{-0.069}$	z_{drag}	$1058.9^{+3.1}_{-3.2}$	$f\sigma_8(0.61)$	$0.447^{+0.036}_{-0.036}$
S_8	$0.772^{+0.073}_{-0.068}$	r_{drag}	$149.9^{+2.7}_{-3.0}$	$\sigma_8(0.61)$	$0.560^{+0.053}_{-0.052}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.423^{+0.040}_{-0.037}$	k_{D}	$0.1379^{+0.0036}_{-0.0034}$	$f\sigma_8(2.33)$	$0.289^{+0.023}_{-0.024}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.568^{+0.053}_{-0.049}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0020}_{-0.0018}$	$\sigma_8(2.33)$	$0.294^{+0.026}_{-0.027}$
$\sigma_8/h^{0.5}$	$0.933^{+0.082}_{-0.078}$	z_{eq}	3155^{+240}_{-210}	$\chi^2_{\mathrm{lensing}}$	$10.6 (\nu: 1.4)$
$r_{\mathrm{drag}} h$	$100.4^{+3.2}_{-2.8}$	k_{eq}	$0.00964^{+0.00073}_{-0.00064}$	$\chi^2_{6\mathrm{DF}}$	$0.058 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.61^{+0.15}_{-0.17}$	$100\theta_{\mathrm{eq}}$	$0.862^{+0.049}_{-0.047}$	χ^2_{MGS}	$1.72 (\nu: 0.3)$
z_{re}	$7.69^{+0.31}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.475^{+0.025}_{-0.025}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	$2.66^{+0.54}_{-0.59}$	$H(0.15)$	$72.1^{+2.1}_{-1.8}$	χ^2_{prior}	$3.0 (\nu: 2.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$2.39^{+0.48}_{-0.53}$	$D_{\mathrm{M}}(0.15)$	648^{+19}_{-20}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1602^{+300}_{-400}	$H(0.38)$	$82.0^{+1.9}_{-1.8}$		
D_{220}	7646^{+2000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1547^{+39}_{-42}		
$\bar{\chi}^2_{\mathrm{eff}} = 19.79; R - 1 = 0.03408$					

6.115 base_mnu_lensing_lenspriors_BAO_theta_post_bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0012}_{-0.0012}$	D_{810}	2861^{+700}_{-500}	$H(0.51)$	$89.1^{+1.5}_{-1.7}$
$\Omega_{\mathrm{c}} h^2$	$0.1138^{+0.0074}_{-0.0090}$	D_{1420}	914^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	1991^{+49}_{-45}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	257^{+70}_{-50}	$H(0.61)$	$94.6^{+1.5}_{-1.7}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.713	$n_{\mathrm{s},0.002}$	$0.963^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2318^{+55}_{-50}
$\ln(10^{10} A_{\mathrm{s}})$	$3.15^{+0.21}_{-0.17}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.5^{+4.1}_{-4.3}$
n_{s}	$0.963^{+0.049}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5807^{+100}_{-86}
H_0	$67.4^{+2.0}_{-2.0}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.440^{+0.029}_{-0.036}$
Ω_{Λ}	$0.694^{+0.023}_{-0.023}$	Age/Gyr	$13.91^{+0.24}_{-0.20}$	$\sigma_8(0.15)$	$0.723^{+0.052}_{-0.066}$
Ω_{m}	$0.306^{+0.023}_{-0.023}$	z_{*}	$1089.7^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.459^{+0.029}_{-0.038}$
$\Omega_{\mathrm{m}} h^2$	$0.1391^{+0.0054}_{-0.0056}$	r_{*}	$146.2^{+2.6}_{-2.2}$	$\sigma_8(0.38)$	$0.642^{+0.046}_{-0.059}$
$\Omega_{\nu} h^2$	< 0.00766	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.459^{+0.029}_{-0.037}$
$\Omega_{\mathrm{m}} h^3$	$0.0937^{+0.0041}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.04^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	$0.601^{+0.043}_{-0.055}$
σ_8	$0.781^{+0.056}_{-0.072}$	z_{drag}	$1059.1^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.454^{+0.028}_{-0.037}$
S_8	$0.789^{+0.058}_{-0.070}$	r_{drag}	$148.9^{+2.9}_{-2.5}$	$\sigma_8(0.61)$	$0.572^{+0.041}_{-0.052}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.432^{+0.032}_{-0.038}$	k_{D}	$0.1388^{+0.0034}_{-0.0035}$	$f\sigma_8(2.33)$	$0.292^{+0.019}_{-0.022}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.581^{+0.040}_{-0.052}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.300^{+0.021}_{-0.026}$
$\sigma_8/h^{0.5}$	$0.951^{+0.064}_{-0.081}$	z_{eq}	3250^{+190}_{-220}	$\chi^2_{\mathrm{lensing}}$	$9.4 (\nu: 1.6)$
$r_{\mathrm{drag}} h$	$100.4^{+3.1}_{-2.8}$	k_{eq}	$0.00992^{+0.00056}_{-0.00067}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.13}_{-0.12}$	$100\theta_{\mathrm{eq}}$	$0.842^{+0.046}_{-0.034}$	χ^2_{MGS}	$1.71 (\nu: 0.2)$
z_{re}	$7.73^{+0.30}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.464^{+0.024}_{-0.018}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	$2.35^{+0.52}_{-0.40}$	$H(0.15)$	$72.6^{+1.8}_{-1.9}$	χ^2_{prior}	$2.9 (\nu: 2.7)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$2.11^{+0.47}_{-0.36}$	$D_{\mathrm{M}}(0.15)$	644^{+19}_{-17}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1400^{+300}_{-200}	$H(0.38)$	$82.5^{+1.6}_{-1.8}$		
D_{220}	6599^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1537^{+40}_{-37}		
$\bar{\chi}^2_{\mathrm{eff}} = 18.46; R - 1 = 0.00205$					

6.116 base_mnu_lensing_lenspriors_BAO_theta_post_agr2bfcl

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2894^{+700}_{-600}	$H(0.51)$	$89.0^{+1.6}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1128^{+0.0079}_{-0.0086}$	D_{1420}	924^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	1994^{+49}_{-46}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0016}$	D_{2000}	259^{+70}_{-60}	$H(0.61)$	$94.5^{+1.6}_{-1.7}$
Σm_{ν} [eV]	< 0.751	$n_{\mathrm{s},0.002}$	$0.961^{+0.050}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2321^{+54}_{-51}
$\ln(10^{10}A_{\mathrm{s}})$	$3.16^{+0.21}_{-0.19}$	Y_{P}	$0.24531^{+0.00052}_{-0.00054}$	$H(2.33)$	$233.2^{+4.0}_{-4.1}$
n_{s}	$0.961^{+0.050}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5816^{+100}_{-92}
H_0	$67.3^{+2.1}_{-2.0}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.433^{+0.028}_{-0.031}$
Ω_{Λ}	$0.694^{+0.023}_{-0.022}$	Age/Gyr	$13.93^{+0.24}_{-0.22}$	$\sigma_8(0.15)$	$0.711^{+0.050}_{-0.060}$
Ω_{m}	$0.306^{+0.022}_{-0.023}$	z_{*}	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.453^{+0.027}_{-0.033}$
$\Omega_{\mathrm{m}}h^2$	$0.1386^{+0.0053}_{-0.0054}$	r_{*}	$146.4^{+2.5}_{-2.4}$	$\sigma_8(0.38)$	$0.632^{+0.045}_{-0.053}$
$\Omega_{\nu}h^2$	< 0.00808	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.452^{+0.027}_{-0.034}$
$\Omega_{\mathrm{m}}h^3$	$0.0933^{+0.0043}_{-0.0044}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.06^{+0.24}_{-0.23}$	$\sigma_8(0.51)$	$0.592^{+0.043}_{-0.050}$
σ_8	$0.769^{+0.054}_{-0.065}$	z_{drag}	$1059.0^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.448^{+0.026}_{-0.033}$
S_8	$0.777^{+0.055}_{-0.061}$	r_{drag}	$149.2^{+2.8}_{-2.7}$	$\sigma_8(0.61)$	$0.564^{+0.041}_{-0.047}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.425^{+0.030}_{-0.033}$	k_{D}	$0.1386^{+0.0034}_{-0.0034}$	$f\sigma_8(2.33)$	$0.288^{+0.017}_{-0.021}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.572^{+0.039}_{-0.047}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.295^{+0.020}_{-0.023}$
$\sigma_8/h^{0.5}$	$0.937^{+0.060}_{-0.073}$	z_{eq}	3226^{+190}_{-210}	$\chi^2_{\mathrm{lensing}}$	$11.9 (\nu: 1.7)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.7}$	k_{eq}	$0.00985^{+0.00059}_{-0.00064}$	$\chi^2_{6\mathrm{DF}}$	$0.055 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.50^{+0.13}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.847^{+0.045}_{-0.036}$	χ^2_{MGS}	$1.72 (\nu: 0.2)$
z_{re}	$7.72^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.467^{+0.023}_{-0.019}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 1.0)$
10^9A_{s}	$2.38^{+0.52}_{-0.44}$	$H(0.15)$	$72.5^{+1.9}_{-1.9}$	χ^2_{prior}	$3.0 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.13^{+0.47}_{-0.40}$	$D_{\mathrm{M}}(0.15)$	645^{+19}_{-18}	χ^2_{BAO}	$6.1 (\nu: 0.9)$
D_{40}	1422^{+300}_{-300}	$H(0.38)$	$82.4^{+1.7}_{-1.7}$		
D_{220}	6715^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1539^{+40}_{-38}		

$\bar{\chi}^2_{\mathrm{eff}} = 20.96$; $R - 1 = 0.00384$

6.117 base_mnu_lensing_lenspriors_BAO_theta_post_linear

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0222^{+0.0012}_{-0.0012}$	D_{810}	2899^{+700}_{-500}	$H(0.51)$	$89.2^{+1.5}_{-1.7}$
$\Omega_{\mathrm{c}} h^2$	$0.1143^{+0.0073}_{-0.0090}$	D_{1420}	927^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	1990^{+49}_{-44}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0016}_{-0.0015}$	D_{2000}	260^{+70}_{-50}	$H(0.61)$	$94.7^{+1.5}_{-1.7}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.681	$n_{\mathrm{s},0.002}$	$0.963^{+0.048}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2316^{+55}_{-49}
$\ln(10^{10} A_{\mathrm{s}})$	$3.17^{+0.21}_{-0.17}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.7^{+4.1}_{-4.4}$
n_{s}	$0.963^{+0.048}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5803^{+100}_{-83}
H_0	$67.4^{+2.0}_{-2.1}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.447^{+0.030}_{-0.036}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.89^{+0.25}_{-0.20}$	$\sigma_8(0.15)$	$0.735^{+0.050}_{-0.064}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.7^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.467^{+0.029}_{-0.036}$
$\Omega_{\mathrm{m}} h^2$	$0.1393^{+0.0055}_{-0.0056}$	r_{*}	$146.0^{+2.6}_{-2.2}$	$\sigma_8(0.38)$	$0.653^{+0.046}_{-0.057}$
$\Omega_{\nu} h^2$	< 0.00732	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0015}$	$f\sigma_8(0.51)$	$0.466^{+0.029}_{-0.036}$
$\Omega_{\mathrm{m}} h^3$	$0.0939^{+0.0039}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.03^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	$0.611^{+0.043}_{-0.053}$
σ_8	$0.795^{+0.054}_{-0.070}$	z_{drag}	$1059.1^{+3.0}_{-3.2}$	$f\sigma_8(0.61)$	$0.462^{+0.028}_{-0.035}$
S_8	$0.803^{+0.059}_{-0.070}$	r_{drag}	$148.8^{+2.9}_{-2.6}$	$\sigma_8(0.61)$	$0.582^{+0.041}_{-0.051}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.440^{+0.032}_{-0.038}$	k_{D}	$0.1390^{+0.0034}_{-0.0036}$	$f\sigma_8(2.33)$	$0.297^{+0.019}_{-0.022}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.040}_{-0.051}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.304^{+0.021}_{-0.025}$
$\sigma_8/h^{0.5}$	$0.967^{+0.063}_{-0.078}$	z_{eq}	3261^{+180}_{-220}	$\chi^2_{\mathrm{lensing}}$	$9.7 (\nu: 1.6)$
$r_{\mathrm{drag}} h$	$100.3^{+3.0}_{-2.9}$	k_{eq}	$0.00996^{+0.00055}_{-0.00067}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.840^{+0.046}_{-0.033}$	χ^2_{MGS}	$1.71 (\nu: 0.2)$
z_{re}	$7.73^{+0.29}_{-0.28}$	$100\theta_{\mathrm{s,eq}}$	$0.463^{+0.024}_{-0.017}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.1)$
$10^9 A_{\mathrm{s}}$	$2.39^{+0.56}_{-0.37}$	$H(0.15)$	$72.6^{+1.8}_{-1.9}$	χ^2_{prior}	$2.9 (\nu: 2.8)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$2.14^{+0.50}_{-0.33}$	$D_{\mathrm{M}}(0.15)$	643^{+19}_{-17}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1417^{+300}_{-200}	$H(0.38)$	$82.6^{+1.6}_{-1.8}$		
D_{220}	6673^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1535^{+40}_{-36}		
$\bar{\chi}^2_{\mathrm{eff}} = 18.71; R - 1 = 0.00239$					

6.118 base_mnu_lensing_lenspriors_BAO_theta_post_acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2928^{+800}_{-500}	$H(0.51)$	$89.1^{+1.6}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1135^{+0.0077}_{-0.0092}$	D_{1420}	935^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1992^{+50}_{-46}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	263^{+70}_{-50}	$H(0.61)$	$94.6^{+1.5}_{-1.7}$
Σm_{ν} [eV]	< 0.727	$n_{\mathrm{s},0.002}$	$0.962^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2319^{+56}_{-51}
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.21}_{-0.18}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.4^{+4.2}_{-4.3}$
n_{s}	$0.962^{+0.049}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5810^{+110}_{-88}
H_0	$67.4^{+2.0}_{-2.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.442^{+0.031}_{-0.035}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.91^{+0.25}_{-0.21}$	$\sigma_8(0.15)$	$0.727^{+0.053}_{-0.066}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.462^{+0.030}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	$0.1389^{+0.0055}_{-0.0056}$	r_{*}	$146.2^{+2.6}_{-2.3}$	$\sigma_8(0.38)$	$0.645^{+0.047}_{-0.058}$
$\Omega_{\nu}h^2$	< 0.00781	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0015}$	$f\sigma_8(0.51)$	$0.461^{+0.030}_{-0.036}$
$\Omega_{\mathrm{m}}h^3$	$0.0936^{+0.0041}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.04^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	$0.604^{+0.044}_{-0.055}$
σ_8	$0.785^{+0.057}_{-0.071}$	z_{drag}	$1059.0^{+3.0}_{-3.2}$	$f\sigma_8(0.61)$	$0.457^{+0.029}_{-0.036}$
S_8	$0.793^{+0.061}_{-0.070}$	r_{drag}	$149.0^{+2.9}_{-2.6}$	$\sigma_8(0.61)$	$0.575^{+0.042}_{-0.052}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.435^{+0.033}_{-0.038}$	k_{D}	$0.1388^{+0.0034}_{-0.0036}$	$f\sigma_8(2.33)$	$0.294^{+0.019}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.584^{+0.042}_{-0.051}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.301^{+0.021}_{-0.026}$
$\sigma_8/h^{0.5}$	$0.957^{+0.065}_{-0.079}$	z_{eq}	3243^{+190}_{-230}	$\chi^2_{\mathrm{lensing}}$	$9.2\ (\nu: 1.6)$
$r_{\mathrm{drag}}h$	$100.4^{+3.0}_{-2.9}$	k_{eq}	$0.00990^{+0.00058}_{-0.00068}$	$\chi^2_{6\mathrm{DF}}$	$0.056\ (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.843^{+0.047}_{-0.035}$	χ^2_{MGS}	$1.72\ (\nu: 0.2)$
z_{re}	$7.73^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.465^{+0.025}_{-0.018}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3\ (\nu: 1.0)$
10^9A_{s}	$2.41^{+0.57}_{-0.40}$	$H(0.15)$	$72.5^{+1.9}_{-2.0}$	χ^2_{prior}	$2.9\ (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.16^{+0.51}_{-0.36}$	$D_{\mathrm{M}}(0.15)$	644^{+19}_{-18}	χ^2_{BAO}	$6.1\ (\nu: 1.0)$
D_{40}	1435^{+300}_{-200}	$H(0.38)$	$82.5^{+1.6}_{-1.8}$		
D_{220}	6766^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1537^{+41}_{-38}		
$\bar{\chi}^2_{\mathrm{eff}} = 18.25; R - 1 = 0.00162$					

6.119 base_mnu_lensing_lenspriors_BAO_theta_post_agr2acc

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2975^{+700}_{-600}	$H(0.51)$	$88.9^{+1.7}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1123^{+0.0082}_{-0.0086}$	D_{1420}	948^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1996^{+49}_{-48}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	266^{+70}_{-60}	$H(0.61)$	$94.4^{+1.7}_{-1.7}$
Σm_{ν} [eV]	< 0.770	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2323^{+55}_{-53}
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.21}_{-0.20}$	Y_{P}	$0.24531^{+0.00052}_{-0.00054}$	$H(2.33)$	$233.0^{+4.2}_{-4.2}$
n_{s}	$0.960^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5821^{+100}_{-95}
H_0	$67.2^{+2.1}_{-2.0}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.435^{+0.028}_{-0.031}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.94^{+0.24}_{-0.23}$	$\sigma_8(0.15)$	$0.713^{+0.052}_{-0.060}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.5^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.454^{+0.028}_{-0.033}$
$\Omega_{\mathrm{m}}h^2$	$0.1384^{+0.0054}_{-0.0054}$	r_{*}	$146.5^{+2.5}_{-2.5}$	$\sigma_8(0.38)$	$0.634^{+0.047}_{-0.053}$
$\Omega_{\nu}h^2$	< 0.00828	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.454^{+0.028}_{-0.033}$
$\Omega_{\mathrm{m}}h^3$	$0.0931^{+0.0045}_{-0.0044}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.07^{+0.24}_{-0.23}$	$\sigma_8(0.51)$	$0.594^{+0.044}_{-0.049}$
σ_8	$0.771^{+0.056}_{-0.065}$	z_{drag}	$1059.0^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.449^{+0.027}_{-0.033}$
S_8	$0.779^{+0.056}_{-0.060}$	r_{drag}	$149.3^{+2.8}_{-2.8}$	$\sigma_8(0.61)$	$0.565^{+0.042}_{-0.047}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.426^{+0.031}_{-0.033}$	k_{D}	$0.1385^{+0.0035}_{-0.0035}$	$f\sigma_8(2.33)$	$0.290^{+0.018}_{-0.021}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.573^{+0.040}_{-0.046}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.296^{+0.021}_{-0.024}$
$\sigma_8/h^{0.5}$	$0.940^{+0.062}_{-0.071}$	z_{eq}	3214^{+200}_{-210}	$\chi^2_{\mathrm{lensing}}$	$11.8\ (\nu: 1.7)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.8}$	k_{eq}	$0.00981^{+0.00061}_{-0.00063}$	$\chi^2_{6\mathrm{DF}}$	$0.055\ (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.849^{+0.044}_{-0.038}$	χ^2_{MGS}	$1.73\ (\nu: 0.2)$
z_{re}	$7.71^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.468^{+0.023}_{-0.020}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3\ (\nu: 0.9)$
10^9A_{s}	$2.44^{+0.56}_{-0.45}$	$H(0.15)$	$72.4^{+1.9}_{-1.9}$	χ^2_{prior}	$3.0\ (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.19^{+0.50}_{-0.40}$	$D_{\mathrm{M}}(0.15)$	645^{+19}_{-18}	χ^2_{BAO}	$6.1\ (\nu: 0.9)$
D_{40}	1465^{+300}_{-300}	$H(0.38)$	$82.3^{+1.7}_{-1.7}$		
D_{220}	6921^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1540^{+40}_{-39}		

$\bar{\chi}^2_{\mathrm{eff}} = 20.92$; $R - 1 = 0.00208$

6.120 base_mnu_lensing_lenspriors_BAO_theta_post_takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2935^{+800}_{-500}	$H(0.51)$	$89.0^{+1.6}_{-1.8}$
$\Omega_{\mathrm{c}}h^2$	$0.1133^{+0.0078}_{-0.0092}$	D_{1420}	937^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1993^{+51}_{-46}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	264^{+70}_{-50}	$H(0.61)$	$94.6^{+1.6}_{-1.8}$
Σm_{ν} [eV]	< 0.751	$n_{\mathrm{s},0.002}$	$0.962^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2320^{+57}_{-52}
$\ln(10^{10}A_{\mathrm{s}})$	$3.18^{+0.21}_{-0.18}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.3^{+4.2}_{-4.3}$
n_{s}	$0.962^{+0.049}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5812^{+110}_{-90}
H_0	$67.3^{+2.0}_{-2.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.441^{+0.032}_{-0.037}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.92^{+0.25}_{-0.21}$	$\sigma_8(0.15)$	$0.724^{+0.056}_{-0.069}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.6^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.460^{+0.032}_{-0.039}$
$\Omega_{\mathrm{m}}h^2$	$0.1388^{+0.0055}_{-0.0056}$	r_{*}	$146.3^{+2.6}_{-2.4}$	$\sigma_8(0.38)$	$0.643^{+0.050}_{-0.061}$
$\Omega_{\nu}h^2$	< 0.00808	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.460^{+0.031}_{-0.039}$
$\Omega_{\mathrm{m}}h^3$	$0.0935^{+0.0042}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.05^{+0.25}_{-0.23}$	$\sigma_8(0.51)$	$0.602^{+0.047}_{-0.058}$
σ_8	$0.782^{+0.060}_{-0.074}$	z_{drag}	$1059.0^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.456^{+0.031}_{-0.038}$
S_8	$0.790^{+0.064}_{-0.072}$	r_{drag}	$149.1^{+2.9}_{-2.7}$	$\sigma_8(0.61)$	$0.573^{+0.044}_{-0.055}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.433^{+0.035}_{-0.039}$	k_{D}	$0.1387^{+0.0035}_{-0.0036}$	$f\sigma_8(2.33)$	$0.293^{+0.020}_{-0.024}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.582^{+0.044}_{-0.054}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.300^{+0.022}_{-0.027}$
$\sigma_8/h^{0.5}$	$0.953^{+0.069}_{-0.084}$	z_{eq}	3237^{+190}_{-230}	$\chi^2_{\mathrm{lensing}}$	$9.2 (\nu: 1.6)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.8}$	k_{eq}	$0.00988^{+0.00059}_{-0.00068}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.844^{+0.048}_{-0.036}$	χ^2_{MGS}	$1.72 (\nu: 0.2)$
z_{re}	$7.72^{+0.30}_{-0.28}$	$100\theta_{\mathrm{s,eq}}$	$0.466^{+0.025}_{-0.019}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3 (\nu: 1.0)$
10^9A_{s}	$2.41^{+0.56}_{-0.41}$	$H(0.15)$	$72.5^{+1.9}_{-1.9}$	χ^2_{prior}	$3.0 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.16^{+0.51}_{-0.37}$	$D_{\mathrm{M}}(0.15)$	644^{+19}_{-18}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1439^{+300}_{-300}	$H(0.38)$	$82.4^{+1.7}_{-1.8}$		
D_{220}	6792^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1538^{+41}_{-38}		

$\bar{\chi}^2_{\mathrm{eff}} = 18.22$; $R - 1 = 0.00182$

6.121 base_mnu_lensing_lenspriors_BAO_theta_post_agr2takahashi

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2984^{+800}_{-600}	$H(0.51)$	$88.9^{+1.7}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1120^{+0.0083}_{-0.0085}$	D_{1420}	951^{+300}_{-200}	$D_{\mathrm{M}}(0.51)$	1997^{+49}_{-48}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	267^{+70}_{-60}	$H(0.61)$	$94.4^{+1.7}_{-1.7}$
Σm_{ν} [eV]	< 0.788	$n_{\mathrm{s},0.002}$	$0.960^{+0.051}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2324^{+55}_{-54}
$\ln(10^{10}A_{\mathrm{s}})$	$3.19^{+0.21}_{-0.20}$	Y_{P}	$0.24531^{+0.00052}_{-0.00054}$	$H(2.33)$	$232.9^{+4.2}_{-4.2}$
n_{s}	$0.960^{+0.051}_{-0.052}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5824^{+100}_{-97}
H_0	$67.2^{+2.1}_{-2.0}$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.433^{+0.030}_{-0.032}$
Ω_{Λ}	$0.694^{+0.023}_{-0.022}$	Age/Gyr	$13.94^{+0.24}_{-0.23}$	$\sigma_8(0.15)$	$0.710^{+0.055}_{-0.061}$
Ω_{m}	$0.306^{+0.022}_{-0.023}$	z_{*}	$1089.5^{+1.7}_{-1.5}$	$f\sigma_8(0.38)$	$0.452^{+0.030}_{-0.033}$
$\Omega_{\mathrm{m}}h^2$	$0.1383^{+0.0055}_{-0.0054}$	r_{*}	$146.6^{+2.5}_{-2.5}$	$\sigma_8(0.38)$	$0.631^{+0.049}_{-0.055}$
$\Omega_{\nu}h^2$	< 0.00847	$100\theta_{*}$	$1.0413^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.452^{+0.029}_{-0.034}$
$\Omega_{\mathrm{m}}h^3$	$0.0929^{+0.0045}_{-0.0044}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.08^{+0.24}_{-0.24}$	$\sigma_8(0.51)$	$0.591^{+0.046}_{-0.052}$
σ_8	$0.767^{+0.059}_{-0.066}$	z_{drag}	$1059.0^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.448^{+0.029}_{-0.033}$
S_8	$0.775^{+0.059}_{-0.062}$	r_{drag}	$149.4^{+2.8}_{-2.8}$	$\sigma_8(0.61)$	$0.563^{+0.044}_{-0.049}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.424^{+0.032}_{-0.034}$	k_{D}	$0.1384^{+0.0035}_{-0.0035}$	$f\sigma_8(2.33)$	$0.288^{+0.019}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.571^{+0.042}_{-0.046}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.295^{+0.022}_{-0.025}$
$\sigma_8/h^{0.5}$	$0.936^{+0.066}_{-0.073}$	z_{eq}	3207^{+210}_{-210}	$\chi^2_{\mathrm{lensing}}$	$11.8\ (\nu: 1.7)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-2.8}$	k_{eq}	$0.00979^{+0.00063}_{-0.00063}$	$\chi^2_{6\mathrm{DF}}$	$0.055\ (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.53^{+0.14}_{-0.14}$	$100\theta_{\mathrm{eq}}$	$0.851^{+0.044}_{-0.039}$	χ^2_{MGS}	$1.73\ (\nu: 0.2)$
z_{re}	$7.71^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.469^{+0.023}_{-0.020}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.3\ (\nu: 1.0)$
10^9A_{s}	$2.45^{+0.56}_{-0.46}$	$H(0.15)$	$72.4^{+1.9}_{-1.9}$	χ^2_{prior}	$3.0\ (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.19^{+0.50}_{-0.41}$	$D_{\mathrm{M}}(0.15)$	646^{+19}_{-18}	χ^2_{BAO}	$6.1\ (\nu: 0.9)$
D_{40}	1469^{+300}_{-300}	$H(0.38)$	$82.3^{+1.7}_{-1.7}$		
D_{220}	6952^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1541^{+40}_{-39}		

$\bar{\chi}^2_{\mathrm{eff}} = 20.91$; $R - 1 = 0.00288$

6.122 base_mnu_lensing_lenspriors_BAO_theta_post_Apr6

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2893^{+700}_{-500}	$H(0.51)$	$89.1^{+1.5}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1139^{+0.0074}_{-0.0090}$	D_{1420}	925^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	1991^{+49}_{-45}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	260^{+70}_{-50}	$H(0.61)$	$94.7^{+1.5}_{-1.7}$
Σm_{ν} [eV]	< 0.700	$n_{\mathrm{s},0.002}$	$0.963^{+0.049}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2318^{+55}_{-50}
$\ln(10^{10}A_{\mathrm{s}})$	$3.17^{+0.21}_{-0.17}$	Y_{P}	$0.24530^{+0.00053}_{-0.00054}$	$H(2.33)$	$233.6^{+4.2}_{-4.3}$
n_{s}	$0.963^{+0.049}_{-0.051}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00053}_{-0.00054}$	$D_{\mathrm{M}}(2.33)$	5807^{+100}_{-85}
H_0	$67.4^{+2.0}_{-2.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	$0.443^{+0.030}_{-0.035}$
Ω_{Λ}	$0.694^{+0.022}_{-0.023}$	Age/Gyr	$13.90^{+0.24}_{-0.20}$	$\sigma_8(0.15)$	$0.728^{+0.051}_{-0.064}$
Ω_{m}	$0.306^{+0.023}_{-0.022}$	z_{*}	$1089.7^{+1.7}_{-1.6}$	$f\sigma_8(0.38)$	$0.463^{+0.029}_{-0.035}$
$\Omega_{\mathrm{m}}h^2$	$0.1391^{+0.0055}_{-0.0055}$	r_{*}	$146.1^{+2.6}_{-2.2}$	$\sigma_8(0.38)$	$0.647^{+0.046}_{-0.057}$
$\Omega_{\nu}h^2$	< 0.00753	$100\theta_{*}$	$1.0412^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	$0.462^{+0.029}_{-0.035}$
$\Omega_{\mathrm{m}}h^3$	$0.0938^{+0.0040}_{-0.0047}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.03^{+0.25}_{-0.22}$	$\sigma_8(0.51)$	$0.606^{+0.043}_{-0.053}$
σ_8	$0.787^{+0.055}_{-0.069}$	z_{drag}	$1059.1^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	$0.458^{+0.029}_{-0.035}$
S_8	$0.795^{+0.060}_{-0.069}$	r_{drag}	$148.9^{+2.9}_{-2.6}$	$\sigma_8(0.61)$	$0.577^{+0.041}_{-0.050}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.436^{+0.033}_{-0.038}$	k_{D}	$0.1389^{+0.0034}_{-0.0035}$	$f\sigma_8(2.33)$	$0.294^{+0.018}_{-0.022}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.586^{+0.041}_{-0.050}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.302^{+0.021}_{-0.025}$
$\sigma_8/h^{0.5}$	$0.959^{+0.064}_{-0.078}$	z_{eq}	3252^{+180}_{-220}	$\chi^2_{\mathrm{lensing}}$	$8.0 (\nu: 1.6)$
$r_{\mathrm{drag}}h$	$100.3^{+3.0}_{-2.8}$	k_{eq}	$0.00993^{+0.00056}_{-0.00067}$	$\chi^2_{6\mathrm{DF}}$	$0.056 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.52^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	$0.841^{+0.046}_{-0.034}$	χ^2_{MGS}	$1.71 (\nu: 0.2)$
z_{re}	$7.73^{+0.29}_{-0.27}$	$100\theta_{\mathrm{s,eq}}$	$0.464^{+0.024}_{-0.018}$	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.0)$
10^9A_{s}	$2.38^{+0.56}_{-0.39}$	$H(0.15)$	$72.6^{+1.9}_{-1.9}$	χ^2_{prior}	$2.9 (\nu: 2.8)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$2.13^{+0.50}_{-0.35}$	$D_{\mathrm{M}}(0.15)$	644^{+19}_{-17}	χ^2_{BAO}	$6.1 (\nu: 1.0)$
D_{40}	1416^{+300}_{-200}	$H(0.38)$	$82.5^{+1.6}_{-1.8}$		
D_{220}	6672^{+2000}_{-1000}	$D_{\mathrm{M}}(0.38)$	1536^{+40}_{-37}		

$\bar{\chi}^2_{\mathrm{eff}} = 17.02$; $R - 1 = 0.00149$

6.123 base_mnu_lensing_lenspriors_pttagr2

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	D_{40}	2016	1359^{+1000}_{-700}	$H(0.15)$	92.8	76^{+30}_{-30}
$\Omega_c h^2$	0.105	$0.143^{+0.077}_{-0.068}$	D_{220}	9220	6093^{+5000}_{-4000}	$D_M(0.15)$	495	658^{+300}_{-200}
$100\theta_{MC}$	1.096	$1.09^{+0.15}_{-0.17}$	D_{810}	3677	2457^{+2000}_{-2000}	$H(0.38)$	100.3	89^{+30}_{-30}
Σm_ν [eV]	0.45	—	D_{1420}	1066	733^{+600}_{-500}	$D_M(0.38)$	1211	1529^{+700}_{-500}
$\ln(10^{10} A_s)$	3.458	$3.15^{+0.46}_{-0.50}$	D_{2000}	305	221^{+300}_{-200}	$H(0.51)$	105.5	97^{+30}_{-30}
n_s	0.9609	$0.959^{+0.046}_{-0.053}$	$n_{s,0.002}$	0.9609	$0.959^{+0.046}_{-0.053}$	$D_M(0.51)$	1590	1959^{+900}_{-600}
H_0	89.0	—	Y_P	0.24533	$0.24531^{+0.00054}_{-0.00058}$	$H(0.61)$	110.0	104^{+30}_{-30}
Ω_Λ	0.83	$0.52^{+0.39}_{-0.93}$	Y_P^{BBN}	0.24665	$0.24664^{+0.00054}_{-0.00058}$	$D_M(0.61)$	1869	2264^{+1000}_{-700}
Ω_m	0.17	$0.48^{+0.93}_{-0.39}$	$10^5 D/H$	2.617	$2.62^{+0.27}_{-0.23}$	$H(2.33)$	235	267^{+70}_{-70}
$\Omega_m h^2$	0.132	$0.187^{+0.10}_{-0.089}$	Age/Gyr	12.40	$13.0^{+4.8}_{-3.5}$	$D_M(2.33)$	5134	5411^{+2000}_{-1000}
$\Omega_\nu h^2$	0.0048	< 0.0520	z_*	1088.8	$1092.9^{+7.5}_{-6.7}$	$f\sigma_8(0.15)$	0.362	$0.427^{+0.068}_{-0.096}$
$\Omega_m h^3$	0.117	$0.129^{+0.13}_{-0.090}$	r_*	148.6	138^{+20}_{-20}	$\sigma_8(0.15)$	0.807	$0.63^{+0.24}_{-0.22}$
σ_8	0.853	$0.68^{+0.23}_{-0.21}$	$100\theta_*$	1.097	$1.09^{+0.15}_{-0.17}$	$f\sigma_8(0.38)$	0.413	$0.421^{+0.044}_{-0.064}$
S_8	0.635	$0.80^{+0.29}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.55	$12.7^{+4.1}_{-3.0}$	$\sigma_8(0.38)$	0.738	$0.55^{+0.25}_{-0.22}$
$\sigma_8 \Omega_m^{0.5}$	0.348	$0.44^{+0.16}_{-0.12}$	z_{drag}	1058.5	$1061.8^{+7.1}_{-7.1}$	$f\sigma_8(0.51)$	0.432	$0.412^{+0.052}_{-0.093}$
$\sigma_8 \Omega_m^{0.25}$	0.5445	$0.541^{+0.046}_{-0.048}$	r_{drag}	151.4	141^{+20}_{-20}	$\sigma_8(0.51)$	0.701	$0.51^{+0.24}_{-0.21}$
$\sigma_8/h^{0.5}$	0.904	$0.83^{+0.15}_{-0.12}$	k_D	0.1363	$0.149^{+0.023}_{-0.021}$	$f\sigma_8(0.61)$	0.441	$0.404^{+0.062}_{-0.11}$
$r_{\text{drag}} h$	134.7	97^{+50}_{-50}	$100\theta_D$	0.1701	$0.168^{+0.020}_{-0.024}$	$\sigma_8(0.61)$	0.674	$0.49^{+0.24}_{-0.22}$
$\langle d^2 \rangle^{1/2}$	2.627	$2.60^{+0.19}_{-0.18}$	z_{eq}	3030	3950^{+2000}_{-2000}	$f\sigma_8(2.33)$	0.355	$0.25^{+0.13}_{-0.12}$
z_{re}	7.71	$8.5^{+1.6}_{-1.6}$	k_{eq}	0.0093	$0.0121^{+0.0058}_{-0.0050}$	$\sigma_8(2.33)$	0.376	$0.26^{+0.16}_{-0.13}$
$10^9 A_s$	3.17	$2.38^{+1.3}_{-0.97}$	$100\theta_{\text{eq}}$	0.935	$0.79^{+0.22}_{-0.17}$	χ^2_{lensing}	15.5	$18.6 (\nu: 2.3)$
$10^9 A_s e^{-2\tau}$	2.84	$2.13^{+1.2}_{-0.87}$	$100\theta_{s,\text{eq}}$	0.514	$0.438^{+0.12}_{-0.089}$	χ^2_{prior}	0.00	$2.0 (\nu: 2.0)$

Best-fit $\chi^2_{\text{eff}} = 15.50$; $\bar{\chi}^2_{\text{eff}} = 20.55$; $R - 1 = 0.00794$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmarged: 15.50

6.124 base_mnu_lensing_lenspriors_pttagr2_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0012}$	D_{40}	1858	1373^{+900}_{-600}	$H(0.15)$	76.7	64^{+20}_{-10}
$\Omega_c h^2$	0.0991	$0.128^{+0.044}_{-0.044}$	D_{220}	8962	6521^{+5000}_{-3000}	$D_M(0.15)$	604	768^{+200}_{-200}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0016}_{-0.0015}$	D_{810}	3670	2894^{+2000}_{-1000}	$H(0.38)$	85.3	77^{+10}_{-6}
Σm_ν [eV]	0.36	< 3.26	D_{1420}	1155	935^{+500}_{-400}	$D_M(0.38)$	1458	1758^{+400}_{-400}
$\ln(10^{10} A_s)$	3.393	$3.15^{+0.46}_{-0.41}$	D_{2000}	322	264^{+100}_{-100}	$H(0.51)$	91.1	86^{+10}_{-4}
n_s	0.960	$0.959^{+0.050}_{-0.051}$	$n_{s,0.002}$	0.960	$0.959^{+0.050}_{-0.051}$	$D_M(0.51)$	1900	2238^{+400}_{-500}
H_0	72.4	< 81.0	Y_P	0.24533	$0.24532^{+0.00056}_{-0.00053}$	$H(0.61)$	96.0	$92.6^{+8.3}_{-3.0}$
Ω_Λ	0.76	$0.38^{+0.48}_{-0.75}$	Y_P^{BBN}	0.24665	$0.24664^{+0.00056}_{-0.00053}$	$D_M(0.61)$	2221	2574^{+400}_{-500}
Ω_m	0.24	$0.62^{+0.74}_{-0.48}$	$10^5 D/H$	2.617	$2.62^{+0.25}_{-0.23}$	$H(2.33)$	224.1	250^{+40}_{-40}
$\Omega_m h^2$	0.125	$0.166^{+0.057}_{-0.058}$	Age/Gyr	13.86	$14.30^{+0.46}_{-0.76}$	$D_M(2.33)$	5776	5957^{+180}_{-350}
$\Omega_\nu h^2$	0.0039	< 0.0350	z_*	1088.28	$1091.4^{+4.8}_{-5.0}$	$f\sigma_8(0.15)$	0.398	$0.443^{+0.053}_{-0.099}$
$\Omega_m h^3$	0.09058	$0.0902^{+0.0047}_{-0.0044}$	r_*	150.3	142^{+13}_{-12}	$\sigma_8(0.15)$	0.736	$0.58^{+0.23}_{-0.18}$
σ_8	0.788	$0.64^{+0.22}_{-0.17}$	$100\theta_*$	1.04129	$1.0414^{+0.0017}_{-0.0015}$	$f\sigma_8(0.38)$	0.432	$0.417^{+0.049}_{-0.058}$
S_8	0.703	$0.85^{+0.22}_{-0.25}$	$D_M(z_*)/\text{Gpc}$	14.43	$13.6^{+1.3}_{-1.1}$	$\sigma_8(0.38)$	0.662	$0.51^{+0.23}_{-0.18}$
$\sigma_8 \Omega_m^{0.5}$	0.385	$0.47^{+0.12}_{-0.14}$	z_{drag}	1058.0	$1060.6^{+5.1}_{-5.5}$	$f\sigma_8(0.51)$	0.440	$0.401^{+0.065}_{-0.078}$
$\sigma_8 \Omega_m^{0.25}$	0.5508	$0.542^{+0.047}_{-0.042}$	r_{drag}	153.1	145^{+14}_{-12}	$\sigma_8(0.51)$	0.624	$0.47^{+0.23}_{-0.17}$
$\sigma_8/h^{0.5}$	0.926	$0.86^{+0.13}_{-0.11}$	k_D	0.1346	$0.144^{+0.014}_{-0.015}$	$f\sigma_8(0.61)$	0.441	$0.388^{+0.076}_{-0.088}$
$r_{\text{drag}} h$	110.8	82^{+50}_{-30}	$100\theta_D$	0.16171	$0.1602^{+0.0032}_{-0.0029}$	$\sigma_8(0.61)$	0.596	$0.45^{+0.23}_{-0.16}$
$\langle d^2 \rangle^{1/2}$	2.632	$2.62^{+0.16}_{-0.16}$	z_{eq}	2898	3581^{+1000}_{-1000}	$f\sigma_8(2.33)$	0.309	$0.227^{+0.12}_{-0.090}$
z_{re}	7.49	$8.10^{+0.92}_{-0.96}$	k_{eq}	0.00885	$0.0110^{+0.0033}_{-0.0032}$	$\sigma_8(2.33)$	0.320	$0.229^{+0.14}_{-0.095}$
$10^9 A_s$	2.97	$2.39^{+1.3}_{-0.88}$	$100\theta_{\text{eq}}$	0.918	$0.80^{+0.21}_{-0.15}$	χ^2_{lensing}	15.72	$18.3 (\nu: 2.1)$
$10^9 A_s e^{-2\tau}$	2.66	$2.14^{+1.1}_{-0.79}$	$100\theta_{s,\text{eq}}$	0.504	$0.442^{+0.11}_{-0.080}$	χ^2_{prior}	0.0	$3.0 (\nu: 3.0)$

Best-fit $\chi^2_{\text{eff}} = 15.72$; $\bar{\chi}^2_{\text{eff}} = 21.22$; $R - 1 = 0.00948$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmargd: 15.72

6.125 base_mnu_lensing_lenspriors_pttagr2_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.0222^{+0.0012}_{-0.0013}$	D_{810}	2869	2561^{+1000}_{-1000}	$H(0.51)$	94.3	97^{+10}_{-10}
$\Omega_c h^2$	0.133	$0.144^{+0.059}_{-0.048}$	D_{1420}	869	750^{+500}_{-400}	$D_M(0.51)$	1918	1882^{+180}_{-190}
$100\theta_{MC}$	1.089	$1.103^{+0.074}_{-0.086}$	D_{2000}	253	216^{+100}_{-100}	$H(0.61)$	100.7	104^{+20}_{-10}
Σm_ν [eV]	1.50	$1.9^{+2.5}_{-1.8}$	$n_{s,0.002}$	0.960	$0.959^{+0.050}_{-0.052}$	$D_M(0.61)$	2225	2182^{+220}_{-230}
$\ln(10^{10} A_s)$	3.224	$3.16^{+0.29}_{-0.31}$	Y_P	0.24532	$0.24532^{+0.00053}_{-0.00055}$	$H(2.33)$	257	267^{+50}_{-50}
n_s	0.960	$0.959^{+0.050}_{-0.052}$	Y_P^{BBN}	0.24664	$0.24664^{+0.00053}_{-0.00055}$	$D_M(2.33)$	5438	5300^{+800}_{-700}
H_0	68.6	$69.6^{+5.5}_{-4.5}$	$10^5 D/H$	2.622	$2.62^{+0.25}_{-0.22}$	$f\sigma_8(0.15)$	0.4292	$0.431^{+0.039}_{-0.038}$
Ω_Λ	0.637	$0.62^{+0.11}_{-0.11}$	Age/Gyr	13.01	$12.7^{+1.9}_{-1.7}$	$\sigma_8(0.15)$	0.645	$0.635^{+0.094}_{-0.076}$
Ω_m	0.363	$0.38^{+0.11}_{-0.11}$	z_*	1091.9	$1093.0^{+6.1}_{-5.1}$	$f\sigma_8(0.38)$	0.4364	$0.434^{+0.036}_{-0.038}$
$\Omega_m h^2$	0.171	$0.187^{+0.084}_{-0.065}$	r_*	140.4	138^{+14}_{-14}	$\sigma_8(0.38)$	0.568	$0.559^{+0.090}_{-0.072}$
$\Omega_\nu h^2$	0.0161	$0.021^{+0.026}_{-0.020}$	$100\theta_*$	1.090	$1.104^{+0.074}_{-0.086}$	$f\sigma_8(0.51)$	0.4308	$0.427^{+0.039}_{-0.040}$
$\Omega_m h^3$	0.117	$0.130^{+0.072}_{-0.051}$	$D_M(z_*)/\text{Gpc}$	12.89	$12.5^{+2.4}_{-2.0}$	$\sigma_8(0.51)$	0.531	$0.521^{+0.088}_{-0.069}$
σ_8	0.701	$0.693^{+0.094}_{-0.078}$	z_{drag}	1060.9	$1061.9^{+5.5}_{-5.5}$	$f\sigma_8(0.61)$	0.4236	$0.419^{+0.041}_{-0.042}$
S_8	0.771	$0.779^{+0.081}_{-0.078}$	r_{drag}	143.1	140^{+14}_{-14}	$\sigma_8(0.61)$	0.504	$0.495^{+0.085}_{-0.067}$
$\sigma_8 \Omega_m^{0.5}$	0.4224	$0.427^{+0.044}_{-0.043}$	k_D	0.1456	$0.149^{+0.018}_{-0.016}$	$f\sigma_8(2.33)$	0.2618	$0.256^{+0.042}_{-0.038}$
$\sigma_8 \Omega_m^{0.25}$	0.5443	$0.544^{+0.047}_{-0.047}$	$100\theta_D$	0.1675	$0.1692^{+0.0096}_{-0.011}$	$\sigma_8(2.33)$	0.2627	$0.257^{+0.049}_{-0.039}$
$\sigma_8/h^{0.5}$	0.847	$0.83^{+0.13}_{-0.11}$	z_{eq}	3698	3964^{+1000}_{-1000}	χ^2_{lensing}	16.0	$18.4 (\nu: 2.1)$
$r_{\text{drag}} h$	98.21	$97.5^{+5.1}_{-4.6}$	k_{eq}	0.01134	$0.0122^{+0.0045}_{-0.0036}$	$\chi^2_{6\text{DF}}$	0.14	$0.35 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	2.621	$2.60^{+0.17}_{-0.16}$	$100\theta_{\text{eq}}$	0.804	$0.78^{+0.14}_{-0.11}$	χ^2_{MGS}	0.82	$0.79 (\nu: 0.2)$
z_{re}	8.29	$8.5^{+1.2}_{-1.2}$	$100\theta_{s,\text{eq}}$	0.446	$0.435^{+0.070}_{-0.058}$	χ^2_{DR12BAO}	2.09	$3.6 (\nu: 1.2)$
$10^9 A_s$	2.51	$2.38^{+0.78}_{-0.64}$	$H(0.15)$	74.9	$76.2^{+7.6}_{-6.1}$	χ^2_{prior}	0.00	$2.0 (\nu: 1.9)$
$10^9 A_s e^{-2\tau}$	2.25	$2.13^{+0.70}_{-0.58}$	$D_M(0.15)$	628.0	619^{+47}_{-51}	χ^2_{BAO}	3.05	$4.7 (\nu: 1.4)$
D_{40}	1429	1340^{+500}_{-400}	$H(0.38)$	86.6	89^{+10}_{-9}			
D_{220}	6538	5992^{+3000}_{-3000}	$D_M(0.38)$	1486	1460^{+130}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 19.07$; $\bar{\chi}^2_{\text{eff}} = 25.07$; $R - 1 = 0.00956$

χ^2_{eff} : BAO - 6DF: 0.14 MGS: 0.82 DR12BAO: 2.10 CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmargd: 16.01

6.126 base_mnu_lensing_lenspriors_pttagr2_BAO_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.0222^{+0.0013}_{-0.0012}$	D_{810}	3439	3410^{+800}_{-800}	$H(0.51)$	88.14	$88.2^{+1.9}_{-1.6}$
$\Omega_c h^2$	0.1069	$0.107^{+0.010}_{-0.0083}$	D_{1420}	1092	1083^{+300}_{-300}	$D_M(0.51)$	2013	2013^{+49}_{-51}
$100\theta_{MC}$	1.04088	$1.0409^{+0.0016}_{-0.0016}$	D_{2000}	306	304^{+80}_{-80}	$H(0.61)$	93.61	$93.7^{+1.9}_{-1.6}$
Σm_ν [eV]	0.639	$0.62^{+0.44}_{-0.51}$	$n_{s,0.002}$	0.959	$0.959^{+0.051}_{-0.052}$	$D_M(0.61)$	2343	2343^{+55}_{-58}
$\ln(10^{10} A_s)$	3.334	$3.32^{+0.20}_{-0.26}$	Y_P	0.24532	$0.24531^{+0.00054}_{-0.00053}$	$H(2.33)$	230.95	$231.2^{+4.6}_{-3.9}$
n_s	0.959	$0.959^{+0.051}_{-0.052}$	Y_P^{BBN}	0.24665	$0.24663^{+0.00054}_{-0.00053}$	$D_M(2.33)$	5871	5868^{+99}_{-120}
H_0	66.67	$66.7^{+2.2}_{-2.0}$	$10^5 D/H$	2.620	$2.62^{+0.25}_{-0.23}$	$f\sigma_8(0.15)$	0.4197	$0.420^{+0.033}_{-0.034}$
Ω_Λ	0.6940	$0.693^{+0.023}_{-0.024}$	Age/Gyr	14.058	$14.05^{+0.24}_{-0.27}$	$\sigma_8(0.15)$	0.685	$0.686^{+0.061}_{-0.061}$
Ω_m	0.3060	$0.307^{+0.024}_{-0.023}$	z_*	1089.14	$1089.2^{+1.7}_{-1.5}$	$f\sigma_8(0.38)$	0.4389	$0.439^{+0.033}_{-0.035}$
$\Omega_m h^2$	0.1360	$0.1363^{+0.0057}_{-0.0050}$	r_*	147.83	$147.7^{+2.3}_{-2.8}$	$\sigma_8(0.38)$	0.609	$0.610^{+0.054}_{-0.054}$
$\Omega_\nu h^2$	0.0069	$0.0067^{+0.0048}_{-0.0055}$	$100\theta_*$	1.04136	$1.0414^{+0.0016}_{-0.0016}$	$f\sigma_8(0.51)$	0.4388	$0.439^{+0.033}_{-0.035}$
$\Omega_m h^3$	0.09068	$0.0909^{+0.0053}_{-0.0041}$	$D_M(z_*)/\text{Gpc}$	14.196	$14.19^{+0.22}_{-0.27}$	$\sigma_8(0.51)$	0.571	$0.571^{+0.051}_{-0.051}$
σ_8	0.740	$0.741^{+0.065}_{-0.065}$	z_{drag}	1058.67	$1058.7^{+3.0}_{-3.1}$	$f\sigma_8(0.61)$	0.4350	$0.435^{+0.032}_{-0.035}$
S_8	0.748	$0.749^{+0.066}_{-0.063}$	r_{drag}	150.63	$150.5^{+2.7}_{-3.1}$	$\sigma_8(0.61)$	0.5440	$0.544^{+0.048}_{-0.049}$
$\sigma_8 \Omega_m^{0.5}$	0.4095	$0.410^{+0.036}_{-0.035}$	k_D	0.13721	$0.1373^{+0.0036}_{-0.0033}$	$f\sigma_8(2.33)$	0.2820	$0.282^{+0.021}_{-0.023}$
$\sigma_8 \Omega_m^{0.25}$	0.5506	$0.551^{+0.047}_{-0.047}$	$100\theta_D$	0.16129	$0.1613^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	0.2867	$0.287^{+0.024}_{-0.025}$
$\sigma_8/h^{0.5}$	0.907	$0.908^{+0.071}_{-0.073}$	z_{eq}	3086	3096^{+250}_{-200}	χ^2_{lensing}	15.79	$17.8 (\nu: 1.9)$
$r_{\text{drag}} h$	100.43	$100.4^{+3.1}_{-2.9}$	k_{eq}	0.00943	$0.00946^{+0.00076}_{-0.00060}$	$\chi^2_{6\text{DF}}$	0.000	$0.055 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	2.637	$2.63^{+0.16}_{-0.17}$	$100\theta_{\text{eq}}$	0.8758	$0.874^{+0.046}_{-0.051}$	χ^2_{MGS}	1.68	$1.71 (\nu: 0.2)$
z_{re}	7.661	$7.67^{+0.29}_{-0.28}$	$100\theta_{s,\text{eq}}$	0.4821	$0.481^{+0.024}_{-0.027}$	χ^2_{DR12BAO}	3.40	$4.3 (\nu: 1.0)$
$10^9 A_s$	2.81	$2.78^{+0.61}_{-0.64}$	$H(0.15)$	71.79	$71.8^{+2.0}_{-1.9}$	χ^2_{prior}	0.0	$3.0 (\nu: 2.9)$
$10^9 A_s e^{-2\tau}$	2.51	$2.49^{+0.55}_{-0.58}$	$D_M(0.15)$	650.6	651^{+19}_{-19}	χ^2_{BAO}	5.08	$6.1 (\nu: 1.0)$
D_{40}	1694	1677^{+300}_{-300}	$H(0.38)$	81.61	$81.6^{+1.9}_{-1.7}$			
D_{220}	8161	8082^{+2000}_{-2000}	$D_M(0.38)$	1553.1	1553^{+40}_{-42}			

Best-fit $\chi^2_{\text{eff}} = 20.88$; $\bar{\chi}^2_{\text{eff}} = 26.80$; $R - 1 = 0.01217$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.40 CMB - smicadx12_Dec5_ftl_mv2_ndclpttptt_p_teb_agr2_CMBmarged: 15.79

6.127 base_mnu_lensing_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_m	0.311	$0.32^{+0.20}_{-0.14}$	$\Omega_b h^2$	0.0250	$0.026^{+0.026}_{-0.016}$	S_8	0.802	$0.80^{+0.14}_{-0.14}$
Ω_b	0.0540	—	$\Omega_c h^2$	0.114	$0.126^{+0.071}_{-0.048}$	$\sigma_8 \Omega_m^{0.5}$	0.439	$0.440^{+0.077}_{-0.076}$
H_0	68.1	—	Ω_Λ	0.689	$0.68^{+0.14}_{-0.20}$	$\sigma_8 \Omega_m^{0.25}$	0.588	$0.586^{+0.052}_{-0.052}$
Σm_ν [eV]	0.513	—	$\Omega_\nu h^2$	0.0055	$0.0058^{+0.0050}_{-0.0052}$	χ^2_{lensing}	7.2	$9.5 (\nu: 2.0)$
$10^9 A_s$	2.68	$2.42^{+1.2}_{-0.86}$	$\ln(10^{10} A_s)$	3.287	$3.17^{+0.42}_{-0.42}$			
n_s	1.017	—	σ_8	0.787	$0.78^{+0.12}_{-0.11}$			

Best-fit $\chi^2_{\text{eff}} = 7.25$; $\bar{\chi}^2_{\text{eff}} = 9.49$; $R - 1 = 0.00994$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.25

6.128 base_mnu_lensing_DESpriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.362	$0.334^{+0.083}_{-0.066}$	$\Omega_{\text{c}}h^2$	0.135	$0.133^{+0.068}_{-0.053}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.583	$0.588^{+0.051}_{-0.050}$
Ω_{b}	0.0445	—	Ω_{Λ}	0.638	$0.666^{+0.066}_{-0.083}$	χ^2_{lensing}	7.59	9.6 (ν : 2.0)
H_0	67.8	70^{+20}_{-10}	$\Omega_{\nu}h^2$	0.0107	$0.0067^{+0.0042}_{-0.0059}$	$\chi^2_{6\text{DF}}$	0.139	0.12 (ν : 0.0)
Σm_{ν} [eV]	0.996	—	$\ln(10^{10}A_{\text{s}})$	3.125	$3.12^{+0.45}_{-0.39}$	χ^2_{MGS}	0.82	1.34 (ν : 0.3)
$10^9 A_{\text{s}}$	2.28	$2.29^{+1.2}_{-0.76}$	σ_8	0.752	$0.775^{+0.076}_{-0.073}$	χ^2_{DR12BAO}	2.11	3.7 (ν : 1.2)
n_{s}	0.972	—	S_8	0.825	$0.816^{+0.094}_{-0.090}$	χ^2_{BAO}	3.07	5.2 (ν : 1.6)
$\Omega_{\text{b}}h^2$	0.0205	$0.024^{+0.028}_{-0.015}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.452	$0.447^{+0.051}_{-0.049}$			

Best-fit $\chi^2_{\text{eff}} = 10.66$; $\bar{\chi}^2_{\text{eff}} = 14.70$; $R - 1 = 0.01029$

χ^2_{eff} : BAO - 6DF: 0.14 MGS: 0.82 DR12BAO: 2.11 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.59

6.129 base_mnu_lensing_DESpriors_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.287	$0.34^{+0.20}_{-0.18}$	$\Omega_{\text{b}}h^2$	0.02219	$0.0222^{+0.0013}_{-0.0013}$	S_8	0.788	$0.81^{+0.15}_{-0.15}$
Ω_{b}	0.0478	—	$\Omega_{\text{c}}h^2$	0.1069	$0.121^{+0.052}_{-0.037}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.432	$0.443^{+0.080}_{-0.082}$
H_0	68.2	68^{+20}_{-10}	Ω_{Λ}	0.713	$0.66^{+0.18}_{-0.21}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.590	$0.586^{+0.053}_{-0.050}$
Σm_{ν} [eV]	0.412	—	$\Omega_{\nu}h^2$	0.0044	$0.0057^{+0.0050}_{-0.0051}$	χ^2_{lensing}	7.3	9.4 (ν : 1.9)
$10^9 A_{\text{s}}$	2.78	$2.47^{+1.1}_{-0.94}$	$\ln(10^{10}A_{\text{s}})$	3.326	$3.19^{+0.40}_{-0.42}$	χ^2_{prior}	0.00	1.0 (ν : 1.0)
n_{s}	1.021	—	σ_8	0.805	$0.78^{+0.15}_{-0.11}$			

Best-fit $\chi^2_{\text{eff}} = 7.26$; $\bar{\chi}^2_{\text{eff}} = 10.46$; $R - 1 = 0.00663$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.26

6.130 base_mnu_lensing_DESpriors_CookeDH_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.364	$0.336^{+0.068}_{-0.069}$	$\Omega_{\text{c}}h^2$	0.1457	$0.129^{+0.047}_{-0.038}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.581	$0.588^{+0.051}_{-0.049}$
Ω_{b}	0.0455	$0.0473^{+0.0052}_{-0.0056}$	Ω_{Λ}	0.636	$0.664^{+0.069}_{-0.068}$	χ^2_{lensing}	7.65	9.5 (ν : 2.0)
H_0	69.83	$68.5^{+4.4}_{-3.6}$	$\Omega_{\nu}h^2$	0.0098	$0.0067^{+0.0042}_{-0.0060}$	$\chi^2_{6\text{DF}}$	0.141	0.12 (ν : 0.0)
Σm_{ν} [eV]	0.908	—	$\ln(10^{10}A_{\text{s}})$	3.015	$3.12^{+0.38}_{-0.36}$	χ^2_{MGS}	0.82	1.30 (ν : 0.3)
$10^9 A_{\text{s}}$	2.04	$2.30^{+1.0}_{-0.71}$	σ_8	0.747	$0.773^{+0.075}_{-0.064}$	χ^2_{DR12BAO}	2.08	3.6 (ν : 1.2)
n_{s}	0.920	—	S_8	0.823	$0.817^{+0.094}_{-0.085}$	χ^2_{prior}	0.00	1.0 (ν : 1.0)
$\Omega_{\text{b}}h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4510	$0.447^{+0.051}_{-0.047}$	χ^2_{BAO}	3.04	5.0 (ν : 1.6)

Best-fit $\chi^2_{\text{eff}} = 10.69$; $\bar{\chi}^2_{\text{eff}} = 15.50$; $R - 1 = 0.01121$

χ^2_{eff} : BAO - 6DF: 0.14 MGS: 0.82 DR12BAO: 2.08 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.65

6.131 base_mnu_DES_lensprior

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_m h^2$	0.137	$0.169^{+0.087}_{-0.059}$	k_D	0.1381	$0.145^{+0.020}_{-0.014}$
$\Omega_c h^2$	0.110	$0.135^{+0.070}_{-0.045}$	$\Omega_\nu h^2$	0.0046	< 0.0316	$100\theta_D$	0.1631	$0.170^{+0.018}_{-0.016}$
$100\theta_{MC}$	1.053	$1.10^{+0.12}_{-0.12}$	$\Omega_m h^3$	0.098	$0.133^{+0.11}_{-0.069}$	z_{eq}	3171	3766^{+2000}_{-1000}
Σm_ν [eV]	0.42	< 2.94	σ_8	0.831	$0.81^{+0.24}_{-0.20}$	k_{eq}	0.00968	$0.0115^{+0.0050}_{-0.0035}$
$\ln(10^{10} A_s)$	3.372	$3.22^{+0.41}_{-0.45}$	S_8	0.787	$0.777^{+0.066}_{-0.064}$	$100\theta_{eq}$	0.868	$0.81^{+0.12}_{-0.12}$
n_s	0.963	$0.962^{+0.052}_{-0.052}$	$\sigma_8 \Omega_m^{0.5}$	0.4311	$0.426^{+0.036}_{-0.035}$	$100\theta_{s,eq}$	0.478	$0.449^{+0.062}_{-0.064}$
b_{DES}^1	1.411	$1.47^{+0.55}_{-0.40}$	$\sigma_8 \Omega_m^{0.25}$	0.599	$0.586^{+0.10}_{-0.095}$	$H(0.15)$	76.3	83^{+20}_{-20}
b_{DES}^2	1.615	$1.68^{+0.55}_{-0.41}$	$\sigma_8/h^{0.5}$	0.983	$0.92^{+0.19}_{-0.16}$	$D_M(0.15)$	610	570^{+200}_{-100}
b_{DES}^3	1.597	$1.66^{+0.54}_{-0.40}$	$r_{drag} h$	107.0	110^{+30}_{-30}	$H(0.38)$	85.7	93^{+20}_{-20}
b_{DES}^4	1.93	$2.00^{+0.63}_{-0.47}$	$\langle d^2 \rangle^{1/2}$	2.695	$2.60^{+0.41}_{-0.39}$	$D_M(0.38)$	1465	1365^{+400}_{-300}
b_{DES}^5	1.99	$2.06^{+0.66}_{-0.51}$	z_{re}	7.71	$8.3^{+1.5}_{-1.1}$	$H(0.51)$	92.0	100^{+30}_{-20}
m_{DES}^1	0.013	$0.012^{+0.059}_{-0.059}$	$10^9 A_s$	2.91	$2.55^{+1.2}_{-0.94}$	$D_M(0.51)$	1904	1772^{+500}_{-400}
m_{DES}^2	0.015	$0.015^{+0.058}_{-0.058}$	$10^9 A_s e^{-2\tau}$	2.61	$2.28^{+1.1}_{-0.85}$	$H(0.61)$	97.3	106^{+30}_{-20}
m_{DES}^3	0.007	$0.009^{+0.055}_{-0.054}$	D_{40}	1760	1484^{+800}_{-600}	$D_M(0.61)$	2221	2066^{+600}_{-500}
m_{DES}^4	0.009	$0.011^{+0.055}_{-0.054}$	D_{220}	8295	6603^{+4000}_{-3000}	$H(2.33)$	233	257^{+60}_{-50}
$A_{IA,DES}$	0.48	$0.46^{+0.57}_{-0.45}$	D_{810}	3548	2687^{+2000}_{-2000}	$D_M(2.33)$	5674	5236^{+1000}_{-1000}
$\alpha_{IA,DES}$	-1.4	—	D_{1420}	1124	790^{+600}_{-500}	$f\sigma_8(0.15)$	0.4431	$0.437^{+0.041}_{-0.043}$
$\Delta z_{l,DES}^1$	0.0040	$0.004^{+0.019}_{-0.019}$	D_{2000}	318	228^{+200}_{-100}	$\sigma_8(0.15)$	0.773	$0.75^{+0.23}_{-0.20}$
$\Delta z_{l,DES}^2$	0.0018	$0.002^{+0.017}_{-0.017}$	$n_{s,0.002}$	0.963	$0.962^{+0.052}_{-0.052}$	$f\sigma_8(0.38)$	0.473	$0.464^{+0.067}_{-0.072}$
$\Delta z_{l,DES}^3$	0.0043	$0.004^{+0.017}_{-0.017}$	Y_P	0.24533	$0.24531^{+0.00055}_{-0.00057}$	$\sigma_8(0.38)$	0.691	$0.67^{+0.22}_{-0.19}$
$\Delta z_{l,DES}^4$	0.0029	$0.002^{+0.024}_{-0.023}$	Y_P^{BBN}	0.24666	$0.24664^{+0.00055}_{-0.00057}$	$f\sigma_8(0.51)$	0.477	$0.467^{+0.081}_{-0.085}$
$\Delta z_{l,DES}^5$	0.0010	$0.001^{+0.026}_{-0.026}$	$10^5 D/H$	2.616	$2.62^{+0.27}_{-0.23}$	$\sigma_8(0.51)$	0.650	$0.63^{+0.22}_{-0.18}$
$\Delta z_{s,DES}^1$	-0.0013	$-0.004^{+0.036}_{-0.036}$	Age/Gyr	13.60	$12.5^{+2.9}_{-2.8}$	$f\sigma_8(0.61)$	0.476	$0.465^{+0.090}_{-0.093}$
$\Delta z_{s,DES}^2$	-0.0286	$-0.030^{+0.027}_{-0.028}$	z_*	1089.3	$1091.8^{+7.0}_{-4.6}$	$\sigma_8(0.61)$	0.620	$0.60^{+0.21}_{-0.18}$
$\Delta z_{s,DES}^3$	0.0059	$0.007^{+0.026}_{-0.025}$	r_*	147.0	141^{+13}_{-16}	$f\sigma_8(2.33)$	0.320	$0.312^{+0.11}_{-0.095}$
$\Delta z_{s,DES}^4$	-0.0254	$-0.023^{+0.049}_{-0.047}$	$100\theta_*$	1.053	$1.10^{+0.12}_{-0.12}$	$\sigma_8(2.33)$	0.329	$0.32^{+0.13}_{-0.10}$
H_0	71.4	> 58.2	$D_M(z_*)/\text{Gpc}$	13.95	$12.8^{+2.7}_{-2.6}$	χ_{DES}^2	500.5	$513.5 (\nu: 13.5)$
Ω_Λ	0.731	$0.72^{+0.10}_{-0.16}$	z_{drag}	1058.9	$1060.8^{+5.9}_{-5.3}$	χ_{prior}^2	1.2	$14.3 (\nu: 13.7)$
Ω_m	0.269	$0.28^{+0.16}_{-0.10}$	r_{drag}	149.7	143^{+13}_{-16}			

Best-fit $\chi_{\text{eff}}^2 = 501.73$; $\bar{\chi}_{\text{eff}}^2 = 527.78$; $R - 1 = 0.00413$
 χ_{eff}^2 : WL - DES_1YR_final: 500.51

6.132 base_mnu_DESlens_lenspriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	1.006	$0.84^{+0.31}_{-0.26}$	$100\theta_{\mathrm{eq}}$	0.827	$0.70^{+0.24}_{-0.20}$
$\Omega_{\mathrm{c}}h^2$	0.121	$0.19^{+0.14}_{-0.11}$	$r_{\mathrm{drag}}h$	109.1	112^{+30}_{-40}	$100\theta_{\mathrm{s,eq}}$	0.457	$0.39^{+0.13}_{-0.10}$
$100\theta_{\mathrm{MC}}$	1.062	$1.16^{+0.11}_{-0.16}$	$\langle d^2 \rangle^{1/2}$	2.51	$2.27^{+1.0}_{-0.80}$	$H(0.15)$	79.1	92^{+20}_{-30}
Σm_{ν} [eV]	0.08	—	z_{re}	7.84	$9.2^{+2.1}_{-1.9}$	$D_{\mathrm{M}}(0.15)$	588	519^{+300}_{-90}
$\ln(10^{10}A_{\mathrm{s}})$	3.13	—	10^9A_{s}	2.29	$1.8^{+2.8}_{-1.4}$	$H(0.38)$	88.6	105^{+20}_{-30}
n_{s}	0.960	$0.961^{+0.052}_{-0.052}$	$10^9A_{\mathrm{s}}e^{-2\tau}$	2.05	$1.6^{+2.5}_{-1.2}$	$D_{\mathrm{M}}(0.38)$	1413	1235^{+600}_{-200}
m_{DES}^1	0.016	$0.013^{+0.058}_{-0.058}$	D_{40}	1372	1002^{+2000}_{-800}	$H(0.51)$	95.0	113^{+30}_{-40}
m_{DES}^2	0.013	$0.013^{+0.057}_{-0.057}$	D_{220}	6233	4059^{+9000}_{-4000}	$D_{\mathrm{M}}(0.51)$	1838	1598^{+700}_{-300}
m_{DES}^3	0.001	$0.003^{+0.056}_{-0.056}$	D_{810}	2740	1519^{+4000}_{-1000}	$H(0.61)$	100.4	120^{+30}_{-40}
m_{DES}^4	0.017	$0.018^{+0.056}_{-0.056}$	D_{1420}	866	429^{+1000}_{-400}	$D_{\mathrm{M}}(0.61)$	2145	1858^{+800}_{-400}
$A_{\mathrm{IA,DES}}$	1.33	$0.8^{+1.7}_{-4.9}$	D_{2000}	247	125^{+300}_{-100}	$H(2.33)$	239	298^{+100}_{-80}
$\alpha_{\mathrm{IA,DES}}$	3.4	—	$n_{\mathrm{s},0.002}$	0.960	$0.961^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(2.33)$	5504	4634^{+2000}_{-1000}
$\Delta z_{\mathrm{s,DES}}^1$	0.0032	$0.002^{+0.038}_{-0.039}$	Y_{P}	0.24533	$0.24531^{+0.00055}_{-0.00054}$	$f\sigma_8(0.15)$	0.452	$0.434^{+0.052}_{-0.080}$
$\Delta z_{\mathrm{s,DES}}^2$	-0.0192	$-0.021^{+0.031}_{-0.031}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24665	$0.24664^{+0.00056}_{-0.00054}$	$\sigma_8(0.15)$	0.807	$0.71^{+0.32}_{-0.31}$
$\Delta z_{\mathrm{s,DES}}^3$	0.0081	$0.008^{+0.028}_{-0.027}$	$10^5D/H$	2.617	$2.62^{+0.25}_{-0.23}$	$f\sigma_8(0.38)$	0.483	$0.451^{+0.088}_{-0.13}$
$\Delta z_{\mathrm{s,DES}}^4$	-0.017	$-0.016^{+0.053}_{-0.053}$	Age/Gyr	13.20	$11.1^{+4.0}_{-2.6}$	$\sigma_8(0.38)$	0.721	$0.63^{+0.31}_{-0.30}$
H_0	74.2	> 53.7	z_*	1090.2	$1096^{+11}_{-8.6}$	$f\sigma_8(0.51)$	0.488	$0.45^{+0.11}_{-0.15}$
Ω_{Λ}	0.739	$0.67^{+0.20}_{-0.37}$	r_*	144.4	130^{+20}_{-20}	$\sigma_8(0.51)$	0.678	$0.60^{+0.31}_{-0.28}$
Ω_{m}	0.261	$0.33^{+0.37}_{-0.20}$	$100\theta_*$	1.063	$1.16^{+0.11}_{-0.16}$	$f\sigma_8(0.61)$	0.488	$0.45^{+0.12}_{-0.16}$
$\Omega_{\mathrm{m}}h^2$	0.144	$0.23^{+0.17}_{-0.12}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.59	$11.2^{+3.8}_{-2.9}$	$\sigma_8(0.61)$	0.647	$0.57^{+0.30}_{-0.27}$
$\Omega_{\nu}h^2$	0.0008	< 0.0503	z_{drag}	1059.6	$1064.5^{+9.1}_{-8.1}$	$f\sigma_8(2.33)$	0.329	$0.29^{+0.16}_{-0.15}$
$\Omega_{\mathrm{m}}h^3$	0.107	$0.20^{+0.19}_{-0.13}$	r_{drag}	147.1	132^{+20}_{-20}	$\sigma_8(2.33)$	0.342	$0.30^{+0.19}_{-0.15}$
σ_8	0.867	$0.77^{+0.33}_{-0.32}$	k_{D}	0.1408	$0.159^{+0.032}_{-0.027}$	χ_{DES}^2	228.7	$233.8 (\nu: 4.3)$
S_8	0.809	$0.780^{+0.080}_{-0.12}$	$100\theta_{\mathrm{D}}$	0.1643	$0.178^{+0.017}_{-0.023}$	χ_{prior}^2	0.4	$9.5 (\nu: 9.0)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.443	$0.427^{+0.044}_{-0.066}$	z_{eq}	3417	5113^{+3000}_{-3000}			
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.620	$0.57^{+0.13}_{-0.15}$	k_{eq}	0.0104	$0.0157^{+0.011}_{-0.0078}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 229.04$; $\bar{\chi}_{\mathrm{eff}}^2 = 243.26$; $R - 1 = 0.00786$
 χ_{eff}^2 : WL - DES_1YR_final: 228.67

6.133 base_mnu_DES_lenspriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_{\mathrm{m}}h^2$	0.147	$0.170^{+0.090}_{-0.056}$	k_{D}	0.1405	$0.146^{+0.020}_{-0.014}$
$\Omega_{\mathrm{c}}h^2$	0.119	$0.137^{+0.069}_{-0.045}$	$\Omega_{\nu}h^2$	0.0058	< 0.0327	$100\theta_{\mathrm{D}}$	0.1645	$0.170^{+0.017}_{-0.014}$
$100\theta_{\mathrm{MC}}$	1.064	$1.10^{+0.12}_{-0.10}$	$\Omega_{\mathrm{m}}h^3$	0.105	$0.132^{+0.11}_{-0.063}$	z_{eq}	3371	3810^{+2000}_{-1000}
Σm_{ν} [eV]	0.54	< 3.04	σ_8	0.789	$0.786^{+0.10}_{-0.092}$	k_{eq}	0.01029	$0.0117^{+0.0052}_{-0.0033}$
$\ln(10^{10}A_{\mathrm{s}})$	3.222	$3.16^{+0.22}_{-0.27}$	S_8	0.7747	$0.772^{+0.040}_{-0.040}$	$100\theta_{\mathrm{eq}}$	0.838	$0.80^{+0.10}_{-0.12}$
n_{s}	0.964	$0.963^{+0.051}_{-0.050}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4243	$0.423^{+0.022}_{-0.022}$	$100\theta_{\mathrm{s,eq}}$	0.463	$0.445^{+0.052}_{-0.064}$
b_{DES}^1	1.500	$1.50^{+0.28}_{-0.27}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5786	$0.576^{+0.040}_{-0.038}$	$H(0.15)$	76.4	82^{+20}_{-20}
b_{DES}^2	1.713	$1.71^{+0.25}_{-0.23}$	$\sigma_8/h^{0.5}$	0.935	$0.90^{+0.10}_{-0.12}$	$D_{\mathrm{M}}(0.15)$	610	573^{+100}_{-100}
b_{DES}^3	1.696	$1.70^{+0.22}_{-0.21}$	$r_{\mathrm{drag}}h$	105.0	109^{+20}_{-20}	$H(0.38)$	86.4	93^{+20}_{-20}
b_{DES}^4	2.050	$2.04^{+0.26}_{-0.25}$	$\langle d^2 \rangle^{1/2}$	2.547	$2.52^{+0.13}_{-0.13}$	$D_{\mathrm{M}}(0.38)$	1460	1371^{+300}_{-300}
b_{DES}^5	2.122	$2.12^{+0.29}_{-0.28}$	z_{re}	7.88	$8.3^{+1.4}_{-1.1}$	$H(0.51)$	93.1	100^{+30}_{-20}
m_{DES}^1	0.013	$0.012^{+0.058}_{-0.059}$	$10^9 A_{\mathrm{s}}$	2.51	$2.36^{+0.56}_{-0.57}$	$D_{\mathrm{M}}(0.51)$	1894	1779^{+400}_{-400}
m_{DES}^2	0.016	$0.015^{+0.057}_{-0.057}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	2.25	$2.12^{+0.50}_{-0.51}$	$H(0.61)$	98.7	106^{+30}_{-20}
m_{DES}^3	0.0097	$0.010^{+0.054}_{-0.053}$	D_{40}	1482	1364^{+300}_{-400}	$D_{\mathrm{M}}(0.61)$	2207	2073^{+400}_{-400}
m_{DES}^4	0.011	$0.012^{+0.054}_{-0.054}$	D_{220}	6876	6065^{+2000}_{-3000}	$H(2.33)$	241	258^{+60}_{-40}
$A_{\mathrm{IA,DES}}$	0.452	$0.44^{+0.51}_{-0.44}$	D_{810}	3012	2521^{+1000}_{-2000}	$D_{\mathrm{M}}(2.33)$	5577	5237^{+1000}_{-1000}
$\alpha_{\mathrm{IA,DES}}$	-1.5	—	D_{1420}	952	744^{+400}_{-500}	$f\sigma_8(0.15)$	0.4352	$0.434^{+0.021}_{-0.021}$
$\Delta z_{\mathrm{l,DES}}^1$	0.0038	$0.004^{+0.019}_{-0.019}$	D_{2000}	272	214^{+100}_{-100}	$\sigma_8(0.15)$	0.732	$0.730^{+0.10}_{-0.091}$
$\Delta z_{\mathrm{l,DES}}^2$	0.0013	$0.002^{+0.017}_{-0.017}$	$n_{\mathrm{s},0.002}$	0.964	$0.963^{+0.051}_{-0.050}$	$f\sigma_8(0.38)$	0.4590	$0.458^{+0.027}_{-0.027}$
$\Delta z_{\mathrm{l,DES}}^3$	0.0041	$0.004^{+0.017}_{-0.017}$	Y_{P}	0.24533	$0.24531^{+0.00055}_{-0.00056}$	$\sigma_8(0.38)$	0.652	$0.650^{+0.097}_{-0.088}$
$\Delta z_{\mathrm{l,DES}}^4$	0.0022	$0.002^{+0.024}_{-0.024}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24666	$0.24664^{+0.00055}_{-0.00056}$	$f\sigma_8(0.51)$	0.4608	$0.459^{+0.033}_{-0.033}$
$\Delta z_{\mathrm{l,DES}}^5$	0.0007	$0.001^{+0.025}_{-0.025}$	$10^5 \mathrm{D}/\mathrm{H}$	2.614	$2.62^{+0.26}_{-0.23}$	$\sigma_8(0.51)$	0.612	$0.610^{+0.095}_{-0.085}$
$\Delta z_{\mathrm{s,DES}}^1$	-0.0015	$-0.004^{+0.036}_{-0.037}$	Age/Gyr	13.36	$12.5^{+2.5}_{-2.6}$	$f\sigma_8(0.61)$	0.4580	$0.457^{+0.037}_{-0.038}$
$\Delta z_{\mathrm{s,DES}}^2$	-0.0287	$-0.029^{+0.028}_{-0.028}$	z_{*}	1090.1	$1091.9^{+6.8}_{-4.3}$	$\sigma_8(0.61)$	0.583	$0.582^{+0.093}_{-0.083}$
$\Delta z_{\mathrm{s,DES}}^3$	0.0072	$0.008^{+0.025}_{-0.025}$	r_{*}	144.7	140^{+11}_{-16}	$f\sigma_8(2.33)$	0.3016	$0.302^{+0.050}_{-0.044}$
$\Delta z_{\mathrm{s,DES}}^4$	-0.0222	$-0.021^{+0.048}_{-0.048}$	$100\theta_{*}$	1.065	$1.10^{+0.12}_{-0.10}$	$\sigma_8(2.33)$	0.308	$0.308^{+0.057}_{-0.049}$
H_0	71.3	77^{+20}_{-20}	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.59	$12.8^{+2.3}_{-2.6}$	$\chi_{\mathrm{lensing}}^2$	7.63	$9.2 (\nu: 1.3)$
Ω_{Λ}	0.711	$0.709^{+0.067}_{-0.083}$	z_{drag}	1059.6	$1061.0^{+6.3}_{-5.0}$	χ_{DES}^2	501.6	$513.1 (\nu: 11.4)$
Ω_{m}	0.289	$0.291^{+0.083}_{-0.067}$	r_{drag}	147.4	143^{+12}_{-17}	χ_{prior}^2	1.0	$14.1 (\nu: 13.6)$

Best-fit $\chi_{\mathrm{eff}}^2 = 510.24$; $\bar{\chi}_{\mathrm{eff}}^2 = 536.32$; $R - 1 = 0.00963$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8_CMBmargd: 7.63 WL - DES_1YR_final: 501.56

6.134 base_mnu_DESlens_lenspriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	0.940	$0.89^{+0.12}_{-0.13}$	$100\theta_{\text{eq}}$	0.817	$0.76^{+0.14}_{-0.13}$
$\Omega_c h^2$	0.125	$0.157^{+0.083}_{-0.062}$	$r_{\text{drag}} h$	104.4	113^{+20}_{-20}	$100\theta_{\text{s,eq}}$	0.452	$0.425^{+0.073}_{-0.066}$
$100\theta_{\text{MC}}$	1.071	$1.14^{+0.12}_{-0.14}$	$\langle d^2 \rangle^{1/2}$	2.512	$2.49^{+0.14}_{-0.14}$	$H(0.15)$	76.9	88^{+20}_{-20}
Σm_ν [eV]	0.53	< 3.96	z_{re}	7.99	$8.7^{+1.6}_{-1.4}$	$D_{\text{M}}(0.15)$	607	536^{+200}_{-100}
$\ln(10^{10} A_{\text{s}})$	3.159	$3.07^{+0.30}_{-0.30}$	$10^9 A_{\text{s}}$	2.35	$2.17^{+0.73}_{-0.58}$	$H(0.38)$	87.2	99^{+20}_{-20}
n_{s}	0.963	$0.960^{+0.052}_{-0.052}$	$10^9 A_{\text{s}} e^{-2\tau}$	2.11	$1.95^{+0.66}_{-0.52}$	$D_{\text{M}}(0.38)$	1450	1283^{+400}_{-300}
m_{DES}^1	0.014	$0.013^{+0.058}_{-0.059}$	D_{40}	1382	1240^{+500}_{-400}	$H(0.51)$	94.1	107^{+20}_{-30}
m_{DES}^2	0.015	$0.013^{+0.057}_{-0.058}$	D_{220}	6296	5218^{+3000}_{-3000}	$D_{\text{M}}(0.51)$	1880	1665^{+500}_{-300}
m_{DES}^3	0.002	$0.004^{+0.056}_{-0.056}$	D_{810}	2786	2041^{+1000}_{-1000}	$H(0.61)$	99.8	113^{+30}_{-30}
m_{DES}^4	0.018	$0.017^{+0.054}_{-0.055}$	D_{1420}	875	582^{+500}_{-300}	$D_{\text{M}}(0.61)$	2190	1940^{+600}_{-400}
$A_{\text{IA,DES}}$	1.23	$0.6^{+1.7}_{-4.6}$	D_{2000}	252	169^{+200}_{-100}	$H(2.33)$	245	275^{+70}_{-60}
$\alpha_{\text{IA,DES}}$	2.9	—	$n_{\text{s},0.002}$	0.963	$0.960^{+0.052}_{-0.052}$	$D_{\text{M}}(2.33)$	5508	4915^{+1000}_{-1000}
$\Delta z_{\text{s,DES}}^1$	0.0029	$0.001^{+0.039}_{-0.039}$	Y_{P}	0.24533	$0.24532^{+0.00055}_{-0.00056}$	$f\sigma_8(0.15)$	0.4443	$0.439^{+0.030}_{-0.056}$
$\Delta z_{\text{s,DES}}^2$	-0.0196	$-0.020^{+0.030}_{-0.030}$	$Y_{\text{P}}^{\text{BBN}}$	0.24665	$0.24664^{+0.00056}_{-0.00056}$	$\sigma_8(0.15)$	0.737	$0.75^{+0.13}_{-0.11}$
$\Delta z_{\text{s,DES}}^3$	0.0074	$0.008^{+0.027}_{-0.027}$	$10^5 D/H$	2.618	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.38)$	0.4664	$0.464^{+0.037}_{-0.036}$
$\Delta z_{\text{s,DES}}^4$	-0.017	$-0.016^{+0.053}_{-0.053}$	Age/Gyr	13.19	$11.8^{+3.3}_{-2.5}$	$\sigma_8(0.38)$	0.656	$0.67^{+0.13}_{-0.11}$
H_0	71.6	> 61.0	z_*	1090.7	$1093.6^{+7.8}_{-6.0}$	$f\sigma_8(0.51)$	0.4670	$0.467^{+0.041}_{-0.040}$
Ω_{Λ}	0.702	$0.71^{+0.12}_{-0.11}$	r_*	143.2	136^{+20}_{-20}	$\sigma_8(0.51)$	0.615	$0.63^{+0.13}_{-0.10}$
Ω_{m}	0.298	$0.29^{+0.11}_{-0.12}$	$100\theta_*$	1.071	$1.14^{+0.12}_{-0.14}$	$f\sigma_8(0.61)$	0.4635	$0.464^{+0.045}_{-0.045}$
$\Omega_{\text{m}} h^2$	0.153	$0.194^{+0.11}_{-0.078}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.37	$12.0^{+3.1}_{-2.6}$	$\sigma_8(0.61)$	0.586	$0.60^{+0.13}_{-0.10}$
$\Omega_{\nu} h^2$	0.0057	< 0.0426	z_{drag}	1060.0	$1062.4^{+6.7}_{-5.8}$	$f\sigma_8(2.33)$	0.302	$0.309^{+0.068}_{-0.055}$
$\Omega_{\text{m}} h^3$	0.109	$0.162^{+0.14}_{-0.092}$	r_{drag}	145.9	138^{+20}_{-20}	$\sigma_8(2.33)$	0.309	$0.316^{+0.084}_{-0.060}$
σ_8	0.795	$0.80^{+0.13}_{-0.11}$	k_{D}	0.1421	$0.151^{+0.023}_{-0.018}$	χ_{lensing}^2	7.48	$9.7 (\nu: 1.9)$
S_8	0.793	$0.781^{+0.057}_{-0.11}$	$100\theta_{\text{D}}$	0.1653	$0.174^{+0.016}_{-0.019}$	χ_{DES}^2	228.8	$232.8 (\nu: 3.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4342	$0.428^{+0.031}_{-0.058}$	z_{eq}	3512	4278^{+2000}_{-1000}	χ_{prior}^2	0.4	$9.4 (\nu: 9.0)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5877	$0.586^{+0.050}_{-0.046}$	k_{eq}	0.0107	$0.0131^{+0.0062}_{-0.0045}$			

Best-fit $\chi_{\text{eff}}^2 = 236.70$; $\bar{\chi}_{\text{eff}}^2 = 251.99$; $R - 1 = 0.00519$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8_CMBmarged: 7.48 WL - DES_1YR_final: 228.82

6.135 base_mnu_DES_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_\nu h^2$	0.0086	< 0.0238	z_{eq}	3377	3531^{+1000}_{-800}
$\Omega_c h^2$	0.1191	$0.126^{+0.042}_{-0.031}$	$\Omega_m h^3$	0.1016	$0.108^{+0.046}_{-0.030}$	k_{eq}	0.01032	$0.0108^{+0.0032}_{-0.0023}$
$100\theta_{\text{MC}}$	1.061	$1.070^{+0.062}_{-0.059}$	σ_8	0.740	$0.720^{+0.11}_{-0.098}$	$100\theta_{\text{eq}}$	0.835	$0.819^{+0.10}_{-0.099}$
Σm_ν [eV]	0.80	< 2.22	S_8	0.771	$0.762^{+0.056}_{-0.056}$	$100\theta_{\text{s,eq}}$	0.461	$0.453^{+0.051}_{-0.052}$
$\ln(10^{10} A_s)$	3.237	$3.15^{+0.40}_{-0.42}$	$\sigma_8 \Omega_m^{0.5}$	0.4225	$0.417^{+0.031}_{-0.031}$	$H(0.15)$	73.31	$74.1^{+5.5}_{-4.3}$
n_s	0.961	$0.961^{+0.052}_{-0.051}$	$\sigma_8 \Omega_m^{0.25}$	0.559	$0.548^{+0.058}_{-0.055}$	$D_M(0.15)$	638.7	633^{+35}_{-40}
b_{DES}^1	1.599	$1.65^{+0.33}_{-0.31}$	$\sigma_8/h^{0.5}$	0.898	$0.87^{+0.15}_{-0.13}$	$H(0.38)$	83.9	$85.1^{+8.1}_{-6.3}$
b_{DES}^2	1.820	$1.87^{+0.32}_{-0.29}$	$r_{\text{drag}} h$	99.71	$99.3^{+3.8}_{-3.8}$	$D_M(0.38)$	1520	1504^{+95}_{-110}
b_{DES}^3	1.793	$1.85^{+0.30}_{-0.28}$	$\langle d^2 \rangle^{1/2}$	2.579	$2.51^{+0.37}_{-0.35}$	$H(0.51)$	90.9	$92.3^{+9.8}_{-7.5}$
b_{DES}^4	2.162	$2.22^{+0.37}_{-0.33}$	z_{re}	7.92	$8.06^{+0.91}_{-0.76}$	$D_M(0.51)$	1966	1945^{+130}_{-150}
b_{DES}^5	2.224	$2.29^{+0.42}_{-0.38}$	$10^9 A_s$	2.54	$2.37^{+1.1}_{-0.83}$	$H(0.61)$	96.7	98^{+10}_{-8}
m_{DES}^1	0.013	$0.011^{+0.058}_{-0.058}$	$10^9 A_s e^{-2\tau}$	2.28	$2.12^{+1.0}_{-0.74}$	$D_M(0.61)$	2286	2260^{+160}_{-180}
m_{DES}^2	0.015	$0.014^{+0.058}_{-0.058}$	D_{40}	1494	1376^{+700}_{-500}	$H(2.33)$	241.8	248^{+40}_{-30}
m_{DES}^3	0.005	$0.008^{+0.054}_{-0.054}$	D_{220}	7005	6389^{+4000}_{-3000}	$D_M(2.33)$	5674	5585^{+550}_{-590}
m_{DES}^4	0.0099	$0.012^{+0.055}_{-0.055}$	D_{810}	3067	2781^{+1000}_{-1000}	$f\sigma_8(0.15)$	0.4316	$0.425^{+0.032}_{-0.033}$
$A_{\text{IA,DES}}$	0.415	$0.40^{+0.48}_{-0.40}$	D_{1420}	974	865^{+500}_{-500}	$\sigma_8(0.15)$	0.683	$0.664^{+0.11}_{-0.095}$
$\alpha_{\text{IA,DES}}$	-2.0	—	D_{2000}	277	248^{+100}_{-100}	$f\sigma_8(0.38)$	0.4466	$0.437^{+0.042}_{-0.043}$
$\Delta z_{\text{l,DES}}^1$	0.0032	$0.004^{+0.019}_{-0.019}$	$n_{\text{s},0.002}$	0.961	$0.961^{+0.052}_{-0.051}$	$\sigma_8(0.38)$	0.605	$0.587^{+0.10}_{-0.089}$
$\Delta z_{\text{l,DES}}^2$	0.0008	$0.001^{+0.017}_{-0.017}$	Y_{P}	0.24533	$0.24531^{+0.00055}_{-0.00057}$	$f\sigma_8(0.51)$	0.4443	$0.434^{+0.046}_{-0.047}$
$\Delta z_{\text{l,DES}}^3$	0.0037	$0.004^{+0.017}_{-0.017}$	$Y_{\text{P}}^{\text{BBN}}$	0.24666	$0.24664^{+0.00055}_{-0.00057}$	$\sigma_8(0.51)$	0.566	$0.549^{+0.098}_{-0.085}$
$\Delta z_{\text{l,DES}}^4$	0.0015	$0.001^{+0.024}_{-0.023}$	$10^5 D/H$	2.616	$2.62^{+0.26}_{-0.23}$	$f\sigma_8(0.61)$	0.4391	$0.428^{+0.049}_{-0.050}$
$\Delta z_{\text{l,DES}}^5$	0.0001	$0.000^{+0.026}_{-0.025}$	Age/Gyr	13.58	$13.4^{+1.3}_{-1.4}$	$\sigma_8(0.61)$	0.539	$0.523^{+0.094}_{-0.082}$
$\Delta z_{\text{s,DES}}^1$	-0.0013	$-0.005^{+0.036}_{-0.037}$	z_*	1090.28	$1091.0^{+4.2}_{-3.4}$	$f\sigma_8(2.33)$	0.2791	$0.270^{+0.046}_{-0.043}$
$\Delta z_{\text{s,DES}}^2$	-0.0287	$-0.029^{+0.028}_{-0.028}$	r_*	144.4	$142.8^{+9.1}_{-11}$	$\sigma_8(2.33)$	0.2826	$0.273^{+0.053}_{-0.046}$
$\Delta z_{\text{s,DES}}^3$	0.0064	$0.008^{+0.025}_{-0.026}$	$100\theta_*$	1.061	$1.070^{+0.062}_{-0.059}$	χ_{6DF}^2	0.014	0.11 (ν : 0.0)
$\Delta z_{\text{s,DES}}^4$	-0.0238	$-0.020^{+0.049}_{-0.048}$	$D_M(z_*)/\text{Gpc}$	13.61	$13.4^{+1.7}_{-1.7}$	χ_{MGS}^2	1.41	1.34 (ν : 0.3)
H_0	67.77	$68.3^{+4.1}_{-3.3}$	z_{drag}	1059.70	$1060.2^{+4.6}_{-4.2}$	χ_{DR12BAO}^2	2.57	3.5 (ν : 1.0)
Ω_Λ	0.674	$0.662^{+0.065}_{-0.078}$	r_{drag}	147.1	$145.5^{+9.4}_{-11}$	χ_{DES}^2	502.0	514.1 (ν : 13.1)
Ω_m	0.326	$0.338^{+0.078}_{-0.065}$	k_{D}	0.1409	$0.143^{+0.013}_{-0.010}$	χ_{prior}^2	1.1	14.1 (ν : 13.5)
$\Omega_m h^2$	0.1499	$0.158^{+0.055}_{-0.039}$	$100\theta_{\text{D}}$	0.1638	$0.1650^{+0.0080}_{-0.0077}$	χ_{BAO}^2	3.99	4.9 (ν : 1.5)

Best-fit $\chi_{\text{eff}}^2 = 507.09$; $\bar{\chi}_{\text{eff}}^2 = 533.11$; $R - 1 = 0.00572$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 2.57 WL - DES_1YR_final: 502.02

6.136 base_mnu_DESlens_lenspriors_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.0222^{+0.0013}_{-0.0013}$	$r_{\text{drag}} h$	98.9	$97.4^{+5.1}_{-5.0}$	$H(0.15)$	75.3	78^{+10}_{-8}
$\Omega_c h^2$	0.139	$0.165^{+0.10}_{-0.069}$	$\langle d^2 \rangle^{1/2}$	2.25	$2.14^{+0.82}_{-0.60}$	$D_M(0.15)$	623	604^{+58}_{-64}
$100\theta_{\text{MC}}$	1.075	$1.107^{+0.083}_{-0.088}$	z_{re}	8.21	$8.7^{+1.5}_{-1.3}$	$H(0.38)$	86.7	91^{+20}_{-10}
Σm_ν [eV]	0.48	< 3.00	$10^9 A_s$	1.71	$1.5^{+2.0}_{-1.1}$	$D_M(0.38)$	1477	1424^{+200}_{-200}
$\ln(10^{10} A_s)$	2.84	$2.65^{+0.97}_{-0.91}$	$10^9 A_s e^{-2\tau}$	1.53	$1.36^{+1.8}_{-0.96}$	$H(0.51)$	94.2	100^{+20}_{-10}
n_s	0.961	$0.960^{+0.053}_{-0.050}$	D_{40}	981	854^{+1000}_{-600}	$D_M(0.51)$	1909	1835^{+200}_{-200}
m_{DES}^1	0.014	$0.013^{+0.058}_{-0.059}$	D_{220}	4330	3690^{+7000}_{-3000}	$H(0.61)$	100.4	106^{+20}_{-20}
m_{DES}^2	0.013	$0.012^{+0.058}_{-0.058}$	D_{810}	1979	1618^{+3000}_{-1000}	$D_M(0.61)$	2217	2128^{+300}_{-300}
m_{DES}^3	0.001	$0.002^{+0.055}_{-0.054}$	D_{1420}	622	478^{+900}_{-400}	$H(2.33)$	254	275^{+70}_{-60}
m_{DES}^4	0.019	$0.018^{+0.054}_{-0.056}$	D_{2000}	180	138^{+300}_{-100}	$D_M(2.33)$	5457	5162^{+900}_{-900}
$A_{\text{IA,DES}}$	1.31	$0.96^{+1.4}_{-2.1}$	$n_{s,0.002}$	0.961	$0.960^{+0.053}_{-0.050}$	$f\sigma_8(0.15)$	0.4362	$0.423^{+0.039}_{-0.048}$
$\alpha_{\text{IA,DES}}$	2.7	—	Y_P	0.24531	$0.24531^{+0.00054}_{-0.00057}$	$\sigma_8(0.15)$	0.676	$0.62^{+0.14}_{-0.12}$
$\Delta z_{s,\text{DES}}^1$	0.0036	$0.003^{+0.037}_{-0.038}$	Y_P^{BBN}	0.24664	$0.24664^{+0.00054}_{-0.00058}$	$f\sigma_8(0.38)$	0.447	$0.426^{+0.054}_{-0.057}$
$\Delta z_{s,\text{DES}}^2$	-0.0201	$-0.021^{+0.030}_{-0.031}$	$10^5 D/H$	2.624	$2.62^{+0.27}_{-0.23}$	$\sigma_8(0.38)$	0.597	$0.55^{+0.13}_{-0.11}$
$\Delta z_{s,\text{DES}}^3$	0.0074	$0.008^{+0.028}_{-0.028}$	Age/Gyr	13.06	$12.4^{+2.2}_{-2.0}$	$f\sigma_8(0.51)$	0.442	$0.418^{+0.060}_{-0.062}$
$\Delta z_{s,\text{DES}}^4$	-0.016	$-0.016^{+0.052}_{-0.053}$	z_*	1091.9	$1094.1^{+7.4}_{-6.1}$	$\sigma_8(0.51)$	0.557	$0.51^{+0.12}_{-0.10}$
H_0	69.4	$71.3^{+7.3}_{-5.7}$	r_*	139.9	134^{+20}_{-20}	$f\sigma_8(0.61)$	0.436	$0.410^{+0.065}_{-0.065}$
Ω_Λ	0.655	$0.61^{+0.11}_{-0.13}$	$100\theta_*$	1.076	$1.107^{+0.083}_{-0.088}$	$\sigma_8(0.61)$	0.530	$0.49^{+0.12}_{-0.10}$
Ω_m	0.345	$0.39^{+0.13}_{-0.11}$	$D_M(z_*)/\text{Gpc}$	13.01	$12.2^{+2.7}_{-2.3}$	$f\sigma_8(2.33)$	0.271	$0.248^{+0.064}_{-0.054}$
$\Omega_m h^2$	0.166	$0.198^{+0.11}_{-0.076}$	z_{drag}	1060.8	$1062.8^{+6.8}_{-6.0}$	$\sigma_8(2.33)$	0.275	$0.251^{+0.070}_{-0.056}$
$\Omega_\nu h^2$	0.0051	< 0.0323	r_{drag}	142.5	137^{+20}_{-20}	$\chi_{6\text{DF}}^2$	0.07	0.36 (ν : 0.1)
$\Omega_m h^3$	0.115	$0.142^{+0.10}_{-0.062}$	k_D	0.1457	$0.153^{+0.024}_{-0.019}$	χ_{MGS}^2	1.04	0.77 (ν : 0.2)
σ_8	0.734	$0.68^{+0.14}_{-0.12}$	$100\theta_D$	0.1658	$0.170^{+0.011}_{-0.011}$	χ_{DR12BAO}^2	2.27	3.6 (ν : 1.2)
S_8	0.787	$0.769^{+0.066}_{-0.084}$	z_{eq}	3846	4473^{+2000}_{-2000}	χ_{DES}^2	229.0	233.7 (ν : 4.1)
$\sigma_8 \Omega_m^{0.5}$	0.4310	$0.421^{+0.036}_{-0.046}$	k_{eq}	0.0117	$0.0137^{+0.0075}_{-0.0051}$	χ_{prior}^2	0.5	9.4 (ν : 9.0)
$\sigma_8 \Omega_m^{0.25}$	0.562	$0.535^{+0.070}_{-0.070}$	$100\theta_{\text{eq}}$	0.767	$0.72^{+0.20}_{-0.16}$	χ_{BAO}^2	3.38	4.8 (ν : 1.5)
$\sigma_8/h^{0.5}$	0.881	$0.81^{+0.19}_{-0.17}$	$100\theta_{s,\text{eq}}$	0.426	$0.402^{+0.10}_{-0.085}$			

Best-fit $\chi_{\text{eff}}^2 = 232.86$; $\bar{\chi}_{\text{eff}}^2 = 247.92$; $R - 1 = 0.00929$

χ_{eff}^2 : BAO - 6DF: 0.07 MGS: 1.04 DR12BAO: 2.27 WL - DES_1YR_final: 229.02

6.137 base_mnu_DES_lenspriors_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	$\Omega_m h^3$	0.0984	$0.102^{+0.033}_{-0.022}$	$100\theta_{\text{eq}}$	0.840	$0.833^{+0.072}_{-0.074}$
$\Omega_c h^2$	0.1165	$0.120^{+0.030}_{-0.022}$	σ_8	0.757	$0.748^{+0.070}_{-0.069}$	$100\theta_{\text{s,eq}}$	0.4639	$0.460^{+0.037}_{-0.038}$
$100\theta_{\text{MC}}$	1.053	$1.059^{+0.053}_{-0.046}$	S_8	0.7783	$0.776^{+0.037}_{-0.038}$	$H(0.15)$	73.07	$73.5^{+4.4}_{-3.5}$
Σm_ν [eV]	0.63	< 1.78	$\sigma_8 \Omega_m^{0.5}$	0.4263	$0.425^{+0.020}_{-0.021}$	$D_{\text{M}}(0.15)$	640.1	637^{+30}_{-33}
$\ln(10^{10} A_{\text{s}})$	3.231	$3.21^{+0.18}_{-0.18}$	$\sigma_8 \Omega_m^{0.25}$	0.5680	$0.564^{+0.035}_{-0.033}$	$H(0.38)$	83.4	$84.1^{+6.2}_{-4.9}$
n_{s}	0.964	$0.963^{+0.051}_{-0.053}$	$\sigma_8/h^{0.5}$	0.920	$0.908^{+0.089}_{-0.093}$	$D_{\text{M}}(0.38)$	1525	1516^{+78}_{-88}
b_{DES}^1	1.573	$1.59^{+0.25}_{-0.24}$	$r_{\text{drag}} h$	100.16	$99.98^{+3.3}_{-3.5}$	$H(0.51)$	90.2	$91.0^{+7.4}_{-5.8}$
b_{DES}^2	1.787	$1.80^{+0.21}_{-0.21}$	$\langle d^2 \rangle^{1/2}$	2.561	$2.55^{+0.11}_{-0.11}$	$D_{\text{M}}(0.51)$	1975	1962^{+110}_{-120}
b_{DES}^3	1.765	$1.78^{+0.19}_{-0.18}$	z_{re}	7.83	$7.92^{+0.75}_{-0.61}$	$H(0.61)$	95.9	$96.9^{+8.4}_{-6.5}$
b_{DES}^4	2.129	$2.14^{+0.22}_{-0.21}$	$10^9 A_{\text{s}}$	2.531	$2.48^{+0.47}_{-0.41}$	$D_{\text{M}}(0.61)$	2297	2281^{+130}_{-140}
b_{DES}^5	2.198	$2.21^{+0.26}_{-0.25}$	$10^9 A_{\text{s}} e^{-2\tau}$	2.267	$2.22^{+0.43}_{-0.37}$	$H(2.33)$	238.4	242^{+30}_{-20}
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.059}$	D_{40}	1488	1450^{+300}_{-300}	$D_{\text{M}}(2.33)$	5725	5672^{+430}_{-470}
m_{DES}^2	0.015	$0.013^{+0.057}_{-0.057}$	D_{220}	7020	6800^{+2000}_{-2000}	$f\sigma_8(0.15)$	0.4355	$0.434^{+0.020}_{-0.020}$
m_{DES}^3	0.004	$0.004^{+0.052}_{-0.053}$	D_{810}	3072	2960^{+700}_{-700}	$\sigma_8(0.15)$	0.699	$0.691^{+0.067}_{-0.068}$
m_{DES}^4	0.008	$0.008^{+0.054}_{-0.053}$	D_{1420}	981	932^{+200}_{-300}	$f\sigma_8(0.38)$	0.4526	$0.449^{+0.022}_{-0.024}$
$A_{\text{IA,DES}}$	0.417	$0.42^{+0.47}_{-0.39}$	D_{2000}	278	266^{+70}_{-80}	$\sigma_8(0.38)$	0.621	$0.613^{+0.063}_{-0.065}$
$\alpha_{\text{IA,DES}}$	-2.1	—	$n_{\text{s},0.002}$	0.964	$0.963^{+0.051}_{-0.053}$	$f\sigma_8(0.51)$	0.4511	$0.447^{+0.025}_{-0.028}$
$\Delta z_{\text{l,DES}}^1$	0.0034	$0.004^{+0.019}_{-0.019}$	Y_{P}	0.24533	$0.24532^{+0.00055}_{-0.00057}$	$\sigma_8(0.51)$	0.581	$0.574^{+0.061}_{-0.063}$
$\Delta z_{\text{l,DES}}^2$	0.0011	$0.001^{+0.017}_{-0.017}$	$Y_{\text{P}}^{\text{BBN}}$	0.24666	$0.24664^{+0.00055}_{-0.00058}$	$f\sigma_8(0.61)$	0.4464	$0.442^{+0.026}_{-0.030}$
$\Delta z_{\text{l,DES}}^3$	0.0037	$0.004^{+0.017}_{-0.017}$	10^5D/H	2.614	$2.62^{+0.27}_{-0.23}$	$\sigma_8(0.61)$	0.553	$0.546^{+0.058}_{-0.061}$
$\Delta z_{\text{l,DES}}^4$	0.0014	$0.001^{+0.024}_{-0.024}$	Age/Gyr	13.70	$13.6^{+1.0}_{-1.1}$	$f\sigma_8(2.33)$	0.2857	$0.282^{+0.026}_{-0.030}$
$\Delta z_{\text{l,DES}}^5$	0.0000	$0.000^{+0.026}_{-0.025}$	z_*	1089.95	$1090.3^{+3.4}_{-2.7}$	$\sigma_8(2.33)$	0.2903	$0.286^{+0.031}_{-0.035}$
$\Delta z_{\text{s,DES}}^1$	-0.0013	$-0.004^{+0.037}_{-0.037}$	r_*	145.2	$144.3^{+6.6}_{-8.1}$	χ_{lensing}^2	8.22	$9.7 (\nu: 1.6)$
$\Delta z_{\text{s,DES}}^2$	-0.0289	$-0.030^{+0.027}_{-0.028}$	$100\theta_*$	1.054	$1.060^{+0.054}_{-0.046}$	$\chi_{6\text{DF}}^2$	0.002	$0.070 (\nu: 0.0)$
$\Delta z_{\text{s,DES}}^3$	0.0059	$0.006^{+0.025}_{-0.025}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.78	$13.6^{+1.2}_{-1.4}$	χ_{MGS}^2	1.61	$1.64 (\nu: 0.3)$
$\Delta z_{\text{s,DES}}^4$	-0.0242	$-0.024^{+0.048}_{-0.047}$	z_{drag}	1059.44	$1059.7^{+4.0}_{-3.9}$	χ_{DR12BAO}^2	2.79	$3.7 (\nu: 1.0)$
H_0	67.69	$68.0^{+3.4}_{-2.9}$	r_{drag}	148.0	$147.0^{+7.0}_{-8.4}$	χ_{DES}^2	501.9	$512.2 (\nu: 10.3)$
Ω_{Λ}	0.683	$0.676^{+0.049}_{-0.064}$	k_{D}	0.1400	$0.141^{+0.010}_{-0.0077}$	χ_{prior}^2	1.2	$14.3 (\nu: 13.7)$
Ω_{m}	0.317	$0.324^{+0.064}_{-0.049}$	$100\theta_{\text{D}}$	0.1629	$0.1636^{+0.0071}_{-0.0063}$	χ_{BAO}^2	4.40	$5.4 (\nu: 1.6)$
$\Omega_{\text{m}} h^2$	0.1454	$0.150^{+0.041}_{-0.029}$	z_{eq}	3314	3395^{+700}_{-500}			
$\Omega_{\nu} h^2$	0.0067	< 0.0192	k_{eq}	0.01012	$0.0104^{+0.0023}_{-0.0017}$			

Best-fit $\chi_{\text{eff}}^2 = 515.71$; $\bar{\chi}_{\text{eff}}^2 = 541.63$; $R - 1 = 0.00588$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 2.79 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8_CMBmargd: 8.22 WL - DES_1YR_final: 501.86

6.138 base_mnu_DESlens_lenspriors_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}}h$	99.73	$99.5^{+3.6}_{-3.9}$	$H(0.15)$	73.71	$74.2^{+5.4}_{-3.9}$
$\Omega_{\mathrm{c}}h^2$	0.1227	$0.127^{+0.041}_{-0.027}$	$\langle d^2 \rangle^{1/2}$	2.529	$2.53^{+0.12}_{-0.12}$	$D_{\mathrm{M}}(0.15)$	635.1	631^{+32}_{-39}
$100\theta_{\mathrm{MC}}$	1.060	$1.067^{+0.067}_{-0.050}$	z_{re}	7.94	$8.04^{+0.96}_{-0.66}$	$H(0.38)$	84.3	$85.1^{+8.2}_{-5.5}$
Σm_{ν} [eV]	0.61	< 2.26	$10^9 A_{\mathrm{s}}$	2.373	$2.34^{+0.53}_{-0.44}$	$D_{\mathrm{M}}(0.38)$	1511	1501^{+85}_{-110}
$\ln(10^{10} A_{\mathrm{s}})$	3.167	$3.15^{+0.21}_{-0.20}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	2.126	$2.10^{+0.47}_{-0.39}$	$H(0.51)$	91.4	$92.3^{+9.9}_{-6.5}$
n_{s}	0.962	$0.961^{+0.051}_{-0.052}$	D_{40}	1390	1361^{+300}_{-300}	$D_{\mathrm{M}}(0.51)$	1956	1941^{+120}_{-150}
m_{DES}^1	0.014	$0.013^{+0.059}_{-0.059}$	D_{220}	6422	6266^{+2000}_{-2000}	$H(0.61)$	97.2	98^{+10}_{-7}
m_{DES}^2	0.013	$0.012^{+0.057}_{-0.058}$	D_{810}	2845	2747^{+800}_{-900}	$D_{\mathrm{M}}(0.61)$	2274	2256^{+140}_{-180}
m_{DES}^3	-0.003	$-0.005^{+0.053}_{-0.054}$	D_{1420}	905	857^{+300}_{-400}	$H(2.33)$	243.1	247^{+40}_{-30}
m_{DES}^4	0.015	$0.013^{+0.054}_{-0.054}$	D_{2000}	258	245^{+80}_{-100}	$D_{\mathrm{M}}(2.33)$	5644	5586^{+470}_{-600}
$A_{\mathrm{IA,DES}}$	1.32	$1.1^{+1.3}_{-1.3}$	$n_{\mathrm{s},0.002}$	0.962	$0.961^{+0.051}_{-0.052}$	$f\sigma_8(0.15)$	0.4452	$0.442^{+0.024}_{-0.026}$
$\alpha_{\mathrm{IA,DES}}$	2.6	—	Y_{P}	0.24534	$0.24532^{+0.00055}_{-0.00055}$	$\sigma_8(0.15)$	0.706	$0.696^{+0.070}_{-0.084}$
$\Delta z_{\mathrm{s,DES}}^1$	0.0039	$0.003^{+0.037}_{-0.038}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24666	$0.24665^{+0.00056}_{-0.00056}$	$f\sigma_8(0.38)$	0.4605	$0.456^{+0.026}_{-0.031}$
$\Delta z_{\mathrm{s,DES}}^2$	-0.0197	$-0.020^{+0.030}_{-0.030}$	$10^5 \mathrm{D}/\mathrm{H}$	2.614	$2.62^{+0.26}_{-0.23}$	$\sigma_8(0.38)$	0.626	$0.616^{+0.065}_{-0.081}$
$\Delta z_{\mathrm{s,DES}}^3$	0.0060	$0.006^{+0.027}_{-0.027}$	Age/Gyr	13.51	$13.4^{+1.1}_{-1.5}$	$f\sigma_8(0.51)$	0.4581	$0.453^{+0.028}_{-0.035}$
$\Delta z_{\mathrm{s,DES}}^4$	-0.020	$-0.020^{+0.053}_{-0.051}$	z_*	1090.48	$1090.9^{+4.4}_{-2.9}$	$\sigma_8(0.51)$	0.586	$0.576^{+0.062}_{-0.078}$
H_0	68.15	$68.5^{+3.9}_{-3.1}$	r_*	143.7	$142.6^{+7.5}_{-10}$	$f\sigma_8(0.61)$	0.4526	$0.447^{+0.030}_{-0.038}$
Ω_{Λ}	0.674	$0.666^{+0.056}_{-0.084}$	$100\theta_*$	1.061	$1.068^{+0.067}_{-0.051}$	$\sigma_8(0.61)$	0.557	$0.548^{+0.060}_{-0.076}$
Ω_{m}	0.326	$0.334^{+0.084}_{-0.056}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.54	$13.4^{+1.4}_{-1.7}$	$f\sigma_8(2.33)$	0.2870	$0.282^{+0.027}_{-0.039}$
$\Omega_{\mathrm{m}}h^2$	0.1514	$0.157^{+0.053}_{-0.036}$	z_{drag}	1059.89	$1060.2^{+4.5}_{-4.1}$	$\sigma_8(2.33)$	0.2915	$0.286^{+0.032}_{-0.043}$
$\Omega_{\nu}h^2$	0.0065	< 0.0243	r_{drag}	146.3	$145.3^{+7.9}_{-11}$	$\chi_{\mathrm{lensing}}^2$	7.57	$9.3 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^3$	0.1032	$0.108^{+0.043}_{-0.028}$	k_{D}	0.1417	$0.143^{+0.013}_{-0.0088}$	$\chi_{6\mathrm{DF}}^2$	0.014	$0.09 (\nu: 0.0)$
σ_8	0.765	$0.755^{+0.072}_{-0.085}$	$100\theta_{\mathrm{D}}$	0.1638	$0.1646^{+0.0087}_{-0.0067}$	χ_{MGS}^2	1.41	$1.45 (\nu: 0.3)$
S_8	0.7977	$0.794^{+0.047}_{-0.051}$	z_{eq}	3463	3555^{+1000}_{-600}	$\chi_{\mathrm{DR12BAO}}^2$	2.58	$3.5 (\nu: 1.0)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4369	$0.435^{+0.026}_{-0.028}$	k_{eq}	0.01058	$0.0109^{+0.0031}_{-0.0020}$	χ_{DES}^2	229.1	$232.7 (\nu: 3.2)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5782	$0.573^{+0.039}_{-0.042}$	$100\theta_{\mathrm{eq}}$	0.818	$0.812^{+0.082}_{-0.088}$	χ_{prior}^2	0.7	$9.6 (\nu: 9.1)$
$\sigma_8/h^{0.5}$	0.927	$0.912^{+0.092}_{-0.12}$	$100\theta_{\mathrm{s,eq}}$	0.4527	$0.449^{+0.041}_{-0.045}$	χ_{BAO}^2	4.00	$5.1 (\nu: 1.5)$

Best-fit $\chi_{\mathrm{eff}}^2 = 241.37$; $\bar{\chi}_{\mathrm{eff}}^2 = 256.69$; $R - 1 = 0.00980$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 2.58 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.57 WL - DES_1YR_final: 229.15

6.139 base_mnu_DES_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.258	$0.281^{+0.10}_{-0.075}$	m_{DES}^3	0.007	$0.009^{+0.055}_{-0.054}$	$\Omega_{\text{b}}h^2$	0.0540	$0.029^{+0.025}_{-0.020}$
Ω_b	0.0654	—	m_{DES}^4	0.0099	$0.011^{+0.054}_{-0.055}$	$\Omega_{\text{c}}h^2$	0.149	$0.121^{+0.055}_{-0.047}$
H_0	90.8	—	$A_{\text{IA,DES}}$	0.506	$0.46^{+0.53}_{-0.44}$	Ω_{Λ}	0.742	$0.719^{+0.075}_{-0.10}$
Σm_{ν} [eV]	0.877	—	$\alpha_{\text{IA,DES}}$	−1.3	—	$\Omega_{\nu}h^2$	0.0094	$0.0057^{+0.0050}_{-0.0052}$
$10^9 A_{\text{s}}$	2.88	$2.8^{+1.7}_{-1.2}$	$\Delta z_{\text{l,DES}}^1$	0.0039	$0.004^{+0.019}_{-0.019}$	$\ln(10^{10} A_{\text{s}})$	3.36	$3.32^{+0.50}_{-0.52}$
n_{s}	1.069	—	$\Delta z_{\text{l,DES}}^2$	0.0019	$0.002^{+0.017}_{-0.017}$	σ_8	0.863	$0.81^{+0.17}_{-0.16}$
b_{DES}^1	1.388	$1.46^{+0.41}_{-0.33}$	$\Delta z_{\text{l,DES}}^3$	0.0046	$0.004^{+0.017}_{-0.017}$	S_8	0.800	$0.780^{+0.063}_{-0.065}$
b_{DES}^2	1.591	$1.67^{+0.43}_{-0.33}$	$\Delta z_{\text{l,DES}}^4$	0.0029	$0.002^{+0.024}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4382	$0.427^{+0.035}_{-0.035}$
b_{DES}^3	1.580	$1.66^{+0.40}_{-0.31}$	$\Delta z_{\text{l,DES}}^5$	0.0010	$0.001^{+0.026}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.615	$0.589^{+0.079}_{-0.080}$
b_{DES}^4	1.907	$2.00^{+0.49}_{-0.38}$	$\Delta z_{\text{s,DES}}^1$	−0.0013	$-0.004^{+0.036}_{-0.037}$	χ_{DES}^2	498.2	$511.6 (\nu: 12.4)$
b_{DES}^5	1.969	$2.06^{+0.52}_{-0.42}$	$\Delta z_{\text{s,DES}}^2$	−0.0292	$-0.030^{+0.027}_{-0.028}$	χ_{prior}^2	1.3	$12.2 (\nu: 11.6)$
m_{DES}^1	0.013	$0.012^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^3$	0.0064	$0.007^{+0.025}_{-0.026}$			
m_{DES}^2	0.015	$0.014^{+0.058}_{-0.057}$	$\Delta z_{\text{s,DES}}^4$	−0.0261	$-0.023^{+0.048}_{-0.048}$			

Best-fit $\chi_{\text{eff}}^2 = 499.47$; $\bar{\chi}_{\text{eff}}^2 = 523.87$; $R - 1 = 0.00686$

χ_{eff}^2 : WL - DES_1YR_final: 498.18

6.140 base_mnu_DESlens_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.255	$0.31^{+0.23}_{-0.14}$	m_{DES}^4	0.017	$0.017^{+0.056}_{-0.055}$	Ω_{Λ}	0.745	$0.69^{+0.14}_{-0.23}$
Ω_b	0.0374	—	$A_{\text{IA,DES}}$	1.36	$0.8^{+1.7}_{-4.4}$	$\Omega_{\nu}h^2$	0.0014	$0.0054^{+0.0053}_{-0.0049}$
H_0	73.6	—	$\alpha_{\text{IA,DES}}$	3.5	—	$\ln(10^{10} A_{\text{s}})$	3.20	$3.11^{+0.86}_{-1.2}$
Σm_{ν} [eV]	0.134	—	$\Delta z_{\text{s,DES}}^1$	0.0029	$0.002^{+0.038}_{-0.039}$	σ_8	0.878	$0.79^{+0.25}_{-0.25}$
$10^9 A_{\text{s}}$	2.44	—	$\Delta z_{\text{s,DES}}^2$	−0.0192	$-0.020^{+0.031}_{-0.031}$	S_8	0.810	$0.780^{+0.075}_{-0.14}$
n_{s}	0.969	—	$\Delta z_{\text{s,DES}}^3$	0.0079	$0.008^{+0.027}_{-0.027}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.444	$0.427^{+0.041}_{-0.075}$
m_{DES}^1	0.015	$0.013^{+0.059}_{-0.058}$	$\Delta z_{\text{s,DES}}^4$	−0.017	$-0.016^{+0.053}_{-0.053}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.624	$0.58^{+0.11}_{-0.12}$
m_{DES}^2	0.014	$0.013^{+0.057}_{-0.057}$	$\Omega_{\text{b}}h^2$	0.0203	$0.027^{+0.026}_{-0.018}$	χ_{DES}^2	228.7	$233.4 (\nu: 3.8)$
m_{DES}^3	0.002	$0.003^{+0.055}_{-0.054}$	$\Omega_{\text{c}}h^2$	0.117	$0.133^{+0.11}_{-0.065}$	χ_{prior}^2	0.3	$7.5 (\nu: 7.0)$

Best-fit $\chi_{\text{eff}}^2 = 229.04$; $\bar{\chi}_{\text{eff}}^2 = 240.82$; $R - 1 = 0.00860$

χ_{eff}^2 : WL - DES_1YR_final: 228.71

6.141 base_mnu_DESw_t_DESpriors

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.312	$0.315^{+0.13}_{-0.099}$	m_{DES}^3	0.019	$0.022^{+0.055}_{-0.056}$	$\Omega_{\text{b}}h^2$	0.0380	$0.025^{+0.027}_{-0.017}$
Ω_b	0.0580	—	m_{DES}^4	0.006	$0.008^{+0.056}_{-0.057}$	$\Omega_{\text{c}}h^2$	0.156	$0.117^{+0.061}_{-0.042}$
H_0	80.9	—	$A_{\text{IA,DES}}$	0.323	$0.39^{+0.51}_{-0.42}$	Ω_{Λ}	0.688	$0.685^{+0.099}_{-0.13}$
Σm_{ν} [eV]	0.936	—	$\alpha_{\text{IA,DES}}$	−3.5	—	$\Omega_{\nu}h^2$	0.0101	$0.0065^{+0.0043}_{-0.0058}$
$10^9 A_{\text{s}}$	2.23	$2.7^{+1.9}_{-1.2}$	$\Delta z_{\text{l,DES}}^1$	0.0024	$0.003^{+0.020}_{-0.020}$	$\ln(10^{10} A_{\text{s}})$	3.11	$3.27^{+0.55}_{-0.55}$
n_{s}	0.898	—	$\Delta z_{\text{l,DES}}^2$	0.0017	$0.002^{+0.017}_{-0.018}$	σ_8	0.766	$0.76^{+0.21}_{-0.16}$
b_{DES}^1	1.495	$1.53^{+0.48}_{-0.38}$	$\Delta z_{\text{l,DES}}^3$	0.0050	$0.005^{+0.017}_{-0.017}$	S_8	0.781	$0.771^{+0.091}_{-0.089}$
b_{DES}^2	1.739	$1.78^{+0.50}_{-0.41}$	$\Delta z_{\text{l,DES}}^4$	0.0036	$0.003^{+0.024}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4279	$0.423^{+0.050}_{-0.049}$
b_{DES}^3	1.720	$1.76^{+0.48}_{-0.39}$	$\Delta z_{\text{l,DES}}^5$	0.0008	$0.000^{+0.025}_{-0.026}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.572	$0.566^{+0.10}_{-0.089}$
b_{DES}^4	2.07	$2.12^{+0.57}_{-0.48}$	$\Delta z_{\text{s,DES}}^1$	0.0005	$-0.004^{+0.038}_{-0.037}$	χ_{DES}^2	249.3	$260.8 (\nu: 11.8)$
b_{DES}^5	2.13	$2.17^{+0.61}_{-0.49}$	$\Delta z_{\text{s,DES}}^2$	−0.0305	$-0.031^{+0.029}_{-0.028}$	χ_{prior}^2	1.5	$13.0 (\nu: 12.6)$
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^3$	0.0067	$0.008^{+0.026}_{-0.025}$			
m_{DES}^2	0.0096	$0.009^{+0.058}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	−0.0244	$-0.022^{+0.049}_{-0.049}$			

Best-fit $\chi^2_{\text{eff}} = 250.75$; $\bar{\chi}^2_{\text{eff}} = 273.76$; $R - 1 = 0.00693$
 χ^2_{eff} : WL - DES_1YR_final: 249.28

6.142 base_mnu_DES_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.278	$0.284^{+0.072}_{-0.054}$	m_{DES}^3	0.011	$0.011^{+0.054}_{-0.053}$	$\Omega_{\text{b}} h^2$	0.0440	$0.030^{+0.024}_{-0.021}$
Ω_b	0.0621	—	m_{DES}^4	0.013	$0.013^{+0.054}_{-0.054}$	$\Omega_{\text{c}} h^2$	0.142	$0.126^{+0.056}_{-0.051}$
H_0	84.2	—	$A_{\text{IA,DES}}$	0.471	$0.45^{+0.53}_{-0.44}$	Ω_{Λ}	0.722	$0.716^{+0.054}_{-0.072}$
Σm_{ν} [eV]	0.999	—	$\alpha_{\text{IA,DES}}$	-1.2	—	$\Omega_{\nu} h^2$	0.0107	$0.0061^{+0.0047}_{-0.0055}$
$10^9 A_{\text{s}}$	2.68	$2.60^{+1.1}_{-0.81}$	$\Delta z_{\text{l,DES}}^1$	0.0038	$0.004^{+0.019}_{-0.019}$	$\ln(10^{10} A_{\text{s}})$	3.288	$3.24^{+0.36}_{-0.36}$
n_{s}	1.070	—	$\Delta z_{\text{l,DES}}^2$	0.0018	$0.002^{+0.017}_{-0.017}$	σ_8	0.812	$0.798^{+0.089}_{-0.088}$
b_{DES}^1	1.479	$1.49^{+0.26}_{-0.24}$	$\Delta z_{\text{l,DES}}^3$	0.0040	$0.004^{+0.017}_{-0.017}$	S_8	0.7811	$0.774^{+0.040}_{-0.039}$
b_{DES}^2	1.693	$1.70^{+0.24}_{-0.21}$	$\Delta z_{\text{l,DES}}^4$	0.0021	$0.002^{+0.024}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4278	$0.424^{+0.022}_{-0.022}$
b_{DES}^3	1.681	$1.69^{+0.21}_{-0.19}$	$\Delta z_{\text{l,DES}}^5$	0.0004	$0.000^{+0.026}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5894	$0.582^{+0.038}_{-0.038}$
b_{DES}^4	2.029	$2.04^{+0.24}_{-0.22}$	$\Delta z_{\text{s,DES}}^1$	-0.0016	$-0.004^{+0.036}_{-0.035}$	χ^2_{lensing}	7.44	$9.0 (\nu: 1.2)$
b_{DES}^5	2.105	$2.11^{+0.27}_{-0.25}$	$\Delta z_{\text{s,DES}}^2$	-0.0288	$-0.029^{+0.028}_{-0.028}$	χ^2_{DES}	499.5	$511.3 (\nu: 10.2)$
m_{DES}^1	0.014	$0.012^{+0.059}_{-0.058}$	$\Delta z_{\text{s,DES}}^3$	0.0077	$0.008^{+0.025}_{-0.025}$	χ^2_{prior}	0.98	$12.0 (\nu: 11.2)$
m_{DES}^2	0.016	$0.014^{+0.057}_{-0.057}$	$\Delta z_{\text{s,DES}}^4$	-0.0223	$-0.022^{+0.049}_{-0.047}$			

Best-fit $\chi^2_{\text{eff}} = 507.92$; $\bar{\chi}^2_{\text{eff}} = 532.21$; $R - 1 = 0.00935$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp-p.teb.consext8.CMBmargd: 7.44 WL - DES_1YR_final: 499.50

6.143 base_mnu_DESlens_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.291	$0.289^{+0.088}_{-0.076}$	$A_{\text{IA,DES}}$	1.30	$0.8^{+1.6}_{-2.9}$	$\ln(10^{10} A_{\text{s}})$	3.381	$3.20^{+0.38}_{-0.37}$
Ω_b	0.0565	—	$\alpha_{\text{IA,DES}}$	3.2	—	σ_8	0.809	$0.803^{+0.10}_{-0.096}$
H_0	71.1	—	$\Delta z_{\text{s,DES}}^1$	0.0027	$0.002^{+0.037}_{-0.038}$	S_8	0.796	$0.786^{+0.054}_{-0.073}$
Σm_{ν} [eV]	0.575	—	$\Delta z_{\text{s,DES}}^2$	-0.0196	$-0.020^{+0.030}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4362	$0.430^{+0.030}_{-0.040}$
$10^9 A_{\text{s}}$	2.94	$2.49^{+1.1}_{-0.85}$	$\Delta z_{\text{s,DES}}^3$	0.0082	$0.008^{+0.028}_{-0.027}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5939	$0.588^{+0.044}_{-0.042}$
n_{s}	1.069	—	$\Delta z_{\text{s,DES}}^4$	-0.016	$-0.016^{+0.053}_{-0.053}$	χ^2_{lensing}	7.09	$9.1 (\nu: 1.3)$
m_{DES}^1	0.015	$0.014^{+0.059}_{-0.059}$	$\Omega_{\text{b}} h^2$	0.0286	$0.028^{+0.025}_{-0.018}$	χ^2_{DES}	228.8	$232.4 (\nu: 2.9)$
m_{DES}^2	0.014	$0.013^{+0.058}_{-0.057}$	$\Omega_{\text{c}} h^2$	0.112	$0.127^{+0.061}_{-0.049}$	χ^2_{prior}	0.4	$7.4 (\nu: 6.8)$
m_{DES}^3	0.002	$0.003^{+0.055}_{-0.055}$	Ω_{Λ}	0.709	$0.711^{+0.076}_{-0.088}$			
m_{DES}^4	0.018	$0.017^{+0.056}_{-0.055}$	$\Omega_{\nu} h^2$	0.0062	$0.0054^{+0.0053}_{-0.0048}$			

Best-fit $\chi^2_{\text{eff}} = 236.25$; $\bar{\chi}^2_{\text{eff}} = 248.87$; $R - 1 = 0.00676$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp-p.teb.consext8.CMBmargd: 7.09 WL - DES_1YR_final: 228.81

6.144 base_mnu_DESw_t_DESpriors_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.290	$0.301^{+0.11}_{-0.074}$	m_{DES}^3	0.022	$0.022^{+0.056}_{-0.055}$	$\Omega_{\text{b}}h^2$	0.0352	$0.027^{+0.026}_{-0.019}$
Ω_b	0.0578	—	m_{DES}^4	0.008	$0.007^{+0.055}_{-0.056}$	$\Omega_c h^2$	0.131	$0.122^{+0.058}_{-0.045}$
H_0	78.1	—	$A_{\text{IA,DES}}$	0.382	$0.41^{+0.52}_{-0.41}$	Ω_{Λ}	0.710	$0.699^{+0.074}_{-0.11}$
$\Sigma m_{\nu} [\text{eV}]$	0.999	—	$\alpha_{\text{IA,DES}}$	-2.6	—	$\Omega_{\nu} h^2$	0.0107	$0.0062^{+0.0046}_{-0.0056}$
$10^9 A_{\text{s}}$	2.78	$2.58^{+1.1}_{-0.84}$	$\Delta z_{\text{l,DES}}^1$	0.0026	$0.003^{+0.020}_{-0.019}$	$\ln(10^{10} A_{\text{s}})$	3.324	$3.24^{+0.40}_{-0.35}$
n_{s}	1.057	—	$\Delta z_{\text{l,DES}}^2$	0.0016	$0.002^{+0.017}_{-0.017}$	σ_8	0.792	$0.776^{+0.098}_{-0.099}$
b_{DES}^1	1.478	$1.49^{+0.31}_{-0.27}$	$\Delta z_{\text{l,DES}}^3$	0.0045	$0.005^{+0.017}_{-0.017}$	S_8	0.7795	$0.774^{+0.049}_{-0.049}$
b_{DES}^2	1.721	$1.74^{+0.27}_{-0.23}$	$\Delta z_{\text{l,DES}}^4$	0.0029	$0.003^{+0.024}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4270	$0.424^{+0.027}_{-0.027}$
b_{DES}^3	1.712	$1.73^{+0.25}_{-0.21}$	$\Delta z_{\text{l,DES}}^5$	0.0005	$0.000^{+0.026}_{-0.025}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5816	$0.573^{+0.041}_{-0.040}$
b_{DES}^4	2.066	$2.08^{+0.28}_{-0.25}$	$\Delta z_{\text{s,DES}}^1$	-0.0001	$-0.004^{+0.038}_{-0.038}$	χ_{lensing}^2	7.47	$9.4 (\nu: 1.7)$
b_{DES}^5	2.135	$2.15^{+0.31}_{-0.28}$	$\Delta z_{\text{s,DES}}^2$	-0.0301	$-0.031^{+0.028}_{-0.028}$	χ_{DES}^2	250.0	$260.4 (\nu: 10.5)$
m_{DES}^1	0.012	$0.011^{+0.059}_{-0.060}$	$\Delta z_{\text{s,DES}}^3$	0.0081	$0.008^{+0.025}_{-0.025}$	χ_{prior}^2	1.3	$12.8 (\nu: 12.0)$
m_{DES}^2	0.010	$0.009^{+0.058}_{-0.058}$	$\Delta z_{\text{s,DES}}^4$	-0.0237	$-0.022^{+0.048}_{-0.048}$			

Best-fit $\chi_{\text{eff}}^2 = 258.84$; $\bar{\chi}_{\text{eff}}^2 = 282.60$; $R - 1 = 0.00944$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmargd: 7.47 WL - DES_1YR_final: 250.04

6.145 base_mnu_DES_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.315	$0.315^{+0.050}_{-0.053}$	m_{DES}^4	0.0098	$0.011^{+0.055}_{-0.055}$	Ω_{Λ}	0.685	$0.685^{+0.053}_{-0.050}$
Ω_b	0.04988	$0.0490^{+0.0048}_{-0.0047}$	$A_{\text{IA,DES}}$	0.423	$0.42^{+0.47}_{-0.42}$	$\Omega_{\nu} h^2$	0.0106	$0.0071^{+0.0038}_{-0.0062}$
H_0	66.80	$67.4^{+3.4}_{-3.0}$	$\alpha_{\text{IA,DES}}$	-1.9	—	$\ln(10^{10} A_{\text{s}})$	3.464	$3.26^{+0.48}_{-0.47}$
$\Sigma m_{\nu} [\text{eV}]$	0.987	—	$\Delta z_{\text{l,DES}}^1$	0.0037	$0.004^{+0.019}_{-0.019}$	σ_8	0.759	$0.751^{+0.11}_{-0.086}$
$10^9 A_{\text{s}}$	3.19	$2.6^{+1.6}_{-1.0}$	$\Delta z_{\text{l,DES}}^2$	0.0014	$0.001^{+0.017}_{-0.017}$	S_8	0.778	$0.768^{+0.057}_{-0.056}$
n_{s}	1.070	—	$\Delta z_{\text{l,DES}}^3$	0.0038	$0.004^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4260	$0.421^{+0.031}_{-0.030}$
b_{DES}^1	1.578	$1.58^{+0.28}_{-0.27}$	$\Delta z_{\text{l,DES}}^4$	0.0016	$0.002^{+0.023}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.568	$0.562^{+0.058}_{-0.051}$
b_{DES}^2	1.797	$1.80^{+0.27}_{-0.26}$	$\Delta z_{\text{l,DES}}^5$	0.0000	$0.000^{+0.025}_{-0.025}$	χ_{6DF}^2	0.002	$0.064 (\nu: 0.0)$
b_{DES}^3	1.773	$1.78^{+0.26}_{-0.25}$	$\Delta z_{\text{s,DES}}^1$	-0.0018	$-0.004^{+0.037}_{-0.036}$	χ_{MGS}^2	1.61	$1.69 (\nu: 0.3)$
b_{DES}^4	2.134	$2.14^{+0.32}_{-0.31}$	$\Delta z_{\text{s,DES}}^2$	-0.0289	$-0.030^{+0.028}_{-0.028}$	χ_{DR12BAO}^2	2.90	$4.0 (\nu: 1.1)$
b_{DES}^5	2.198	$2.21^{+0.38}_{-0.35}$	$\Delta z_{\text{s,DES}}^3$	0.0064	$0.007^{+0.025}_{-0.026}$	χ_{DES}^2	500.5	$512.5 (\nu: 11.7)$
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	-0.0234	$-0.021^{+0.048}_{-0.048}$	χ_{prior}^2	1.1	$13.1 (\nu: 12.3)$
m_{DES}^2	0.015	$0.014^{+0.056}_{-0.057}$	$\Omega_{\text{b}} h^2$	0.02226	$0.0222^{+0.0013}_{-0.0013}$	χ_{BAO}^2	4.51	$5.7 (\nu: 1.5)$
m_{DES}^3	0.006	$0.008^{+0.054}_{-0.054}$	$\Omega_{\text{c}} h^2$	0.1078	$0.114^{+0.032}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 506.14$; $\bar{\chi}_{\text{eff}}^2 = 531.37$; $R - 1 = 0.00865$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 2.90 WL - DES_1YR_final: 500.53

6.146 base_mnu_DESlens_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.354	$0.347^{+0.11}_{-0.081}$	$\alpha_{\text{IA,DES}}$	2.6	—	S_8	0.786	$0.776^{+0.065}_{-0.098}$
Ω_b	0.0459	$0.0462^{+0.0075}_{-0.0077}$	$\Delta z_{\text{s,DES}}^1$	0.0034	$0.002^{+0.038}_{-0.038}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4303	$0.425^{+0.036}_{-0.054}$
H_0	69.5	$69.5^{+6.8}_{-5.0}$	$\Delta z_{\text{s,DES}}^2$	-0.0207	$-0.020^{+0.030}_{-0.031}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.558	$0.554^{+0.064}_{-0.077}$
Σm_ν [eV]	0.739	—	$\Delta z_{\text{s,DES}}^3$	0.0074	$0.008^{+0.028}_{-0.028}$	χ_{6DF}^2	0.09	$0.17 (\nu: 0.0)$
$10^9 A_{\text{s}}$	1.79	$1.9^{+2.2}_{-1.3}$	$\Delta z_{\text{s,DES}}^4$	-0.016	$-0.016^{+0.053}_{-0.054}$	χ_{MGS}^2	0.98	$1.19 (\nu: 0.3)$
n_{s}	0.987	—	$\Omega_{\text{b}} h^2$	0.02220	$0.0222^{+0.0013}_{-0.0013}$	χ_{DR12BAO}^2	2.12	$3.6 (\nu: 1.2)$
m_{DES}^1	0.014	$0.014^{+0.058}_{-0.058}$	$\Omega_{\text{c}} h^2$	0.141	$0.140^{+0.081}_{-0.058}$	χ_{DES}^2	229.0	$233.2 (\nu: 3.8)$
m_{DES}^2	0.014	$0.013^{+0.056}_{-0.058}$	Ω_{Λ}	0.646	$0.653^{+0.081}_{-0.11}$	χ_{prior}^2	0.5	$8.5 (\nu: 8.1)$
m_{DES}^3	0.000	$0.001^{+0.057}_{-0.055}$	$\Omega_{\nu} h^2$	0.0079	$0.0061^{+0.0048}_{-0.0055}$	χ_{BAO}^2	3.19	$4.9 (\nu: 1.6)$
m_{DES}^4	0.018	$0.018^{+0.056}_{-0.055}$	$\ln(10^{10} A_{\text{s}})$	2.88	$2.85^{+0.91}_{-0.99}$			
$A_{\text{IA,DES}}$	1.29	$0.9^{+1.4}_{-2.8}$	σ_8	0.724	$0.72^{+0.12}_{-0.13}$			

Best-fit $\chi_{\text{eff}}^2 = 232.61$; $\bar{\chi}_{\text{eff}}^2 = 246.55$; $R - 1 = 0.00549$

χ_{eff}^2 : BAO - 6DF: 0.09 MGS: 0.98 DR12BAO: 2.12 WL - DES_1YR_final: 228.96

6.147 base_mnu_DESwt_DESpriors_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.354	$0.322^{+0.050}_{-0.056}$	m_{DES}^4	0.005	$0.007^{+0.057}_{-0.056}$	Ω_{Λ}	0.646	$0.678^{+0.056}_{-0.050}$
Ω_b	0.04657	$0.0486^{+0.0049}_{-0.0044}$	$A_{\text{IA,DES}}$	0.280	$0.38^{+0.47}_{-0.41}$	$\Omega_{\nu} h^2$	0.01074	$0.0076^{+0.0033}_{-0.0065}$
H_0	69.06	$67.6^{+3.4}_{-3.1}$	$\alpha_{\text{IA,DES}}$	-4.1	—	$\ln(10^{10} A_{\text{s}})$	3.097	$3.23^{+0.49}_{-0.47}$
Σm_ν [eV]	0.999	—	$\Delta z_{\text{i,DES}}^1$	0.0026	$0.003^{+0.020}_{-0.020}$	σ_8	0.712	$0.74^{+0.12}_{-0.10}$
$10^9 A_{\text{s}}$	2.21	$2.6^{+1.5}_{-1.1}$	$\Delta z_{\text{i,DES}}^2$	0.0018	$0.002^{+0.017}_{-0.018}$	S_8	0.773	$0.768^{+0.088}_{-0.086}$
n_{s}	0.878	—	$\Delta z_{\text{i,DES}}^3$	0.0046	$0.005^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4235	$0.420^{+0.048}_{-0.047}$
b_{DES}^1	1.599	$1.55^{+0.31}_{-0.29}$	$\Delta z_{\text{i,DES}}^4$	0.0032	$0.003^{+0.024}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.549	$0.559^{+0.074}_{-0.067}$
b_{DES}^2	1.855	$1.80^{+0.32}_{-0.28}$	$\Delta z_{\text{i,DES}}^5$	0.0007	$0.000^{+0.025}_{-0.025}$	χ_{6DF}^2	0.089	$0.08 (\nu: 0.0)$
b_{DES}^3	1.830	$1.79^{+0.30}_{-0.28}$	$\Delta z_{\text{s,DES}}^1$	0.0014	$-0.004^{+0.038}_{-0.038}$	χ_{MGS}^2	0.98	$1.51 (\nu: 0.2)$
b_{DES}^4	2.200	$2.15^{+0.38}_{-0.33}$	$\Delta z_{\text{s,DES}}^2$	-0.0304	$-0.031^{+0.028}_{-0.028}$	χ_{DR12BAO}^2	2.11	$3.8 (\nu: 1.3)$
b_{DES}^5	2.253	$2.21^{+0.42}_{-0.37}$	$\Delta z_{\text{s,DES}}^3$	0.0070	$0.009^{+0.026}_{-0.025}$	χ_{DES}^2	249.7	$260.3 (\nu: 11.5)$
m_{DES}^1	0.013	$0.011^{+0.058}_{-0.058}$	$\Delta z_{\text{s,DES}}^4$	-0.023	$-0.022^{+0.052}_{-0.048}$	χ_{prior}^2	1.4	$13.9 (\nu: 13.7)$
m_{DES}^2	0.009	$0.009^{+0.059}_{-0.059}$	$\Omega_{\text{b}} h^2$	0.02221	$0.0222^{+0.0013}_{-0.0013}$	χ_{BAO}^2	3.19	$5.4 (\nu: 1.5)$
m_{DES}^3	0.019	$0.021^{+0.056}_{-0.056}$	$\Omega_{\text{c}} h^2$	0.1356	$0.117^{+0.029}_{-0.028}$			

Best-fit $\chi_{\text{eff}}^2 = 254.22$; $\bar{\chi}_{\text{eff}}^2 = 279.70$; $R - 1 = 0.00628$

χ_{eff}^2 : BAO - 6DF: 0.09 MGS: 0.98 DR12BAO: 2.12 WL - DES_1YR_final: 249.66

6.148 base_mnu_DES_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.3165	$0.310^{+0.046}_{-0.046}$	m_{DES}^4	0.008	$0.0095^{+0.053}_{-0.053}$	Ω_{Λ}	0.6835	$0.690^{+0.046}_{-0.046}$
Ω_b	0.04959	$0.0491^{+0.0043}_{-0.0044}$	$A_{\text{IA,DES}}$	0.421	$0.43^{+0.47}_{-0.40}$	$\Omega_{\nu} h^2$	0.0104	$0.0067^{+0.0042}_{-0.0058}$
H_0	66.94	$67.3^{+3.2}_{-2.8}$	$\alpha_{\text{IA,DES}}$	-2.1	—	$\ln(10^{10} A_{\text{s}})$	3.439	$3.29^{+0.25}_{-0.31}$
Σm_{ν} [eV]	0.965	—	$\Delta z_{\text{l,DES}}^1$	0.0037	$0.004^{+0.019}_{-0.019}$	σ_8	0.762	$0.765^{+0.068}_{-0.057}$
$10^9 A_{\text{s}}$	3.11	$2.72^{+0.74}_{-0.75}$	$\Delta z_{\text{l,DES}}^2$	0.00099	$0.001^{+0.017}_{-0.017}$	S_8	0.7829	$0.777^{+0.038}_{-0.038}$
n_{s}	1.070	—	$\Delta z_{\text{l,DES}}^3$	0.0038	$0.004^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4288	$0.425^{+0.021}_{-0.021}$
b_{DES}^1	1.578	$1.56^{+0.22}_{-0.23}$	$\Delta z_{\text{l,DES}}^4$	0.0015	$0.002^{+0.024}_{-0.023}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5717	$0.570^{+0.034}_{-0.031}$
b_{DES}^2	1.793	$1.77^{+0.18}_{-0.19}$	$\Delta z_{\text{l,DES}}^5$	0.0002	$0.000^{+0.025}_{-0.025}$	χ_{lensing}^2	7.78	$9.2 (\nu: 1.3)$
b_{DES}^3	1.773	$1.75^{+0.16}_{-0.17}$	$\Delta z_{\text{s,DES}}^1$	-0.0008	$-0.004^{+0.036}_{-0.037}$	$\chi_{6\text{DF}}^2$	0.002	$0.057 (\nu: 0.0)$
b_{DES}^4	2.135	$2.11^{+0.19}_{-0.19}$	$\Delta z_{\text{s,DES}}^2$	-0.0293	$-0.030^{+0.027}_{-0.028}$	χ_{MGS}^2	1.61	$1.80 (\nu: 0.2)$
b_{DES}^5	2.206	$2.18^{+0.24}_{-0.23}$	$\Delta z_{\text{s,DES}}^3$	0.0057	$0.007^{+0.025}_{-0.025}$	χ_{DR12BAO}^2	2.83	$4.1 (\nu: 1.1)$
m_{DES}^1	0.012	$0.011^{+0.059}_{-0.059}$	$\Delta z_{\text{s,DES}}^4$	-0.0242	$-0.023^{+0.048}_{-0.046}$	χ_{DES}^2	500.6	$511.3 (\nu: 9.9)$
m_{DES}^2	0.015	$0.014^{+0.058}_{-0.057}$	$\Omega_{\text{b}} h^2$	0.02222	$0.0222^{+0.0013}_{-0.0013}$	χ_{prior}^2	1.3	$13.1 (\nu: 12.1)$
m_{DES}^3	0.005	$0.006^{+0.052}_{-0.052}$	$\Omega_{\text{c}} h^2$	0.1093	$0.112^{+0.027}_{-0.021}$	χ_{BAO}^2	4.44	$5.9 (\nu: 1.5)$

Best-fit $\chi_{\text{eff}}^2 = 514.08$; $\bar{\chi}_{\text{eff}}^2 = 539.54$; $R - 1 = 0.00724$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 2.83 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8_CMBmarged: 7.78 WL - DES_1YR_final: 500.59

6.149 base_mnu_DESlens_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.3271	$0.318^{+0.051}_{-0.048}$	$\alpha_{\text{IA,DES}}$	2.6	—	S_8	0.800	$0.794^{+0.049}_{-0.052}$
Ω_b	0.04896	$0.0484^{+0.0049}_{-0.0047}$	$\Delta z_{\text{s,DES}}^1$	0.0035	$0.003^{+0.036}_{-0.037}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4380	$0.435^{+0.027}_{-0.029}$
H_0	67.33	$67.7^{+3.5}_{-3.2}$	$\Delta z_{\text{s,DES}}^2$	-0.0199	$-0.020^{+0.029}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5792	$0.579^{+0.038}_{-0.038}$
Σm_{ν} [eV]	0.991	—	$\Delta z_{\text{s,DES}}^3$	0.0062	$0.006^{+0.027}_{-0.028}$	χ_{lensing}^2	7.38	$9.0 (\nu: 1.3)$
$10^9 A_{\text{s}}$	2.91	$2.51^{+0.86}_{-0.75}$	$\Delta z_{\text{s,DES}}^4$	-0.019	$-0.019^{+0.053}_{-0.052}$	$\chi_{6\text{DF}}^2$	0.020	$0.064 (\nu: 0.0)$
n_{s}	1.063	—	$\Omega_{\text{b}} h^2$	0.02219	$0.0222^{+0.0013}_{-0.0013}$	χ_{MGS}^2	1.34	$1.62 (\nu: 0.2)$
m_{DES}^1	0.015	$0.014^{+0.058}_{-0.059}$	$\Omega_{\text{c}} h^2$	0.1154	$0.118^{+0.033}_{-0.025}$	χ_{DR12BAO}^2	2.61	$3.9 (\nu: 1.3)$
m_{DES}^2	0.013	$0.012^{+0.057}_{-0.059}$	Ω_{Λ}	0.6729	$0.682^{+0.048}_{-0.051}$	χ_{DES}^2	229.0	$232.2 (\nu: 2.8)$
m_{DES}^3	-0.003	$-0.003^{+0.053}_{-0.053}$	$\Omega_{\nu} h^2$	0.0107	$0.0061^{+0.0048}_{-0.0055}$	χ_{prior}^2	0.6	$8.5 (\nu: 8.0)$
m_{DES}^4	0.015	$0.014^{+0.056}_{-0.054}$	$\ln(10^{10} A_{\text{s}})$	3.371	$3.21^{+0.31}_{-0.32}$	χ_{BAO}^2	3.97	$5.6 (\nu: 1.6)$
$A_{\text{IA,DES}}$	1.31	$1.0^{+1.3}_{-1.4}$	σ_8	0.766	$0.772^{+0.069}_{-0.061}$			

Best-fit $\chi_{\text{eff}}^2 = 240.95$; $\bar{\chi}_{\text{eff}}^2 = 255.26$; $R - 1 = 0.00788$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 2.61 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8_CMBmarged: 7.38 WL - DES_1YR_final: 228.99

6.150 base_mnu_DESw_t_DESpriors_lensing_BAO_CookeDH

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
Ω_{m}	0.3326	$0.320^{+0.048}_{-0.051}$	m_{DES}^4	0.005	$0.006^{+0.055}_{-0.056}$	Ω_{Λ}	0.6674	$0.680^{+0.051}_{-0.048}$
Ω_b	0.04819	$0.0486^{+0.0046}_{-0.0045}$	$A_{\text{IA,DES}}$	0.310	$0.39^{+0.47}_{-0.39}$	$\Omega_{\nu} h^2$	0.01075	$0.0072^{+0.0036}_{-0.0063}$
H_0	67.85	$67.6^{+3.2}_{-3.0}$	$\alpha_{\text{IA,DES}}$	-3.7	—	$\ln(10^{10} A_{\text{s}})$	3.290	$3.24^{+0.29}_{-0.29}$
$\Sigma m_{\nu} [\text{eV}]$	0.999	—	$\Delta z_{\text{l,DES}}^1$	0.0023	$0.003^{+0.020}_{-0.020}$	σ_8	0.744	$0.755^{+0.067}_{-0.057}$
$10^9 A_{\text{s}}$	2.69	$2.58^{+0.84}_{-0.67}$	$\Delta z_{\text{l,DES}}^2$	0.0016	$0.002^{+0.017}_{-0.017}$	S_8	0.7838	$0.778^{+0.048}_{-0.046}$
n_{s}	1.003	—	$\Delta z_{\text{l,DES}}^3$	0.0046	$0.005^{+0.017}_{-0.017}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4293	$0.426^{+0.026}_{-0.025}$
b_{DES}^1	1.564	$1.53^{+0.23}_{-0.23}$	$\Delta z_{\text{l,DES}}^4$	0.0029	$0.003^{+0.024}_{-0.024}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5653	$0.567^{+0.036}_{-0.033}$
b_{DES}^2	1.814	$1.78^{+0.19}_{-0.19}$	$\Delta z_{\text{l,DES}}^5$	0.0004	$0.000^{+0.025}_{-0.025}$	χ_{lensing}^2	8.36	$9.6 (\nu: 1.6)$
b_{DES}^3	1.797	$1.77^{+0.16}_{-0.16}$	$\Delta z_{\text{s,DES}}^1$	0.0009	$-0.004^{+0.037}_{-0.037}$	χ_{6DF}^2	0.022	$0.066 (\nu: 0.0)$
b_{DES}^4	2.163	$2.13^{+0.18}_{-0.19}$	$\Delta z_{\text{s,DES}}^2$	-0.0304	$-0.031^{+0.029}_{-0.029}$	χ_{MGS}^2	1.34	$1.58 (\nu: 0.2)$
b_{DES}^5	2.232	$2.20^{+0.23}_{-0.25}$	$\Delta z_{\text{s,DES}}^3$	0.0064	$0.008^{+0.025}_{-0.024}$	χ_{DR12BAO}^2	2.39	$3.8 (\nu: 1.1)$
m_{DES}^1	0.013	$0.011^{+0.059}_{-0.060}$	$\Delta z_{\text{s,DES}}^4$	-0.0245	$-0.024^{+0.048}_{-0.047}$	χ_{DES}^2	250.1	$259.8 (\nu: 10.3)$
m_{DES}^2	0.0095	$0.009^{+0.057}_{-0.059}$	$\Omega_{\text{b}} h^2$	0.02218	$0.0222^{+0.0013}_{-0.0013}$	χ_{prior}^2	1.4	$13.8 (\nu: 13.4)$
m_{DES}^3	0.019	$0.020^{+0.055}_{-0.054}$	$\Omega_{\text{c}} h^2$	0.1202	$0.117^{+0.028}_{-0.025}$	χ_{BAO}^2	3.75	$5.4 (\nu: 1.4)$

Best-fit $\chi_{\text{eff}}^2 = 263.60$; $\bar{\chi}_{\text{eff}}^2 = 288.63$; $R - 1 = 0.00816$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 2.39 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 8.36 WL - DES_1YR_final: 250.06

6.151 base_mnu_plikHM_TTTEE_lowl_lowE_DES

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022543	$0.02251^{+0.00039}_{-0.00041}$	$\Delta z_{\text{l,DES}}^1$	0.0034	$0.004^{+0.019}_{-0.019}$	z_{drag}	1060.20	$1060.12^{+0.81}_{-0.80}$
$\Omega_c h^2$	0.11794	$0.1180^{+0.0031}_{-0.0028}$	$\Delta z_{\text{l,DES}}^2$	0.0006	$0.001^{+0.017}_{-0.017}$	r_{drag}	147.45	$147.47^{+0.67}_{-0.69}$
$100\theta_{\text{MC}}$	1.04114	$1.04110^{+0.00078}_{-0.00084}$	$\Delta z_{\text{l,DES}}^3$	0.0036	$0.003^{+0.017}_{-0.017}$	k_{D}	0.14061	$0.14058^{+0.00079}_{-0.00078}$
τ	0.0554	$0.055^{+0.022}_{-0.021}$	$\Delta z_{\text{l,DES}}^4$	0.0007	$0.001^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	0.160625	$0.16066^{+0.00046}_{-0.00046}$
Σm_ν [eV]	0.000	< 0.570	$\Delta z_{\text{l,DES}}^5$	-0.0007	$-0.001^{+0.025}_{-0.025}$	z_{eq}	3357	3357^{+68}_{-64}
$\ln(10^{10} A_{\text{s}})$	3.0423	$3.040^{+0.043}_{-0.043}$	$\Delta z_{\text{s,DES}}^1$	0.0000	$-0.004^{+0.036}_{-0.037}$	k_{eq}	0.010246	$0.01025^{+0.00021}_{-0.00019}$
n_{s}	0.9706	$0.969^{+0.011}_{-0.011}$	$\Delta z_{\text{s,DES}}^2$	-0.0300	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{eq}}$	0.8221	$0.822^{+0.012}_{-0.013}$
y_{cal}	1.0006	$1.0005^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^3$	0.0035	$0.004^{+0.024}_{-0.025}$	$100\theta_{\text{s,eq}}$	0.4538	$0.4539^{+0.0064}_{-0.0065}$
A_{217}^{CIB}	46.5	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^4$	-0.0307	$-0.029^{+0.048}_{-0.047}$	$H(0.15)$	73.95	$73.1^{+1.8}_{-5.0}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.57	—	H_0	68.82	$67.9^{+2.0}_{-5.7}$	$D_{\text{M}}(0.15)$	631.0	639^{+53}_{-17}
A_{143}^{tSZ}	7.16	$5.5^{+4.5}_{-4.6}$	Ω_{Λ}	0.703	$0.692^{+0.025}_{-0.078}$	$H(0.38)$	83.81	$83.2^{+1.3}_{-3.8}$
A_{100}^{PS}	248	259^{+70}_{-70}	Ω_{m}	0.297	$0.308^{+0.078}_{-0.025}$	$D_{\text{M}}(0.38)$	1508	1525^{+110}_{-34}
A_{143}^{PS}	48.3	45^{+20}_{-20}	$\Omega_{\text{m}} h^2$	0.1405	$0.1416^{+0.0076}_{-0.0034}$	$H(0.51)$	90.39	$89.9^{+1.1}_{-3.2}$
$A_{143 \times 217}^{\text{PS}}$	50.1	41^{+20}_{-20}	$\Omega_{\nu} h^2$	0.00000	< 0.00613	$D_{\text{M}}(0.51)$	1956	1976^{+130}_{-41}
A_{217}^{PS}	120.0	114^{+30}_{-30}	$\Omega_{\text{m}} h^3$	0.09668	$0.0961^{+0.0012}_{-0.0035}$	$H(0.61)$	95.90	$95.44^{+0.93}_{-2.7}$
A^{kSZ}	0.0	—	σ_8	0.818	$0.795^{+0.034}_{-0.11}$	$D_{\text{M}}(0.61)$	2278	2300^{+140}_{-44}
A_{100}^{dustTT}	8.82	$9.0^{+4.7}_{-4.7}$	S_8	0.8129	$0.804^{+0.034}_{-0.041}$	$H(2.33)$	235.07	$235.6^{+4.2}_{-2.0}$
A_{143}^{dustTT}	11.07	$11.0^{+4.7}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4453	$0.440^{+0.019}_{-0.022}$	$D_{\text{M}}(2.33)$	5736	5759^{+140}_{-44}
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.7^{+8.3}_{-8.5}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6034	$0.591^{+0.024}_{-0.054}$	$f\sigma_8(0.15)$	0.4503	$0.446^{+0.018}_{-0.023}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.986	$0.964^{+0.037}_{-0.099}$	$\sigma_8(0.15)$	0.757	$0.735^{+0.032}_{-0.11}$
A_{100}^{dustTE}	0.113	$0.114^{+0.098}_{-0.096}$	$r_{\text{drag}} h$	101.5	$100.2^{+3.3}_{-8.7}$	$f\sigma_8(0.38)$	0.4720	$0.465^{+0.017}_{-0.036}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.076}_{-0.075}$	$\langle d^2 \rangle^{1/2}$	2.419	$2.404^{+0.064}_{-0.064}$	$\sigma_8(0.38)$	0.672	$0.652^{+0.029}_{-0.10}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_{re}	7.72	$7.6^{+2.0}_{-2.3}$	$f\sigma_8(0.51)$	0.4722	$0.464^{+0.017}_{-0.043}$
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	2.095	$2.090^{+0.092}_{-0.088}$	$\sigma_8(0.51)$	0.630	$0.611^{+0.028}_{-0.097}$
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.20}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8754	$1.874^{+0.028}_{-0.028}$	$f\sigma_8(0.61)$	0.4684	$0.459^{+0.017}_{-0.047}$
A_{217}^{dustTE}	2.06	$2.06^{+0.70}_{-0.70}$	D_{40}	1220.0	1221^{+32}_{-30}	$\sigma_8(0.61)$	0.600	$0.581^{+0.027}_{-0.094}$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5744	5745^{+100}_{-100}	$f\sigma_8(2.33)$	0.3019	$0.294^{+0.012}_{-0.044}$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	D_{810}	2539.2	2537^{+34}_{-34}	$\sigma_8(2.33)$	0.3124	$0.303^{+0.016}_{-0.045}$
b_{DES}^1	1.484	$1.53^{+0.30}_{-0.21}$	D_{1420}	819.2	818^{+12}_{-12}	f_{2000}^{143}	28.2	29^{+7}_{-7}
b_{DES}^2	1.682	$1.73^{+0.29}_{-0.16}$	D_{2000}	231.80	$231.2^{+4.1}_{-4.1}$	$f_{2000}^{143 \times 217}$	31.49	32^{+5}_{-5}
b_{DES}^3	1.671	$1.72^{+0.27}_{-0.14}$	$n_{\text{s},0.002}$	0.9706	$0.969^{+0.011}_{-0.011}$	f_{2000}^{217}	106.03	$106.8^{+4.6}_{-4.6}$
b_{DES}^4	2.026	$2.08^{+0.31}_{-0.16}$	Y_{P}	0.245460	$0.24545^{+0.00016}_{-0.00016}$	χ_{small}^2	396.08	$397.0 (\nu: 1.6)$
b_{DES}^5	2.130	$2.18^{+0.32}_{-0.23}$	$Y_{\text{P}}^{\text{BBN}}$	0.246786	$0.24677^{+0.00016}_{-0.00016}$	χ_{lowl}^2	22.51	$22.56 (\nu: 0.3)$
m_{DES}^1	0.014	$0.012^{+0.058}_{-0.058}$	10^5D/H	2.554	$2.560^{+0.077}_{-0.070}$	χ_{plik}^2	2346.9	$2364.5 (\nu: 23.9)$
m_{DES}^2	0.013	$0.013^{+0.058}_{-0.057}$	Age/Gyr	13.736	$13.79^{+0.32}_{-0.099}$	χ_{DES}^2	508.9	$518.1 (\nu: 11.9)$
m_{DES}^3	-0.003	$-0.002^{+0.052}_{-0.052}$	z_*	1089.52	$1089.57^{+0.82}_{-0.65}$	χ_{prior}^2	3.9	$25 (\nu: 23.3)$
m_{DES}^4	0.002	$0.003^{+0.054}_{-0.053}$	r_*	144.84	$144.85^{+0.66}_{-0.72}$	χ_{CMB}^2	2765.5	$2784.0 (\nu: 23.5)$
$A_{\text{IA,DES}}$	0.454	$0.46^{+0.47}_{-0.39}$	$100\theta_*$	1.04129	$1.04129^{+0.00077}_{-0.00078}$			
$\alpha_{\text{IA,DES}}$	-2.3	—	$D_{\text{M}}(z_*)/\text{Gpc}$	13.910	$13.910^{+0.062}_{-0.067}$			

Best-fit $\chi_{\text{eff}}^2 = 3278.36$; $\bar{\chi}_{\text{eff}}^2 = 3326.78$; $R - 1 = 0.00796$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.07 commander_dx12_v3.2_29: 22.51 plik_rd12_HM_v22b_TTTEE: 2346.89 WL - DES_1YR_final: 508.94

6.152 base_mnu_plikHM_TTTEE_lowl_lowE_DES_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022502	$0.02252^{+0.00035}_{-0.00035}$	$\Delta z_{\text{l,DES}}^2$	0.0005	$0.001^{+0.017}_{-0.017}$	k_D	0.14065	$0.14058^{+0.00075}_{-0.00075}$
$\Omega_c h^2$	0.11837	$0.1180^{+0.0023}_{-0.0024}$	$\Delta z_{\text{l,DES}}^3$	0.0034	$0.003^{+0.017}_{-0.017}$	$100\theta_D$	0.160663	$0.16066^{+0.00044}_{-0.00043}$
$100\theta_{\text{MC}}$	1.04114	$1.04112^{+0.00073}_{-0.00076}$	$\Delta z_{\text{l,DES}}^4$	0.0009	$0.001^{+0.024}_{-0.023}$	z_{eq}	3366	3357^{+53}_{-55}
τ	0.0538	$0.054^{+0.022}_{-0.021}$	$\Delta z_{\text{l,DES}}^5$	-0.0008	$-0.001^{+0.025}_{-0.025}$	k_{eq}	0.010274	$0.01025^{+0.00016}_{-0.00017}$
Σm_ν [eV]	0.000	< 0.235	$\Delta z_{\text{s,DES}}^1$	0.0009	$-0.003^{+0.037}_{-0.037}$	$100\theta_{\text{eq}}$	0.8202	$0.822^{+0.011}_{-0.010}$
$\ln(10^{10} A_s)$	3.0387	$3.039^{+0.043}_{-0.042}$	$\Delta z_{\text{s,DES}}^2$	-0.0303	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	0.4529	$0.4538^{+0.0054}_{-0.0051}$
n_s	0.9691	$0.9694^{+0.0098}_{-0.010}$	$\Delta z_{\text{s,DES}}^3$	0.0025	$0.004^{+0.025}_{-0.025}$	$H(0.15)$	73.78	$73.4^{+1.1}_{-1.5}$
y_{cal}	0.99999	$1.0005^{+0.0064}_{-0.0064}$	$\Delta z_{\text{s,DES}}^4$	-0.0314	$-0.030^{+0.046}_{-0.047}$	$D_{\text{M}}(0.15)$	632.6	636^{+14}_{-11}
A_{217}^{CIB}	47.7	47^{+20}_{-20}	H_0	68.62	$68.2^{+1.3}_{-1.7}$	$H(0.38)$	83.69	$83.40^{+0.86}_{-1.2}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.40	—	Ω_Λ	0.7009	$0.697^{+0.015}_{-0.020}$	$D_{\text{M}}(0.38)$	1511.7	1519^{+30}_{-22}
A_{143}^{tSZ}	7.3	—	Ω_{m}	0.2991	$0.303^{+0.020}_{-0.015}$	$H(0.51)$	90.29	$90.04^{+0.72}_{-1.0}$
A_{100}^{PS}	250	259^{+70}_{-70}	$\Omega_{\text{m}} h^2$	0.14087	$0.1412^{+0.0024}_{-0.0023}$	$D_{\text{M}}(0.51)$	1960.2	1969^{+35}_{-26}
A_{143}^{PS}	46.2	45^{+20}_{-20}	$\Omega_\nu h^2$	0.00000	< 0.00252	$H(0.61)$	95.82	$95.60^{+0.62}_{-0.87}$
$A_{143 \times 217}^{\text{PS}}$	46.2	41^{+20}_{-20}	$\Omega_{\text{m}} h^3$	0.09667	$0.09636^{+0.00094}_{-0.0013}$	$D_{\text{M}}(0.61)$	2282.6	2292^{+39}_{-28}
A_{217}^{PS}	118.3	114^{+30}_{-30}	σ_8	0.8173	$0.802^{+0.027}_{-0.046}$	$H(2.33)$	235.31	$235.4^{+1.5}_{-1.4}$
A^{kSZ}	0.0	—	S_8	0.8161	$0.807^{+0.031}_{-0.034}$	$D_{\text{M}}(2.33)$	5738.8	5750^{+44}_{-30}
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.8}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4470	$0.442^{+0.017}_{-0.019}$	$f\sigma_8(0.15)$	0.4518	$0.447^{+0.016}_{-0.018}$
A_{143}^{dustTT}	11.02	$11.0^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6044	$0.596^{+0.020}_{-0.028}$	$\sigma_8(0.15)$	0.7563	$0.742^{+0.025}_{-0.043}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.2}_{-8.3}$	$\sigma_8/h^{0.5}$	0.9866	$0.971^{+0.032}_{-0.046}$	$f\sigma_8(0.38)$	0.4729	$0.467^{+0.015}_{-0.019}$
A_{217}^{dustTT}	94.6	94^{+20}_{-20}	$r_{\text{drag}} h$	101.14	$100.6^{+2.1}_{-2.5}$	$\sigma_8(0.38)$	0.6716	$0.659^{+0.023}_{-0.039}$
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.094}$	$\langle d^2 \rangle^{1/2}$	2.422	$2.408^{+0.061}_{-0.065}$	$f\sigma_8(0.51)$	0.4729	$0.467^{+0.015}_{-0.020}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.076}_{-0.074}$	z_{re}	7.56	$7.6^{+2.0}_{-2.3}$	$\sigma_8(0.51)$	0.6290	$0.617^{+0.021}_{-0.037}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.21}$	$10^9 A_s$	2.088	$2.089^{+0.091}_{-0.087}$	$f\sigma_8(0.61)$	0.4688	$0.463^{+0.014}_{-0.020}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$10^9 A_s e^{-2\tau}$	1.8748	$1.874^{+0.027}_{-0.028}$	$\sigma_8(0.61)$	0.5987	$0.587^{+0.020}_{-0.035}$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	D_{40}	1221.3	1222^{+30}_{-30}	$f\sigma_8(2.33)$	0.3014	$0.2967^{+0.0094}_{-0.016}$
A_{217}^{dustTE}	2.08	$2.06^{+0.71}_{-0.71}$	D_{220}	5736	5744^{+99}_{-100}	$\sigma_8(2.33)$	0.3118	$0.306^{+0.010}_{-0.018}$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	D_{810}	2536.1	2537^{+34}_{-35}	f_{2000}^{143}	28.6	29^{+7}_{-7}
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	D_{1420}	817.6	818^{+12}_{-12}	$f_{2000}^{143 \times 217}$	31.78	32^{+5}_{-5}
b_{DES}^1	1.486	$1.51^{+0.20}_{-0.20}$	D_{2000}	231.24	$231.2^{+4.0}_{-4.1}$	f_{2000}^{217}	106.33	$106.7^{+4.5}_{-4.6}$
b_{DES}^2	1.684	$1.71^{+0.16}_{-0.15}$	$n_{\text{s},0.002}$	0.9691	$0.9694^{+0.0098}_{-0.010}$	χ_{small}^2	395.87	$396.9 (\nu: 1.5)$
b_{DES}^3	1.672	$1.70^{+0.14}_{-0.12}$	Y_{P}	0.245445	$0.24545^{+0.00014}_{-0.00014}$	χ_{lowl}^2	22.73	$22.63 (\nu: 0.3)$
b_{DES}^4	2.029	$2.06^{+0.17}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	0.246772	$0.24678^{+0.00014}_{-0.00014}$	χ_{plik}^2	2346.2	$2363.3 (\nu: 21.9)$
b_{DES}^5	2.133	$2.16^{+0.21}_{-0.21}$	$10^5 D/H$	2.562	$2.559^{+0.064}_{-0.063}$	$\chi_{6\text{DF}}^2$	0.018	$0.033 (\nu: 0.0)$
m_{DES}^1	0.014	$0.012^{+0.058}_{-0.058}$	Age/Gyr	13.742	$13.77^{+0.10}_{-0.067}$	χ_{MGS}^2	2.12	$1.84 (\nu: 0.1)$
m_{DES}^2	0.013	$0.013^{+0.057}_{-0.057}$	z_*	1089.61	$1089.56^{+0.56}_{-0.54}$	χ_{DR12BAO}^2	3.42	$3.93 (\nu: 0.4)$
m_{DES}^3	-0.005	$-0.003^{+0.051}_{-0.051}$	r_*	144.76	$144.85^{+0.58}_{-0.57}$	χ_{DES}^2	509.5	$518.3 (\nu: 11.8)$
m_{DES}^4	0.002	$0.003^{+0.052}_{-0.052}$	$100\theta_*$	1.04127	$1.04130^{+0.00074}_{-0.00075}$	χ_{prior}^2	4.2	$25 (\nu: 22.8)$
$A_{\text{IA,DES}}$	0.444	$0.47^{+0.47}_{-0.39}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.902	$13.910^{+0.056}_{-0.055}$	χ_{BAO}^2	5.56	$5.81 (\nu: 0.3)$
$\alpha_{\text{IA,DES}}$	-2.6	—	z_{drag}	1060.12	$1060.13^{+0.76}_{-0.73}$	χ_{CMB}^2	2764.8	$2782.8 (\nu: 21.5)$
$\Delta z_{\text{l,DES}}^1$	0.0033	$0.004^{+0.020}_{-0.019}$	r_{drag}	147.38	$147.47^{+0.61}_{-0.60}$			

Best-fit $\chi_{\text{eff}}^2 = 3284.12$; $\bar{\chi}_{\text{eff}}^2 = 3331.54$; $R - 1 = 0.01000$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.12 DR12BAO: 3.42 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3_2_29: 22.73 plik_rd12_HM_v22b_TTTEE: 2346.19 WL - DES_1YR_final: 509.52

6.153 base_mnu_plikHM_TTTEE_lowl_lowE_DES_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022566	$0.02252^{+0.00038}_{-0.00037}$	$\alpha_{\text{IA,DES}}$	-2.4	—	$100\theta_*$	1.04131	$1.04128^{+0.00075}_{-0.00077}$
$\Omega_c h^2$	0.11794	$0.1181^{+0.0029}_{-0.0027}$	$\Delta z_{\text{l,DES}}^1$	0.0033	$0.003^{+0.020}_{-0.019}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.908	$13.907^{+0.060}_{-0.061}$
$100\theta_{\text{MC}}$	1.04118	$1.04111^{+0.00076}_{-0.00079}$	$\Delta z_{\text{l,DES}}^2$	0.0007	$0.001^{+0.017}_{-0.017}$	z_{drag}	1060.24	$1060.15^{+0.81}_{-0.75}$
τ	0.0561	$0.057^{+0.021}_{-0.019}$	$\Delta z_{\text{l,DES}}^3$	0.0035	$0.003^{+0.017}_{-0.017}$	r_{drag}	147.43	$147.43^{+0.65}_{-0.65}$
$\Sigma m_\nu [\text{eV}]$	0.000	< 0.287	$\Delta z_{\text{l,DES}}^4$	0.0008	$0.001^{+0.023}_{-0.023}$	k_{D}	0.14066	$0.14062^{+0.00076}_{-0.00076}$
$\ln(10^{10} A_{\text{s}})$	3.0445	$3.045^{+0.040}_{-0.038}$	$\Delta z_{\text{l,DES}}^5$	-0.0007	$-0.001^{+0.025}_{-0.025}$	$100\theta_{\text{D}}$	0.160597	$0.16064^{+0.00044}_{-0.00045}$
n_{s}	0.9707	$0.969^{+0.010}_{-0.010}$	$\Delta z_{\text{s,DES}}^1$	0.0009	$-0.003^{+0.037}_{-0.037}$	z_{eq}	3358	3360^{+64}_{-60}
y_{cal}	1.0008	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^2$	-0.0303	$-0.031^{+0.027}_{-0.028}$	k_{eq}	0.010248	$0.01026^{+0.00019}_{-0.00018}$
A_{217}^{CIB}	45.4	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^3$	0.0033	$0.004^{+0.024}_{-0.024}$	$100\theta_{\text{eq}}$	0.8220	$0.821^{+0.012}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.69	—	$\Delta z_{\text{s,DES}}^4$	-0.0301	$-0.031^{+0.047}_{-0.046}$	$100\theta_{\text{s,eq}}$	0.4538	$0.4535^{+0.0060}_{-0.0061}$
A_{143}^{tSZ}	7.15	$5.5^{+4.4}_{-4.7}$	H_0	68.84	$68.2^{+1.6}_{-3.2}$	$H(0.15)$	73.97	$73.4^{+1.4}_{-2.8}$
A_{100}^{PS}	247	258^{+70}_{-70}	Ω_{Λ}	0.7035	$0.696^{+0.019}_{-0.042}$	$D_{\text{M}}(0.15)$	630.8	636^{+29}_{-13}
A_{143}^{PS}	49.7	45^{+20}_{-20}	Ω_{m}	0.2965	$0.304^{+0.042}_{-0.019}$	$H(0.38)$	83.84	$83.4^{+1.1}_{-2.2}$
$A_{143 \times 217}^{\text{PS}}$	53.2	42^{+20}_{-20}	$\Omega_{\text{m}} h^2$	0.14051	$0.1413^{+0.0046}_{-0.0029}$	$D_{\text{M}}(0.38)$	1508.0	1518^{+58}_{-27}
A_{217}^{PS}	121.9	115^{+30}_{-30}	$\Omega_{\nu} h^2$	0.00000	< 0.00309	$H(0.51)$	90.41	$90.06^{+0.89}_{-1.8}$
A^{kSZ}	0.0	—	$\Omega_{\text{m}} h^3$	0.09674	$0.09642^{+0.00094}_{-0.0018}$	$D_{\text{M}}(0.51)$	1956	1968^{+69}_{-32}
A_{100}^{dustTT}	8.76	$8.9^{+4.6}_{-4.8}$	σ_8	0.8185	$0.807^{+0.023}_{-0.055}$	$H(0.61)$	95.92	$95.62^{+0.74}_{-1.5}$
A_{143}^{dustTT}	11.05	$10.9^{+4.7}_{-4.7}$	S_8	0.8136	$0.811^{+0.028}_{-0.027}$	$D_{\text{M}}(0.61)$	2278	2291^{+75}_{-35}
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.2}_{-8.4}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4456	$0.444^{+0.015}_{-0.015}$	$H(2.33)$	235.10	$235.5^{+2.6}_{-1.8}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6039	$0.599^{+0.017}_{-0.026}$	$D_{\text{M}}(2.33)$	5734	5749^{+76}_{-34}
A_{100}^{dustTE}	0.113	$0.114^{+0.098}_{-0.095}$	$\sigma_8/h^{0.5}$	0.9864	$0.977^{+0.026}_{-0.047}$	$f\sigma_8(0.15)$	0.4507	$0.450^{+0.014}_{-0.014}$
$A_{100 \times 143}^{\text{dustTE}}$	0.133	$0.134^{+0.077}_{-0.074}$	$r_{\text{drag}} h$	101.49	$100.6^{+2.7}_{-5.0}$	$\sigma_8(0.15)$	0.7577	$0.746^{+0.022}_{-0.054}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	$\langle d^2 \rangle^{1/2}$	2.421	$2.419^{+0.050}_{-0.050}$	$f\sigma_8(0.38)$	0.4724	$0.470^{+0.013}_{-0.016}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	z_{re}	7.78	$7.8^{+2.0}_{-2.0}$	$\sigma_8(0.38)$	0.6731	$0.662^{+0.020}_{-0.052}$
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.66^{+0.21}_{-0.20}$	$10^9 A_{\text{s}}$	2.100	$2.102^{+0.086}_{-0.079}$	$f\sigma_8(0.51)$	0.4727	$0.469^{+0.012}_{-0.019}$
A_{217}^{dustTE}	2.06	$2.06^{+0.70}_{-0.71}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8771	$1.876^{+0.027}_{-0.027}$	$\sigma_8(0.51)$	0.6305	$0.620^{+0.019}_{-0.050}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	D_{40}	1221.1	1225^{+30}_{-29}	$f\sigma_8(0.61)$	0.4689	$0.465^{+0.012}_{-0.021}$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	D_{220}	5750	5750^{+99}_{-99}	$\sigma_8(0.61)$	0.6003	$0.590^{+0.018}_{-0.048}$
b_{DES}^1	1.483	$1.50^{+0.21}_{-0.20}$	D_{810}	2541.4	2539^{+34}_{-33}	$f\sigma_8(2.33)$	0.3023	$0.2981^{+0.0087}_{-0.022}$
b_{DES}^2	1.680	$1.70^{+0.17}_{-0.14}$	D_{1420}	820.0	818^{+12}_{-12}	$\sigma_8(2.33)$	0.3128	$0.308^{+0.010}_{-0.026}$
b_{DES}^3	1.669	$1.69^{+0.15}_{-0.12}$	D_{2000}	232.12	$231.4^{+4.1}_{-4.0}$	χ_{lensing}^2	8.81	9.5 (ν : 0.6)
b_{DES}^4	2.025	$2.05^{+0.18}_{-0.14}$	$n_{\text{s},0.002}$	0.9707	$0.969^{+0.010}_{-0.010}$	χ_{small}^2	396.20	397.3 (ν : 2.2)
b_{DES}^5	2.128	$2.15^{+0.22}_{-0.21}$	Y_{P}	0.245468	$0.24545^{+0.00015}_{-0.00015}$	χ_{lowl}^2	22.54	22.83 (ν : 0.3)
m_{DES}^1	0.013	$0.012^{+0.058}_{-0.059}$	$Y_{\text{P}}^{\text{BBN}}$	0.246795	$0.24678^{+0.00015}_{-0.00015}$	χ_{plik}^2	2346.8	2362.1 (ν : 18.8)
m_{DES}^2	0.014	$0.012^{+0.058}_{-0.057}$	$10^5 \text{D}/\text{H}$	2.550	$2.558^{+0.069}_{-0.068}$	χ_{DES}^2	509.0	518.5 (ν : 12.7)
m_{DES}^3	-0.003	$-0.004^{+0.052}_{-0.051}$	Age/Gyr	13.733	$13.77^{+0.17}_{-0.076}$	χ_{prior}^2	3.9	25 (ν : 23.1)
m_{DES}^4	0.002	$0.002^{+0.053}_{-0.053}$	z_*	1089.49	$1089.56^{+0.66}_{-0.62}$	χ_{CMB}^2	2774.3	2791.8 (ν : 21.8)
$A_{\text{IA,DES}}$	0.453	$0.47^{+0.46}_{-0.38}$	r_*	144.82	$144.81^{+0.62}_{-0.64}$			

Best-fit $\chi_{\text{eff}}^2 = 3287.27$; $\bar{\chi}_{\text{eff}}^2 = 3335.12$; $R - 1 = 0.00852$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.81 simall_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3_2_29: 22.54 plik_rd12_HM_v22b_TTTEEE: 2346.80 WL - DES_1YR_final: 508.98

6.154 base_mnu_plikHM_TTTEE_lowl_lowE_DES_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022515	$0.02252^{+0.00035}_{-0.00035}$	$\Delta z_{l,DES}^2$	0.0005	$0.001^{+0.017}_{-0.017}$	k_D	0.14070	$0.14063^{+0.00073}_{-0.00072}$
$\Omega_c h^2$	0.11843	$0.1182^{+0.0022}_{-0.0022}$	$\Delta z_{l,DES}^3$	0.0034	$0.003^{+0.017}_{-0.017}$	$100\theta_D$	0.160645	$0.16065^{+0.00043}_{-0.00043}$
$100\theta_{MC}$	1.04116	$1.04110^{+0.00072}_{-0.00075}$	$\Delta z_{l,DES}^4$	0.0008	$0.000^{+0.024}_{-0.023}$	z_{eq}	3368	3362^{+50}_{-50}
τ	0.0558	$0.056^{+0.021}_{-0.019}$	$\Delta z_{l,DES}^5$	-0.0005	$-0.001^{+0.025}_{-0.025}$	k_{eq}	0.010280	$0.01026^{+0.00015}_{-0.00015}$
Σm_ν [eV]	0.001	< 0.187	$\Delta z_{s,DES}^1$	0.00097	$-0.003^{+0.037}_{-0.037}$	$100\theta_{eq}$	0.8200	$0.8211^{+0.0096}_{-0.0093}$
$\ln(10^{10} A_s)$	3.0430	$3.044^{+0.040}_{-0.037}$	$\Delta z_{s,DES}^2$	-0.0303	$-0.031^{+0.028}_{-0.028}$	$100\theta_{s,eq}$	0.45275	$0.4533^{+0.0049}_{-0.0048}$
n_s	0.9686	$0.9688^{+0.0095}_{-0.0097}$	$\Delta z_{s,DES}^3$	0.0024	$0.003^{+0.025}_{-0.024}$	$H(0.15)$	73.78	$73.5^{+1.1}_{-1.3}$
y_{cal}	0.99998	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{s,DES}^4$	-0.0323	$-0.031^{+0.046}_{-0.046}$	$D_M(0.15)$	632.7	635^{+13}_{-10}
A_{217}^{CIB}	48.3	47^{+20}_{-20}	H_0	68.62	$68.3^{+1.2}_{-1.5}$	$H(0.38)$	83.69	$83.45^{+0.81}_{-1.0}$
$\xi^{tSZ \times CIB}$	0.28	—	Ω_Λ	0.7006	$0.697^{+0.015}_{-0.018}$	$D_M(0.38)$	1511.8	1518^{+27}_{-21}
A_{143}^{tSZ}	7.38	$5.5^{+4.4}_{-4.7}$	Ω_m	0.2994	$0.303^{+0.018}_{-0.015}$	$H(0.51)$	90.30	$90.09^{+0.67}_{-0.88}$
A_{100}^{PS}	251	258^{+70}_{-70}	$\Omega_m h^2$	0.14096	$0.1413^{+0.0024}_{-0.0022}$	$D_M(0.51)$	1960.3	1967^{+32}_{-24}
A_{143}^{PS}	44.5	45^{+20}_{-20}	$\Omega_\nu h^2$	0.00001	< 0.00201	$H(0.61)$	95.83	$95.65^{+0.57}_{-0.76}$
$A_{143 \times 217}^{PS}$	42.8	42^{+20}_{-20}	$\Omega_m h^3$	0.09672	$0.09647^{+0.00087}_{-0.0011}$	$D_M(0.61)$	2282.6	2290^{+35}_{-26}
A_{217}^{PS}	117.0	115^{+30}_{-30}	σ_8	0.8190	$0.809^{+0.021}_{-0.033}$	$H(2.33)$	235.37	$235.5^{+1.5}_{-1.4}$
A^{kSZ}	0.0	—	S_8	0.8182	$0.813^{+0.025}_{-0.026}$	$D_M(2.33)$	5738.2	5748^{+38}_{-28}
A_{100}^{dustTT}	8.82	$8.9^{+4.6}_{-4.8}$	$\sigma_8 \Omega_m^{0.5}$	0.4481	$0.445^{+0.014}_{-0.014}$	$f\sigma_8(0.15)$	0.4530	$0.450^{+0.013}_{-0.013}$
A_{143}^{dustTT}	11.03	$10.9^{+4.6}_{-4.7}$	$\sigma_8 \Omega_m^{0.25}$	0.6058	$0.600^{+0.016}_{-0.020}$	$\sigma_8(0.15)$	0.7579	$0.748^{+0.020}_{-0.032}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.6^{+8.2}_{-8.3}$	$\sigma_8/h^{0.5}$	0.9887	$0.978^{+0.025}_{-0.033}$	$f\sigma_8(0.38)$	0.4740	$0.470^{+0.012}_{-0.014}$
A_{217}^{dustTT}	94.5	94^{+20}_{-20}	$r_{drag} h$	101.11	$100.7^{+2.0}_{-2.3}$	$\sigma_8(0.38)$	0.6730	$0.664^{+0.018}_{-0.029}$
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.094}$	$\langle d^2 \rangle^{1/2}$	2.4288	$2.420^{+0.049}_{-0.050}$	$f\sigma_8(0.51)$	0.4740	$0.470^{+0.012}_{-0.014}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.077}_{-0.075}$	z_{re}	7.77	$7.8^{+2.0}_{-2.0}$	$\sigma_8(0.51)$	0.6303	$0.622^{+0.017}_{-0.028}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$10^9 A_s$	2.097	$2.099^{+0.085}_{-0.077}$	$f\sigma_8(0.61)$	0.4699	$0.466^{+0.011}_{-0.014}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$10^9 A_s e^{-2\tau}$	1.8753	$1.876^{+0.026}_{-0.027}$	$\sigma_8(0.61)$	0.6000	$0.592^{+0.016}_{-0.026}$
$A_{143 \times 217}^{dustTE}$	0.662	$0.66^{+0.21}_{-0.20}$	D_{40}	1223.6	1225^{+29}_{-29}	$f\sigma_8(2.33)$	0.3020	$0.2987^{+0.0076}_{-0.012}$
A_{217}^{dustTE}	2.07	$2.06^{+0.71}_{-0.71}$	D_{220}	5740	5749^{+99}_{-99}	$\sigma_8(2.33)$	0.3124	$0.3083^{+0.0086}_{-0.014}$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0015}$	D_{810}	2535.9	2539^{+34}_{-34}	f_{2000}^{143}	28.7	29^{+7}_{-7}
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	D_{1420}	817.4	818^{+12}_{-12}	$f_{2000}^{143 \times 217}$	31.75	32^{+5}_{-5}
b_{DES}^1	1.485	$1.50^{+0.19}_{-0.19}$	D_{2000}	231.20	$231.3^{+4.0}_{-4.0}$	f_{2000}^{217}	106.37	$106.7^{+4.5}_{-4.6}$
b_{DES}^2	1.680	$1.70^{+0.14}_{-0.14}$	$n_{s,0.002}$	0.9686	$0.9688^{+0.0095}_{-0.0097}$	$\chi^2_{lensing}$	8.76	$9.45 (\nu: 0.5)$
b_{DES}^3	1.669	$1.69^{+0.12}_{-0.12}$	Y_P	0.245450	$0.24545^{+0.00014}_{-0.00014}$	χ^2_{small}	396.19	$397.2 (\nu: 1.9)$
b_{DES}^4	2.025	$2.05^{+0.14}_{-0.14}$	Y_P^{BBN}	0.246777	$0.24678^{+0.00014}_{-0.00014}$	χ^2_{lowl}	22.92	$22.86 (\nu: 0.3)$
b_{DES}^5	2.127	$2.15^{+0.20}_{-0.21}$	$10^5 D/H$	2.559	$2.559^{+0.064}_{-0.063}$	χ^2_{plik}	2345.5	$2361.6 (\nu: 18.3)$
m_{DES}^1	0.014	$0.012^{+0.058}_{-0.059}$	Age/Gyr	13.741	$13.763^{+0.087}_{-0.063}$	χ^2_{6DF}	0.016	$0.029 (\nu: 0.0)$
m_{DES}^2	0.014	$0.012^{+0.058}_{-0.057}$	z_*	1089.60	$1089.58^{+0.55}_{-0.54}$	χ^2_{MGS}	2.12	$1.87 (\nu: 0.1)$
m_{DES}^3	-0.005	$-0.005^{+0.051}_{-0.050}$	r_*	144.73	$144.80^{+0.53}_{-0.54}$	$\chi^2_{DR12BAO}$	3.41	$3.85 (\nu: 0.3)$
m_{DES}^4	0.001	$0.001^{+0.053}_{-0.053}$	$100\theta_*$	1.04129	$1.04127^{+0.00072}_{-0.00075}$	χ^2_{DES}	509.7	$518.6 (\nu: 12.2)$
$A_{IA,DES}$	0.443	$0.48^{+0.46}_{-0.38}$	$D_M(z_*)/\text{Gpc}$	13.899	$13.906^{+0.052}_{-0.053}$	χ^2_{prior}	4.5	$25 (\nu: 23.1)$
$\alpha_{IA,DES}$	-2.6	—	z_{drag}	1060.16	$1060.14^{+0.78}_{-0.74}$	χ^2_{CMB}	2773.4	$2791.0 (\nu: 20.7)$
$\Delta z_{l,DES}^1$	0.0030	$0.003^{+0.020}_{-0.019}$	r_{drag}	147.35	$147.42^{+0.57}_{-0.57}$	χ^2_{BAO}	5.55	$5.75 (\nu: 0.3)$

Best-fit $\chi^2_{eff} = 3293.06$; $\bar{\chi}^2_{eff} = 3340.25$; $R - 1 = 0.00952$
 χ^2_{eff} : BAO - 6DF: 0.02 MGS: 2.12 DR12BAO: 3.42 CMB - smicadx12.Dec5.ftl.mv2.ndclpp.p.teb.consext8: 8.76 small_100x143.offlike5.EE_Aplanck.B: 396.19 comman-
der.dx12.v3.2.29: 22.92 plik_rd12_HM_v22b_TTTEEE: 2345.49 WL - DES.1YR.final: 509.67

6.155 base_mnu_plikHM_TTTEE_lowl_lowE_DES_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02251^{+0.00040}_{-0.00042}$	$\Delta z_{\text{l,DES}}^1$	$0.004^{+0.019}_{-0.019}$	z_{drag}	$1060.12^{+0.84}_{-0.80}$
$\Omega_c h^2$	$0.1179^{+0.0031}_{-0.0028}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	r_{drag}	$147.48^{+0.67}_{-0.70}$
$100\theta_{\text{MC}}$	$1.04110^{+0.00078}_{-0.00084}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	k_{D}	$0.14057^{+0.00079}_{-0.00078}$
τ	$0.056^{+0.019}_{-0.013}$	$\Delta z_{\text{l,DES}}^4$	$0.001^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	$0.16065^{+0.00046}_{-0.00046}$
Σm_ν [eV]	< 0.575	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.025}$	z_{eq}	3356^{+68}_{-63}
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.041}_{-0.030}$	$\Delta z_{\text{s,DES}}^1$	$-0.004^{+0.036}_{-0.037}$	k_{eq}	$0.01024^{+0.00021}_{-0.00019}$
n_{s}	$0.970^{+0.011}_{-0.011}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.013}$
y_{cal}	$1.0005^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.024}_{-0.025}$	$100\theta_{\text{s,eq}}$	$0.4540^{+0.0063}_{-0.0065}$
A_{217}^{CIB}	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^4$	$-0.029^{+0.048}_{-0.047}$	$H(0.15)$	$73.2^{+1.8}_{-5.1}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	H_0	$67.9^{+2.0}_{-5.8}$	$D_{\text{M}}(0.15)$	639^{+53}_{-17}
A_{143}^{tSZ}	> 0.899	Ω_{Λ}	$0.693^{+0.025}_{-0.079}$	$H(0.38)$	$83.2^{+1.3}_{-3.9}$
A_{100}^{PS}	259^{+70}_{-70}	Ω_{m}	$0.307^{+0.079}_{-0.025}$	$D_{\text{M}}(0.38)$	1525^{+110}_{-34}
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\text{m}} h^2$	$0.1416^{+0.0076}_{-0.0034}$	$H(0.51)$	$89.9^{+1.1}_{-3.2}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	$\Omega_{\nu} h^2$	< 0.00619	$D_{\text{M}}(0.51)$	1976^{+130}_{-41}
A_{217}^{PS}	114^{+30}_{-30}	$\Omega_{\text{m}} h^3$	$0.0961^{+0.0012}_{-0.0035}$	$H(0.61)$	$95.44^{+0.93}_{-2.7}$
A^{kSZ}	—	σ_8	$0.795^{+0.034}_{-0.11}$	$D_{\text{M}}(0.61)$	2299^{+140}_{-44}
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	S_8	$0.804^{+0.034}_{-0.041}$	$H(2.33)$	$235.6^{+4.2}_{-2.0}$
A_{143}^{dustTT}	$11.0^{+4.7}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.440^{+0.019}_{-0.023}$	$D_{\text{M}}(2.33)$	5759^{+140}_{-44}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.5}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.592^{+0.023}_{-0.055}$	$f\sigma_8(0.15)$	$0.446^{+0.018}_{-0.023}$
A_{217}^{dustTT}	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.965^{+0.037}_{-0.10}$	$\sigma_8(0.15)$	$0.735^{+0.032}_{-0.11}$
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.096}$	$r_{\text{drag}} h$	$100.2^{+3.3}_{-8.8}$	$f\sigma_8(0.38)$	$0.465^{+0.017}_{-0.037}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.075}$	$\langle d^2 \rangle^{1/2}$	$2.406^{+0.062}_{-0.060}$	$\sigma_8(0.38)$	$0.653^{+0.029}_{-0.10}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_{re}	< 9.50	$f\sigma_8(0.51)$	$0.464^{+0.017}_{-0.044}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	$2.095^{+0.087}_{-0.063}$	$\sigma_8(0.51)$	$0.611^{+0.027}_{-0.098}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.874^{+0.027}_{-0.027}$	$f\sigma_8(0.61)$	$0.460^{+0.017}_{-0.048}$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.71}$	D_{40}	1221^{+31}_{-30}	$\sigma_8(0.61)$	$0.582^{+0.026}_{-0.094}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5745^{+100}_{-100}	$f\sigma_8(2.33)$	$0.294^{+0.012}_{-0.045}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	D_{810}	2537^{+34}_{-34}	$\sigma_8(2.33)$	$0.303^{+0.014}_{-0.051}$
b_{DES}^1	$1.53^{+0.30}_{-0.21}$	D_{1420}	818^{+12}_{-12}	f_{2000}^{143}	29^{+7}_{-7}
b_{DES}^2	$1.73^{+0.30}_{-0.16}$	D_{2000}	$231.2^{+4.2}_{-4.1}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^3	$1.71^{+0.27}_{-0.14}$	$n_{\text{s},0.002}$	$0.970^{+0.011}_{-0.011}$	f_{2000}^{217}	$106.7^{+4.7}_{-4.5}$
b_{DES}^4	$2.08^{+0.31}_{-0.16}$	Y_{P}	$0.24545^{+0.00016}_{-0.00016}$	χ_{simall}^2	$397.0 (\nu: 1.7)$
b_{DES}^5	$2.18^{+0.32}_{-0.23}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00016}_{-0.00017}$	χ_{lowl}^2	$22.56 (\nu: 0.3)$
m_{DES}^1	$0.012^{+0.058}_{-0.058}$	10^5D/H	$2.560^{+0.077}_{-0.071}$	χ_{plik}^2	$2364.3 (\nu: 23.8)$
m_{DES}^2	$0.013^{+0.058}_{-0.057}$	Age/Gyr	$13.79^{+0.32}_{-0.099}$	χ_{DES}^2	$518.1 (\nu: 12.0)$
m_{DES}^3	$-0.003^{+0.052}_{-0.052}$	z_*	$1089.56^{+0.83}_{-0.65}$	χ_{prior}^2	$25 (\nu: 23.3)$
m_{DES}^4	$0.003^{+0.054}_{-0.053}$	r_*	$144.85^{+0.65}_{-0.73}$	χ_{CMB}^2	$2783.8 (\nu: 23.2)$
$A_{\text{IA,DES}}$	$0.46^{+0.47}_{-0.39}$	$100\theta_*$	$1.04130^{+0.00076}_{-0.00079}$		
$\alpha_{\text{IA,DES}}$	—	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.911^{+0.062}_{-0.068}$		

$$\bar{\chi}_{\text{eff}}^2 = 3326.52; R - 1 = 0.00752$$

6.156 base_mnu_plikHM_TTTEEE_lowl_lowE_DES_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00035}_{-0.00035}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	k_{D}	$0.14057^{+0.00075}_{-0.00074}$
$\Omega_c h^2$	$0.1179^{+0.0023}_{-0.0024}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	$0.16065^{+0.00043}_{-0.00043}$
$100\theta_{\text{MC}}$	$1.04112^{+0.00073}_{-0.00076}$	$\Delta z_{\text{l,DES}}^4$	$0.001^{+0.023}_{-0.023}$	z_{eq}	3356^{+53}_{-54}
τ	$0.055^{+0.019}_{-0.013}$	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.025}$	k_{eq}	$0.01024^{+0.00016}_{-0.00017}$
Σm_ν [eV]	< 0.236	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.037}$	$100\theta_{\text{eq}}$	$0.822^{+0.011}_{-0.0098}$
$\ln(10^{10} A_{\text{s}})$	$3.041^{+0.041}_{-0.030}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	$0.4539^{+0.0054}_{-0.0050}$
n_{s}	$0.9695^{+0.0098}_{-0.0099}$	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.025}_{-0.025}$	$H(0.15)$	$73.4^{+1.1}_{-1.5}$
y_{cal}	$1.0005^{+0.0064}_{-0.0064}$	$\Delta z_{\text{s,DES}}^4$	$-0.030^{+0.046}_{-0.047}$	$D_{\text{M}}(0.15)$	636^{+15}_{-11}
A_{217}^{CIB}	47^{+20}_{-20}	H_0	$68.2^{+1.3}_{-1.7}$	$H(0.38)$	$83.40^{+0.87}_{-1.2}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Ω_{Λ}	$0.697^{+0.015}_{-0.020}$	$D_{\text{M}}(0.38)$	1519^{+30}_{-22}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.7}$	Ω_{m}	$0.303^{+0.020}_{-0.015}$	$H(0.51)$	$90.04^{+0.72}_{-1.0}$
A_{100}^{PS}	258^{+70}_{-70}	$\Omega_{\text{m}} h^2$	$0.1412^{+0.0024}_{-0.0023}$	$D_{\text{M}}(0.51)$	1969^{+36}_{-26}
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\nu} h^2$	< 0.00254	$H(0.61)$	$95.60^{+0.62}_{-0.88}$
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	$\Omega_{\text{m}} h^3$	$0.09635^{+0.00095}_{-0.0013}$	$D_{\text{M}}(0.61)$	2292^{+39}_{-28}
A_{217}^{PS}	114^{+30}_{-30}	σ_8	$0.803^{+0.027}_{-0.046}$	$H(2.33)$	$235.4^{+1.5}_{-1.4}$
A^{kSZ}	—	S_8	$0.807^{+0.030}_{-0.034}$	$D_{\text{M}}(2.33)$	5750^{+44}_{-30}
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.8}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.442^{+0.017}_{-0.019}$	$f\sigma_8(0.15)$	$0.448^{+0.016}_{-0.018}$
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.596^{+0.020}_{-0.028}$	$\sigma_8(0.15)$	$0.743^{+0.025}_{-0.043}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.3}$	$\sigma_8/h^{0.5}$	$0.972^{+0.032}_{-0.047}$	$f\sigma_8(0.38)$	$0.468^{+0.015}_{-0.019}$
A_{217}^{dustTT}	94^{+20}_{-20}	$r_{\text{drag}} h$	$100.6^{+2.1}_{-2.5}$	$\sigma_8(0.38)$	$0.660^{+0.022}_{-0.040}$
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.094}$	$\langle d^2 \rangle^{1/2}$	$2.410^{+0.059}_{-0.060}$	$f\sigma_8(0.51)$	$0.467^{+0.015}_{-0.020}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.074}$	z_{re}	< 9.47	$\sigma_8(0.51)$	$0.618^{+0.021}_{-0.037}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$10^9 A_{\text{s}}$	$2.094^{+0.087}_{-0.061}$	$f\sigma_8(0.61)$	$0.463^{+0.014}_{-0.020}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.874^{+0.027}_{-0.028}$	$\sigma_8(0.61)$	$0.588^{+0.020}_{-0.036}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	D_{40}	1222^{+30}_{-30}	$f\sigma_8(2.33)$	$0.2970^{+0.0092}_{-0.016}$
A_{217}^{dustTE}	$2.06^{+0.71}_{-0.71}$	D_{220}	5744^{+98}_{-100}	$\sigma_8(2.33)$	$0.306^{+0.010}_{-0.018}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{810}	2537^{+35}_{-35}	f_{2000}^{143}	29^{+7}_{-7}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	D_{1420}	818^{+12}_{-12}	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^1	$1.51^{+0.20}_{-0.20}$	D_{2000}	$231.2^{+4.0}_{-4.1}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.6}$
b_{DES}^2	$1.71^{+0.16}_{-0.15}$	$n_{\text{s},0.002}$	$0.9695^{+0.0098}_{-0.0099}$	χ_{simall}^2	396.9 ($\nu: 1.5$)
b_{DES}^3	$1.70^{+0.14}_{-0.12}$	Y_{P}	$0.24545^{+0.00014}_{-0.00014}$	χ_{lowl}^2	22.64 ($\nu: 0.3$)
b_{DES}^4	$2.06^{+0.16}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00014}_{-0.00014}$	χ_{plik}^2	2363.1 ($\nu: 21.6$)
b_{DES}^5	$2.16^{+0.21}_{-0.21}$	10^5D/H	$2.559^{+0.064}_{-0.063}$	$\chi_{6\text{DF}}^2$	0.033 ($\nu: 0.0$)
m_{DES}^1	$0.012^{+0.058}_{-0.058}$	Age/Gyr	$13.77^{+0.10}_{-0.068}$	χ_{MGS}^2	1.85 ($\nu: 0.1$)
m_{DES}^2	$0.013^{+0.057}_{-0.057}$	z_*	$1089.55^{+0.55}_{-0.54}$	χ_{DR12BAO}^2	3.93 ($\nu: 0.4$)
m_{DES}^3	$-0.003^{+0.051}_{-0.051}$	r_*	$144.86^{+0.58}_{-0.56}$	χ_{DES}^2	518.3 ($\nu: 11.9$)
m_{DES}^4	$0.003^{+0.052}_{-0.053}$	$100\theta_*$	$1.04130^{+0.00074}_{-0.00075}$	χ_{prior}^2	25 ($\nu: 22.8$)
$A_{\text{IA,DES}}$	$0.47^{+0.47}_{-0.38}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.911^{+0.056}_{-0.055}$	χ_{BAO}^2	5.81 ($\nu: 0.3$)
$\alpha_{\text{IA,DES}}$	—	z_{drag}	$1060.13^{+0.75}_{-0.73}$	χ_{CMB}^2	2782.6 ($\nu: 21.0$)
$\Delta z_{\text{l,DES}}^1$	$0.004^{+0.020}_{-0.019}$	r_{drag}	$147.48^{+0.61}_{-0.60}$		

$\bar{\chi}_{\text{eff}}^2 = 3331.28$; $R - 1 = 0.00944$

6.157 base_mnu_plikHM_TTTEE_lowl_lowE_DES_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00038}_{-0.00037}$	$\Delta z_{\text{l,DES}}^1$	$0.003^{+0.020}_{-0.019}$	z_{drag}	$1060.15^{+0.81}_{-0.75}$
$\Omega_c h^2$	$0.1181^{+0.0029}_{-0.0027}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	r_{drag}	$147.44^{+0.64}_{-0.65}$
$100\theta_{\text{MC}}$	$1.04111^{+0.00077}_{-0.00079}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	k_{D}	$0.14062^{+0.00076}_{-0.00076}$
τ	$0.057^{+0.020}_{-0.015}$	$\Delta z_{\text{l,DES}}^4$	$0.001^{+0.023}_{-0.023}$	$100\theta_{\text{D}}$	$0.16064^{+0.00044}_{-0.00045}$
Σm_ν [eV]	< 0.289	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.025}$	z_{eq}	3360^{+63}_{-60}
$\ln(10^{10} A_{\text{s}})$	$3.046^{+0.039}_{-0.030}$	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.038}$	k_{eq}	$0.01025^{+0.00019}_{-0.00018}$
n_{s}	$0.969^{+0.010}_{-0.010}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.027}_{-0.028}$	$100\theta_{\text{eq}}$	$0.822^{+0.012}_{-0.012}$
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^3$	$0.004^{+0.024}_{-0.024}$	$100\theta_{\text{s,eq}}$	$0.4536^{+0.0060}_{-0.0061}$
A_{217}^{CIB}	47^{+20}_{-20}	$\Delta z_{\text{s,DES}}^4$	$-0.031^{+0.047}_{-0.046}$	$H(0.15)$	$73.5^{+1.4}_{-2.9}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	H_0	$68.3^{+1.6}_{-3.3}$	$D_{\text{M}}(0.15)$	636^{+29}_{-13}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.7}$	Ω_{Λ}	$0.697^{+0.019}_{-0.042}$	$H(0.38)$	$83.4^{+1.1}_{-2.2}$
A_{100}^{PS}	258^{+70}_{-70}	Ω_{m}	$0.303^{+0.042}_{-0.019}$	$D_{\text{M}}(0.38)$	1518^{+59}_{-27}
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\text{m}} h^2$	$0.1413^{+0.0047}_{-0.0029}$	$H(0.51)$	$90.07^{+0.89}_{-1.8}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$\Omega_{\nu} h^2$	< 0.00311	$D_{\text{M}}(0.51)$	1968^{+69}_{-32}
A_{217}^{PS}	115^{+30}_{-30}	$\Omega_{\text{m}} h^3$	$0.09642^{+0.00093}_{-0.0018}$	$H(0.61)$	$95.63^{+0.74}_{-1.6}$
A^{kSZ}	—	σ_8	$0.807^{+0.023}_{-0.056}$	$D_{\text{M}}(0.61)$	2291^{+75}_{-35}
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.8}$	S_8	$0.811^{+0.027}_{-0.027}$	$H(2.33)$	$235.5^{+2.7}_{-1.8}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.444^{+0.015}_{-0.015}$	$D_{\text{M}}(2.33)$	5749^{+76}_{-34}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.4}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.599^{+0.017}_{-0.026}$	$f\sigma_8(0.15)$	$0.450^{+0.014}_{-0.014}$
A_{217}^{dustTT}	94^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.977^{+0.026}_{-0.048}$	$\sigma_8(0.15)$	$0.747^{+0.021}_{-0.055}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.095}$	$r_{\text{drag}} h$	$100.6^{+2.7}_{-5.0}$	$f\sigma_8(0.38)$	$0.470^{+0.013}_{-0.016}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.077}_{-0.075}$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.050}_{-0.049}$	$\sigma_8(0.38)$	$0.663^{+0.020}_{-0.052}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_{re}	< 9.65	$f\sigma_8(0.51)$	$0.469^{+0.012}_{-0.019}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$10^9 A_{\text{s}}$	$2.104^{+0.084}_{-0.063}$	$\sigma_8(0.51)$	$0.621^{+0.019}_{-0.050}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.026}_{-0.027}$	$f\sigma_8(0.61)$	$0.465^{+0.012}_{-0.021}$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.71}$	D_{40}	1225^{+30}_{-29}	$\sigma_8(0.61)$	$0.591^{+0.018}_{-0.048}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	D_{220}	5750^{+98}_{-99}	$f\sigma_8(2.33)$	$0.2983^{+0.0086}_{-0.022}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	D_{810}	2539^{+34}_{-33}	$\sigma_8(2.33)$	$0.3078^{+0.0099}_{-0.026}$
b_{DES}^1	$1.50^{+0.21}_{-0.20}$	D_{1420}	818^{+12}_{-12}	f_{2000}^{143}	29^{+7}_{-7}
b_{DES}^2	$1.70^{+0.17}_{-0.14}$	D_{2000}	$231.4^{+4.1}_{-4.0}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^3	$1.69^{+0.15}_{-0.12}$	$n_{\text{s},0.002}$	$0.969^{+0.010}_{-0.010}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.6}$
b_{DES}^4	$2.05^{+0.18}_{-0.14}$	Y_{P}	$0.24545^{+0.00015}_{-0.00015}$	χ_{lensing}^2	$9.5 (\nu: 0.5)$
b_{DES}^5	$2.15^{+0.22}_{-0.21}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00015}_{-0.00015}$	χ_{simall}^2	$397.3 (\nu: 2.2)$
m_{DES}^1	$0.012^{+0.058}_{-0.059}$	10^5D/H	$2.558^{+0.070}_{-0.068}$	χ_{lowl}^2	$22.82 (\nu: 0.3)$
m_{DES}^2	$0.012^{+0.058}_{-0.057}$	Age/Gyr	$13.77^{+0.17}_{-0.077}$	χ_{plik}^2	$2362.0 (\nu: 18.8)$
m_{DES}^3	$-0.004^{+0.052}_{-0.051}$	z_*	$1089.56^{+0.66}_{-0.62}$	χ_{DES}^2	$518.5 (\nu: 12.7)$
m_{DES}^4	$0.002^{+0.053}_{-0.053}$	r_*	$144.82^{+0.62}_{-0.64}$	χ_{prior}^2	$25 (\nu: 23.1)$
$A_{\text{IA,DES}}$	$0.47^{+0.46}_{-0.38}$	$100\theta_*$	$1.04128^{+0.00074}_{-0.00077}$	χ_{CMB}^2	$2791.7 (\nu: 21.7)$
$\alpha_{\text{IA,DES}}$	—	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.908^{+0.059}_{-0.061}$		

$\bar{\chi}_{\text{eff}}^2 = 3334.99$; $R - 1 = 0.00823$

6.158 base_mnu_plikHM_TTTEEE_lowl_lowE_DES_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00035}_{-0.00034}$	$\Delta z_{\text{l,DES}}^2$	$0.001^{+0.017}_{-0.017}$	k_{D}	$0.14063^{+0.00072}_{-0.00071}$
$\Omega_c h^2$	$0.1182^{+0.0021}_{-0.0022}$	$\Delta z_{\text{l,DES}}^3$	$0.003^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	$0.16065^{+0.00043}_{-0.00043}$
$100\theta_{\text{MC}}$	$1.04111^{+0.00072}_{-0.00075}$	$\Delta z_{\text{l,DES}}^4$	$0.000^{+0.024}_{-0.023}$	z_{eq}	3362^{+49}_{-50}
τ	$0.057^{+0.019}_{-0.014}$	$\Delta z_{\text{l,DES}}^5$	$-0.001^{+0.025}_{-0.025}$	k_{eq}	$0.01026^{+0.00015}_{-0.00015}$
Σm_ν [eV]	< 0.188	$\Delta z_{\text{s,DES}}^1$	$-0.003^{+0.037}_{-0.038}$	$100\theta_{\text{eq}}$	$0.8212^{+0.0096}_{-0.0092}$
$\ln(10^{10} A_{\text{s}})$	$3.045^{+0.039}_{-0.029}$	$\Delta z_{\text{s,DES}}^2$	$-0.031^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	$0.4534^{+0.0049}_{-0.0046}$
n_{s}	$0.9688^{+0.0095}_{-0.0097}$	$\Delta z_{\text{s,DES}}^3$	$0.003^{+0.025}_{-0.024}$	$H(0.15)$	$73.5^{+1.1}_{-1.3}$
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	$\Delta z_{\text{s,DES}}^4$	$-0.031^{+0.046}_{-0.046}$	$D_{\text{M}}(0.15)$	635^{+13}_{-10}
A_{217}^{CIB}	47^{+20}_{-20}	H_0	$68.3^{+1.2}_{-1.5}$	$H(0.38)$	$83.46^{+0.81}_{-1.0}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Ω_{Λ}	$0.697^{+0.015}_{-0.018}$	$D_{\text{M}}(0.38)$	1518^{+27}_{-21}
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.7}$	Ω_{m}	$0.303^{+0.018}_{-0.015}$	$H(0.51)$	$90.09^{+0.67}_{-0.89}$
A_{100}^{PS}	258^{+70}_{-70}	$\Omega_{\text{m}} h^2$	$0.1413^{+0.0024}_{-0.0022}$	$D_{\text{M}}(0.51)$	1967^{+32}_{-24}
A_{143}^{PS}	45^{+20}_{-20}	$\Omega_{\nu} h^2$	< 0.00202	$H(0.61)$	$95.65^{+0.58}_{-0.77}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$\Omega_{\text{m}} h^3$	$0.09647^{+0.00086}_{-0.0011}$	$D_{\text{M}}(0.61)$	2290^{+35}_{-26}
A_{217}^{PS}	115^{+30}_{-30}	σ_8	$0.809^{+0.021}_{-0.033}$	$H(2.33)$	$235.5^{+1.5}_{-1.4}$
A^{kSZ}	—	S_8	$0.813^{+0.025}_{-0.026}$	$D_{\text{M}}(2.33)$	5748^{+38}_{-28}
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.8}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.445^{+0.014}_{-0.014}$	$f\sigma_8(0.15)$	$0.450^{+0.013}_{-0.013}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.016}_{-0.020}$	$\sigma_8(0.15)$	$0.748^{+0.020}_{-0.032}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.1}_{-8.3}$	$\sigma_8/h^{0.5}$	$0.979^{+0.025}_{-0.033}$	$f\sigma_8(0.38)$	$0.471^{+0.012}_{-0.014}$
A_{217}^{dustTT}	94^{+20}_{-20}	$r_{\text{drag}} h$	$100.7^{+2.0}_{-2.3}$	$\sigma_8(0.38)$	$0.664^{+0.018}_{-0.029}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.094}$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.049}_{-0.048}$	$f\sigma_8(0.51)$	$0.470^{+0.011}_{-0.014}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.075}$	z_{re}	< 9.57	$\sigma_8(0.51)$	$0.622^{+0.017}_{-0.028}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$10^9 A_{\text{s}}$	$2.102^{+0.083}_{-0.061}$	$f\sigma_8(0.61)$	$0.466^{+0.011}_{-0.014}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.876^{+0.026}_{-0.027}$	$\sigma_8(0.61)$	$0.592^{+0.016}_{-0.027}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	D_{40}	1225^{+29}_{-29}	$f\sigma_8(2.33)$	$0.2988^{+0.0075}_{-0.012}$
A_{217}^{dustTE}	$2.06^{+0.71}_{-0.72}$	D_{220}	5749^{+99}_{-99}	$\sigma_8(2.33)$	$0.3084^{+0.0085}_{-0.014}$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	D_{810}	2538^{+34}_{-34}	f_{2000}^{143}	29^{+7}_{-7}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	D_{1420}	818^{+12}_{-12}	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
b_{DES}^1	$1.50^{+0.19}_{-0.19}$	D_{2000}	$231.3^{+4.1}_{-4.0}$	f_{2000}^{217}	$106.7^{+4.4}_{-4.6}$
b_{DES}^2	$1.70^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	$0.9688^{+0.0095}_{-0.0097}$	χ_{lensing}^2	$9.40 (\nu: 0.4)$
b_{DES}^3	$1.69^{+0.12}_{-0.12}$	Y_{P}	$0.24545^{+0.00014}_{-0.00014}$	χ_{simall}^2	$397.2 (\nu: 1.9)$
b_{DES}^4	$2.05^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24678^{+0.00014}_{-0.00014}$	χ_{lowl}^2	$22.86 (\nu: 0.3)$
b_{DES}^5	$2.15^{+0.20}_{-0.21}$	10^5D/H	$2.559^{+0.064}_{-0.063}$	χ_{plik}^2	$2361.5 (\nu: 18.2)$
m_{DES}^1	$0.012^{+0.058}_{-0.059}$	Age/Gyr	$13.763^{+0.087}_{-0.063}$	$\chi_{6\text{DF}}^2$	$0.030 (\nu: 0.0)$
m_{DES}^2	$0.012^{+0.058}_{-0.057}$	z_*	$1089.57^{+0.54}_{-0.54}$	χ_{MGS}^2	$1.88 (\nu: 0.1)$
m_{DES}^3	$-0.005^{+0.051}_{-0.050}$	r_*	$144.80^{+0.53}_{-0.53}$	χ_{DR12BAO}^2	$3.85 (\nu: 0.3)$
m_{DES}^4	$0.001^{+0.053}_{-0.053}$	$100\theta_*$	$1.04128^{+0.00072}_{-0.00075}$	χ_{DES}^2	$518.6 (\nu: 12.2)$
$A_{\text{IA,DES}}$	$0.48^{+0.47}_{-0.38}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.906^{+0.052}_{-0.052}$	χ_{prior}^2	$25 (\nu: 23.1)$
$\alpha_{\text{IA,DES}}$	—	z_{drag}	$1060.14^{+0.78}_{-0.74}$	χ_{CMB}^2	$2790.9 (\nu: 20.4)$
$\Delta z_{\text{l,DES}}^1$	$0.003^{+0.020}_{-0.019}$	r_{drag}	$147.42^{+0.57}_{-0.57}$	χ_{BAO}^2	$5.76 (\nu: 0.3)$

$\bar{\chi}_{\text{eff}}^2 = 3340.12$; $R - 1 = 0.00912$

6.159 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022462	$0.02243^{+0.00039}_{-0.00037}$	$\Delta z_{s,DES}^2$	-0.0205	$-0.021^{+0.029}_{-0.030}$	k_D	0.14076	$0.14072^{+0.00079}_{-0.00078}$
$\Omega_c h^2$	0.11903	$0.1190^{+0.0029}_{-0.0029}$	$\Delta z_{s,DES}^3$	0.0047	$0.004^{+0.027}_{-0.026}$	$100\theta_D$	0.160687	$0.16072^{+0.00044}_{-0.00045}$
$100\theta_{MC}$	1.04107	$1.04100^{+0.00080}_{-0.00079}$	$\Delta z_{s,DES}^4$	-0.021	$-0.022^{+0.052}_{-0.052}$	z_{eq}	3381	3381^{+66}_{-66}
τ	0.0535	$0.054^{+0.021}_{-0.021}$	H_0	68.33	$67.6^{+1.8}_{-3.9}$	k_{eq}	0.010320	$0.01032^{+0.00020}_{-0.00020}$
Σm_ν [eV]	0.002	< 0.390	Ω_Λ	0.6969	$0.688^{+0.023}_{-0.052}$	$100\theta_{eq}$	0.8174	$0.817^{+0.013}_{-0.012}$
$\ln(10^{10} A_s)$	3.0406	$3.040^{+0.041}_{-0.043}$	Ω_m	0.3031	$0.312^{+0.052}_{-0.023}$	$100\theta_{s,eq}$	0.4514	$0.4515^{+0.0064}_{-0.0063}$
n_s	0.9682	$0.967^{+0.010}_{-0.010}$	$\Omega_m h^2$	0.14152	$0.1424^{+0.0053}_{-0.0032}$	$H(0.15)$	73.53	$72.9^{+1.6}_{-3.4}$
y_{cal}	1.0004	$1.0004^{+0.0064}_{-0.0066}$	$\Omega_\nu h^2$	0.00003	< 0.00420	$D_M(0.15)$	635.1	641^{+35}_{-16}
A_{217}^{CIB}	47.0	47^{+20}_{-20}	$\Omega_m h^3$	0.09670	$0.0962^{+0.0011}_{-0.0024}$	$H(0.38)$	83.51	$83.0^{+1.2}_{-2.6}$
$\xi^{tSZ \times CIB}$	0.47	—	σ_8	0.820	$0.802^{+0.033}_{-0.068}$	$D_M(0.38)$	1517	1530^{+71}_{-32}
A_{143}^{tSZ}	7.21	> 1.03	S_8	0.8243	$0.818^{+0.034}_{-0.036}$	$H(0.51)$	90.15	$89.7^{+1.0}_{-2.2}$
A_{100}^{PS}	249	258^{+70}_{-70}	$\sigma_8 \Omega_m^{0.5}$	0.4515	$0.448^{+0.018}_{-0.020}$	$D_M(0.51)$	1966	1982^{+84}_{-37}
A_{143}^{PS}	47.2	45^{+20}_{-20}	$\sigma_8 \Omega_m^{0.25}$	0.6085	$0.599^{+0.022}_{-0.038}$	$H(0.61)$	95.72	$95.34^{+0.85}_{-1.8}$
$A_{143 \times 217}^{PS}$	47.9	42^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.992	$0.976^{+0.034}_{-0.069}$	$D_M(0.61)$	2289	2306^{+92}_{-41}
A_{217}^{PS}	119.5	114^{+30}_{-30}	$r_{drag} h$	100.61	$99.6^{+3.0}_{-6.0}$	$H(2.33)$	235.70	$236.1^{+2.9}_{-2.0}$
A^{kSZ}	0.0	—	$\langle d^2 \rangle^{1/2}$	2.433	$2.423^{+0.062}_{-0.065}$	$D_M(2.33)$	5743	5762^{+94}_{-40}
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.8}$	z_{re}	7.55	$7.6^{+2.0}_{-2.3}$	$f\sigma_8(0.15)$	0.4560	$0.453^{+0.017}_{-0.019}$
A_{143}^{dustTT}	11.01	$11.0^{+4.7}_{-4.6}$	$10^9 A_s$	2.092	$2.091^{+0.088}_{-0.088}$	$\sigma_8(0.15)$	0.7585	$0.741^{+0.031}_{-0.066}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.7^{+8.4}_{-8.4}$	$10^9 A_s e^{-2\tau}$	1.8796	$1.878^{+0.028}_{-0.030}$	$f\sigma_8(0.38)$	0.4763	$0.471^{+0.016}_{-0.025}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	D_{40}	1224.2	1226^{+30}_{-31}	$\sigma_8(0.38)$	0.6731	$0.657^{+0.029}_{-0.067}$
A_{100}^{dustTE}	0.113	$0.114^{+0.10}_{-0.093}$	D_{220}	5736	5736^{+100}_{-100}	$f\sigma_8(0.51)$	0.4758	$0.470^{+0.016}_{-0.029}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.075}_{-0.075}$	D_{810}	2539.5	2537^{+34}_{-36}	$\sigma_8(0.51)$	0.6302	$0.615^{+0.027}_{-0.064}$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.22}$	D_{1420}	818.5	817^{+12}_{-12}	$f\sigma_8(0.61)$	0.4714	$0.465^{+0.015}_{-0.031}$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	D_{2000}	231.50	$230.9^{+4.1}_{-4.1}$	$\sigma_8(0.61)$	0.5998	$0.585^{+0.026}_{-0.062}$
$A_{143 \times 217}^{dustTE}$	0.666	$0.66^{+0.21}_{-0.21}$	$n_{s,0.002}$	0.9682	$0.967^{+0.010}_{-0.010}$	$f\sigma_8(2.33)$	0.3018	$0.296^{+0.011}_{-0.030}$
A_{217}^{dustTE}	2.09	$2.07^{+0.70}_{-0.71}$	Y_P	0.245431	$0.24542^{+0.00015}_{-0.00015}$	$\sigma_8(2.33)$	0.3120	$0.304^{+0.012}_{-0.035}$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	Y_P^{BBN}	0.246757	$0.24674^{+0.00015}_{-0.00015}$	f_{2000}^{143}	28.4	29^{+7}_{-7}
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$10^5 D/H$	2.569	$2.575^{+0.070}_{-0.070}$	$f_{2000}^{143 \times 217}$	31.67	32^{+5}_{-5}
m_{DES}^1	0.014	$0.014^{+0.059}_{-0.058}$	Age/Gyr	13.751	$13.79^{+0.22}_{-0.089}$	f_{2000}^{217}	106.30	$106.9^{+4.6}_{-4.5}$
m_{DES}^2	0.012	$0.012^{+0.057}_{-0.057}$	z_*	1089.71	$1089.76^{+0.67}_{-0.65}$	χ_{small}^2	395.86	$397.0 (\nu: 1.4)$
m_{DES}^3	-0.007	$-0.008^{+0.052}_{-0.051}$	r_*	144.62	$144.63^{+0.67}_{-0.67}$	χ_{lowl}^2	22.90	$22.99 (\nu: 0.3)$
m_{DES}^4	0.012	$0.011^{+0.054}_{-0.053}$	$100\theta_*$	1.04121	$1.04119^{+0.00077}_{-0.00076}$	χ_{plik}^2	2344.9	$2361.4 (\nu: 19.6)$
$A_{IA,DES}$	1.43	$1.2^{+1.3}_{-1.2}$	$D_M(z_*)/\text{Gpc}$	13.889	$13.891^{+0.063}_{-0.063}$	χ_{DES}^2	229.2	$232.0 (\nu: 3.2)$
$\alpha_{IA,DES}$	2.4	—	z_{drag}	1060.09	$1060.01^{+0.80}_{-0.73}$	χ_{prior}^2	2.7	$19.6 (\nu: 17.8)$
$\Delta z_{s,DES}^1$	0.0045	$0.005^{+0.037}_{-0.038}$	r_{drag}	147.25	$147.28^{+0.68}_{-0.68}$	χ_{CMB}^2	2763.6	$2781.4 (\nu: 19.3)$

Best-fit $\chi_{eff}^2 = 2995.54$; $\bar{\chi}_{eff}^2 = 3033.01$; $R - 1 = 0.00759$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2_29: 22.90 plik_rd12_HM_v22b_TTTEE: 2344.87 WL - DES_1YR_final: 229.21

6.160 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022444	$0.02246^{+0.00036}_{-0.00033}$	$\Delta z_{s,DES}^4$	-0.022	$-0.022^{+0.050}_{-0.050}$	$100\theta_{eq}$	0.8173	$0.819^{+0.011}_{-0.010}$
$\Omega_c h^2$	0.11906	$0.1188^{+0.0024}_{-0.0024}$	H_0	68.29	$68.0^{+1.2}_{-1.5}$	$100\theta_{s,eq}$	0.4514	$0.4521^{+0.0054}_{-0.0052}$
$100\theta_{MC}$	1.04104	$1.04105^{+0.00076}_{-0.00074}$	Ω_Λ	0.6965	$0.693^{+0.015}_{-0.018}$	$H(0.15)$	73.49	$73.2^{+1.1}_{-1.3}$
τ	0.0532	$0.054^{+0.021}_{-0.021}$	Ω_m	0.3035	$0.307^{+0.018}_{-0.015}$	$D_M(0.15)$	635.4	638^{+13}_{-10}
Σm_ν [eV]	0.002	< 0.192	$\Omega_m h^2$	0.14153	$0.1418^{+0.0024}_{-0.0023}$	$H(0.38)$	83.48	$83.27^{+0.83}_{-1.0}$
$\ln(10^{10} A_s)$	3.0387	$3.040^{+0.042}_{-0.043}$	$\Omega_\nu h^2$	0.00003	< 0.00206	$D_M(0.38)$	1517.3	1523^{+26}_{-21}
n_s	0.9684	$0.9680^{+0.0093}_{-0.0093}$	$\Omega_m h^3$	0.09665	$0.09643^{+0.00091}_{-0.0012}$	$H(0.51)$	90.13	$89.94^{+0.69}_{-0.86}$
y_{cal}	0.9998	$1.0004^{+0.0062}_{-0.0065}$	σ_8	0.8194	$0.808^{+0.024}_{-0.039}$	$D_M(0.51)$	1966.8	1973^{+31}_{-25}
A_{217}^{CIB}	46.8	47^{+20}_{-20}	S_8	0.8242	$0.818^{+0.031}_{-0.033}$	$H(0.61)$	95.69	$95.53^{+0.59}_{-0.75}$
$\xi^{tSZ \times CIB}$	0.48	—	$\sigma_8 \Omega_m^{0.5}$	0.4514	$0.448^{+0.017}_{-0.018}$	$D_M(0.61)$	2289.7	2297^{+34}_{-27}
A_{143}^{tSZ}	7.30	> 0.899	$\sigma_8 \Omega_m^{0.25}$	0.6082	$0.602^{+0.019}_{-0.025}$	$H(2.33)$	235.70	$235.8^{+1.5}_{-1.5}$
A_{100}^{PS}	248	258^{+70}_{-70}	$\sigma_8/h^{0.5}$	0.9916	$0.980^{+0.030}_{-0.041}$	$D_M(2.33)$	5744.3	5753^{+38}_{-28}
A_{143}^{PS}	47.3	45^{+20}_{-20}	$r_{drag} h$	100.57	$100.2^{+2.1}_{-2.3}$	$f\sigma_8(0.15)$	0.4559	$0.453^{+0.016}_{-0.017}$
$A_{143 \times 217}^{PS}$	48.3	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.431	$2.423^{+0.059}_{-0.064}$	$\sigma_8(0.15)$	0.7579	$0.748^{+0.022}_{-0.036}$
A_{217}^{PS}	119.7	115^{+30}_{-30}	z_{re}	7.53	$7.6^{+2.0}_{-2.3}$	$f\sigma_8(0.38)$	0.4761	$0.472^{+0.014}_{-0.017}$
A^{kSZ}	0.0	—	$10^9 A_s$	2.088	$2.091^{+0.089}_{-0.088}$	$\sigma_8(0.38)$	0.6725	$0.663^{+0.020}_{-0.033}$
A_{100}^{dustTT}	8.89	$8.9^{+4.8}_{-4.8}$	$10^9 A_s e^{-2\tau}$	1.8769	$1.877^{+0.026}_{-0.029}$	$f\sigma_8(0.51)$	0.4756	$0.471^{+0.014}_{-0.018}$
A_{143}^{dustTT}	11.07	$10.9^{+4.7}_{-4.5}$	D_{40}	1221.9	1225^{+30}_{-30}	$\sigma_8(0.51)$	0.6296	$0.621^{+0.019}_{-0.031}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.4}_{-8.3}$	D_{220}	5725	5736^{+99}_{-100}	$f\sigma_8(0.61)$	0.4712	$0.467^{+0.013}_{-0.018}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	D_{810}	2536.0	2537^{+33}_{-36}	$\sigma_8(0.61)$	0.5992	$0.591^{+0.018}_{-0.030}$
A_{100}^{dustTE}	0.115	$0.114^{+0.099}_{-0.096}$	D_{1420}	817.4	818^{+12}_{-12}	$f\sigma_8(2.33)$	0.3015	$0.2981^{+0.0084}_{-0.013}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.076}_{-0.074}$	D_{2000}	231.15	$231.1^{+4.0}_{-4.1}$	$\sigma_8(2.33)$	0.3116	$0.3075^{+0.0094}_{-0.015}$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$n_{s,0.002}$	0.9684	$0.9680^{+0.0093}_{-0.0093}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	Y_P	0.245424	$0.24543^{+0.00014}_{-0.00013}$	$f_{2000}^{143 \times 217}$	31.74	32^{+5}_{-5}
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.21}_{-0.21}$	Y_P^{BBN}	0.246751	$0.24675^{+0.00014}_{-0.00013}$	f_{2000}^{217}	106.27	$106.7^{+4.5}_{-4.5}$
A_{217}^{dustTE}	2.07	$2.07^{+0.70}_{-0.69}$	$10^5 D/H$	2.572	$2.570^{+0.062}_{-0.065}$	χ_{simall}^2	395.84	$397.0 (\nu: 1.4)$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	13.754	$13.774^{+0.087}_{-0.064}$	χ_{lowl}^2	22.84	$22.92 (\nu: 0.3)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	z_*	1089.74	$1089.70^{+0.52}_{-0.56}$	χ_{plik}^2	2345.0	$2360.9 (\nu: 18.4)$
m_{DES}^1	0.015	$0.014^{+0.059}_{-0.059}$	r_*	144.62	$144.69^{+0.59}_{-0.57}$	χ_{6DF}^2	0.000	$0.033 (\nu: 0.0)$
m_{DES}^2	0.012	$0.012^{+0.056}_{-0.057}$	$100\theta_*$	1.04119	$1.04123^{+0.00075}_{-0.00074}$	χ_{MGS}^2	1.75	$1.57 (\nu: 0.1)$
m_{DES}^3	-0.007	$-0.007^{+0.052}_{-0.052}$	$D_M(z_*)/\text{Gpc}$	13.890	$13.896^{+0.055}_{-0.055}$	$\chi_{DR12BAO}^2$	3.47	$4.2 (\nu: 0.6)$
m_{DES}^4	0.012	$0.011^{+0.055}_{-0.054}$	z_{drag}	1060.05	$1060.05^{+0.76}_{-0.73}$	χ_{DES}^2	229.2	$231.9 (\nu: 3.0)$
$A_{IA,DES}$	1.45	$1.2^{+1.3}_{-1.2}$	r_{drag}	147.26	$147.33^{+0.61}_{-0.61}$	χ_{prior}^2	2.8	$19.4 (\nu: 17.8)$
$\alpha_{IA,DES}$	2.5	—	k_D	0.14073	$0.14068^{+0.00075}_{-0.00074}$	χ_{BAO}^2	5.22	$5.78 (\nu: 0.3)$
$\Delta z_{s,DES}^1$	0.0044	$0.004^{+0.037}_{-0.037}$	$100\theta_D$	0.160707	$0.16070^{+0.00044}_{-0.00044}$	χ_{CMB}^2	2763.7	$2780.8 (\nu: 18.0)$
$\Delta z_{s,DES}^2$	-0.0207	$-0.021^{+0.029}_{-0.029}$	z_{eq}	3382	3375^{+55}_{-55}			
$\Delta z_{s,DES}^3$	0.0050	$0.005^{+0.027}_{-0.025}$	k_{eq}	0.010320	$0.01030^{+0.00017}_{-0.00017}$			

Best-fit $\chi_{eff}^2 = 3000.82$; $\bar{\chi}_{eff}^2 = 3037.89$; $R - 1 = 0.00772$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.47 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.84 commander_dx12_v3_2_29: 22.84 plik_rd12_HM_v22b_TTTEE: 2344.98 WL - DES_1YR_final: 229.17

6.161 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022472	$0.02244^{+0.00038}_{-0.00037}$	$\Delta z_{s,DES}^3$	0.0048	$0.004^{+0.026}_{-0.026}$	z_{eq}	3381	3382^{+64}_{-62}
$\Omega_c h^2$	0.11899	$0.1191^{+0.0029}_{-0.0028}$	$\Delta z_{s,DES}^4$	-0.022	$-0.023^{+0.051}_{-0.050}$	k_{eq}	0.010318	$0.01032^{+0.00020}_{-0.00019}$
$100\theta_{MC}$	1.04104	$1.04100^{+0.00079}_{-0.00078}$	H_0	68.34	$67.7^{+1.7}_{-3.1}$	$100\theta_{eq}$	0.8175	$0.817^{+0.012}_{-0.012}$
τ	0.0540	$0.055^{+0.021}_{-0.019}$	Ω_Λ	0.6971	$0.689^{+0.021}_{-0.041}$	$100\theta_{s,eq}$	0.4515	$0.4513^{+0.0062}_{-0.0061}$
Σm_ν [eV]	0.001	< 0.284	Ω_m	0.3029	$0.311^{+0.041}_{-0.021}$	$H(0.15)$	73.54	$73.0^{+1.5}_{-2.7}$
$\ln(10^{10} A_s)$	3.0418	$3.043^{+0.039}_{-0.037}$	$\Omega_m h^2$	0.14148	$0.1423^{+0.0045}_{-0.0030}$	$D_M(0.15)$	635.0	640^{+27}_{-14}
n_s	0.9689	$0.967^{+0.010}_{-0.010}$	$\Omega_\nu h^2$	0.00001	< 0.00305	$H(0.38)$	83.52	$83.1^{+1.1}_{-2.1}$
y_{cal}	1.0005	$1.0006^{+0.0062}_{-0.0064}$	$\Omega_m h^3$	0.09669	$0.09635^{+0.00098}_{-0.0017}$	$D_M(0.38)$	1516.4	1528^{+56}_{-29}
A_{217}^{CIB}	45.1	47^{+20}_{-20}	σ_8	0.8206	$0.807^{+0.023}_{-0.051}$	$H(0.51)$	90.16	$89.80^{+0.92}_{-1.7}$
$\xi^{tSZ \times CIB}$	0.80	—	S_8	0.8246	$0.821^{+0.028}_{-0.028}$	$D_M(0.51)$	1966	1979^{+66}_{-34}
A_{143}^{tSZ}	7.09	> 0.874	$\sigma_8 \Omega_m^{0.5}$	0.4517	$0.450^{+0.015}_{-0.015}$	$H(0.61)$	95.72	$95.41^{+0.78}_{-1.4}$
A_{100}^{PS}	246	258^{+70}_{-70}	$\sigma_8 \Omega_m^{0.25}$	0.6088	$0.602^{+0.017}_{-0.024}$	$D_M(0.61)$	2288	2303^{+72}_{-37}
A_{143}^{PS}	51.7	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	0.9927	$0.981^{+0.026}_{-0.045}$	$H(2.33)$	235.68	$236.1^{+2.6}_{-1.8}$
$A_{143 \times 217}^{PS}$	56.4	42^{+20}_{-20}	$r_{drag} h$	100.64	$99.7^{+2.8}_{-4.8}$	$D_M(2.33)$	5743	5758^{+72}_{-36}
A_{217}^{PS}	122.9	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	2.433	$2.430^{+0.050}_{-0.050}$	$f\sigma_8(0.15)$	0.4562	$0.455^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	z_{re}	7.60	$7.7^{+2.0}_{-2.1}$	$\sigma_8(0.15)$	0.7590	$0.746^{+0.022}_{-0.049}$
A_{100}^{dustTT}	8.85	$8.9^{+4.7}_{-4.8}$	$10^9 A_s$	2.094	$2.098^{+0.084}_{-0.077}$	$f\sigma_8(0.38)$	0.4765	$0.473^{+0.013}_{-0.016}$
A_{143}^{dustTT}	10.99	$10.9^{+4.7}_{-4.4}$	$10^9 A_s e^{-2\tau}$	1.8801	$1.879^{+0.027}_{-0.027}$	$\sigma_8(0.38)$	0.6736	$0.661^{+0.020}_{-0.047}$
$A_{143 \times 217}^{dustTT}$	20.3	$18.6^{+8.4}_{-8.3}$	D_{40}	1223.3	1228^{+29}_{-29}	$f\sigma_8(0.51)$	0.4761	$0.472^{+0.012}_{-0.018}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	D_{220}	5736	5740^{+100}_{-100}	$\sigma_8(0.51)$	0.6307	$0.619^{+0.019}_{-0.045}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.094}$	D_{810}	2540.7	2539^{+33}_{-35}	$f\sigma_8(0.61)$	0.4717	$0.467^{+0.012}_{-0.020}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.074}_{-0.074}$	D_{1420}	819.2	818^{+12}_{-12}	$\sigma_8(0.61)$	0.6002	$0.589^{+0.019}_{-0.043}$
$A_{100 \times 217}^{dustTE}$	0.479	$0.48^{+0.22}_{-0.22}$	D_{2000}	231.77	$231.1^{+4.1}_{-4.1}$	$f\sigma_8(2.33)$	0.3020	$0.2973^{+0.0090}_{-0.020}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$n_{s,0.002}$	0.9689	$0.967^{+0.010}_{-0.010}$	$\sigma_8(2.33)$	0.3122	$0.306^{+0.010}_{-0.024}$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.21}_{-0.21}$	Y_P	0.245434	$0.24542^{+0.00014}_{-0.00015}$	f_{2000}^{143}	28.1	29^{+7}_{-7}
A_{217}^{dustTE}	2.07	$2.07^{+0.69}_{-0.70}$	Y_P^{BBN}	0.246761	$0.24675^{+0.00015}_{-0.00015}$	$f_{2000}^{143 \times 217}$	31.64	32^{+5}_{-5}
c_{100}	0.99977	$0.9997^{+0.0016}_{-0.0016}$	$10^5 D/H$	2.567	$2.573^{+0.069}_{-0.068}$	f_{2000}^{217}	106.07	$106.8^{+4.5}_{-4.5}$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0017}$	Age/Gyr	13.751	$13.79^{+0.16}_{-0.081}$	$\chi_{lensing}^2$	8.84	$9.29 (\nu: 0.3)$
m_{DES}^1	0.015	$0.014^{+0.060}_{-0.058}$	z_*	1089.70	$1089.75^{+0.65}_{-0.63}$	χ_{small}^2	395.92	$397.1 (\nu: 1.6)$
m_{DES}^2	0.013	$0.011^{+0.057}_{-0.058}$	r_*	144.62	$144.61^{+0.62}_{-0.66}$	χ_{lowl}^2	22.80	$23.13 (\nu: 0.3)$
m_{DES}^3	-0.007	$-0.009^{+0.051}_{-0.051}$	$100\theta_*$	1.04118	$1.04118^{+0.00077}_{-0.00075}$	χ_{plik}^2	2345.2	$2360.4 (\nu: 16.7)$
m_{DES}^4	0.013	$0.010^{+0.056}_{-0.053}$	$D_M(z_*)/\text{Gpc}$	13.890	$13.889^{+0.058}_{-0.061}$	χ_{DES}^2	229.2	$232.1 (\nu: 3.3)$
$A_{IA,DES}$	1.46	$1.3^{+1.2}_{-1.2}$	z_{drag}	1060.09	$1060.03^{+0.78}_{-0.75}$	χ_{prior}^2	2.5	$19.6 (\nu: 17.9)$
$\alpha_{IA,DES}$	2.5	—	r_{drag}	147.25	$147.25^{+0.64}_{-0.66}$	χ_{CMB}^2	2772.7	$2789.9 (\nu: 18.2)$
$\Delta z_{s,DES}^1$	0.0050	$0.005^{+0.037}_{-0.038}$	k_D	0.14077	$0.14075^{+0.00075}_{-0.00076}$			
$\Delta z_{s,DES}^2$	-0.0205	$-0.021^{+0.029}_{-0.029}$	$100\theta_D$	0.160670	$0.16071^{+0.00045}_{-0.00044}$			

Best-fit $\chi_{eff}^2 = 3004.39$; $\bar{\chi}_{eff}^2 = 3041.59$; $R - 1 = 0.00745$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.84 small_100x143_offlike5_EE_Aplanck_B: 395.92 commander_dx12_v3.2_29: 22.80 plik_rd12_HM_v22b_TTTEE: 2345.16 WL - DES_1YR_final: 229.17

6.162 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022459	$0.02246^{+0.00036}_{-0.00033}$	$\Delta z_{s,DES}^4$	-0.022	$-0.022^{+0.050}_{-0.050}$	$100\theta_{eq}$	0.8171	$0.8182^{+0.0097}_{-0.0095}$
$\Omega_c h^2$	0.11909	$0.1189^{+0.0022}_{-0.0022}$	H_0	68.30	$68.0^{+1.2}_{-1.4}$	$100\theta_{s,eq}$	0.45130	$0.4519^{+0.0050}_{-0.0049}$
$100\theta_{MC}$	1.04105	$1.04104^{+0.00075}_{-0.00073}$	Ω_Λ	0.6965	$0.693^{+0.015}_{-0.018}$	$H(0.15)$	73.50	$73.2^{+1.1}_{-1.2}$
τ	0.0539	$0.055^{+0.020}_{-0.019}$	Ω_m	0.3035	$0.307^{+0.018}_{-0.015}$	$D_M(0.15)$	635.3	638^{+12}_{-10}
Σm_ν [eV]	0.000	< 0.171	$\Omega_m h^2$	0.14156	$0.1418^{+0.0023}_{-0.0022}$	$H(0.38)$	83.49	$83.29^{+0.81}_{-0.97}$
$\ln(10^{10} A_s)$	3.0415	$3.043^{+0.039}_{-0.037}$	$\Omega_\nu h^2$	0.00000	< 0.00184	$D_M(0.38)$	1517.1	1522^{+25}_{-21}
n_s	0.9684	$0.9676^{+0.0092}_{-0.0091}$	$\Omega_m h^3$	0.09668	$0.09647^{+0.00088}_{-0.0010}$	$H(0.51)$	90.14	$89.96^{+0.67}_{-0.81}$
y_{cal}	1.0003	$1.0005^{+0.0060}_{-0.0064}$	σ_8	0.8208	$0.811^{+0.020}_{-0.030}$	$D_M(0.51)$	1966.6	1973^{+30}_{-25}
A_{217}^{CIB}	45.6	47^{+20}_{-20}	S_8	0.8255	$0.820^{+0.025}_{-0.026}$	$H(0.61)$	95.70	$95.55^{+0.57}_{-0.70}$
$\xi^{tSZ \times CIB}$	0.71	—	$\sigma_8 \Omega_m^{0.5}$	0.4522	$0.449^{+0.014}_{-0.014}$	$D_M(0.61)$	2289.4	2296^{+32}_{-27}
A_{143}^{tSZ}	7.08	> 0.893	$\sigma_8 \Omega_m^{0.25}$	0.6092	$0.604^{+0.015}_{-0.019}$	$H(2.33)$	235.73	$235.8^{+1.4}_{-1.4}$
A_{100}^{PS}	246	257^{+70}_{-70}	$\sigma_8/h^{0.5}$	0.9932	$0.984^{+0.023}_{-0.031}$	$D_M(2.33)$	5743.6	5752^{+35}_{-27}
A_{143}^{PS}	50.7	45^{+20}_{-20}	$r_{drag} h$	100.56	$100.2^{+2.0}_{-2.2}$	$f\sigma_8(0.15)$	0.4567	$0.454^{+0.013}_{-0.013}$
$A_{143 \times 217}^{PS}$	54.0	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.4346	$2.429^{+0.049}_{-0.049}$	$\sigma_8(0.15)$	0.7591	$0.750^{+0.018}_{-0.028}$
A_{217}^{PS}	122.1	115^{+30}_{-30}	z_{re}	7.59	$7.7^{+1.9}_{-2.0}$	$f\sigma_8(0.38)$	0.4769	$0.473^{+0.011}_{-0.013}$
A^{kSZ}	0.0	—	$10^9 A_s$	2.094	$2.097^{+0.083}_{-0.076}$	$\sigma_8(0.38)$	0.6736	$0.665^{+0.017}_{-0.026}$
A_{100}^{dustTT}	8.80	$8.9^{+4.8}_{-4.7}$	$10^9 A_s e^{-2\tau}$	1.8798	$1.878^{+0.025}_{-0.027}$	$f\sigma_8(0.51)$	0.4763	$0.473^{+0.011}_{-0.013}$
A_{143}^{dustTT}	11.06	$10.9^{+4.7}_{-4.4}$	D_{40}	1223.9	1226^{+29}_{-28}	$\sigma_8(0.51)$	0.6306	$0.623^{+0.016}_{-0.025}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.6^{+8.4}_{-8.5}$	D_{220}	5734	5740^{+99}_{-100}	$f\sigma_8(0.61)$	0.4719	$0.468^{+0.010}_{-0.013}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	D_{810}	2539.7	2538^{+32}_{-35}	$\sigma_8(0.61)$	0.6002	$0.593^{+0.015}_{-0.024}$
A_{100}^{dustTE}	0.116	$0.114^{+0.10}_{-0.094}$	D_{1420}	818.6	818^{+12}_{-12}	$f\sigma_8(2.33)$	0.3020	$0.2990^{+0.0072}_{-0.010}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.075}_{-0.074}$	D_{2000}	231.57	$231.2^{+4.0}_{-4.1}$	$\sigma_8(2.33)$	0.3121	$0.3085^{+0.0082}_{-0.012}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$n_{s,0.002}$	0.9684	$0.9676^{+0.0092}_{-0.0091}$	f_{2000}^{143}	28.3	29^{+7}_{-7}
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	Y_P	0.245430	$0.24543^{+0.00014}_{-0.00013}$	$f_{2000}^{143 \times 217}$	31.66	32^{+5}_{-5}
$A_{143 \times 217}^{dustTE}$	0.664	$0.66^{+0.21}_{-0.20}$	Y_P^{BBN}	0.246756	$0.24676^{+0.00014}_{-0.00013}$	f_{2000}^{217}	106.16	$106.7^{+4.5}_{-4.4}$
A_{217}^{dustTE}	2.07	$2.07^{+0.70}_{-0.69}$	$10^5 D/H$	2.569	$2.569^{+0.062}_{-0.065}$	$\chi^2_{lensing}$	8.85	$9.24 (\nu: 0.2)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	Age/Gyr	13.752	$13.771^{+0.080}_{-0.063}$	χ^2_{small}	395.93	$397.0 (\nu: 1.5)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0017}$	z_*	1089.72	$1089.71^{+0.51}_{-0.55}$	χ^2_{lowl}	22.90	$23.04 (\nu: 0.3)$
m_{DES}^1	0.015	$0.014^{+0.060}_{-0.058}$	r_*	144.60	$144.66^{+0.53}_{-0.54}$	χ^2_{plik}	2344.9	$2360.1 (\nu: 16.5)$
m_{DES}^2	0.013	$0.011^{+0.056}_{-0.058}$	$100\theta_*$	1.04119	$1.04121^{+0.00074}_{-0.00073}$	χ^2_{6DF}	0.000	$0.031 (\nu: 0.0)$
m_{DES}^3	-0.008	$-0.008^{+0.052}_{-0.051}$	$D_M(z_*)/\text{Gpc}$	13.888	$13.894^{+0.051}_{-0.052}$	χ^2_{MGS}	1.75	$1.58 (\nu: 0.1)$
m_{DES}^4	0.012	$0.011^{+0.056}_{-0.055}$	z_{drag}	1060.09	$1060.06^{+0.75}_{-0.74}$	$\chi^2_{DR12BAO}$	3.48	$4.1 (\nu: 0.5)$
$A_{IA,DES}$	1.46	$1.3^{+1.2}_{-1.1}$	r_{drag}	147.24	$147.30^{+0.57}_{-0.58}$	χ^2_{DES}	229.2	$232.0 (\nu: 3.1)$
$\alpha_{IA,DES}$	2.5	—	k_D	0.14077	$0.14071^{+0.00073}_{-0.00073}$	χ^2_{prior}	2.6	$19.4 (\nu: 17.9)$
$\Delta z_{s,DES}^1$	0.0049	$0.004^{+0.037}_{-0.037}$	$100\theta_D$	0.160686	$0.16069^{+0.00044}_{-0.00044}$	χ^2_{CMB}	2772.6	$2789.4 (\nu: 17.5)$
$\Delta z_{s,DES}^2$	-0.0209	$-0.021^{+0.029}_{-0.029}$	z_{eq}	3383	3377^{+51}_{-51}	χ^2_{BAO}	5.22	$5.75 (\nu: 0.3)$
$\Delta z_{s,DES}^3$	0.0049	$0.004^{+0.027}_{-0.025}$	k_{eq}	0.010324	$0.01031^{+0.00016}_{-0.00016}$			

Best-fit $\chi^2_{eff} = 3009.63$; $\bar{\chi}^2_{eff} = 3046.60$; $R - 1 = 0.00939$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.48 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.85 small_100x143_offlike5_EE_Aplanck_B: 395.93 commander_dx12_v3_2_29: 22.90 plik_rd12_HM_v22b_TTTEE: 2344.91 WL - DES_1YR_final: 229.18

6.163 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02244^{+0.00039}_{-0.00037}$	$\Delta z_{\mathrm{s,DES}}^2$	$-0.021^{+0.029}_{-0.030}$	k_{D}	$0.14071^{+0.00079}_{-0.00078}$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0029}_{-0.0029}$	$\Delta z_{\mathrm{s,DES}}^3$	$0.004^{+0.027}_{-0.025}$	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00044}_{-0.00045}$
$100\theta_{\mathrm{MC}}$	$1.04101^{+0.00079}_{-0.00079}$	$\Delta z_{\mathrm{s,DES}}^4$	$-0.023^{+0.052}_{-0.052}$	z_{eq}	3379^{+66}_{-66}
τ	$0.055^{+0.019}_{-0.013}$	H_0	$67.6^{+1.8}_{-4.0}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$
Σm_{ν} [eV]	< 0.398	Ω_{Λ}	$0.688^{+0.023}_{-0.053}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.040}_{-0.029}$	Ω_{m}	$0.312^{+0.053}_{-0.023}$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0063}_{-0.0063}$
n_{s}	$0.967^{+0.010}_{-0.010}$	$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0054}_{-0.0032}$	$H(0.15)$	$72.9^{+1.6}_{-3.5}$
y_{cal}	$1.0004^{+0.0064}_{-0.0065}$	$\Omega_{\nu} h^2$	< 0.00428	$D_{\mathrm{M}}(0.15)$	641^{+36}_{-15}
A_{217}^{CIB}	47^{+20}_{-20}	$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0011}_{-0.0024}$	$H(0.38)$	$83.0^{+1.2}_{-2.7}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	σ_8	$0.803^{+0.033}_{-0.072}$	$D_{\mathrm{M}}(0.38)$	1529^{+73}_{-31}
A_{143}^{tSZ}	> 1.03	S_8	$0.818^{+0.034}_{-0.036}$	$H(0.51)$	$89.7^{+1.0}_{-2.2}$
A_{100}^{PS}	258^{+70}_{-70}	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.019}_{-0.020}$	$D_{\mathrm{M}}(0.51)$	1981^{+86}_{-37}
A_{143}^{PS}	45^{+20}_{-20}	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.022}_{-0.039}$	$H(0.61)$	$95.35^{+0.85}_{-1.9}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$\sigma_8 / h^{0.5}$	$0.977^{+0.034}_{-0.070}$	$D_{\mathrm{M}}(0.61)$	2305^{+94}_{-40}
A_{217}^{PS}	114^{+30}_{-30}	$r_{\mathrm{drag}} h$	$99.6^{+3.0}_{-6.1}$	$H(2.33)$	$236.1^{+3.0}_{-2.0}$
A^{kSZ}	—	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.061}_{-0.061}$	$D_{\mathrm{M}}(2.33)$	5761^{+96}_{-39}
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.8}$	z_{re}	< 9.43	$f\sigma_8(0.15)$	$0.453^{+0.017}_{-0.019}$
$A_{143}^{\mathrm{dustTT}}$	$11.0^{+4.7}_{-4.5}$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.084}_{-0.061}$	$\sigma_8(0.15)$	$0.742^{+0.031}_{-0.073}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.7^{+8.3}_{-8.4}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.030}$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.026}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	D_{40}	1226^{+30}_{-31}	$\sigma_8(0.38)$	$0.658^{+0.028}_{-0.069}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.093}$	D_{220}	5735^{+100}_{-100}	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.030}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.075}_{-0.074}$	D_{810}	2537^{+34}_{-35}	$\sigma_8(0.51)$	$0.616^{+0.027}_{-0.067}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.032}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	D_{2000}	$231.0^{+4.1}_{-4.1}$	$\sigma_8(0.61)$	$0.586^{+0.025}_{-0.064}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.010}$	$f\sigma_8(2.33)$	$0.296^{+0.010}_{-0.031}$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.70}_{-0.71}$	Y_{P}	$0.24542^{+0.00015}_{-0.00015}$	$\sigma_8(2.33)$	$0.305^{+0.012}_{-0.036}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00015}_{-0.00015}$	f_{2000}^{143}	29^{+7}_{-7}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.574^{+0.069}_{-0.069}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
m_{DES}^1	$0.014^{+0.060}_{-0.057}$	Age/Gyr	$13.79^{+0.22}_{-0.089}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.5}$
m_{DES}^2	$0.012^{+0.057}_{-0.057}$	z_*	$1089.75^{+0.65}_{-0.65}$	χ_{simall}^2	$396.9 (\nu: 1.4)$
m_{DES}^3	$-0.008^{+0.052}_{-0.051}$	r_*	$144.64^{+0.67}_{-0.67}$	χ_{lowl}^2	$22.99 (\nu: 0.3)$
m_{DES}^4	$0.011^{+0.054}_{-0.053}$	$100\theta_*$	$1.04120^{+0.00077}_{-0.00076}$	χ_{plik}^2	$2361.2 (\nu: 19.4)$
$A_{\mathrm{IA,DES}}$	$1.2^{+1.3}_{-1.2}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.062}_{-0.063}$	χ_{DES}^2	$232.1 (\nu: 3.2)$
$\alpha_{\mathrm{IA,DES}}$	—	z_{drag}	$1060.02^{+0.79}_{-0.73}$	χ_{prior}^2	$19.6 (\nu: 17.9)$
$\Delta z_{\mathrm{s,DES}}^1$	$0.005^{+0.037}_{-0.037}$	r_{drag}	$147.29^{+0.68}_{-0.68}$	χ_{CMB}^2	$2781.1 (\nu: 18.7)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3032.75; R - 1 = 0.00988$$

6.164 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02246^{+0.00036}_{-0.00033}$	$\Delta z_{\mathrm{s,DES}}^4$	$-0.022^{+0.050}_{-0.050}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.011}_{-0.010}$
$\Omega_{\mathrm{c}}h^2$	$0.1187^{+0.0024}_{-0.0024}$	H_0	$68.0^{+1.2}_{-1.5}$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0054}_{-0.0052}$
$100\theta_{\mathrm{MC}}$	$1.04106^{+0.00076}_{-0.00074}$	Ω_{Λ}	$0.693^{+0.015}_{-0.018}$	$H(0.15)$	$73.2^{+1.1}_{-1.3}$
τ	$0.055^{+0.018}_{-0.013}$	Ω_{m}	$0.307^{+0.018}_{-0.015}$	$D_{\mathrm{M}}(0.15)$	638^{+13}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.194	$\Omega_{\mathrm{m}}h^2$	$0.1418^{+0.0024}_{-0.0023}$	$H(0.38)$	$83.27^{+0.83}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.040}_{-0.029}$	$\Omega_{\nu}h^2$	< 0.00208	$D_{\mathrm{M}}(0.38)$	1522^{+26}_{-21}
n_{s}	$0.9681^{+0.0092}_{-0.0092}$	$\Omega_{\mathrm{m}}h^3$	$0.09643^{+0.00091}_{-0.0012}$	$H(0.51)$	$89.95^{+0.69}_{-0.87}$
y_{cal}	$1.0004^{+0.0062}_{-0.0064}$	σ_8	$0.809^{+0.023}_{-0.039}$	$D_{\mathrm{M}}(0.51)$	1973^{+31}_{-25}
A_{217}^{CIB}	47^{+20}_{-20}	S_8	$0.818^{+0.030}_{-0.033}$	$H(0.61)$	$95.53^{+0.59}_{-0.76}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.017}_{-0.018}$	$D_{\mathrm{M}}(0.61)$	2296^{+34}_{-27}
A_{143}^{tSZ}	> 0.899	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.025}$	$H(2.33)$	$235.8^{+1.5}_{-1.4}$
A_{100}^{PS}	257^{+70}_{-70}	$\sigma_8/h^{0.5}$	$0.981^{+0.029}_{-0.041}$	$D_{\mathrm{M}}(2.33)$	5753^{+38}_{-28}
A_{143}^{PS}	45^{+20}_{-20}	$r_{\mathrm{drag}}h$	$100.2^{+2.0}_{-2.3}$	$f\sigma_8(0.15)$	$0.453^{+0.016}_{-0.017}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.058}_{-0.059}$	$\sigma_8(0.15)$	$0.748^{+0.021}_{-0.037}$
A_{217}^{PS}	115^{+30}_{-30}	z_{re}	< 9.42	$f\sigma_8(0.38)$	$0.472^{+0.014}_{-0.018}$
A^{kSZ}	—	$10^9 A_{\mathrm{s}}$	$2.096^{+0.085}_{-0.060}$	$\sigma_8(0.38)$	$0.664^{+0.019}_{-0.033}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.8}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.877^{+0.027}_{-0.029}$	$f\sigma_8(0.51)$	$0.472^{+0.013}_{-0.018}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.5}$	D_{40}	1224^{+30}_{-30}	$\sigma_8(0.51)$	$0.621^{+0.018}_{-0.032}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.7^{+8.4}_{-8.4}$	D_{220}	5736^{+100}_{-100}	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.018}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	D_{810}	2537^{+33}_{-35}	$\sigma_8(0.61)$	$0.591^{+0.017}_{-0.030}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.095}$	D_{1420}	818^{+12}_{-12}	$f\sigma_8(2.33)$	$0.2984^{+0.0082}_{-0.013}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.074}$	D_{2000}	$231.1^{+4.1}_{-4.2}$	$\sigma_8(2.33)$	$0.3078^{+0.0092}_{-0.015}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$n_{\mathrm{s},0.002}$	$0.9681^{+0.0092}_{-0.0092}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	Y_{P}	$0.24543^{+0.00014}_{-0.00013}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00014}_{-0.00013}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.5}$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.70}_{-0.69}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.569^{+0.062}_{-0.065}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.774^{+0.087}_{-0.064}$	χ_{lowl}^2	$22.92 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	z_{*}	$1089.69^{+0.52}_{-0.56}$	χ_{plik}^2	$2360.7 (\nu: 18.1)$
m_{DES}^1	$0.014^{+0.059}_{-0.058}$	r_{*}	$144.70^{+0.58}_{-0.57}$	$\chi_{6\mathrm{DF}}^2$	$0.032 (\nu: 0.0)$
m_{DES}^2	$0.011^{+0.056}_{-0.057}$	$100\theta_{*}$	$1.04123^{+0.00074}_{-0.00073}$	χ_{MGS}^2	$1.58 (\nu: 0.1)$
m_{DES}^3	$-0.007^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.897^{+0.055}_{-0.054}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.2 (\nu: 0.6)$
m_{DES}^4	$0.011^{+0.055}_{-0.055}$	z_{drag}	$1060.05^{+0.76}_{-0.73}$	χ_{DES}^2	$231.9 (\nu: 3.0)$
$A_{\mathrm{IA,DES}}$	$1.2^{+1.3}_{-1.2}$	r_{drag}	$147.33^{+0.61}_{-0.61}$	χ_{prior}^2	$19.4 (\nu: 17.9)$
$\alpha_{\mathrm{IA,DES}}$	—	k_{D}	$0.14068^{+0.00075}_{-0.00074}$	χ_{BAO}^2	$5.77 (\nu: 0.3)$
$\Delta z_{\mathrm{s,DES}}^1$	$0.004^{+0.037}_{-0.037}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00045}_{-0.00044}$	χ_{CMB}^2	$2780.5 (\nu: 17.4)$
$\Delta z_{\mathrm{s,DES}}^2$	$-0.021^{+0.030}_{-0.029}$	z_{eq}	3374^{+55}_{-55}		
$\Delta z_{\mathrm{s,DES}}^3$	$0.005^{+0.026}_{-0.025}$	k_{eq}	$0.01030^{+0.00017}_{-0.00017}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3037.64; R - 1 = 0.00834$$

6.165 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02244^{+0.00038}_{-0.00037}$	$\Delta z_{\mathrm{s,DES}}^3$	$0.004^{+0.026}_{-0.025}$	z_{eq}	3381^{+63}_{-61}
$\Omega_{\mathrm{c}}h^2$	$0.1190^{+0.0028}_{-0.0027}$	$\Delta z_{\mathrm{s,DES}}^4$	$-0.023^{+0.051}_{-0.051}$	k_{eq}	$0.01032^{+0.00019}_{-0.00019}$
$100\theta_{\mathrm{MC}}$	$1.04100^{+0.00078}_{-0.00078}$	H_0	$67.7^{+1.7}_{-3.1}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012}$
τ	$0.056^{+0.019}_{-0.014}$	Ω_{Λ}	$0.690^{+0.021}_{-0.041}$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0061}_{-0.0061}$
Σm_{ν} [eV]	< 0.285	Ω_{m}	$0.310^{+0.041}_{-0.021}$	$H(0.15)$	$73.0^{+1.5}_{-2.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.038}_{-0.029}$	$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0046}_{-0.0030}$	$D_{\mathrm{M}}(0.15)$	640^{+28}_{-14}
n_{s}	$0.9671^{+0.0099}_{-0.010}$	$\Omega_{\nu}h^2$	< 0.00307	$H(0.38)$	$83.1^{+1.1}_{-2.1}$
y_{cal}	$1.0006^{+0.0062}_{-0.0064}$	$\Omega_{\mathrm{m}}h^3$	$0.09634^{+0.00098}_{-0.0017}$	$D_{\mathrm{M}}(0.38)$	1527^{+57}_{-29}
A_{217}^{CIB}	47^{+20}_{-20}	σ_8	$0.808^{+0.023}_{-0.052}$	$H(0.51)$	$89.80^{+0.92}_{-1.7}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	S_8	$0.821^{+0.028}_{-0.028}$	$D_{\mathrm{M}}(0.51)$	1979^{+67}_{-34}
A_{143}^{tSZ}	> 0.883	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015}$	$H(0.61)$	$95.41^{+0.78}_{-1.5}$
A_{100}^{PS}	258^{+70}_{-70}	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.017}_{-0.025}$	$D_{\mathrm{M}}(0.61)$	2303^{+73}_{-37}
A_{143}^{PS}	45^{+20}_{-20}	$\sigma_8/h^{0.5}$	$0.981^{+0.026}_{-0.045}$	$H(2.33)$	$236.1^{+2.6}_{-1.8}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$r_{\mathrm{drag}}h$	$99.7^{+2.8}_{-4.8}$	$D_{\mathrm{M}}(2.33)$	5758^{+72}_{-36}
A_{217}^{PS}	115^{+30}_{-30}	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.049}_{-0.049}$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014}$
A^{kSZ}	—	z_{re}	< 9.49	$\sigma_8(0.15)$	$0.746^{+0.022}_{-0.050}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.081}_{-0.060}$	$f\sigma_8(0.38)$	$0.473^{+0.013}_{-0.016}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.4}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.027}_{-0.027}$	$\sigma_8(0.38)$	$0.662^{+0.020}_{-0.047}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.4}_{-8.4}$	D_{40}	1227^{+29}_{-29}	$f\sigma_8(0.51)$	$0.472^{+0.012}_{-0.018}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	D_{220}	5740^{+100}_{-100}	$\sigma_8(0.51)$	$0.619^{+0.019}_{-0.045}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.094}$	D_{810}	2538^{+33}_{-34}	$f\sigma_8(0.61)$	$0.467^{+0.011}_{-0.020}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.074}_{-0.074}$	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.61)$	$0.589^{+0.019}_{-0.044}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	D_{2000}	$231.1^{+4.1}_{-4.1}$	$f\sigma_8(2.33)$	$0.2975^{+0.0089}_{-0.020}$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$n_{\mathrm{s},0.002}$	$0.9671^{+0.0099}_{-0.010}$	$\sigma_8(2.33)$	$0.307^{+0.010}_{-0.024}$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	Y_{P}	$0.24542^{+0.00014}_{-0.00015}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.69}_{-0.70}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00014}_{-0.00015}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.572^{+0.069}_{-0.068}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.4}$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	Age/Gyr	$13.79^{+0.16}_{-0.081}$	$\chi_{\mathrm{lensing}}^2$	$9.25 (\nu: 0.3)$
m_{DES}^1	$0.014^{+0.059}_{-0.058}$	z_*	$1089.74^{+0.64}_{-0.62}$	χ_{simall}^2	$397.0 (\nu: 1.7)$
m_{DES}^2	$0.011^{+0.057}_{-0.057}$	r_*	$144.62^{+0.61}_{-0.64}$	χ_{lowl}^2	$23.12 (\nu: 0.3)$
m_{DES}^3	$-0.009^{+0.051}_{-0.051}$	$100\theta_*$	$1.04119^{+0.00076}_{-0.00075}$	χ_{plik}^2	$2360.3 (\nu: 16.6)$
m_{DES}^4	$0.010^{+0.056}_{-0.053}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.058}_{-0.061}$	χ_{DES}^2	$232.1 (\nu: 3.3)$
$A_{\mathrm{IA,DES}}$	$1.3^{+1.3}_{-1.2}$	z_{drag}	$1060.04^{+0.77}_{-0.75}$	χ_{prior}^2	$19.5 (\nu: 17.9)$
$\alpha_{\mathrm{IA,DES}}$	—	r_{drag}	$147.26^{+0.63}_{-0.65}$	χ_{CMB}^2	$2789.7 (\nu: 17.9)$
$\Delta z_{\mathrm{s,DES}}^1$	$0.005^{+0.037}_{-0.038}$	k_{D}	$0.14074^{+0.00075}_{-0.00075}$		
$\Delta z_{\mathrm{s,DES}}^2$	$-0.021^{+0.029}_{-0.029}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00045}_{-0.00044}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3041.41; R - 1 = 0.00879$$

6.166 base_mnu_plikHM_TTTEE_lowl_lowE_DESlens_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02246^{+0.00036}_{-0.00033}$	$\Delta z_{\mathrm{s,DES}}^4$	$-0.023^{+0.050}_{-0.050}$	$100\theta_{\mathrm{eq}}$	$0.8183^{+0.0096}_{-0.0093}$
$\Omega_{\mathrm{c}}h^2$	$0.1188^{+0.0022}_{-0.0022}$	H_0	$68.0^{+1.2}_{-1.4}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0049}_{-0.0048}$
$100\theta_{\mathrm{MC}}$	$1.04104^{+0.00075}_{-0.00073}$	Ω_{Λ}	$0.693^{+0.015}_{-0.018}$	$H(0.15)$	$73.3^{+1.1}_{-1.3}$
τ	$0.056^{+0.018}_{-0.014}$	Ω_{m}	$0.307^{+0.018}_{-0.015}$	$D_{\mathrm{M}}(0.15)$	638^{+12}_{-10}
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.173	$\Omega_{\mathrm{m}}h^2$	$0.1418^{+0.0023}_{-0.0022}$	$H(0.38)$	$83.29^{+0.81}_{-0.97}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.038}_{-0.029}$	$\Omega_{\nu}h^2$	< 0.00186	$D_{\mathrm{M}}(0.38)$	1522^{+25}_{-21}
n_{s}	$0.9678^{+0.0091}_{-0.0090}$	$\Omega_{\mathrm{m}}h^3$	$0.09647^{+0.00088}_{-0.0010}$	$H(0.51)$	$89.96^{+0.67}_{-0.82}$
y_{cal}	$1.0005^{+0.0060}_{-0.0064}$	σ_8	$0.812^{+0.019}_{-0.030}$	$D_{\mathrm{M}}(0.51)$	1972^{+30}_{-25}
A_{217}^{CIB}	47^{+20}_{-20}	S_8	$0.820^{+0.025}_{-0.026}$	$H(0.61)$	$95.55^{+0.57}_{-0.71}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.014}_{-0.014}$	$D_{\mathrm{M}}(0.61)$	2296^{+33}_{-27}
A_{143}^{tSZ}	> 0.899	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.015}_{-0.019}$	$H(2.33)$	$235.8^{+1.4}_{-1.4}$
A_{100}^{PS}	257^{+70}_{-70}	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5752^{+35}_{-27}
A_{143}^{PS}	45^{+20}_{-20}	$r_{\mathrm{drag}}h$	$100.2^{+2.0}_{-2.2}$	$f\sigma_8(0.15)$	$0.454^{+0.013}_{-0.013}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.048}_{-0.048}$	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.029}$
A_{217}^{PS}	115^{+30}_{-30}	z_{re}	< 9.44	$f\sigma_8(0.38)$	$0.474^{+0.011}_{-0.013}$
A^{kSZ}	—	$10^9 A_{\mathrm{s}}$	$2.101^{+0.080}_{-0.059}$	$\sigma_8(0.38)$	$0.666^{+0.016}_{-0.026}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.8}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.025}_{-0.027}$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.4}$	D_{40}	1226^{+29}_{-28}	$\sigma_8(0.51)$	$0.623^{+0.016}_{-0.025}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.4}_{-8.5}$	D_{220}	5740^{+98}_{-100}	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.013}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	D_{810}	2538^{+32}_{-35}	$\sigma_8(0.61)$	$0.593^{+0.015}_{-0.024}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.094}$	D_{1420}	818^{+12}_{-12}	$f\sigma_8(2.33)$	$0.2991^{+0.0072}_{-0.011}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.075}_{-0.074}$	D_{2000}	$231.2^{+4.0}_{-4.1}$	$\sigma_8(2.33)$	$0.3086^{+0.0081}_{-0.013}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$n_{\mathrm{s},0.002}$	$0.9678^{+0.0091}_{-0.0090}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	Y_{P}	$0.24543^{+0.00014}_{-0.00013}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00014}_{-0.00013}$	f_{2000}^{217}	$106.7^{+4.5}_{-4.3}$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.71}_{-0.69}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.569^{+0.062}_{-0.064}$	$\chi_{\mathrm{lensing}}^2$	$9.21 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.771^{+0.081}_{-0.063}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	z_{*}	$1089.70^{+0.51}_{-0.55}$	χ_{lowl}^2	$23.04 (\nu: 0.3)$
m_{DES}^1	$0.014^{+0.060}_{-0.058}$	r_{*}	$144.67^{+0.53}_{-0.53}$	χ_{plik}^2	$2360.0 (\nu: 16.3)$
m_{DES}^2	$0.011^{+0.056}_{-0.058}$	$100\theta_{*}$	$1.04121^{+0.00074}_{-0.00073}$	$\chi_{6\mathrm{DF}}^2$	$0.030 (\nu: 0.0)$
m_{DES}^3	$-0.008^{+0.052}_{-0.051}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.895^{+0.051}_{-0.051}$	χ_{MGS}^2	$1.59 (\nu: 0.1)$
m_{DES}^4	$0.011^{+0.056}_{-0.055}$	z_{drag}	$1060.06^{+0.75}_{-0.74}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 (\nu: 0.5)$
$A_{\mathrm{IA,DES}}$	$1.3^{+1.3}_{-1.1}$	r_{drag}	$147.31^{+0.57}_{-0.57}$	χ_{DES}^2	$232.0 (\nu: 3.1)$
$\alpha_{\mathrm{IA,DES}}$	—	k_{D}	$0.14071^{+0.00072}_{-0.00073}$	χ_{prior}^2	$19.4 (\nu: 18.0)$
$\Delta z_{\mathrm{s,DES}}^1$	$0.004^{+0.037}_{-0.037}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00045}_{-0.00044}$	χ_{CMB}^2	$2789.3 (\nu: 17.1)$
$\Delta z_{\mathrm{s,DES}}^2$	$-0.021^{+0.029}_{-0.029}$	z_{eq}	3376^{+50}_{-51}	χ_{BAO}^2	$5.74 (\nu: 0.3)$
$\Delta z_{\mathrm{s,DES}}^3$	$0.004^{+0.027}_{-0.025}$	k_{eq}	$0.01030^{+0.00015}_{-0.00015}$		

 $\bar{\chi}_{\mathrm{eff}}^2 = 3046.43; R - 1 = 0.00976$

6.167 base_mnu_BAO_Cooke17

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02217	$0.0222^{+0.0014}_{-0.0012}$	Age/Gyr	12.18	$12.7^{+4.1}_{-2.7}$	$D_{\text{M}}(0.15)$	594	620^{+100}_{-90}
$\Omega_{\text{c}}h^2$	0.175	$0.14^{+0.16}_{-0.12}$	z_*	1094.7	$1093.2^{+9.9}_{-9.6}$	$H(0.38)$	92.1	89^{+20}_{-20}
$100\theta_{\text{MC}}$	1.102	$1.107^{+0.086}_{-0.13}$	r_*	132.3	138^{+30}_{-20}	$D_{\text{M}}(0.38)$	1403	1462^{+300}_{-200}
Σm_{ν} [eV]	0.06	—	$100\theta_*$	1.102	$1.108^{+0.086}_{-0.13}$	$H(0.51)$	100.5	97^{+20}_{-20}
H_0	72.4	70^{+10}_{-10}	$D_{\text{M}}(z_*)/\text{Gpc}$	12.00	$12.5^{+5.0}_{-2.9}$	$D_{\text{M}}(0.51)$	1808	1884^{+400}_{-300}
Ω_{Λ}	0.622	$0.61^{+0.15}_{-0.13}$	z_{drag}	1063.1	$1062.1^{+8.2}_{-8.2}$	$H(0.61)$	107.4	104^{+30}_{-20}
Ω_{m}	0.378	$0.39^{+0.13}_{-0.15}$	r_{drag}	134.8	140^{+30}_{-20}	$D_{\text{M}}(0.61)$	2097	2184^{+500}_{-400}
$\Omega_{\text{m}}h^2$	0.198	$0.19^{+0.14}_{-0.11}$	k_{D}	0.1546	$0.150^{+0.030}_{-0.032}$	$H(2.33)$	277	270^{+80}_{-80}
$\Omega_{\nu}h^2$	0.0007	< 0.0533	$100\theta_{\text{D}}$	0.1693	$0.170^{+0.013}_{-0.017}$	$D_{\text{M}}(2.33)$	5093	5299^{+2000}_{-1000}
$\Omega_{\text{m}}h^3$	0.144	$0.135^{+0.13}_{-0.084}$	z_{eq}	4724	3943^{+4000}_{-3000}	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.0)$
$r_{\text{drag}}h$	97.6	$97.3^{+6.2}_{-5.1}$	k_{eq}	0.0144	$0.0122^{+0.011}_{-0.0082}$	$\chi^2_{6\text{DF}}$	0.23	$0.41 (\nu: 0.1)$
Y_{P}	0.24531	$0.24533^{+0.00057}_{-0.00052}$	$100\theta_{\text{eq}}$	0.68	$0.84^{+0.82}_{-0.37}$	χ^2_{MGS}	0.63	$0.74 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.24664	$0.24665^{+0.00057}_{-0.00052}$	$100\theta_{\text{s,eq}}$	0.379	$0.46^{+0.40}_{-0.20}$	χ^2_{DR12BAO}	2.13	$3.9 (\nu: 1.6)$
$10^5\text{D}/\text{H}$	2.623	$2.61^{+0.24}_{-0.24}$	$H(0.15)$	79.2	76^{+10}_{-10}	χ^2_{BAO}	3.0	$5.1 (\nu: 2.0)$

Best-fit $\chi^2_{\text{eff}} = 2.98$; $\bar{\chi}^2_{\text{eff}} = 6.05$; $R - 1 = 0.01904$

χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.23 MGS: 0.62 DR12BAO: 2.13

6.168 base_mnu_BAO_Cooke17_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02218	$0.0222^{+0.0014}_{-0.0012}$	z_*	1089.93	$1088.4^{+5.1}_{-3.7}$	$D_{\text{M}}(0.38)$	1526	1593^{+150}_{-160}
$\Omega_{\text{c}}h^2$	0.117	$0.084^{+0.066}_{-0.056}$	r_*	145.3	152^{+14}_{-15}	$H(0.51)$	89.9	86^{+10}_{-9}
$100\theta_{\text{MC}}$	1.048	$1.050^{+0.051}_{-0.050}$	$100\theta_*$	1.048	$1.051^{+0.051}_{-0.050}$	$D_{\text{M}}(0.51)$	1976	2064^{+200}_{-210}
Σm_{ν} [eV]	0.38	—	$D_{\text{M}}(z_*)/\text{Gpc}$	13.87	$14.5^{+2.0}_{-1.9}$	$H(0.61)$	95.6	92^{+10}_{-10}
H_0	67.8	$65.0^{+6.6}_{-5.1}$	z_{drag}	1059.32	$1058.2^{+4.8}_{-4.4}$	$D_{\text{M}}(0.61)$	2300	2401^{+240}_{-250}
Ω_{Λ}	0.688	$0.686^{+0.050}_{-0.054}$	r_{drag}	148.1	155^{+15}_{-15}	$H(2.33)$	236.7	228^{+40}_{-30}
Ω_{m}	0.312	$0.314^{+0.054}_{-0.050}$	k_{D}	0.1397	$0.134^{+0.015}_{-0.012}$	$D_{\text{M}}(2.33)$	5748	5997^{+700}_{-700}
$\Omega_{\text{m}}h^2$	0.1431	$0.133^{+0.048}_{-0.034}$	$100\theta_{\text{D}}$	0.1621	$0.1619^{+0.0070}_{-0.0063}$	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\nu}h^2$	0.0041	< 0.0532	z_{eq}	3321	2534^{+2000}_{-1000}	χ^2_{JLA}	1035.06	$1036.0 (\nu: 1.5)$
$\Omega_{\text{m}}h^3$	0.0969	$0.087^{+0.038}_{-0.030}$	k_{eq}	0.01014	$0.0079^{+0.0046}_{-0.0037}$	$\chi^2_{6\text{DF}}$	0.000	$0.052 (\nu: 0.0)$
$r_{\text{drag}}h$	100.34	$100.3^{+3.2}_{-3.1}$	$100\theta_{\text{eq}}$	0.83	$1.09^{+0.69}_{-0.40}$	χ^2_{MGS}	1.68	$1.75 (\nu: 0.2)$
Y_{P}	0.24532	$0.24533^{+0.00057}_{-0.00053}$	$100\theta_{\text{s,eq}}$	0.460	$0.59^{+0.33}_{-0.20}$	χ^2_{DR12BAO}	3.03	$4.0 (\nu: 1.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.24664	$0.24665^{+0.00058}_{-0.00053}$	$H(0.15)$	73.1	$70.1^{+7.6}_{-6.0}$	χ^2_{BAO}	4.71	$5.8 (\nu: 1.6)$
$10^5\text{D}/\text{H}$	2.622	$2.61^{+0.25}_{-0.24}$	$D_{\text{M}}(0.15)$	640	668^{+59}_{-65}			
Age/Gyr	13.76	$14.4^{+1.7}_{-1.7}$	$H(0.38)$	83.2	80^{+10}_{-8}			

Best-fit $\chi^2_{\text{eff}} = 1039.77$; $\bar{\chi}^2_{\text{eff}} = 1042.80$; $R - 1 = 0.00676$

χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.03 SN - JLA Pantheon18: 1035.06

6.169 base_mnu_BAO_Cooke17_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02219	$0.0223^{+0.0013}_{-0.0012}$	z_*	1089.37	$1087.8^{+2.8}_{-2.3}$	$D_{\text{M}}(0.38)$	1544	1611^{+83}_{-100}
$\Omega_{\text{c}}h^2$	0.1104	$0.078^{+0.041}_{-0.038}$	r_*	147.0	$153.5^{+7.2}_{-8.9}$	$H(0.51)$	88.63	$85.0^{+5.3}_{-4.0}$
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0017}_{-0.0015}$	$100\theta_*$	1.04134	$1.0417^{+0.0017}_{-0.0017}$	$D_{\text{M}}(0.51)$	2002	2088^{+110}_{-130}
Σm_ν [eV]	0.46	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.12	$14.73^{+0.70}_{-0.84}$	$H(0.61)$	94.13	$90.3^{+5.5}_{-4.2}$
H_0	67.05	$64.3^{+4.5}_{-3.4}$	z_{drag}	1058.90	$1057.8^{+3.7}_{-3.4}$	$D_{\text{M}}(0.61)$	2330	2431^{+120}_{-150}
Ω_Λ	0.6941	$0.694^{+0.021}_{-0.021}$	r_{drag}	149.8	$156.4^{+7.5}_{-9.2}$	$H(2.33)$	232.2	223^{+13}_{-11}
Ω_{m}	0.3059	$0.306^{+0.021}_{-0.021}$	k_{D}	0.1380	$0.1327^{+0.0083}_{-0.0062}$	$D_{\text{M}}(2.33)$	5838	6092^{+280}_{-350}
$\Omega_{\text{m}}h^2$	0.1375	$0.127^{+0.016}_{-0.012}$	$100\theta_{\text{D}}$	0.16125	$0.1608^{+0.0020}_{-0.0021}$	χ^2_{Cooke17}	0.00	$0.99\ (\nu: 1.0)$
$\Omega_\nu h^2$	0.0050	< 0.0531	z_{eq}	3168	2397^{+1000}_{-900}	χ^2_{JLA}	1034.83	$1034.96\ (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0922	$0.082^{+0.015}_{-0.011}$	k_{eq}	0.00967	$0.0075^{+0.0029}_{-0.0025}$	$\chi^2_{6\text{DF}}$	0.000	$0.048\ (\nu: 0.0)$
$r_{\text{drag}}h$	100.43	$100.5^{+2.9}_{-2.6}$	$100\theta_{\text{eq}}$	0.858	$1.12^{+0.46}_{-0.32}$	χ^2_{MGS}	1.68	$1.80\ (\nu: 0.2)$
Y_{P}	0.24532	$0.24534^{+0.00057}_{-0.00052}$	$100\theta_{\text{s,eq}}$	0.473	$0.61^{+0.23}_{-0.16}$	χ^2_{DR12BAO}	3.42	$4.1\ (\nu: 0.7)$
$Y_{\text{P}}^{\text{BBN}}$	0.24665	$0.24667^{+0.00057}_{-0.00052}$	$H(0.15)$	72.20	$69.3^{+4.6}_{-3.5}$	χ^2_{prior}	0.00	$1.1\ (\nu: 1.2)$
$10^5\text{D}/\text{H}$	2.619	$2.61^{+0.24}_{-0.24}$	$D_{\text{M}}(0.15)$	647.0	675^{+36}_{-44}	χ^2_{BAO}	5.09	$6.0\ (\nu: 0.8)$
Age/Gyr	13.98	$14.59^{+0.69}_{-0.86}$	$H(0.38)$	82.07	$78.7^{+4.9}_{-3.7}$			

Best-fit $\chi^2_{\text{eff}} = 1039.93$; $\bar{\chi}^2_{\text{eff}} = 1042.99$; $R - 1 = 0.01446$
 χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.42 SN - JLA Pantheon18: 1034.83

6.170 base_mnu_BAO_Cooke17_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02219	$0.0222^{+0.0014}_{-0.0012}$	z_*	1089.18	$1087.8^{+3.1}_{-2.3}$	$D_{\text{M}}(0.38)$	1553	1616^{+80}_{-100}
$\Omega_{\text{c}}h^2$	0.1075	$0.077^{+0.047}_{-0.042}$	r_*	147.7	$153.8^{+7.4}_{-9.5}$	$H(0.51)$	88.18	$84.8^{+5.4}_{-4.0}$
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0015}_{-0.0015}$	$100\theta_*$	1.04139	$1.0417^{+0.0016}_{-0.0016}$	$D_{\text{M}}(0.51)$	2013	2095^{+100}_{-130}
Σm_ν [eV]	0.62	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.18	$14.76^{+0.71}_{-0.91}$	$H(0.61)$	93.66	$90.1^{+5.7}_{-4.2}$
H_0	66.66	$64.1^{+4.5}_{-3.4}$	z_{drag}	1058.71	$1057.6^{+3.9}_{-3.5}$	$D_{\text{M}}(0.61)$	2343	2438^{+120}_{-150}
Ω_Λ	0.6931	$0.693^{+0.022}_{-0.023}$	r_{drag}	150.5	$156.7^{+7.7}_{-9.9}$	$H(2.33)$	231.2	222^{+14}_{-11}
Ω_{m}	0.3069	$0.307^{+0.023}_{-0.022}$	k_{D}	0.1373	$0.1324^{+0.0090}_{-0.0060}$	$D_{\text{M}}(2.33)$	5868	6107^{+290}_{-370}
$\Omega_{\text{m}}h^2$	0.1363	$0.126^{+0.017}_{-0.012}$	$100\theta_{\text{D}}$	0.16128	$0.1608^{+0.0020}_{-0.0021}$	χ^2_{Cooke17}	0.00	$1.0\ (\nu: 1.1)$
$\Omega_\nu h^2$	0.0067	< 0.0532	z_{eq}	3099	2363^{+1000}_{-1000}	$\chi^2_{6\text{DF}}$	0.001	$0.055\ (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0909	$0.081^{+0.016}_{-0.011}$	k_{eq}	0.00947	$0.0074^{+0.0031}_{-0.0026}$	χ^2_{MGS}	1.61	$1.72\ (\nu: 0.2)$
$r_{\text{drag}}h$	100.31	$100.4^{+3.0}_{-2.9}$	$100\theta_{\text{eq}}$	0.873	$1.13^{+0.46}_{-0.36}$	χ^2_{DR12BAO}	3.47	$4.3\ (\nu: 0.9)$
Y_{P}	0.24532	$0.24532^{+0.00058}_{-0.00051}$	$100\theta_{\text{s,eq}}$	0.481	$0.61^{+0.23}_{-0.18}$	χ^2_{prior}	0.00	$0.99\ (\nu: 0.9)$
$Y_{\text{P}}^{\text{BBN}}$	0.24665	$0.24665^{+0.00058}_{-0.00051}$	$H(0.15)$	71.79	$69.0^{+4.6}_{-3.5}$	χ^2_{BAO}	5.08	$6.1\ (\nu: 0.9)$
$10^5\text{D}/\text{H}$	2.620	$2.62^{+0.24}_{-0.24}$	$D_{\text{M}}(0.15)$	650.7	677^{+35}_{-44}			
Age/Gyr	14.05	$14.62^{+0.69}_{-0.89}$	$H(0.38)$	81.63	$78.5^{+5.1}_{-3.7}$			

Best-fit $\chi^2_{\text{eff}} = 5.08$; $\bar{\chi}^2_{\text{eff}} = 8.05$; $R - 1 = 0.07129$
 χ^2_{eff} : Abund - D.Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.47

7 nnu

7.1 base_nnu_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02202	$0.02207^{+0.00078}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4621	$0.460^{+0.035}_{-0.034}$	$100\theta_{s,eq}$	0.4460	$0.448^{+0.016}_{-0.015}$
$\Omega_c h^2$	0.1188	$0.120^{+0.010}_{-0.0099}$	$\sigma_8 \Omega_m^{0.25}$	0.6108	$0.610^{+0.030}_{-0.030}$	$H(0.15)$	71.1	$71.9^{+6.0}_{-5.5}$
$100\theta_{MC}$	1.04093	$1.0409^{+0.0015}_{-0.0015}$	$\sigma_8/h^{0.5}$	0.9958	$0.993^{+0.041}_{-0.043}$	$D_M(0.15)$	658	652^{+56}_{-53}
τ	0.0519	$0.051^{+0.022}_{-0.021}$	$r_{drag}h$	97.6	$98.2^{+5.8}_{-5.3}$	$H(0.38)$	81.4	$82.2^{+5.7}_{-5.3}$
N_{eff}	2.90	$3.00^{+0.74}_{-0.69}$	$\langle d^2 \rangle^{1/2}$	2.467	$2.46^{+0.12}_{-0.12}$	$D_M(0.38)$	1566	1551^{+120}_{-120}
$\ln(10^{10} A_s)$	3.035	$3.037^{+0.052}_{-0.054}$	z_{re}	7.47	$7.4^{+2.2}_{-2.4}$	$H(0.51)$	88.2	$89.0^{+5.7}_{-5.2}$
n_s	0.9575	$0.961^{+0.034}_{-0.033}$	$10^9 A_s$	2.081	$2.08^{+0.11}_{-0.11}$	$D_M(0.51)$	2026	2007^{+150}_{-150}
y_{cal}	1.0005	$1.0005^{+0.0065}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	1.876	$1.881^{+0.056}_{-0.059}$	$H(0.61)$	93.9	$94.7^{+5.7}_{-5.2}$
A_{217}^{CIB}	46.8	48^{+20}_{-20}	D_{40}	1240	1237^{+56}_{-55}	$D_M(0.61)$	2356	2334^{+170}_{-170}
$\xi^{tSZ \times CIB}$	0.55	—	D_{220}	5710	5713^{+110}_{-100}	$H(2.33)$	235.0	$236.1^{+9.3}_{-9.1}$
A_{143}^{tSZ}	7.0	—	D_{810}	2536.8	2536^{+37}_{-36}	$D_M(2.33)$	5844	5801^{+320}_{-320}
A_{100}^{PS}	250	262^{+70}_{-70}	D_{1420}	816.5	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4653	$0.464^{+0.031}_{-0.032}$
A_{143}^{PS}	50.6	49^{+20}_{-20}	D_{2000}	230.9	$229.9^{+5.8}_{-5.7}$	$\sigma_8(0.15)$	0.7445	$0.747^{+0.033}_{-0.032}$
$A_{143 \times 217}^{PS}$	51.5	44^{+20}_{-20}	$n_{s,0.002}$	0.9575	$0.961^{+0.034}_{-0.033}$	$f\sigma_8(0.38)$	0.4800	$0.479^{+0.024}_{-0.025}$
A_{217}^{PS}	121.2	115^{+30}_{-30}	Y_P	0.2432	$0.2446^{+0.0098}_{-0.0099}$	$\sigma_8(0.38)$	0.6582	$0.661^{+0.031}_{-0.030}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.2445	$0.2459^{+0.0098}_{-0.010}$	$f\sigma_8(0.51)$	0.4767	$0.477^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.77	$8.9^{+4.7}_{-4.6}$	$10^5 D/H$	2.599	$2.62^{+0.18}_{-0.17}$	$\sigma_8(0.51)$	0.6153	$0.618^{+0.031}_{-0.029}$
A_{143}^{dustTT}	10.74	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.99	$13.89^{+0.77}_{-0.75}$	$f\sigma_8(0.61)$	0.4705	$0.471^{+0.020}_{-0.020}$
$A_{143 \times 217}^{dustTT}$	19.7	$18.2^{+8.4}_{-8.6}$	z_*	1090.11	$1090.2^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.5850	$0.588^{+0.030}_{-0.028}$
A_{217}^{dustTT}	95.2	93^{+20}_{-20}	r_*	145.8	$144.9^{+6.6}_{-6.3}$	$f\sigma_8(2.33)$	0.2944	$0.296^{+0.016}_{-0.015}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04126	$1.0411^{+0.0019}_{-0.0018}$	$\sigma_8(2.33)$	0.3028	$0.305^{+0.018}_{-0.017}$
c_{217}	0.99824	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.00	$13.92^{+0.61}_{-0.59}$	f_{2000}^{143}	29.2	31^{+9}_{-9}
H_0	65.7	$66.5^{+6.2}_{-5.7}$	z_{drag}	1058.94	$1059.2^{+2.8}_{-2.8}$	$f_{2000}^{143 \times 217}$	32.4	33^{+7}_{-7}
Ω_Λ	0.6725	$0.677^{+0.045}_{-0.049}$	r_{drag}	148.6	$147.7^{+6.9}_{-6.5}$	f_{2000}^{217}	106.9	$107.9^{+6.1}_{-5.9}$
Ω_m	0.3275	$0.323^{+0.049}_{-0.045}$	k_D	0.13965	$0.1402^{+0.0048}_{-0.0047}$	χ_{simall}^2	395.85	$396.9 (\nu: 1.2)$
$\Omega_m h^2$	0.1415	$0.143^{+0.011}_{-0.010}$	$100\theta_D$	0.16071	$0.1610^{+0.0017}_{-0.0017}$	χ_{lowl}^2	24.5	$24.4 (\nu: 2.5)$
$\Omega_m h^3$	0.0930	$0.095^{+0.015}_{-0.013}$	z_{eq}	3436	3419^{+170}_{-160}	χ_{plik}^2	757.7	$771.7 (\nu: 17.1)$
σ_8	0.8074	$0.810^{+0.035}_{-0.034}$	k_{eq}	0.010379	$0.01040^{+0.00041}_{-0.00040}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.5)$
S_8	0.844	$0.840^{+0.064}_{-0.062}$	$100\theta_{eq}$	0.8063	$0.810^{+0.032}_{-0.030}$	χ_{CMB}^2	1178.0	$1192.9 (\nu: 15.6)$

Best-fit $\chi_{eff}^2 = 1179.27$; $\bar{\chi}_{eff}^2 = 1200.18$; $R - 1 = 0.00449$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3.2_29: 24.50 plik_rd12_HM_v22_TT: 757.66

7.2 base_nnu_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02201	$0.02206^{+0.00074}_{-0.00078}$	$\sigma_8 \Omega_m^{0.25}$	0.6060	$0.607^{+0.021}_{-0.021}$	$D_M(0.15)$	661	653^{+53}_{-50}
$\Omega_c h^2$	0.1175	$0.119^{+0.011}_{-0.0095}$	$\sigma_8/h^{0.5}$	0.9906	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	81.1	$81.9^{+5.4}_{-5.1}$
$100\theta_{MC}$	1.04110	$1.0410^{+0.0015}_{-0.0014}$	$r_{drag}h$	97.78	$98.3^{+4.6}_{-4.3}$	$D_M(0.38)$	1572	1555^{+120}_{-110}
τ	0.0503	$0.051^{+0.022}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.459	$2.454^{+0.080}_{-0.081}$	$H(0.51)$	87.8	$88.7^{+5.4}_{-5.2}$
N_{eff}	2.83	$2.95^{+0.73}_{-0.69}$	z_{re}	7.28	$7.4^{+2.1}_{-2.3}$	$D_M(0.51)$	2034	2013^{+150}_{-140}
$\ln(10^{10} A_s)$	3.028	$3.034^{+0.051}_{-0.052}$	$10^9 A_s$	2.066	$2.08^{+0.11}_{-0.11}$	$H(0.61)$	93.5	$94.3^{+5.4}_{-5.3}$
n_s	0.9559	$0.959^{+0.031}_{-0.030}$	$10^9 A_s e^{-2\tau}$	1.868	$1.876^{+0.055}_{-0.060}$	$D_M(0.61)$	2365	2341^{+170}_{-160}
y_{cal}	1.0003	$1.0005^{+0.0066}_{-0.0064}$	D_{40}	1240.1	1237^{+48}_{-48}	$H(2.33)$	233.8	$235.2^{+9.5}_{-9.2}$
A_{217}^{CIB}	46.8	47^{+20}_{-20}	D_{220}	5712	5715^{+110}_{-100}	$D_M(2.33)$	5869	5821^{+330}_{-300}
$\xi^{tSZ \times CIB}$	0.53	—	D_{810}	2534.5	2535^{+37}_{-37}	$f\sigma_8(0.15)$	0.4615	$0.461^{+0.021}_{-0.021}$
A_{143}^{tSZ}	7.0	—	D_{1420}	816.7	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7393	$0.744^{+0.033}_{-0.032}$
A_{100}^{PS}	248	261^{+70}_{-70}	D_{2000}	231.2	$230.1^{+5.8}_{-5.7}$	$f\sigma_8(0.38)$	0.4762	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	49.2	48^{+20}_{-20}	$n_{s,0.002}$	0.9559	$0.959^{+0.031}_{-0.030}$	$\sigma_8(0.38)$	0.6538	$0.658^{+0.031}_{-0.031}$
$A_{143 \times 217}^{PS}$	50.2	43^{+20}_{-20}	Y_P	0.2423	$0.2439^{+0.0097}_{-0.010}$	$f\sigma_8(0.51)$	0.4731	$0.474^{+0.016}_{-0.016}$
A_{217}^{PS}	120.4	115^{+30}_{-30}	Y_P^{BBN}	0.2436	$0.2452^{+0.0097}_{-0.010}$	$\sigma_8(0.51)$	0.6112	$0.616^{+0.030}_{-0.030}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.578	$2.61^{+0.18}_{-0.17}$	$f\sigma_8(0.61)$	0.4670	$0.469^{+0.016}_{-0.016}$
A_{100}^{dustTT}	8.82	$9.0^{+4.8}_{-4.6}$	Age/Gyr	14.05	$13.93^{+0.77}_{-0.72}$	$\sigma_8(0.61)$	0.5812	$0.585^{+0.030}_{-0.029}$
A_{143}^{dustTT}	10.70	$10.7^{+4.5}_{-4.7}$	z_*	1089.93	$1090.1^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.2925	$0.295^{+0.016}_{-0.016}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.2^{+8.4}_{-8.6}$	r_*	146.5	$145.5^{+6.8}_{-6.3}$	$\sigma_8(2.33)$	0.3009	$0.303^{+0.018}_{-0.018}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$100\theta_*$	1.04145	$1.0412^{+0.0019}_{-0.0018}$	f_{2000}^{143}	28.7	30^{+9}_{-9}
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.06	$13.97^{+0.61}_{-0.59}$	$f_{2000}^{143 \times 217}$	32.0	33^{+6}_{-6}
c_{217}	0.99821	$0.9982^{+0.0015}_{-0.0016}$	z_{drag}	1058.75	$1059.1^{+2.7}_{-2.8}$	f_{2000}^{217}	106.5	$107.6^{+6.2}_{-5.8}$
H_0	65.5	$66.3^{+5.7}_{-5.3}$	r_{drag}	149.3	$148.3^{+7.0}_{-6.6}$	$\chi^2_{lensing}$	8.61	$9.37 (\nu: 0.5)$
Ω_Λ	0.6734	$0.678^{+0.037}_{-0.039}$	k_D	0.13915	$0.1398^{+0.0048}_{-0.0048}$	χ^2_{small}	395.69	$396.8 (\nu: 1.1)$
Ω_m	0.3266	$0.322^{+0.039}_{-0.037}$	$100\theta_D$	0.16054	$0.1608^{+0.0017}_{-0.0016}$	χ^2_{lowl}	24.61	$24.4 (\nu: 1.8)$
$\Omega_m h^2$	0.1401	$0.142^{+0.011}_{-0.010}$	z_{eq}	3432	3416^{+130}_{-130}	χ^2_{plik}	757.8	$771.1 (\nu: 15.2)$
$\Omega_m h^3$	0.0918	$0.094^{+0.015}_{-0.013}$	k_{eq}	0.010323	$0.01035^{+0.00035}_{-0.00034}$	χ^2_{prior}	1.3	$7.3 (\nu: 6.6)$
σ_8	0.8017	$0.806^{+0.034}_{-0.033}$	$100\theta_{eq}$	0.8070	$0.810^{+0.026}_{-0.023}$	χ^2_{CMB}	1186.7	$1201.7 (\nu: 15.8)$
S_8	0.8365	$0.835^{+0.042}_{-0.041}$	$100\theta_{s,eq}$	0.4464	$0.448^{+0.013}_{-0.012}$			
$\sigma_8 \Omega_m^{0.5}$	0.4582	$0.458^{+0.023}_{-0.023}$	$H(0.15)$	70.9	$71.7^{+5.6}_{-5.2}$			

Best-fit $\chi^2_{eff} = 1188.03$; $\bar{\chi}^2_{eff} = 1208.98$; $R - 1 = 0.00963$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 8.62 small_100x143_offlike5_EE_Aplanck_B: 395.69 commander_dx12_v3.2.29: 24.61 plik_rd12_HM_v22_TT: 757.83

7.3 base_nnu_plikHM_TT_lowl_lowE_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02202	$0.02205^{+0.00067}_{-0.00068}$	$\sigma_8 \Omega_m^{0.5}$	0.4611	$0.461^{+0.035}_{-0.034}$	$100\theta_{s,eq}$	0.4464	$0.447^{+0.014}_{-0.013}$
$\Omega_c h^2$	0.1189	$0.1196^{+0.0077}_{-0.0073}$	$\sigma_8 \Omega_m^{0.25}$	0.6101	$0.610^{+0.029}_{-0.030}$	$H(0.15)$	71.24	$71.6^{+4.4}_{-4.1}$
$100\theta_{MC}$	1.04095	$1.0409^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	0.9947	$0.994^{+0.041}_{-0.043}$	$D_M(0.15)$	657.2	654^{+42}_{-41}
τ	0.0518	$0.051^{+0.022}_{-0.021}$	$r_{drag} h$	97.79	$98.0^{+5.0}_{-4.7}$	$H(0.38)$	81.50	$81.9^{+4.1}_{-3.8}$
N_{eff}	2.908	$2.96^{+0.49}_{-0.46}$	$\langle d^2 \rangle^{1/2}$	2.464	$2.46^{+0.10}_{-0.11}$	$D_M(0.38)$	1564	1557^{+90}_{-88}
$\ln(10^{10} A_s)$	3.0351	$3.035^{+0.047}_{-0.049}$	z_{re}	7.47	$7.4^{+2.1}_{-2.4}$	$H(0.51)$	88.30	$88.7^{+4.0}_{-3.7}$
n_s	0.9580	$0.959^{+0.026}_{-0.025}$	$10^9 A_s$	2.080	$2.08^{+0.10}_{-0.10}$	$D_M(0.51)$	2023	2015^{+110}_{-110}
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8756	$1.879^{+0.046}_{-0.047}$	$H(0.61)$	93.98	$94.4^{+3.9}_{-3.6}$
A_{217}^{CIB}	48.1	47^{+20}_{-20}	D_{40}	1238.6	1239^{+49}_{-47}	$D_M(0.61)$	2352	2342^{+120}_{-120}
$\xi^{tSZ \times CIB}$	0.38	—	D_{220}	5708	5713^{+110}_{-100}	$H(2.33)$	235.0	$235.7^{+6.6}_{-6.3}$
A_{143}^{tSZ}	7.0	—	D_{810}	2535.6	2536^{+36}_{-35}	$D_M(2.33)$	5838	5817^{+220}_{-220}
A_{100}^{PS}	252	261^{+70}_{-70}	D_{1420}	815.9	815^{+13}_{-13}	$f\sigma_8(0.15)$	0.4645	$0.464^{+0.031}_{-0.032}$
A_{143}^{PS}	48.6	48^{+20}_{-20}	D_{2000}	230.61	$230.0^{+4.9}_{-4.9}$	$\sigma_8(0.15)$	0.7444	$0.746^{+0.026}_{-0.026}$
$A_{143 \times 217}^{PS}$	47.2	44^{+20}_{-20}	$n_{s,0.002}$	0.9580	$0.959^{+0.026}_{-0.025}$	$f\sigma_8(0.38)$	0.4794	$0.479^{+0.024}_{-0.025}$
A_{217}^{PS}	119.1	115^{+20}_{-30}	Y_P	0.2434	$0.2440^{+0.0067}_{-0.0067}$	$\sigma_8(0.38)$	0.6583	$0.660^{+0.024}_{-0.024}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.2447	$0.2454^{+0.0067}_{-0.0067}$	$f\sigma_8(0.51)$	0.4763	$0.476^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.79	$9.0^{+4.7}_{-4.6}$	$10^5 D/H$	2.603	$2.62^{+0.13}_{-0.12}$	$\sigma_8(0.51)$	0.6154	$0.617^{+0.023}_{-0.023}$
A_{143}^{dustTT}	10.80	$10.7^{+4.6}_{-4.7}$	Age/Gyr	13.97	$13.92^{+0.53}_{-0.51}$	$f\sigma_8(0.61)$	0.4701	$0.470^{+0.019}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.5}_{-8.6}$	z_*	1090.13	$1090.2^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	0.5852	$0.586^{+0.022}_{-0.022}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	r_*	145.69	$145.3^{+4.4}_{-4.3}$	$f\sigma_8(2.33)$	0.2945	$0.295^{+0.012}_{-0.012}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04126	$1.0412^{+0.0014}_{-0.0015}$	$\sigma_8(2.33)$	0.3030	$0.304^{+0.013}_{-0.013}$
c_{217}	0.99825	$0.9982^{+0.0015}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.992	$13.95^{+0.41}_{-0.41}$	χ_{simall}^2	395.84	$396.8 (\nu: 1.2)$
H_0	65.86	$66.2^{+4.6}_{-4.3}$	z_{drag}	1058.94	$1059.1^{+2.1}_{-2.1}$	χ_{lowl}^2	24.40	$24.5 (\nu: 1.8)$
Ω_Λ	0.6736	$0.675^{+0.039}_{-0.042}$	r_{drag}	148.48	$148.0^{+4.6}_{-4.5}$	χ_{plik}^2	757.7	$770.9 (\nu: 15.0)$
Ω_m	0.3264	$0.325^{+0.042}_{-0.039}$	k_D	0.13967	$0.1400^{+0.0034}_{-0.0033}$	χ_{Aver15}^2	0.00	$0.44 (\nu: 0.2)$
$\Omega_m h^2$	0.1416	$0.1423^{+0.0079}_{-0.0075}$	$100\theta_D$	0.16076	$0.1609^{+0.0012}_{-0.0011}$	$\chi_{Cooke17}^2$	0.02	$0.27 (\nu: 0.1)$
$\Omega_m h^3$	0.0932	$0.0942^{+0.0099}_{-0.0089}$	z_{eq}	3431	3425^{+150}_{-140}	χ_{prior}^2	1.4	$7.2 (\nu: 6.5)$
σ_8	0.8072	$0.808^{+0.028}_{-0.028}$	k_{eq}	0.010374	$0.01039^{+0.00038}_{-0.00037}$	χ_{CMB}^2	1177.9	$1192.2 (\nu: 14.6)$
S_8	0.842	$0.841^{+0.063}_{-0.062}$	$100\theta_{eq}$	0.8072	$0.808^{+0.028}_{-0.026}$	χ_{Abund}^2	0.03	$0.71 (\nu: 0.4)$

Best-fit $\chi_{eff}^2 = 1179.31$; $\bar{\chi}_{eff}^2 = 1200.19$; $R - 1 = 0.00823$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.02 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.84 commander_dx12_v3_2_29: 24.40 plik_rd12_HM_v22_TT: 757.67

7.4 base_nnu_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02210^{+0.00077}_{-0.00078}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.035}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.016}_{-0.015}$
$\Omega_{\mathrm{c}} h^2$	$0.120^{+0.010}_{-0.0099}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.030}_{-0.029}$	$H(0.15)$	$72.1^{+5.9}_{-5.5}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0015}_{-0.0015}$	$\sigma_8/h^{0.5}$	$0.994^{+0.041}_{-0.042}$	$D_{\mathrm{M}}(0.15)$	650^{+56}_{-52}
τ	$0.053^{+0.018}_{-0.012}$	$r_{\mathrm{drag}} h$	$98.4^{+5.7}_{-5.3}$	$H(0.38)$	$82.3^{+5.7}_{-5.3}$
N_{eff}	$3.02^{+0.73}_{-0.69}$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.12}_{-0.11}$	$D_{\mathrm{M}}(0.38)$	1548^{+120}_{-120}
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.048}_{-0.042}$	z_{re}	< 9.37	$H(0.51)$	$89.1^{+5.6}_{-5.2}$
n_{s}	$0.962^{+0.033}_{-0.033}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.086}$	$D_{\mathrm{M}}(0.51)$	2003^{+150}_{-140}
y_{cal}	$1.0005^{+0.0065}_{-0.0063}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.056}_{-0.059}$	$H(0.61)$	$94.8^{+5.6}_{-5.3}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1235^{+56}_{-54}	$D_{\mathrm{M}}(0.61)$	2330^{+170}_{-160}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5713^{+110}_{-100}	$H(2.33)$	$236.3^{+9.3}_{-9.0}$
A_{143}^{tSZ}	—	D_{810}	2536^{+37}_{-35}	$D_{\mathrm{M}}(2.33)$	5793^{+320}_{-310}
A_{100}^{PS}	262^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.15)$	$0.464^{+0.032}_{-0.032}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.8^{+5.9}_{-5.6}$	$\sigma_8(0.15)$	$0.749^{+0.032}_{-0.031}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.962^{+0.033}_{-0.033}$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.024}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.2448^{+0.0096}_{-0.010}$	$\sigma_8(0.38)$	$0.663^{+0.030}_{-0.029}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2461^{+0.0097}_{-0.010}$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.021}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.6}_{-4.6}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.18}_{-0.17}$	$\sigma_8(0.51)$	$0.620^{+0.029}_{-0.028}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.87^{+0.77}_{-0.74}$	$f\sigma_8(0.61)$	$0.472^{+0.020}_{-0.020}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.3}_{-8.6}$	z_*	$1090.2^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	$0.589^{+0.029}_{-0.027}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	r_*	$144.8^{+6.6}_{-6.2}$	$f\sigma_8(2.33)$	$0.297^{+0.016}_{-0.015}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0411^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	$0.306^{+0.018}_{-0.016}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.91^{+0.61}_{-0.58}$	f_{2000}^{143}	31^{+9}_{-9}
H_0	$66.7^{+6.1}_{-5.6}$	z_{drag}	$1059.3^{+2.8}_{-2.7}$	$f_{2000}^{143 \times 217}$	33^{+7}_{-7}
Ω_{Λ}	$0.678^{+0.044}_{-0.048}$	r_{drag}	$147.6^{+6.8}_{-6.5}$	f_{2000}^{217}	$107.9^{+6.1}_{-6.0}$
Ω_{m}	$0.322^{+0.048}_{-0.044}$	k_{D}	$0.1403^{+0.0048}_{-0.0047}$	χ_{simall}^2	$396.7 (\nu: 1.2)$
$\Omega_{\mathrm{m}} h^2$	$0.143^{+0.011}_{-0.010}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0016}$	χ_{lowl}^2	$24.2 (\nu: 2.4)$
$\Omega_{\mathrm{m}} h^3$	$0.095^{+0.015}_{-0.013}$	z_{eq}	3415^{+160}_{-160}	χ_{plik}^2	$771.7 (\nu: 17.1)$
σ_8	$0.811^{+0.033}_{-0.033}$	k_{eq}	$0.01040^{+0.00041}_{-0.00040}$	χ_{prior}^2	$7.3 (\nu: 6.5)$
S_8	$0.840^{+0.065}_{-0.062}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.032}_{-0.030}$	χ_{CMB}^2	$1192.7 (\nu: 15.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1199.93; R - 1 = 0.00341$$

7.5 base_nnu_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02209^{+0.00074}_{-0.00075}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.15)$	651^{+54}_{-48}
$\Omega_{\mathrm{c}} h^2$	$0.119^{+0.011}_{-0.0095}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	$82.1^{+5.3}_{-5.3}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0015}_{-0.0014}$	$r_{\mathrm{drag}} h$	$98.5^{+4.5}_{-4.2}$	$D_{\mathrm{M}}(0.38)$	1551^{+120}_{-110}
τ	$0.053^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.080}_{-0.081}$	$H(0.51)$	$88.9^{+5.3}_{-5.3}$
N_{eff}	$2.97^{+0.72}_{-0.69}$	z_{re}	< 9.31	$D_{\mathrm{M}}(0.51)$	2008^{+150}_{-140}
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.047}_{-0.043}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.087}$	$H(0.61)$	$94.5^{+5.3}_{-5.3}$
n_{s}	$0.961^{+0.031}_{-0.031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.054}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2335^{+170}_{-150}
y_{cal}	$1.0004^{+0.0066}_{-0.0064}$	D_{40}	1236^{+49}_{-47}	$H(2.33)$	$235.4^{+9.4}_{-9.1}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5716^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5811^{+330}_{-300}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2535^{+37}_{-37}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
A_{143}^{tSZ}	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.15)$	$0.746^{+0.032}_{-0.031}$
A_{100}^{PS}	261^{+70}_{-70}	D_{2000}	$230.1^{+5.9}_{-5.6}$	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.961^{+0.031}_{-0.031}$	$\sigma_8(0.38)$	$0.660^{+0.031}_{-0.030}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.2442^{+0.0095}_{-0.0099}$	$f\sigma_8(0.51)$	$0.475^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2455^{+0.0096}_{-0.0099}$	$\sigma_8(0.51)$	$0.617^{+0.030}_{-0.030}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.18}_{-0.17}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.016}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.8}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.91^{+0.78}_{-0.71}$	$\sigma_8(0.61)$	$0.587^{+0.029}_{-0.029}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-4.6}$	z_*	$1090.1^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	$0.296^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.2^{+8.2}_{-8.6}$	r_*	$145.3^{+6.6}_{-6.3}$	$\sigma_8(2.33)$	$0.305^{+0.018}_{-0.017}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0019}_{-0.0017}$	f_{2000}^{143}	31^{+9}_{-9}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.61}_{-0.58}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-7}
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	z_{drag}	$1059.2^{+2.7}_{-2.8}$	f_{2000}^{217}	$107.7^{+6.2}_{-5.8}$
H_0	$66.6^{+5.5}_{-5.4}$	r_{drag}	$148.1^{+6.9}_{-6.5}$	$\chi_{\mathrm{lensing}}^2$	$9.38 (\nu: 0.5)$
Ω_{Λ}	$0.679^{+0.035}_{-0.037}$	k_{D}	$0.1399^{+0.0048}_{-0.0048}$	χ_{simall}^2	$396.7 (\nu: 1.1)$
Ω_{m}	$0.321^{+0.037}_{-0.035}$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0017}_{-0.0016}$	χ_{lowl}^2	$24.2 (\nu: 1.7)$
$\Omega_{\mathrm{m}} h^2$	$0.142^{+0.011}_{-0.010}$	z_{eq}	3410^{+120}_{-130}	χ_{plik}^2	$771.2 (\nu: 15.2)$
$\Omega_{\mathrm{m}} h^3$	$0.094^{+0.015}_{-0.013}$	k_{eq}	$0.01035^{+0.00035}_{-0.00033}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.808^{+0.033}_{-0.032}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.025}_{-0.023}$	χ_{CMB}^2	$1201.4 (\nu: 15.6)$
S_8	$0.835^{+0.042}_{-0.041}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.013}_{-0.012}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$H(0.15)$	$71.9^{+5.4}_{-5.3}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1208.73; R - 1 = 0.01118$$

7.6 base_nnu_plikHM_TT_lowl_lowE_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02206^{+0.00067}_{-0.00066}$	$\sigma_8 \Omega_m^{0.25}$	$0.611^{+0.029}_{-0.029}$	$D_M(0.15)$	653^{+42}_{-40}
$\Omega_c h^2$	$0.1196^{+0.0077}_{-0.0074}$	$\sigma_8/h^{0.5}$	$0.995^{+0.040}_{-0.041}$	$H(0.38)$	$82.0^{+4.0}_{-3.8}$
$100\theta_{MC}$	$1.0409^{+0.0013}_{-0.0013}$	$r_{drag}h$	$98.1^{+5.0}_{-4.6}$	$D_M(0.38)$	1555^{+90}_{-88}
τ	$0.053^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.10}_{-0.11}$	$H(0.51)$	$88.8^{+4.0}_{-3.7}$
N_{eff}	$2.97^{+0.49}_{-0.46}$	z_{re}	< 9.31	$D_M(0.51)$	2012^{+110}_{-110}
$\ln(10^{10} A_s)$	$3.040^{+0.044}_{-0.034}$	$10^9 A_s$	$2.090^{+0.093}_{-0.071}$	$H(0.61)$	$94.4^{+3.9}_{-3.6}$
n_s	$0.960^{+0.026}_{-0.024}$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.046}_{-0.046}$	$D_M(0.61)$	2339^{+120}_{-120}
y_{cal}	$1.0005^{+0.0066}_{-0.0064}$	D_{40}	1238^{+49}_{-46}	$H(2.33)$	$235.7^{+6.5}_{-6.3}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5713^{+110}_{-100}	$D_M(2.33)$	5812^{+220}_{-220}
$\xi^{tSZ \times CIB}$	—	D_{810}	2536^{+36}_{-35}	$f\sigma_8(0.15)$	$0.464^{+0.031}_{-0.031}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.747^{+0.025}_{-0.023}$
A_{100}^{PS}	261^{+70}_{-70}	D_{2000}	$230.1^{+4.9}_{-4.9}$	$f\sigma_8(0.38)$	$0.480^{+0.023}_{-0.024}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{s,0.002}$	$0.960^{+0.026}_{-0.024}$	$\sigma_8(0.38)$	$0.661^{+0.023}_{-0.021}$
$A_{143 \times 217}^{PS}$	44^{+20}_{-20}	Y_P	$0.2442^{+0.0066}_{-0.0066}$	$f\sigma_8(0.51)$	$0.477^{+0.020}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	Y_P^{BBN}	$0.2455^{+0.0066}_{-0.0067}$	$\sigma_8(0.51)$	$0.618^{+0.022}_{-0.020}$
A^{kSZ}	—	$10^5 D/H$	$2.62^{+0.13}_{-0.12}$	$f\sigma_8(0.61)$	$0.471^{+0.018}_{-0.018}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	Age/Gyr	$13.91^{+0.52}_{-0.51}$	$\sigma_8(0.61)$	$0.588^{+0.021}_{-0.020}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.6}$	z_*	$1090.2^{+1.0}_{-1.0}$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	$18.3^{+8.4}_{-8.6}$	r_*	$145.2^{+4.4}_{-4.3}$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.012}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0014}_{-0.0014}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.41}_{-0.40}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	z_{drag}	$1059.1^{+2.1}_{-2.1}$	f_{2000}^{217}	$107.7^{+5.5}_{-5.3}$
H_0	$66.3^{+4.6}_{-4.3}$	r_{drag}	$148.0^{+4.6}_{-4.5}$	χ_{simall}^2	$396.7 (\nu: 1.2)$
Ω_Λ	$0.676^{+0.039}_{-0.042}$	k_D	$0.1400^{+0.0034}_{-0.0033}$	χ_{lowl}^2	$24.5 (\nu: 1.7)$
Ω_m	$0.324^{+0.042}_{-0.039}$	$100\theta_D$	$0.1609^{+0.0012}_{-0.0011}$	χ_{plik}^2	$770.8 (\nu: 14.9)$
$\Omega_m h^2$	$0.1423^{+0.0078}_{-0.0075}$	z_{eq}	3422^{+140}_{-140}	χ_{Aver15}^2	$0.44 (\nu: 0.2)$
$\Omega_m h^3$	$0.0944^{+0.0098}_{-0.0090}$	k_{eq}	$0.01039^{+0.00038}_{-0.00037}$	$\chi_{Cooke17}^2$	$0.28 (\nu: 0.1)$
σ_8	$0.810^{+0.027}_{-0.026}$	$100\theta_{eq}$	$0.809^{+0.028}_{-0.026}$	χ_{prior}^2	$7.2 (\nu: 6.4)$
S_8	$0.842^{+0.063}_{-0.062}$	$100\theta_{s,eq}$	$0.447^{+0.014}_{-0.013}$	χ_{CMB}^2	$1191.9 (\nu: 14.2)$
$\sigma_8 \Omega_m^{0.5}$	$0.461^{+0.035}_{-0.034}$	$H(0.15)$	$71.7^{+4.4}_{-4.1}$	χ_{Abund}^2	$0.72 (\nu: 0.4)$

$$\bar{\chi}_{eff}^2 = 1199.89; R - 1 = 0.00918$$

7.7 base_nnu_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02225^{+0.00058}_{-0.00054}$	$\Omega_m h^2$	0.1401	$0.1413^{+0.0081}_{-0.0078}$	k_{eq}	0.010317	$0.01035^{+0.00030}_{-0.00030}$
$\Omega_c h^2$	0.1172	$0.1184^{+0.0078}_{-0.0075}$	$\Omega_m h^3$	0.0922	$0.0938^{+0.0096}_{-0.0093}$	$100\theta_{\text{eq}}$	0.8082	$0.810^{+0.018}_{-0.017}$
$100\theta_{\text{MC}}$	1.04123	$1.0411^{+0.0011}_{-0.0011}$	σ_8	0.8040	$0.806^{+0.028}_{-0.028}$	$100\theta_{\text{s,eq}}$	0.4468	$0.4477^{+0.0090}_{-0.0087}$
τ	0.0538	$0.053^{+0.021}_{-0.020}$	S_8	0.8347	$0.833^{+0.041}_{-0.040}$	$H(0.15)$	71.15	$71.7^{+3.5}_{-3.6}$
N_{eff}	2.836	$2.92^{+0.48}_{-0.48}$	$\sigma_8 \Omega_m^{0.5}$	0.4572	$0.456^{+0.022}_{-0.022}$	$D_{\text{M}}(0.15)$	657.8	653^{+36}_{-33}
$\ln(10^{10} A_s)$	3.0365	$3.038^{+0.048}_{-0.048}$	$\sigma_8 \Omega_m^{0.25}$	0.6063	$0.607^{+0.022}_{-0.023}$	$H(0.38)$	81.33	$81.9^{+3.5}_{-3.5}$
n_s	0.9579	$0.960^{+0.022}_{-0.022}$	$\sigma_8/h^{0.5}$	0.9910	$0.989^{+0.030}_{-0.030}$	$D_{\text{M}}(0.38)$	1566	1554^{+79}_{-72}
y_{cal}	1.0005	$1.0008^{+0.0066}_{-0.0063}$	$r_{\text{drag}} h$	98.15	$98.5^{+3.3}_{-3.1}$	$H(0.51)$	88.07	$88.7^{+3.5}_{-3.5}$
A_{217}^{CIB}	43.5	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.460	$2.456^{+0.077}_{-0.076}$	$D_{\text{M}}(0.51)$	2026	2012^{+98}_{-91}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.96	—	z_{re}	7.60	$7.5^{+2.1}_{-2.2}$	$H(0.61)$	93.70	$94.3^{+3.5}_{-3.6}$
A_{143}^{tSZ}	6.85	> 0.974	$10^9 A_s$	2.083	$2.09^{+0.10}_{-0.098}$	$D_{\text{M}}(0.61)$	2357	2340^{+110}_{-100}
A_{100}^{PS}	244	256^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8707	$1.876^{+0.044}_{-0.046}$	$H(2.33)$	233.9	$234.9^{+6.8}_{-6.8}$
A_{143}^{PS}	52.4	45^{+20}_{-20}	D_{40}	1239.7	1239^{+42}_{-39}	$D_{\text{M}}(2.33)$	5857	5822^{+220}_{-200}
$A_{143 \times 217}^{\text{PS}}$	58.7	42^{+20}_{-20}	D_{220}	5730	5734^{+98}_{-96}	$f\sigma_8(0.15)$	0.4608	$0.460^{+0.021}_{-0.021}$
A_{217}^{PS}	124.4	115^{+30}_{-30}	D_{810}	2539.3	2539^{+37}_{-33}	$\sigma_8(0.15)$	0.7418	$0.744^{+0.027}_{-0.027}$
A^{kSZ}	0.0	—	D_{1420}	819.7	818^{+13}_{-13}	$f\sigma_8(0.38)$	0.4763	$0.476^{+0.018}_{-0.018}$
A_{100}^{dustTT}	8.70	$8.9^{+4.7}_{-4.7}$	D_{2000}	232.48	$231.6^{+4.7}_{-4.7}$	$\sigma_8(0.38)$	0.6563	$0.659^{+0.025}_{-0.025}$
A_{143}^{dustTT}	10.90	$10.8^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9579	$0.960^{+0.022}_{-0.022}$	$f\sigma_8(0.51)$	0.4736	$0.474^{+0.016}_{-0.017}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.4^{+8.5}_{-8.6}$	Y_{P}	0.2425	$0.2436^{+0.0065}_{-0.0069}$	$\sigma_8(0.51)$	0.6137	$0.616^{+0.024}_{-0.023}$
A_{217}^{dustTT}	96.0	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2438	$0.2449^{+0.0065}_{-0.0069}$	$f\sigma_8(0.61)$	0.4677	$0.468^{+0.016}_{-0.016}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.096}$	10^5D/H	2.546	$2.56^{+0.12}_{-0.11}$	$\sigma_8(0.61)$	0.5836	$0.586^{+0.023}_{-0.023}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.076}$	Age/Gyr	14.02	$13.94^{+0.52}_{-0.48}$	$f\sigma_8(2.33)$	0.2938	$0.295^{+0.012}_{-0.012}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.69	$1089.81^{+0.90}_{-0.84}$	$\sigma_8(2.33)$	0.3024	$0.304^{+0.013}_{-0.013}$
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	r_*	146.36	$145.6^{+4.8}_{-4.4}$	f_{2000}^{143}	27.2	29^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.668	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	1.04156	$1.0414^{+0.0014}_{-0.0013}$	$f_{2000}^{143 \times 217}$	30.9	32^{+5}_{-5}
A_{217}^{dustTE}	2.09	$2.09^{+0.70}_{-0.71}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.052	$13.98^{+0.44}_{-0.41}$	f_{2000}^{217}	105.44	$106.5^{+4.9}_{-5.0}$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.17	$1059.4^{+2.0}_{-2.0}$	χ_{simall}^2	396.03	$397.0 (\nu: 1.5)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	149.11	$148.3^{+5.0}_{-4.6}$	χ_{lowl}^2	24.41	$24.3 (\nu: 1.2)$
H_0	65.82	$66.4^{+3.7}_{-3.6}$	k_{D}	0.13944	$0.1400^{+0.0035}_{-0.0036}$	χ_{plik}^2	2343.0	$2359.2 (\nu: 18.0)$
Ω_{Λ}	0.6767	$0.679^{+0.026}_{-0.028}$	$100\theta_{\text{D}}$	0.16033	$0.1605^{+0.0010}_{-0.0011}$	χ_{prior}^2	1.3	$11.6 (\nu: 10.5)$
Ω_{m}	0.3233	$0.321^{+0.028}_{-0.026}$	z_{eq}	3429	3420^{+94}_{-92}	χ_{CMB}^2	2763.4	$2780.5 (\nu: 17.8)$

Best-fit $\chi_{\text{eff}}^2 = 2764.72$; $\bar{\chi}_{\text{eff}}^2 = 2792.10$; $R - 1 = 0.01315$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3.2_29: 24.41 plik_rd12_HM_v22b_TTTEE: 2342.95

7.8 base_nnu_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.02224^{+0.00057}_{-0.00055}$	$\Omega_m h^3$	0.0918	$0.0933^{+0.0096}_{-0.0092}$	$100\theta_{s,eq}$	0.4472	$0.4478^{+0.0085}_{-0.0082}$
$\Omega_c h^2$	0.1167	$0.1179^{+0.0073}_{-0.0072}$	σ_8	0.8018	$0.804^{+0.026}_{-0.025}$	$H(0.15)$	71.10	$71.6^{+3.5}_{-3.5}$
$100\theta_{MC}$	1.04130	$1.0412^{+0.0011}_{-0.0011}$	S_8	0.8312	$0.831^{+0.032}_{-0.033}$	$D_M(0.15)$	658.2	654^{+35}_{-33}
τ	0.0533	$0.053^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4553	$0.455^{+0.018}_{-0.018}$	$H(0.38)$	81.25	$81.8^{+3.5}_{-3.5}$
N_{eff}	2.815	$2.89^{+0.47}_{-0.47}$	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.605^{+0.018}_{-0.018}$	$D_M(0.38)$	1567	1557^{+78}_{-73}
$\ln(10^{10} A_s)$	3.0339	$3.036^{+0.044}_{-0.043}$	$\sigma_8/h^{0.5}$	0.9885	$0.988^{+0.023}_{-0.023}$	$H(0.51)$	87.97	$88.5^{+3.5}_{-3.5}$
n_s	0.9577	$0.959^{+0.022}_{-0.023}$	$r_{drag} h$	98.27	$98.5^{+3.0}_{-2.9}$	$D_M(0.51)$	2028	2015^{+98}_{-91}
y_{cal}	1.0005	$1.0007^{+0.0067}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.454^{+0.065}_{-0.061}$	$H(0.61)$	93.59	$94.1^{+3.6}_{-3.6}$
A_{217}^{CIB}	43.4	46^{+20}_{-20}	z_{re}	7.53	$7.5^{+1.9}_{-2.0}$	$D_M(0.61)$	2359	2344^{+110}_{-100}
$\xi^{tSZ \times CIB}$	0.98	—	$10^9 A_s$	2.078	$2.083^{+0.093}_{-0.087}$	$H(2.33)$	233.5	$234.5^{+6.5}_{-6.8}$
A_{143}^{tSZ}	6.9	—	$10^9 A_s e^{-2\tau}$	1.8679	$1.873^{+0.042}_{-0.045}$	$D_M(2.33)$	5864	5832^{+220}_{-210}
A_{100}^{PS}	242	256^{+70}_{-70}	D_{40}	1239.1	1240^{+39}_{-36}	$f\sigma_8(0.15)$	0.4589	$0.459^{+0.016}_{-0.017}$
A_{143}^{PS}	52.0	44^{+20}_{-20}	D_{220}	5730	5736^{+95}_{-94}	$\sigma_8(0.15)$	0.7399	$0.742^{+0.025}_{-0.025}$
$A_{143 \times 217}^{PS}$	59.1	42^{+20}_{-20}	D_{810}	2538.8	2538^{+37}_{-33}	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.014}_{-0.014}$
A_{217}^{PS}	124.4	115^{+30}_{-30}	D_{1420}	819.9	818^{+13}_{-12}	$\sigma_8(0.38)$	0.6547	$0.657^{+0.023}_{-0.023}$
A^{kSZ}	0.0	—	D_{2000}	232.64	$231.7^{+4.8}_{-4.6}$	$f\sigma_8(0.51)$	0.4720	$0.473^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.69	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	0.9577	$0.959^{+0.022}_{-0.023}$	$\sigma_8(0.51)$	0.6122	$0.615^{+0.022}_{-0.022}$
A_{143}^{dustTT}	10.89	$10.8^{+4.6}_{-4.6}$	Y_P	0.2422	$0.2433^{+0.0064}_{-0.0068}$	$f\sigma_8(0.61)$	0.4662	$0.467^{+0.014}_{-0.014}$
$A_{143 \times 217}^{dustTT}$	20.3	$18.4^{+8.5}_{-9.0}$	Y_P^{BBN}	0.2435	$0.2446^{+0.0065}_{-0.0068}$	$\sigma_8(0.61)$	0.5822	$0.585^{+0.022}_{-0.022}$
A_{217}^{dustTT}	96.1	94^{+20}_{-20}	$10^5 D/H$	2.538	$2.56^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	0.2932	$0.294^{+0.012}_{-0.011}$
A_{100}^{dustTE}	0.113	$0.114^{+0.10}_{-0.096}$	Age/Gyr	14.04	$13.96^{+0.52}_{-0.49}$	$\sigma_8(2.33)$	0.3018	$0.303^{+0.013}_{-0.013}$
$A_{100 \times 143}^{dustTE}$	0.136	$0.135^{+0.074}_{-0.076}$	z_*	1089.62	$1089.75^{+0.83}_{-0.83}$	f_{2000}^{143}	26.9	29^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	r_*	146.61	$145.9^{+4.8}_{-4.4}$	$f_{2000}^{143 \times 217}$	30.8	31^{+5}_{-5}
A_{143}^{dustTE}	0.228	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	1.04165	$1.0415^{+0.0014}_{-0.0013}$	f_{2000}^{217}	105.29	$106.4^{+4.9}_{-5.0}$
$A_{143 \times 217}^{dustTE}$	0.669	$0.67^{+0.19}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	14.075	$14.01^{+0.45}_{-0.41}$	$\chi_{lensing}^2$	8.50	$9.02 (\nu: 0.2)$
A_{217}^{dustTE}	2.09	$2.08^{+0.71}_{-0.73}$	z_{drag}	1059.09	$1059.3^{+2.0}_{-2.0}$	χ_{small}^2	395.95	$396.8 (\nu: 1.1)$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	149.36	$148.6^{+5.1}_{-4.6}$	χ_{lowl}^2	24.36	$24.4 (\nu: 1.1)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.13926	$0.1398^{+0.0035}_{-0.0035}$	χ_{plik}^2	2343.0	$2359.1 (\nu: 17.2)$
H_0	65.79	$66.3^{+3.6}_{-3.6}$	$100\theta_D$	0.16027	$0.1605^{+0.0010}_{-0.0010}$	χ_{prior}^2	1.4	$11.6 (\nu: 10.5)$
Ω_Λ	0.6776	$0.679^{+0.025}_{-0.025}$	z_{eq}	3426	3419^{+87}_{-86}	χ_{CMB}^2	2771.9	$2789.3 (\nu: 17.7)$
Ω_m	0.3224	$0.321^{+0.025}_{-0.025}$	k_{eq}	0.010292	$0.01033^{+0.00028}_{-0.00028}$			
$\Omega_m h^2$	0.1395	$0.1408^{+0.0076}_{-0.0076}$	$100\theta_{eq}$	0.8088	$0.810^{+0.017}_{-0.016}$			

Best-fit $\chi_{eff}^2 = 2773.28$; $\bar{\chi}_{eff}^2 = 2800.86$; $R - 1 = 0.01957$
 χ_{eff}^2 : CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.50 small_100x143_offlike5_EE_Aplanck_B: 395.95 commander_dx12_v3.2_29: 24.36 plik_rd12_HM_v22b_TTTEEE: 2343.04

7.9 base_nnu_plikHM_TTTEE_lowl_lowE_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02225^{+0.00053}_{-0.00048}$	$\Omega_m h^2$	0.1411	$0.1417^{+0.0065}_{-0.0065}$	k_{eq}	0.010350	$0.01036^{+0.00027}_{-0.00028}$
$\Omega_c h^2$	0.1182	$0.1188^{+0.0062}_{-0.0061}$	$\Omega_m h^3$	0.0933	$0.0943^{+0.0079}_{-0.0075}$	$100\theta_{\text{eq}}$	0.8085	$0.810^{+0.018}_{-0.016}$
$100\theta_{\text{MC}}$	1.04113	$1.04105^{+0.00098}_{-0.00096}$	σ_8	0.8069	$0.807^{+0.025}_{-0.025}$	$100\theta_{\text{s,eq}}$	0.4470	$0.4478^{+0.0089}_{-0.0083}$
τ	0.0538	$0.053^{+0.021}_{-0.020}$	S_8	0.8371	$0.835^{+0.041}_{-0.041}$	$H(0.15)$	71.45	$71.8^{+3.1}_{-2.9}$
N_{eff}	2.891	$2.94^{+0.39}_{-0.38}$	$\sigma_8 \Omega_m^{0.5}$	0.4585	$0.457^{+0.022}_{-0.022}$	$D_{\text{M}}(0.15)$	655.0	651^{+30}_{-29}
$\ln(10^{10} A_s)$	3.0389	$3.039^{+0.047}_{-0.043}$	$\sigma_8 \Omega_m^{0.25}$	0.6082	$0.608^{+0.021}_{-0.022}$	$H(0.38)$	81.66	$82.0^{+3.0}_{-2.9}$
n_s	0.9596	$0.960^{+0.019}_{-0.019}$	$\sigma_8/h^{0.5}$	0.9925	$0.990^{+0.030}_{-0.029}$	$D_{\text{M}}(0.38)$	1559	1551^{+65}_{-63}
y_{cal}	1.0005	$1.0008^{+0.0066}_{-0.0065}$	$r_{\text{drag}} h$	98.19	$98.5^{+3.1}_{-2.9}$	$H(0.51)$	88.42	$88.8^{+3.0}_{-2.9}$
A_{217}^{CIB}	44.2	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.460	$2.455^{+0.076}_{-0.072}$	$D_{\text{M}}(0.51)$	2018	2008^{+80}_{-78}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.88	—	z_{re}	7.62	$7.5^{+2.0}_{-2.1}$	$H(0.61)$	94.07	$94.5^{+3.0}_{-2.9}$
A_{143}^{tSZ}	6.9	—	$10^9 A_s$	2.088	$2.088^{+0.099}_{-0.089}$	$D_{\text{M}}(0.61)$	2347	2336^{+91}_{-88}
A_{100}^{PS}	245	257^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8752	$1.878^{+0.039}_{-0.040}$	$H(2.33)$	234.7	$235.3^{+5.5}_{-5.5}$
A_{143}^{PS}	52.2	45^{+20}_{-20}	D_{40}	1237.6	1238^{+39}_{-37}	$D_{\text{M}}(2.33)$	5834	5812^{+180}_{-170}
$A_{143 \times 217}^{\text{PS}}$	57.6	42^{+20}_{-20}	D_{220}	5727	5733^{+98}_{-95}	$f\sigma_8(0.15)$	0.4621	$0.461^{+0.020}_{-0.020}$
A_{217}^{PS}	124.0	115^{+30}_{-30}	D_{810}	2539.8	2539^{+36}_{-34}	$\sigma_8(0.15)$	0.7446	$0.745^{+0.024}_{-0.023}$
A^{kSZ}	0.0	—	D_{1420}	819.1	818^{+13}_{-12}	$f\sigma_8(0.38)$	0.4778	$0.477^{+0.017}_{-0.017}$
A_{100}^{dustTT}	8.70	$8.9^{+4.9}_{-4.6}$	D_{2000}	232.06	$231.4^{+4.6}_{-4.4}$	$\sigma_8(0.38)$	0.6588	$0.660^{+0.022}_{-0.021}$
A_{143}^{dustTT}	10.89	$10.8^{+4.8}_{-4.6}$	$n_{\text{s},0.002}$	0.9596	$0.960^{+0.019}_{-0.019}$	$f\sigma_8(0.51)$	0.4751	$0.475^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.5^{+9.0}_{-8.8}$	Y_{P}	0.2432	$0.2439^{+0.0053}_{-0.0055}$	$\sigma_8(0.51)$	0.6160	$0.617^{+0.021}_{-0.020}$
A_{217}^{dustTT}	96.0	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2445	$0.2452^{+0.0053}_{-0.0055}$	$f\sigma_8(0.61)$	0.4693	$0.469^{+0.014}_{-0.015}$
A_{100}^{dustTE}	0.116	$0.114^{+0.10}_{-0.098}$	10^5D/H	2.562	$2.573^{+0.098}_{-0.094}$	$\sigma_8(0.61)$	0.5859	$0.587^{+0.020}_{-0.019}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.135^{+0.074}_{-0.077}$	Age/Gyr	13.964	$13.91^{+0.42}_{-0.41}$	$f\sigma_8(2.33)$	0.2950	$0.295^{+0.010}_{-0.0097}$
$A_{100 \times 217}^{\text{dustTE}}$	0.485	$0.48^{+0.22}_{-0.22}$	z_*	1089.81	$1089.87^{+0.77}_{-0.75}$	$\sigma_8(2.33)$	0.3036	$0.304^{+0.011}_{-0.010}$
A_{143}^{dustTE}	0.227	$0.23^{+0.14}_{-0.13}$	r_*	145.81	$145.4^{+3.8}_{-3.6}$	χ_{simall}^2	396.04	$396.9 (\nu: 1.4)$
$A_{143 \times 217}^{\text{dustTE}}$	0.668	$0.67^{+0.19}_{-0.20}$	$100\theta_*$	1.04143	$1.0413^{+0.0012}_{-0.0012}$	χ_{lowl}^2	24.18	$24.2 (\nu: 0.9)$
A_{217}^{dustTE}	2.09	$2.09^{+0.70}_{-0.72}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.001	$13.96^{+0.35}_{-0.34}$	χ_{plik}^2	2343.2	$2359.2 (\nu: 17.4)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0017}$	z_{drag}	1059.32	$1059.5^{+1.8}_{-1.7}$	χ_{Aver15}^2	0.01	$0.28 (\nu: 0.1)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	148.54	$148.1^{+4.0}_{-3.8}$	χ_{Cooke17}^2	0.36	$0.38 (\nu: 0.1)$
H_0	66.11	$66.5^{+3.2}_{-3.1}$	k_{D}	0.13983	$0.1401^{+0.0029}_{-0.0029}$	χ_{prior}^2	1.4	$11.6 (\nu: 10.4)$
Ω_{Λ}	0.6772	$0.679^{+0.025}_{-0.025}$	$100\theta_{\text{D}}$	0.16047	$0.16059^{+0.00083}_{-0.00084}$	χ_{CMB}^2	2763.4	$2780.3 (\nu: 17.0)$
Ω_{m}	0.3228	$0.321^{+0.025}_{-0.025}$	z_{eq}	3427	3419^{+88}_{-91}	χ_{Abund}^2	0.37	$0.67 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 2765.22$; $\bar{\chi}_{\text{eff}}^2 = 2792.58$; $R - 1 = 0.01890$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.01 D-Cooke2017: 0.36 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3_2_29: 24.18 plik_rd12_HM_v22b_TTTEE: 2343.20

7.10 base_nnu_plikHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02225^{+0.00058}_{-0.00054}$	$\Omega_m h^2$	$0.1413^{+0.0080}_{-0.0078}$	k_{eq}	$0.01035^{+0.00030}_{-0.00030}$
$\Omega_c h^2$	$0.1184^{+0.0077}_{-0.0075}$	$\Omega_m h^3$	$0.0939^{+0.0096}_{-0.0093}$	$100\theta_{\text{eq}}$	$0.810^{+0.018}_{-0.017}$
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011}$	σ_8	$0.807^{+0.028}_{-0.025}$	$100\theta_{\text{s,eq}}$	$0.4479^{+0.0090}_{-0.0087}$
τ	$0.055^{+0.019}_{-0.013}$	S_8	$0.834^{+0.040}_{-0.039}$	$H(0.15)$	$71.8^{+3.6}_{-3.5}$
N_{eff}	$2.92^{+0.48}_{-0.47}$	$\sigma_8 \Omega_m^{0.5}$	$0.457^{+0.022}_{-0.022}$	$D_{\text{M}}(0.15)$	652^{+35}_{-33}
$\ln(10^{10} A_s)$	$3.041^{+0.046}_{-0.036}$	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.022}_{-0.021}$	$H(0.38)$	$82.0^{+3.5}_{-3.5}$
n_s	$0.960^{+0.021}_{-0.022}$	$\sigma_8/h^{0.5}$	$0.991^{+0.030}_{-0.028}$	$D_{\text{M}}(0.38)$	1553^{+78}_{-73}
y_{cal}	$1.0007^{+0.0064}_{-0.0063}$	$r_{\text{drag}} h$	$98.5^{+3.3}_{-3.1}$	$H(0.51)$	$88.7^{+3.5}_{-3.5}$
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.458^{+0.076}_{-0.073}$	$D_{\text{M}}(0.51)$	2011^{+97}_{-91}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.40	$H(0.61)$	$94.3^{+3.5}_{-3.6}$
A_{143}^{tSZ}	> 0.979	$10^9 A_s$	$2.092^{+0.098}_{-0.074}$	$D_{\text{M}}(0.61)$	2338^{+110}_{-100}
A_{100}^{PS}	256^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.876^{+0.044}_{-0.045}$	$H(2.33)$	$235.0^{+6.7}_{-6.9}$
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1239^{+42}_{-39}	$D_{\text{M}}(2.33)$	5819^{+220}_{-200}
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5734^{+96}_{-96}	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2538^{+35}_{-34}	$\sigma_8(0.15)$	$0.745^{+0.026}_{-0.024}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-13}	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	D_{2000}	$231.6^{+4.7}_{-4.7}$	$\sigma_8(0.38)$	$0.660^{+0.024}_{-0.022}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	$0.960^{+0.021}_{-0.022}$	$f\sigma_8(0.51)$	$0.475^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.5}_{-8.6}$	Y_{P}	$0.2437^{+0.0065}_{-0.0068}$	$\sigma_8(0.51)$	$0.617^{+0.023}_{-0.021}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2450^{+0.0065}_{-0.0069}$	$f\sigma_8(0.61)$	$0.469^{+0.015}_{-0.015}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.097}$	$10^5 \text{D}/\text{H}$	$2.56^{+0.12}_{-0.11}$	$\sigma_8(0.61)$	$0.587^{+0.022}_{-0.020}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.076}$	Age/Gyr	$13.93^{+0.52}_{-0.48}$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.011}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.81^{+0.90}_{-0.84}$	$\sigma_8(2.33)$	$0.304^{+0.013}_{-0.012}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	r_*	$145.6^{+4.8}_{-4.4}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	$1.0414^{+0.0014}_{-0.0013}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.71}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.98^{+0.45}_{-0.41}$	f_{2000}^{217}	$106.5^{+4.9}_{-5.0}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+2.0}_{-2.0}$	χ_{small}^2	$396.9 (\nu: 1.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$148.3^{+5.0}_{-4.6}$	χ_{lowl}^2	$24.3 (\nu: 1.2)$
H_0	$66.4^{+3.7}_{-3.6}$	k_{D}	$0.1400^{+0.0035}_{-0.0036}$	χ_{plik}^2	$2359.1 (\nu: 18.0)$
Ω_{Λ}	$0.680^{+0.026}_{-0.027}$	$100\theta_{\text{D}}$	$0.1605^{+0.0010}_{-0.0011}$	χ_{prior}^2	$11.5 (\nu: 10.5)$
Ω_{m}	$0.320^{+0.027}_{-0.026}$	z_{eq}	3418^{+94}_{-92}	χ_{CMB}^2	$2780.3 (\nu: 17.5)$

$$\bar{\chi}_{\text{eff}}^2 = 2791.81; R - 1 = 0.01491$$

7.11 base_nnu_plikHM_TTTEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02224^{+0.00058}_{-0.00055}$	$\Omega_m h^3$	$0.0934^{+0.0095}_{-0.0092}$	$100\theta_{s,eq}$	$0.4480^{+0.0085}_{-0.0081}$
$\Omega_c h^2$	$0.1179^{+0.0073}_{-0.0073}$	σ_8	$0.805^{+0.025}_{-0.024}$	$H(0.15)$	$71.7^{+3.6}_{-3.6}$
$100\theta_{MC}$	$1.0412^{+0.0011}_{-0.0011}$	S_8	$0.831^{+0.032}_{-0.032}$	$D_M(0.15)$	653^{+36}_{-33}
τ	$0.054^{+0.017}_{-0.012}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.018}$	$H(0.38)$	$81.8^{+3.5}_{-3.5}$
N_{eff}	$2.90^{+0.47}_{-0.47}$	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.018}_{-0.018}$	$D_M(0.38)$	1555^{+79}_{-72}
$\ln(10^{10} A_s)$	$3.038^{+0.042}_{-0.033}$	$\sigma_8/h^{0.5}$	$0.989^{+0.022}_{-0.023}$	$H(0.51)$	$88.6^{+3.5}_{-3.5}$
n_s	$0.959^{+0.022}_{-0.022}$	$r_{drag} h$	$98.6^{+3.0}_{-2.9}$	$D_M(0.51)$	2014^{+98}_{-90}
y_{cal}	$1.0007^{+0.0066}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.064}_{-0.062}$	$H(0.61)$	$94.2^{+3.6}_{-3.4}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.22	$D_M(0.61)$	2342^{+110}_{-100}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.087^{+0.089}_{-0.068}$	$H(2.33)$	$234.6^{+6.5}_{-6.8}$
A_{143}^{tSZ}	—	$10^9 A_s e^{-2\tau}$	$1.873^{+0.042}_{-0.045}$	$D_M(2.33)$	5829^{+220}_{-200}
A_{100}^{PS}	256^{+70}_{-70}	D_{40}	1239^{+39}_{-36}	$f\sigma_8(0.15)$	$0.459^{+0.016}_{-0.017}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5735^{+92}_{-95}	$\sigma_8(0.15)$	$0.743^{+0.024}_{-0.023}$
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	D_{810}	2538^{+34}_{-33}	$f\sigma_8(0.38)$	$0.476^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.38)$	$0.658^{+0.022}_{-0.021}$
A^{kSZ}	—	D_{2000}	$231.6^{+4.8}_{-4.6}$	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.013}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	$0.959^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	$0.615^{+0.022}_{-0.021}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.6}$	Y_P	$0.2433^{+0.0064}_{-0.0068}$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.013}$
$A_{143 \times 217}^{dustTT}$	$18.4^{+8.5}_{-8.8}$	Y_P^{BBN}	$0.2446^{+0.0065}_{-0.0068}$	$\sigma_8(0.61)$	$0.585^{+0.021}_{-0.020}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.56^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	$0.295^{+0.011}_{-0.011}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.096}$	Age/Gyr	$13.95^{+0.52}_{-0.49}$	$\sigma_8(2.33)$	$0.304^{+0.012}_{-0.012}$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.072}_{-0.076}$	z_*	$1089.75^{+0.83}_{-0.82}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	r_*	$145.9^{+4.8}_{-4.4}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	$1.0415^{+0.0014}_{-0.0013}$	f_{2000}^{217}	$106.4^{+4.9}_{-5.0}$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.19}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$14.01^{+0.44}_{-0.41}$	$\chi^2_{lensing}$	$9.01 (\nu: 0.2)$
A_{217}^{dustTE}	$2.08^{+0.72}_{-0.72}$	z_{drag}	$1059.4^{+2.0}_{-2.0}$	χ^2_{simall}	$396.8 (\nu: 1.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$148.6^{+5.0}_{-4.6}$	χ^2_{lowl}	$24.4 (\nu: 1.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.1398^{+0.0034}_{-0.0035}$	χ^2_{plik}	$2358.9 (\nu: 17.3)$
H_0	$66.3^{+3.6}_{-3.6}$	$100\theta_D$	$0.1605^{+0.0010}_{-0.0010}$	χ^2_{prior}	$11.5 (\nu: 10.4)$
Ω_Λ	$0.680^{+0.024}_{-0.025}$	z_{eq}	3417^{+87}_{-86}	χ^2_{CMB}	$2789.1 (\nu: 17.5)$
Ω_m	$0.320^{+0.025}_{-0.024}$	k_{eq}	$0.01032^{+0.00028}_{-0.00027}$		
$\Omega_m h^2$	$0.1408^{+0.0076}_{-0.0076}$	$100\theta_{eq}$	$0.810^{+0.017}_{-0.016}$		

$$\bar{\chi}^2_{eff} = 2800.61; R - 1 = 0.02136$$

7.12 base_nnu_plikHM_TTTEEE_lowl_lowE_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02225^{+0.00053}_{-0.00049}$	$\Omega_m h^3$	$0.0943^{+0.0079}_{-0.0075}$	$100\theta_{s,eq}$	$0.4479^{+0.0089}_{-0.0084}$
$\Omega_c h^2$	$0.1188^{+0.0062}_{-0.0062}$	σ_8	$0.808^{+0.025}_{-0.022}$	$H(0.15)$	$71.9^{+3.1}_{-3.0}$
$100\theta_{MC}$	$1.04105^{+0.00098}_{-0.00096}$	S_8	$0.835^{+0.041}_{-0.040}$	$D_M(0.15)$	651^{+30}_{-29}
τ	$0.054^{+0.018}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.458^{+0.023}_{-0.022}$	$H(0.38)$	$82.1^{+3.0}_{-2.9}$
N_{eff}	$2.94^{+0.39}_{-0.38}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.021}_{-0.020}$	$D_M(0.38)$	1551^{+64}_{-63}
$\ln(10^{10} A_s)$	$3.041^{+0.045}_{-0.033}$	$\sigma_8/h^{0.5}$	$0.991^{+0.030}_{-0.028}$	$H(0.51)$	$88.8^{+3.0}_{-2.9}$
n_s	$0.961^{+0.019}_{-0.019}$	$r_{drag} h$	$98.5^{+3.1}_{-2.9}$	$D_M(0.51)$	2007^{+80}_{-79}
y_{cal}	$1.0007^{+0.0064}_{-0.0066}$	$\langle d^2 \rangle^{1/2}$	$2.458^{+0.074}_{-0.072}$	$H(0.61)$	$94.5^{+3.0}_{-2.9}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.38	$D_M(0.61)$	2335^{+91}_{-89}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.094^{+0.095}_{-0.069}$	$H(2.33)$	$235.3^{+5.5}_{-5.5}$
A_{143}^{tSZ}	—	$10^9 A_s e^{-2\tau}$	$1.878^{+0.039}_{-0.040}$	$D_M(2.33)$	5811^{+180}_{-170}
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1238^{+39}_{-37}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.020}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5732^{+95}_{-96}	$\sigma_8(0.15)$	$0.746^{+0.023}_{-0.021}$
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	D_{810}	2539^{+35}_{-34}	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.38)$	$0.660^{+0.021}_{-0.019}$
A^{kSZ}	—	D_{2000}	$231.4^{+4.5}_{-4.4}$	$f\sigma_8(0.51)$	$0.475^{+0.015}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.9}_{-4.6}$	$n_{s,0.002}$	$0.961^{+0.019}_{-0.019}$	$\sigma_8(0.51)$	$0.618^{+0.020}_{-0.018}$
A_{143}^{dustTT}	$10.8^{+4.8}_{-4.6}$	Y_P	$0.2440^{+0.0053}_{-0.0055}$	$f\sigma_8(0.61)$	$0.470^{+0.014}_{-0.014}$
$A_{143 \times 217}^{dustTT}$	$18.5^{+8.5}_{-8.8}$	Y_P^{BBN}	$0.2453^{+0.0053}_{-0.0055}$	$\sigma_8(0.61)$	$0.588^{+0.019}_{-0.017}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.573^{+0.098}_{-0.094}$	$f\sigma_8(2.33)$	$0.296^{+0.010}_{-0.0090}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.098}$	Age/Gyr	$13.91^{+0.42}_{-0.41}$	$\sigma_8(2.33)$	$0.305^{+0.011}_{-0.0097}$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.073}_{-0.078}$	z_*	$1089.86^{+0.78}_{-0.75}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	r_*	$145.4^{+3.8}_{-3.6}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.13}$	$100\theta_*$	$1.0413^{+0.0012}_{-0.0012}$	f_{2000}^{217}	$106.6^{+4.7}_{-4.8}$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.19}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	$13.96^{+0.35}_{-0.34}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
A_{217}^{dustTE}	$2.08^{+0.71}_{-0.71}$	z_{drag}	$1059.5^{+1.8}_{-1.7}$	χ_{lowl}^2	$24.2 (\nu: 0.9)$
c_{100}	$0.9997^{+0.0015}_{-0.0017}$	r_{drag}	$148.1^{+4.0}_{-3.8}$	χ_{plik}^2	$2359.0 (\nu: 17.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.1402^{+0.0029}_{-0.0029}$	χ_{Aver15}^2	$0.28 (\nu: 0.1)$
H_0	$66.5^{+3.2}_{-3.1}$	$100\theta_D$	$0.16059^{+0.00083}_{-0.00084}$	$\chi_{Cooke17}^2$	$0.39 (\nu: 0.1)$
Ω_Λ	$0.680^{+0.025}_{-0.025}$	z_{eq}	3418^{+90}_{-92}	χ_{prior}^2	$11.6 (\nu: 10.4)$
Ω_m	$0.320^{+0.025}_{-0.025}$	k_{eq}	$0.01036^{+0.00027}_{-0.00027}$	χ_{CMB}^2	$2780.1 (\nu: 16.8)$
$\Omega_m h^2$	$0.1417^{+0.0064}_{-0.0065}$	$100\theta_{eq}$	$0.810^{+0.018}_{-0.017}$	χ_{Abund}^2	$0.67 (\nu: 0.2)$

$$\bar{\chi}_{eff}^2 = 2792.34; R - 1 = 0.02177$$

7.13 base_nnu_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02199	$0.02204^{+0.00081}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4606	$0.460^{+0.036}_{-0.035} \quad (-0.0\sigma)$	$H(0.15)$	71.1	$71.5^{+6.2}_{-5.8} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1187	$0.119^{+0.011}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6089	$0.609^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$D_M(0.15)$	659	$655^{+61}_{-56} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04101	$1.0410^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9931	$0.992^{+0.042}_{-0.043} \quad (-0.0\sigma)$	$H(0.38)$	81.3	$81.8^{+6.0}_{-5.6} \quad (-0.2\sigma)$
τ	0.0502	$0.051^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	97.7	$98.1^{+5.9}_{-5.6} \quad (-0.1\sigma)$	$D_M(0.38)$	1567	$1559^{+130}_{-120} \quad (+0.2\sigma)$
N_{eff}	2.89	$2.94^{+0.79}_{-0.72} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.462	$2.46^{+0.12}_{-0.12} \quad (+0.0\sigma)$	$H(0.51)$	88.1	$88.6^{+5.9}_{-5.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.030	$3.033^{+0.055}_{-0.056} \quad (-0.2\sigma)$	z_{re}	7.30	$7.4^{+2.2}_{-2.5} \quad (-0.0\sigma)$	$D_M(0.51)$	2028	$2017^{+160}_{-150} \quad (+0.2\sigma)$
n_s	0.9569	$0.959^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$10^9 A_s$	2.069	$2.08^{+0.12}_{-0.11} \quad (-0.2\sigma)$	$H(0.61)$	93.8	$94.3^{+5.9}_{-5.5} \quad (-0.2\sigma)$
y_{cal}	1.0003	$1.0004^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.872	$1.874^{+0.060}_{-0.063} \quad (-0.3\sigma)$	$D_M(0.61)$	2357	$2346^{+180}_{-170} \quad (+0.2\sigma)$
A_{100}^{PS}	234	$240^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	1238	$1236^{+58}_{-57} \quad (-0.0\sigma)$	$H(2.33)$	234.8	$235.3^{+9.9}_{-9.5} \quad (-0.2\sigma)$
A_{143}^{PS}	39	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5700	$5702^{+100}_{-110} \quad (-0.3\sigma)$	$D_M(2.33)$	5848	$5826^{+340}_{-330} \quad (+0.2\sigma)$
A_{217}^{PS}	101.3	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2531.6	$2532^{+37}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4638	$0.463^{+0.032}_{-0.032} \quad (-0.1\sigma)$
A_{217}^{CIB}	45.0	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	814.7	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	0.7422	$0.744^{+0.035}_{-0.035} \quad (-0.2\sigma)$
A_{143}^{tSZ}	6.61	$< 8.83 \quad (-0.6\sigma)$	D_{2000}	230.3	$230.1^{+5.9}_{-6.1} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	0.4785	$0.478^{+0.025}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.592	$0.65^{+0.32}_{-0.33}$	$n_{s,0.002}$	0.9569	$0.959^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	0.6562	$0.658^{+0.033}_{-0.033} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.78	—	Y_P	0.2431	$0.244^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	0.4752	$0.475^{+0.022}_{-0.022} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.08	—	Y_P^{BBN}	0.2444	$0.245^{+0.010}_{-0.011} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	0.6134	$0.616^{+0.032}_{-0.032} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	10^5D/H	2.602	$2.61^{+0.20}_{-0.18} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4690	$0.469^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.49}$	Age/Gyr	14.00	$13.94^{+0.82}_{-0.78} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.5833	$0.585^{+0.032}_{-0.031} \quad (-0.2\sigma)$
A_{143}^{dust}	0.989	$0.97^{+0.44}_{-0.45}$	z_*	1090.13	$1090.2^{+1.4}_{-1.3} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2935	$0.295^{+0.017}_{-0.017} \quad (-0.2\sigma)$
A_{217}^{dust}	0.967	$0.97^{+0.27}_{-0.27}$	r_*	145.9	$145.5^{+6.9}_{-6.7} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3019	$0.303^{+0.019}_{-0.018} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.011	$1.03^{+0.42}_{-0.40}$	$100\theta_*$	1.04133	$1.0413^{+0.0019}_{-0.0018} \quad (+0.2\sigma)$	f_{2000}^{143}	30.0	$30^{+10}_{-9} \quad (-0.2\sigma)$
c_{100}	0.99758	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	14.01	$13.97^{+0.64}_{-0.62} \quad (+0.2\sigma)$	f_{2000}^{217}	106.9	$107.1^{+6.4}_{-6.4} \quad (-0.4\sigma)$
c_{217}	1.00132	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	1058.83	$1059.0^{+2.9}_{-2.9} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.2	$32^{+7}_{-7} \quad (-0.4\sigma)$
H_0	65.7	$66.2^{+6.5}_{-6.0} \quad (-0.2\sigma)$	r_{drag}	148.7	$148.3^{+7.2}_{-6.9} \quad (+0.2\sigma)$	χ_{small}^2	395.70	$396.9 \quad (\nu: 1.4) \quad (+0.0\sigma)$
Ω_Λ	0.6725	$0.675^{+0.046}_{-0.052} \quad (-0.1\sigma)$	k_D	0.13952	$0.1398^{+0.0050}_{-0.0049} \quad (-0.2\sigma)$	χ_{lowl}^2	24.4	$24.4 \quad (\nu: 2.7) \quad (+0.0\sigma)$
Ω_m	0.3275	$0.325^{+0.052}_{-0.046} \quad (+0.1\sigma)$	$100\theta_D$	0.16074	$0.1608^{+0.0018}_{-0.0017} \quad (-0.2\sigma)$	χ_{CamSpec}^2	7049.2	$7063.3 \quad (\nu: 16.5)$
$\Omega_m h^2$	0.1413	$0.142^{+0.012}_{-0.011} \quad (-0.2\sigma)$	z_{eq}	3435	$3425^{+170}_{-170} \quad (+0.1\sigma)$	χ_{prior}^2	2.1	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
$\Omega_m h^3$	0.0928	$0.094^{+0.015}_{-0.014} \quad (-0.2\sigma)$	k_{eq}	0.010371	$0.01037^{+0.00045}_{-0.00041} \quad (-0.2\sigma)$	χ_{CMB}^2	7469.3	$7484.6 \quad (\nu: 15.8) \quad (+1127.2\sigma)$
σ_8	0.8049	$0.807^{+0.036}_{-0.037} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	0.8065	$0.809^{+0.033}_{-0.031} \quad (-0.1\sigma)$			
S_8	0.841	$0.839^{+0.065}_{-0.063} \quad (-0.0\sigma)$	$100\theta_{s,\text{eq}}$	0.4461	$0.447^{+0.017}_{-0.016} \quad (-0.1\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 7471.42$; $\Delta\chi_{\text{eff}}^2 = 6292.16$; $\bar{\chi}_{\text{eff}}^2 = 7492.17$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.99$; $R - 1 = 0.00609$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.70 (Δ -0.16) commander_dx12.v3.2.29: 24.43 (Δ -0.06) CamSpec like_10.7HM: 7049.22

7.14 base_nnu_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02202^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.458^{+0.024}_{-0.023} \quad (+0.0\sigma)$	$H(0.15)$	$71.3^{+5.7}_{-5.4} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.118^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.607^{+0.022}_{-0.022} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$658^{+56}_{-52} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.028} \quad (+0.1\sigma)$	$H(0.38)$	$81.5^{+5.6}_{-5.3} \quad (-0.2\sigma)$
τ	$0.051^{+0.022}_{-0.021} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$98.0^{+4.8}_{-4.5} \quad (-0.2\sigma)$	$D_{\text{M}}(0.38)$	$1565^{+120}_{-110} \quad (+0.2\sigma)$
N_{eff}	$2.89^{+0.75}_{-0.73} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.081}_{-0.083} \quad (+0.1\sigma)$	$H(0.51)$	$88.2^{+5.6}_{-5.4} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.031^{+0.055}_{-0.054} \quad (-0.2\sigma)$	z_{re}	$7.4^{+2.2}_{-2.4} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$2025^{+150}_{-140} \quad (+0.2\sigma)$
n_{s}	$0.958^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$10^9 A_{\text{s}}$	$2.07^{+0.12}_{-0.11} \quad (-0.2\sigma)$	$H(0.61)$	$93.9^{+5.6}_{-5.4} \quad (-0.2\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.869^{+0.056}_{-0.065} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2355^{+170}_{-160} \quad (+0.2\sigma)$
A_{100}^{PS}	$239^{+70}_{-60} \quad (-0.8\sigma)$	D_{40}	$1237^{+48}_{-49} \quad (+0.0\sigma)$	$H(2.33)$	$234.5^{+9.4}_{-9.6} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5705^{+100}_{-110} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5848^{+340}_{-320} \quad (+0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2532^{+37}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.034}_{-0.034} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.7\sigma)$	D_{2000}	$230.4^{+5.8}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\text{s},0.002}$	$0.958^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.033}_{-0.033} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.243^{+0.010}_{-0.011} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.017} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.244^{+0.010}_{-0.011} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.613^{+0.032}_{-0.031} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.60^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$	Age/Gyr	$14.00^{+0.82}_{-0.75} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.583^{+0.031}_{-0.030} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	z_*	$1090.0^{+1.2}_{-1.2} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.017}_{-0.016} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$146.0^{+7.2}_{-6.5} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.018}_{-0.018} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.0414^{+0.0018}_{-0.0018} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.02^{+0.67}_{-0.61} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.8^{+6.3}_{-6.2} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1058.9^{+2.8}_{-2.9} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (-0.4\sigma)$
H_0	$65.9^{+5.8}_{-5.5} \quad (-0.2\sigma)$	r_{drag}	$148.8^{+7.6}_{-6.8} \quad (+0.2\sigma)$	χ_{lensing}^2	$9.33 \quad (\nu: 0.5) \quad (-0.0\sigma)$
Ω_{Λ}	$0.675^{+0.038}_{-0.041} \quad (-0.2\sigma)$	k_{D}	$0.1394^{+0.0049}_{-0.0050} \quad (-0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (+0.0\sigma)$
Ω_{m}	$0.325^{+0.041}_{-0.038} \quad (+0.2\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0017}_{-0.0017} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.5 \quad (\nu: 2.1) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.141^{+0.011}_{-0.011} \quad (-0.2\sigma)$	z_{eq}	$3425^{+130}_{-140} \quad (+0.2\sigma)$	χ_{CamSpec}^2	$7062.7 \quad (\nu: 14.4)$
$\Omega_{\text{m}} h^3$	$0.093^{+0.015}_{-0.014} \quad (-0.2\sigma)$	k_{eq}	$0.01034^{+0.00036}_{-0.00034} \quad (-0.1\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.8) \quad (+0.1\sigma)$
σ_8	$0.804^{+0.035}_{-0.034} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.808^{+0.026}_{-0.024} \quad (-0.2\sigma)$	χ_{CMB}^2	$7493.4 \quad (\nu: 15.5) \quad (+1118.1\sigma)$
S_8	$0.836^{+0.043}_{-0.043} \quad (+0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.447^{+0.013}_{-0.012} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 7500.99; \Delta \bar{\chi}_{\text{eff}}^2 = 6292.01; R - 1 = 0.00870$$

7.15 base_nnu_CamSpecHM_TT_lowl_lowE_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02203^{+0.00069}_{-0.00068} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.609^{+0.029}_{-0.030} \quad (-0.1\sigma)$	$H(0.38)$	$81.8^{+4.2}_{-3.9} \quad (-0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1192^{+0.0079}_{-0.0075} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.993^{+0.040}_{-0.042} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1559^{+94}_{-91} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0410^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	$r_{\text{drag}} h$	$98.0^{+5.1}_{-4.9} \quad (+0.0\sigma)$	$H(0.51)$	$88.6^{+4.0}_{-3.8} \quad (-0.1\sigma)$
τ	$0.051^{+0.022}_{-0.021} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$D_{\text{M}}(0.51)$	$2017^{+120}_{-110} \quad (+0.1\sigma)$
N_{eff}	$2.94^{+0.50}_{-0.48} \quad (-0.1\sigma)$	z_{re}	$7.4^{+2.1}_{-2.3} \quad (+0.0\sigma)$	$H(0.61)$	$94.2^{+4.0}_{-3.8} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.033^{+0.049}_{-0.050} \quad (-0.1\sigma)$	$10^9 A_{\text{s}}$	$2.08^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2346^{+130}_{-130} \quad (+0.1\sigma)$
n_{s}	$0.959^{+0.027}_{-0.026} \quad (+0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.874^{+0.047}_{-0.046} \quad (-0.3\sigma)$	$H(2.33)$	$235.3^{+6.7}_{-6.4} \quad (-0.1\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1236^{+48}_{-48} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$5826^{+230}_{-230} \quad (+0.1\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5701^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.031}_{-0.031} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2532^{+35}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.027}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.023}_{-0.025} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.0^{+4.9}_{-4.9} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.025}_{-0.024} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.7\sigma)$	$n_{\text{s},0.002}$	$0.959^{+0.027}_{-0.026} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.020}_{-0.021} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.2438^{+0.0069}_{-0.0069} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.024}_{-0.023} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2451^{+0.0069}_{-0.0069} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.018}_{-0.019} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.61^{+0.13}_{-0.12} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.023}_{-0.022} \quad (-0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.94^{+0.54}_{-0.53} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	r_*	$145.5^{+4.5}_{-4.4} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.1^{+5.6}_{-5.5} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.97^{+0.42}_{-0.41} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.0^{+2.1}_{-2.2} \quad (-0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.2) \quad (+0.0\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0039} \quad (+4.7\sigma)$	r_{drag}	$148.3^{+4.7}_{-4.6} \quad (+0.1\sigma)$	χ_{lowl}^2	$24.3 \quad (\nu: 1.8) \quad (-0.1\sigma)$
H_0	$66.1^{+4.8}_{-4.4} \quad (-0.1\sigma)$	k_{D}	$0.1398^{+0.0035}_{-0.0034} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$7062.8 \quad (\nu: 14.8)$
Ω_{Λ}	$0.675^{+0.040}_{-0.044} \quad (-0.0\sigma)$	$100\theta_{\text{D}}$	$0.1608^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	χ_{Aver15}^2	$0.45 \quad (\nu: 0.2) \quad (+0.0\sigma)$
Ω_{m}	$0.325^{+0.044}_{-0.040} \quad (+0.0\sigma)$	z_{eq}	$3426^{+150}_{-150} \quad (+0.0\sigma)$	χ_{Cooke17}^2	$0.28 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^2$	$0.1419^{+0.0082}_{-0.0077} \quad (-0.1\sigma)$	k_{eq}	$0.01038^{+0.00040}_{-0.00038} \quad (-0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.7) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^3$	$0.0938^{+0.010}_{-0.0093} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.808^{+0.028}_{-0.027} \quad (-0.0\sigma)$	χ_{CMB}^2	$7484.0 \quad (\nu: 14.7) \quad (+1165.6\sigma)$
σ_8	$0.807^{+0.029}_{-0.028} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.447^{+0.014}_{-0.014} \quad (-0.0\sigma)$	χ_{Abund}^2	$0.73 \quad (\nu: 0.4) \quad (+0.0\sigma)$
S_8	$0.840^{+0.064}_{-0.062} \quad (-0.1\sigma)$	$H(0.15)$	$71.5^{+4.5}_{-4.2} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.460^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$655^{+44}_{-42} \quad (+0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 7492.26$; $\Delta \bar{\chi}_{\text{eff}}^2 = 6292.06$; $R - 1 = 0.00836$

7.16 base_nnu_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02206^{+0.00080}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.036}_{-0.035} \quad (-0.0\sigma)$	$H(0.15)$	$71.7^{+6.1}_{-5.7} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.119^{+0.011}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$653^{+59}_{-55} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.993^{+0.042}_{-0.042} \quad (-0.1\sigma)$	$H(0.38)$	$82.0^{+5.9}_{-5.5} \quad (-0.2\sigma)$
τ	$0.053^{+0.019}_{-0.012} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.2^{+5.8}_{-5.5} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1555^{+130}_{-120} \quad (+0.2\sigma)$
N_{eff}	$2.96^{+0.77}_{-0.71} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.12}_{-0.12} \quad (-0.0\sigma)$	$H(0.51)$	$88.7^{+5.8}_{-5.4} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.052}_{-0.044} \quad (-0.2\sigma)$	z_{re}	$< 9.40 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$2013^{+160}_{-150} \quad (+0.2\sigma)$
n_{s}	$0.960^{+0.034}_{-0.034} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.089} \quad (-0.2\sigma)$	$H(0.61)$	$94.4^{+5.8}_{-5.5} \quad (-0.2\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.059}_{-0.063} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2340^{+180}_{-170} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1234^{+57}_{-57} \quad (-0.1\sigma)$	$H(2.33)$	$235.5^{+9.8}_{-9.5} \quad (-0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5702^{+110}_{-110} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5817^{+340}_{-320} \quad (+0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2532^{+37}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.032}_{-0.032} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.034}_{-0.034} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.6\sigma)$	D_{2000}	$230.0^{+5.9}_{-6.0} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.025}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.034}_{-0.034} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.032}_{-0.031} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.244^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.022}_{-0.022} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.031}_{-0.030} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.20}_{-0.18} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.021}_{-0.020} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.92^{+0.80}_{-0.76} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.030}_{-0.029} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	z_*	$1090.2^{+1.4}_{-1.3} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.016}_{-0.015} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$145.3^{+6.8}_{-6.6} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.018}_{-0.017} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	$100\theta_*$	$1.0412^{+0.0019}_{-0.0019} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+10}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.64}_{-0.61} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.1^{+6.5}_{-6.4} \quad (-0.4\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.1^{+2.8}_{-2.9} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (-0.4\sigma)$
H_0	$66.4^{+6.4}_{-5.9} \quad (-0.1\sigma)$	r_{drag}	$148.1^{+7.1}_{-6.9} \quad (+0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (+0.0\sigma)$
Ω_{Λ}	$0.677^{+0.045}_{-0.050} \quad (-0.1\sigma)$	k_{D}	$0.1399^{+0.0050}_{-0.0049} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.3 \quad (\nu: 2.5) \quad (+0.0\sigma)$
Ω_{m}	$0.323^{+0.050}_{-0.045} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0018}_{-0.0017} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.2 \quad (\nu: 16.5)$
$\Omega_{\mathrm{m}} h^2$	$0.142^{+0.012}_{-0.011} \quad (-0.2\sigma)$	z_{eq}	$3420^{+170}_{-170} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.094^{+0.015}_{-0.013} \quad (-0.2\sigma)$	k_{eq}	$0.01037^{+0.00044}_{-0.00041} \quad (-0.2\sigma)$	χ_{CMB}^2	$7484.3 \quad (\nu: 15.2) \quad (+1137.6\sigma)$
σ_8	$0.809^{+0.036}_{-0.035} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.033}_{-0.030} \quad (-0.1\sigma)$		
S_8	$0.839^{+0.065}_{-0.063} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.016}_{-0.015} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7491.86; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.93; R - 1 = 0.00538$$

7.17 base_nnu_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02205^{+0.00074}_{-0.00075} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.024}_{-0.023} \quad (+0.0\sigma)$	$H(0.15)$	$71.5^{+5.6}_{-5.2} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.118^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.021}_{-0.022} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$655^{+54}_{-51} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.991^{+0.027}_{-0.028} \quad (+0.0\sigma)$	$H(0.38)$	$81.7^{+5.6}_{-5.2} \quad (-0.2\sigma)$
τ	$0.053^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.3^{+4.7}_{-4.2} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1560^{+120}_{-110} \quad (+0.2\sigma)$
N_{eff}	$2.91^{+0.74}_{-0.71} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.456^{+0.081}_{-0.082} \quad (+0.1\sigma)$	$H(0.51)$	$88.4^{+5.6}_{-5.3} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.035^{+0.052}_{-0.046} \quad (-0.2\sigma)$	z_{re}	$< 9.35 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$2019^{+150}_{-140} \quad (+0.2\sigma)$
n_{s}	$0.959^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.08^{+0.11}_{-0.095} \quad (-0.2\sigma)$	$H(0.61)$	$94.1^{+5.6}_{-5.4} \quad (-0.2\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.056}_{-0.065} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2348^{+170}_{-160} \quad (+0.2\sigma)$
A_{100}^{PS}	$239^{+70}_{-60} \quad (-0.8\sigma)$	D_{40}	$1236^{+48}_{-48} \quad (-0.0\sigma)$	$H(2.33)$	$234.6^{+9.4}_{-9.5} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5705^{+100}_{-110} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5837^{+340}_{-310} \quad (+0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2532^{+37}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.033}_{-0.033} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.94 \quad (-0.6\sigma)$	D_{2000}	$230.4^{+5.8}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.032}_{-0.032} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.243^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.017} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.031}_{-0.031} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.017} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.97^{+0.80}_{-0.74} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.030}_{-0.030} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	z_*	$1090.0^{+1.2}_{-1.2} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.016}_{-0.016} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$145.9^{+7.1}_{-6.4} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.018}_{-0.018} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0414^{+0.0019}_{-0.0018} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.01^{+0.66}_{-0.60} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.8^{+6.3}_{-6.2} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.6\sigma)$	z_{drag}	$1058.9^{+2.7}_{-2.8} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (-0.4\sigma)$
H_0	$66.1^{+5.7}_{-5.3} \quad (-0.2\sigma)$	r_{drag}	$148.7^{+7.4}_{-6.7} \quad (+0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.34 \quad (\nu: 0.5) \quad (-0.0\sigma)$
Ω_{Λ}	$0.677^{+0.037}_{-0.038} \quad (-0.2\sigma)$	k_{D}	$0.1395^{+0.0049}_{-0.0049} \quad (-0.2\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.3) \quad (+0.0\sigma)$
Ω_{m}	$0.323^{+0.038}_{-0.037} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0017}_{-0.0017} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.3 \quad (\nu: 1.9) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.141^{+0.011}_{-0.011} \quad (-0.2\sigma)$	z_{eq}	$3418^{+130}_{-130} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.7 \quad (\nu: 14.4)$
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.015}_{-0.013} \quad (-0.2\sigma)$	k_{eq}	$0.01033^{+0.00035}_{-0.00034} \quad (-0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
σ_8	$0.806^{+0.034}_{-0.034} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.026}_{-0.023} \quad (-0.2\sigma)$	χ_{CMB}^2	$7493.2 \quad (\nu: 15.0) \quad (+1126.7\sigma)$
S_8	$0.835^{+0.043}_{-0.042} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.013}_{-0.012} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7500.70; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.97; R - 1 = 0.00702$$

7.18 base_nnu_CamSpecHM_TT_lowl_lowE_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02205^{+0.00069}_{-0.00069} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.029}_{-0.029} \quad (-0.1\sigma)$	$H(0.38)$	$81.9^{+4.2}_{-3.9} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0079}_{-0.0075} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.040}_{-0.041} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1557^{+93}_{-90} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$98.1^{+5.1}_{-4.9} \quad (+0.0\sigma)$	$H(0.51)$	$88.6^{+4.0}_{-3.8} \quad (-0.1\sigma)$
τ	$0.053^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2014^{+110}_{-110} \quad (+0.1\sigma)$
N_{eff}	$2.95^{+0.50}_{-0.47} \quad (-0.1\sigma)$	z_{re}	$< 9.31 \quad (+0.0\sigma)$	$H(0.61)$	$94.3^{+4.0}_{-3.7} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.037^{+0.045}_{-0.035} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.085^{+0.097}_{-0.072} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2342^{+130}_{-120} \quad (+0.1\sigma)$
n_{s}	$0.960^{+0.026}_{-0.025} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.048}_{-0.046} \quad (-0.3\sigma)$	$H(2.33)$	$235.4^{+6.6}_{-6.5} \quad (-0.1\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1235^{+48}_{-48} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5820^{+230}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5701^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.464^{+0.031}_{-0.031} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2532^{+36}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.026}_{-0.024} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.023}_{-0.024} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.1^{+4.9}_{-4.8} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.024}_{-0.022} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.91 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.960^{+0.026}_{-0.025} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.020}_{-0.020} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.2439^{+0.0068}_{-0.0068} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.023}_{-0.021} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2452^{+0.0068}_{-0.0068} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.018}_{-0.018} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.13}_{-0.12} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.022}_{-0.020} \quad (-0.1\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.93^{+0.54}_{-0.53} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.011} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.013}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	r_*	$145.4^{+4.5}_{-4.4} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.1^{+5.6}_{-5.4} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.42}_{-0.41} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.1^{+2.1}_{-2.2} \quad (-0.1\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.2) \quad (+0.0\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0039} \quad (+4.7\sigma)$	r_{drag}	$148.2^{+4.7}_{-4.6} \quad (+0.1\sigma)$	χ_{lowl}^2	$24.2 \quad (\nu: 1.7) \quad (-0.1\sigma)$
H_0	$66.2^{+4.7}_{-4.5} \quad (-0.0\sigma)$	k_{D}	$0.1399^{+0.0034}_{-0.0034} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.7 \quad (\nu: 14.7)$
Ω_{Λ}	$0.676^{+0.040}_{-0.043} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	χ_{Aver15}^2	$0.45 \quad (\nu: 0.2) \quad (+0.0\sigma)$
Ω_{m}	$0.324^{+0.043}_{-0.040} \quad (-0.0\sigma)$	z_{eq}	$3422^{+150}_{-150} \quad (-0.0\sigma)$	$\chi_{\mathrm{Cooke17}}^2$	$0.28 \quad (\nu: 0.1) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0082}_{-0.0077} \quad (-0.1\sigma)$	k_{eq}	$0.01037^{+0.00039}_{-0.00038} \quad (-0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0940^{+0.010}_{-0.0092} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.809^{+0.028}_{-0.027} \quad (+0.0\sigma)$	χ_{CMB}^2	$7483.7 \quad (\nu: 14.1) \quad (+1179.4\sigma)$
σ_8	$0.808^{+0.029}_{-0.026} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.447^{+0.014}_{-0.014} \quad (+0.0\sigma)$	χ_{Abund}^2	$0.73 \quad (\nu: 0.4) \quad (+0.0\sigma)$
S_8	$0.840^{+0.063}_{-0.061} \quad (-0.1\sigma)$	$H(0.15)$	$71.6^{+4.5}_{-4.2} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.035}_{-0.033} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$654^{+43}_{-41} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7491.99$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.11$; $R - 1 = 0.00722$

7.19 base_nnu_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02220^{+0.00059}_{-0.00056} \quad (-0.2\sigma)$	σ_8	0.8020	$0.803^{+0.031}_{-0.032} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	0.8118	$0.812^{+0.020}_{-0.019} \quad (+0.4\sigma)$
$\Omega_c h^2$	0.1174	$0.1179^{+0.0087}_{-0.0084} \quad (-0.2\sigma)$	S_8	0.8267	$0.826^{+0.043}_{-0.041} \quad (-0.4\sigma)$	$100\theta_{\text{s,eq}}$	0.4487	$0.449^{+0.010}_{-0.0097} \quad (+0.4\sigma)$
$100\theta_{\text{MC}}$	1.04112	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4528	$0.453^{+0.024}_{-0.023} \quad (-0.4\sigma)$	$H(0.15)$	71.61	$71.8^{+4.3}_{-4.1} \quad (+0.1\sigma)$
τ	0.0527	$0.052^{+0.022}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6026	$0.603^{+0.023}_{-0.024} \quad (-0.4\sigma)$	$D_{\text{M}}(0.15)$	653.2	$651^{+42}_{-39} \quad (-0.1\sigma)$
N_{eff}	2.89	$2.92^{+0.58}_{-0.56} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9848	$0.984^{+0.031}_{-0.031} \quad (-0.5\sigma)$	$H(0.38)$	81.74	$82.0^{+4.2}_{-4.1} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.032	$3.032^{+0.051}_{-0.053} \quad (-0.3\sigma)$	$r_{\text{drag}} h$	98.70	$98.8^{+3.7}_{-3.4} \quad (+0.3\sigma)$	$D_{\text{M}}(0.38)$	1556	$1552^{+92}_{-86} \quad (-0.1\sigma)$
n_{s}	0.9607	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.440^{+0.081}_{-0.078} \quad (-0.5\sigma)$	$H(0.51)$	88.45	$88.7^{+4.3}_{-4.2} \quad (+0.0\sigma)$
y_{cal}	1.0002	$1.0005^{+0.0064}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	7.50	$7.4^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$D_{\text{M}}(0.51)$	2015	$2009^{+120}_{-110} \quad (-0.1\sigma)$
A_{100}^{PS}	230	$236^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}$	2.074	$2.07^{+0.11}_{-0.11} \quad (-0.3\sigma)$	$H(0.61)$	94.07	$94.3^{+4.3}_{-4.2} \quad (+0.0\sigma)$
A_{143}^{PS}	42.7	$38^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.867	$1.869^{+0.049}_{-0.052} \quad (-0.4\sigma)$	$D_{\text{M}}(0.61)$	2343	$2337^{+130}_{-120} \quad (-0.1\sigma)$
A_{217}^{PS}	105.0	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1230.9	$1231^{+42}_{-42} \quad (-0.5\sigma)$	$H(2.33)$	234.1	$234.6^{+7.7}_{-7.7} \quad (-0.1\sigma)$
A_{217}^{CIB}	41.1	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5712	$5715^{+100}_{-100} \quad (-0.5\sigma)$	$D_{\text{M}}(2.33)$	5836	$5823^{+260}_{-250} \quad (+0.0\sigma)$
A_{143}^{tSZ}	5.90	$< 8.89 \quad (-0.8\sigma)$	D_{810}	2532.6	$2533^{+35}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4568	$0.457^{+0.022}_{-0.021} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.687	$0.66^{+0.31}_{-0.34}$	D_{1420}	816.9	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7404	$0.741^{+0.030}_{-0.030} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.75	—	D_{2000}	231.3	$230.9^{+5.4}_{-5.4} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4733	$0.473^{+0.019}_{-0.019} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.51	—	$n_{\text{s},0.002}$	0.9607	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	0.6555	$0.656^{+0.028}_{-0.028} \quad (-0.2\sigma)$
A^{kSZ}	0.8	—	Y_{P}	0.2431	$0.2436^{+0.0079}_{-0.0081} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	0.4711	$0.471^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	0.2445	$0.2449^{+0.0079}_{-0.0082} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	0.6132	$0.614^{+0.027}_{-0.027} \quad (-0.2\sigma)$
A_{143}^{dust}	0.973	$0.96^{+0.45}_{-0.46}$	10^5D/H	2.566	$2.57^{+0.15}_{-0.14} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4656	$0.466^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{dust}	0.979	$0.98^{+0.27}_{-0.27}$	Age/Gyr	13.97	$13.94^{+0.62}_{-0.58} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5832	$0.584^{+0.026}_{-0.026} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.011	$1.02^{+0.41}_{-0.41}$	z_*	1089.77	$1089.8^{+1.0}_{-1.0} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2938	$0.294^{+0.014}_{-0.013} \quad (-0.2\sigma)$
c_{100}	0.99769	$0.9975^{+0.0028}_{-0.0027} \quad (-3.6\sigma)$	r_*	146.1	$145.8^{+5.6}_{-5.3} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3026	$0.303^{+0.015}_{-0.014} \quad (-0.1\sigma)$
c_{217}	1.00117	$1.0011^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_*$	1.04143	$1.0414^{+0.0016}_{-0.0014} \quad (-0.0\sigma)$	f_{2000}^{143}	28.5	$29^{+9}_{-9} \quad (+0.0\sigma)$
c_{TE}	0.9956	$0.996^{+0.014}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.03	$14.00^{+0.52}_{-0.49} \quad (+0.1\sigma)$	f_{2000}^{217}	105.8	$106.2^{+5.9}_{-5.6} \quad (-0.1\sigma)$
c_{EE}	0.9902	$0.991^{+0.015}_{-0.015}$	z_{drag}	1059.17	$1059.3^{+2.2}_{-2.2} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	31.1	$31^{+6}_{-6} \quad (-0.1\sigma)$
H_0	66.32	$66.5^{+4.3}_{-4.3} \quad (+0.1\sigma)$	r_{drag}	148.8	$148.5^{+5.8}_{-5.5} \quad (+0.1\sigma)$	χ_{small}^2	395.87	$396.8 \quad (\nu: 1.3) \quad (-0.1\sigma)$
Ω_{Λ}	0.6813	$0.682^{+0.029}_{-0.030} \quad (+0.3\sigma)$	k_{D}	0.13951	$0.1397^{+0.0039}_{-0.0040} \quad (-0.2\sigma)$	χ_{lowl}^2	23.68	$23.8 \quad (\nu: 1.1) \quad (-0.4\sigma)$
Ω_{m}	0.3187	$0.318^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$100\theta_{\text{D}}$	0.16053	$0.1606^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	χ_{CamSpec}^2	11498.6	$11514.5 \quad (\nu: 17.2)$
$\Omega_{\text{m}} h^2$	0.1402	$0.1407^{+0.0090}_{-0.0088} \quad (-0.2\sigma)$	z_{eq}	3408	$3405^{+100}_{-100} \quad (-0.4\sigma)$	χ_{prior}^2	2.1	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	0.0930	$0.094^{+0.012}_{-0.011} \quad (-0.0\sigma)$	k_{eq}	0.010288	$0.01030^{+0.00032}_{-0.00032} \quad (-0.4\sigma)$	χ_{CMB}^2	11918.2	$11935.2 \quad (\nu: 17.3) \quad (+1532.7\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11920.27$; $\Delta\chi_{\text{eff}}^2 = 9155.55$; $\bar{\chi}_{\text{eff}}^2 = 11943.05$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.95$; $R - 1 = 0.00888$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ -0.16) commander_dx12.v3.2.29: 23.68 (Δ -0.73) CamSpec like_10.7HM.1400.unified: 11498.65

7.20 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00059}_{-0.00057} \quad (-0.3\sigma)$	S_8	$0.828^{+0.032}_{-0.033} \quad (-0.2\sigma)$	$H(0.15)$	$71.5^{+4.3}_{-4.0} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1175^{+0.0085}_{-0.0081} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$654^{+40}_{-38} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.38)$	$81.7^{+4.2}_{-4.0} \quad (-0.1\sigma)$
τ	$0.053^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.024}_{-0.024} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1558^{+90}_{-87} \quad (+0.1\sigma)$
N_{eff}	$2.88^{+0.57}_{-0.55} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.6^{+3.3}_{-3.1} \quad (+0.1\sigma)$	$H(0.51)$	$88.4^{+4.2}_{-4.1} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.047}_{-0.047} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.065}_{-0.064} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$2017^{+110}_{-110} \quad (+0.1\sigma)$
n_{s}	$0.960^{+0.024}_{-0.024} \quad (+0.1\sigma)$	z_{re}	$7.5^{+2.0}_{-2.1} \quad (-0.0\sigma)$	$H(0.61)$	$94.0^{+4.2}_{-4.2} \quad (-0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0061} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.075^{+0.099}_{-0.095} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2346^{+130}_{-120} \quad (+0.1\sigma)$
A_{100}^{PS}	$236^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.868^{+0.050}_{-0.051} \quad (-0.3\sigma)$	$H(2.33)$	$234.1^{+7.6}_{-7.6} \quad (-0.2\sigma)$
A_{143}^{PS}	$37^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1235^{+39}_{-39} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5840^{+260}_{-250} \quad (+0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{220}	$5718^{+100}_{-100} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2533^{+35}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.028}_{-0.028} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.8\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.360	D_{2000}	$231.2^{+5.3}_{-5.3} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.027}_{-0.026} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.960^{+0.024}_{-0.024} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2431^{+0.0078}_{-0.0081} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.613^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2444^{+0.0078}_{-0.0081} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.00^{+0.50}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.57^{+0.14}_{-0.14} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.583^{+0.025}_{-0.024} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.98^{+0.62}_{-0.58} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.79^{+0.98}_{-0.96} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.41}$	r_*	$146.1^{+5.6}_{-5.2} \quad (+0.1\sigma)$	f_{2000}^{143}	$28^{+9}_{-9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.0414^{+0.0016}_{-0.0014} \quad (-0.0\sigma)$	f_{2000}^{217}	$106.1^{+5.7}_{-5.3} \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0043} \quad (+4.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.03^{+0.51}_{-0.48} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	z_{drag}	$1059.1^{+2.2}_{-2.2} \quad (-0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.08 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{EE}	$0.990^{+0.015}_{-0.014}$	r_{drag}	$148.9^{+5.8}_{-5.4} \quad (+0.1\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.1) \quad (-0.0\sigma)$
H_0	$66.2^{+4.3}_{-4.1} \quad (-0.0\sigma)$	k_{D}	$0.1395^{+0.0039}_{-0.0040} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{Λ}	$0.680^{+0.027}_{-0.027} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1605^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.8 \quad (\nu: 16.5)$
Ω_{m}	$0.320^{+0.027}_{-0.027} \quad (-0.1\sigma)$	z_{eq}	$3412^{+95}_{-95} \quad (-0.2\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1403^{+0.0088}_{-0.0085} \quad (-0.2\sigma)$	k_{eq}	$0.01030^{+0.00030}_{-0.00029} \quad (-0.3\sigma)$	χ_{CMB}^2	$11943.8 \quad (\nu: 17.7) \quad (+1537.6\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.011}_{-0.011} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.019}_{-0.017} \quad (+0.2\sigma)$		
σ_8	$0.802^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4484^{+0.0094}_{-0.0088} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11951.65; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.78; R - 1 = 0.01144$$

7.21 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02220^{+0.00053}_{-0.00051} \quad (-0.3\sigma)$	S_8	$0.827^{+0.042}_{-0.041} \quad (-0.5\sigma)$	$H(0.15)$	$72.0^{+3.4}_{-3.2} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1183^{+0.0068}_{-0.0065} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.023}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.15)$	$650^{+32}_{-31} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0410^{+0.0011}_{-0.0010} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.022}_{-0.022} \quad (-0.5\sigma)$	$H(0.38)$	$82.1^{+3.3}_{-3.1} \quad (+0.1\sigma)$
τ	$0.052^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.031}_{-0.031} \quad (-0.5\sigma)$	$D_M(0.38)$	$1549^{+70}_{-68} \quad (-0.1\sigma)$
N_{eff}	$2.95^{+0.43}_{-0.41} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$98.8^{+3.5}_{-3.2} \quad (+0.3\sigma)$	$H(0.51)$	$88.8^{+3.3}_{-3.1} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.033^{+0.047}_{-0.049} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.079}_{-0.078} \quad (-0.5\sigma)$	$D_M(0.51)$	$2005^{+88}_{-85} \quad (-0.1\sigma)$
n_s	$0.962^{+0.021}_{-0.020} \quad (+0.2\sigma)$	z_{re}	$7.4^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	$94.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s$	$2.08^{+0.10}_{-0.099} \quad (-0.3\sigma)$	$D_M(0.61)$	$2333^{+99}_{-96} \quad (-0.1\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.042}_{-0.041} \quad (-0.4\sigma)$	$H(2.33)$	$234.9^{+6.0}_{-5.8} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1230^{+40}_{-40} \quad (-0.5\sigma)$	$D_M(2.33)$	$5813^{+190}_{-190} \quad (+0.0\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.022}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2533^{+34}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.025}_{-0.024} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.018}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.7^{+4.8}_{-4.6} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.657^{+0.023}_{-0.022} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{s,0.002}$	$0.962^{+0.021}_{-0.020} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P	$0.2439^{+0.0059}_{-0.0059} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.022}_{-0.021} \quad (-0.3\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.2453^{+0.0059}_{-0.0059} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.016}_{-0.016} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.00^{+0.50}_{-0.50}$	10^5D/H	$2.58^{+0.11}_{-0.11} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.46}$	Age/Gyr	$13.91^{+0.45}_{-0.45} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.011}_{-0.011} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.27}$	z_*	$1089.89^{+0.83}_{-0.84} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.012}_{-0.012} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.41}$	r_*	$145.5^{+4.1}_{-4.0} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.0413^{+0.0013}_{-0.0012} \quad (-0.0\sigma)$	f_{2000}^{217}	$106.4^{+5.2}_{-5.4} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0043} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.98^{+0.38}_{-0.37} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.3^{+1.8}_{-1.8} \quad (-0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.0\sigma)$
c_{EE}	$0.991^{+0.014}_{-0.013}$	r_{drag}	$148.3^{+4.2}_{-4.1} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.7 \quad (\nu: 0.9) \quad (-0.4\sigma)$
H_0	$66.7^{+3.5}_{-3.3} \quad (+0.1\sigma)$	k_D	$0.1399^{+0.0031}_{-0.0030} \quad (-0.2\sigma)$	χ_{CamSpec}^2	$11514.2 \quad (\nu: 17.0)$
Ω_Λ	$0.682^{+0.027}_{-0.027} \quad (+0.3\sigma)$	$100\theta_D$	$0.16068^{+0.00099}_{-0.00099} \quad (+0.3\sigma)$	χ_{Aver15}^2	$0.35 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_m	$0.318^{+0.027}_{-0.027} \quad (-0.3\sigma)$	z_{eq}	$3404^{+95}_{-97} \quad (-0.4\sigma)$	χ_{Cooke17}^2	$0.35 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_m h^2$	$0.1411^{+0.0070}_{-0.0067} \quad (-0.2\sigma)$	k_{eq}	$0.01032^{+0.00029}_{-0.00028} \quad (-0.4\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^3$	$0.0941^{+0.0087}_{-0.0080} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.813^{+0.019}_{-0.017} \quad (+0.4\sigma)$	χ_{CMB}^2	$11934.7 \quad (\nu: 17.3) \quad (+1569.9\sigma)$
σ_8	$0.804^{+0.027}_{-0.026} \quad (-0.4\sigma)$	$100\theta_{s,\text{eq}}$	$0.4491^{+0.0095}_{-0.0089} \quad (+0.4\sigma)$	χ_{Abund}^2	$0.69 \quad (\nu: 0.3) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11943.28; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.70; R - 1 = 0.01315$$

7.22 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02221^{+0.00059}_{-0.00056} \quad (-0.2\sigma)$	σ_8	$0.804^{+0.030}_{-0.028} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.813^{+0.020}_{-0.019} \quad (+0.4\sigma)$
$\Omega_c h^2$	$0.1179^{+0.0086}_{-0.0084} \quad (-0.2\sigma)$	S_8	$0.827^{+0.043}_{-0.041} \quad (-0.4\sigma)$	$100\theta_{\text{s,eq}}$	$0.449^{+0.010}_{-0.0097} \quad (+0.4\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.453^{+0.024}_{-0.023} \quad (-0.4\sigma)$	$H(0.15)$	$71.9^{+4.2}_{-4.2} \quad (+0.1\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.023}_{-0.023} \quad (-0.4\sigma)$	$D_{\text{M}}(0.15)$	$651^{+42}_{-38} \quad (-0.1\sigma)$
N_{eff}	$2.93^{+0.58}_{-0.56} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.029} \quad (-0.4\sigma)$	$H(0.38)$	$82.1^{+4.2}_{-4.1} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.036^{+0.048}_{-0.038} \quad (-0.3\sigma)$	$r_{\text{drag}} h$	$98.9^{+3.7}_{-3.4} \quad (+0.3\sigma)$	$D_{\text{M}}(0.38)$	$1550^{+93}_{-85} \quad (-0.1\sigma)$
n_{s}	$0.962^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.080}_{-0.077} \quad (-0.5\sigma)$	$H(0.51)$	$88.8^{+4.2}_{-4.2} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	$< 9.36 \quad (-0.1\sigma)$	$D_{\text{M}}(0.51)$	$2007^{+120}_{-110} \quad (-0.1\sigma)$
A_{100}^{PS}	$236^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}$	$2.08^{+0.10}_{-0.079} \quad (-0.3\sigma)$	$H(0.61)$	$94.4^{+4.2}_{-4.2} \quad (+0.0\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.869^{+0.049}_{-0.052} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	$2335^{+130}_{-120} \quad (-0.1\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1231^{+42}_{-42} \quad (-0.5\sigma)$	$H(2.33)$	$234.6^{+7.7}_{-7.7} \quad (-0.1\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5715^{+100}_{-100} \quad (-0.5\sigma)$	$D_{\text{M}}(2.33)$	$5819^{+260}_{-240} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.9\sigma)$	D_{810}	$2533^{+36}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.022}_{-0.021} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.029}_{-0.027} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$230.9^{+5.5}_{-5.4} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.018}_{-0.018} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s},0.002}$	$0.962^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.027}_{-0.025} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_{P}	$0.2437^{+0.0078}_{-0.0081} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2450^{+0.0078}_{-0.0081} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.026}_{-0.024} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.47}$	$10^5 \text{D}/\text{H}$	$2.58^{+0.15}_{-0.14} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.28}$	Age/Gyr	$13.93^{+0.62}_{-0.58} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.025}_{-0.023} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.41}_{-0.41}$	z_*	$1089.8^{+1.0}_{-1.0} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.013}_{-0.012} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	r_*	$145.7^{+5.4}_{-5.2} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.014}_{-0.013} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_*$	$1.0414^{+0.0016}_{-0.0015} \quad (-0.0\sigma)$	f_{2000}^{143}	$29^{+9}_{-9} \quad (+0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.99^{+0.50}_{-0.49} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.2^{+5.9}_{-5.5} \quad (-0.2\sigma)$
c_{EE}	$0.991^{+0.015}_{-0.014}$	z_{drag}	$1059.3^{+2.2}_{-2.2} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
H_0	$66.6^{+4.3}_{-4.3} \quad (+0.1\sigma)$	r_{drag}	$148.5^{+5.7}_{-5.5} \quad (+0.1\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.3) \quad (-0.1\sigma)$
Ω_{Λ}	$0.682^{+0.028}_{-0.030} \quad (+0.3\sigma)$	k_{D}	$0.1398^{+0.0039}_{-0.0039} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.7 \quad (\nu: 1.1) \quad (-0.4\sigma)$
Ω_{m}	$0.318^{+0.030}_{-0.028} \quad (-0.3\sigma)$	$100\theta_{\text{D}}$	$0.1606^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	χ_{CamSpec}^2	$11514.4 \quad (\nu: 17.2)$
$\Omega_{\text{m}} h^2$	$0.1408^{+0.0090}_{-0.0087} \quad (-0.2\sigma)$	z_{eq}	$3403^{+100}_{-100} \quad (-0.4\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.094^{+0.012}_{-0.011} \quad (-0.0\sigma)$	k_{eq}	$0.01030^{+0.00032}_{-0.00032} \quad (-0.4\sigma)$	χ_{CMB}^2	$11934.9 \quad (\nu: 17.1) \quad (+1545.8\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11942.78; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.97; R - 1 = 0.01065$$

7.23 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02218^{+0.00059}_{-0.00057} \quad (-0.3\sigma)$	S_8	$0.828^{+0.032}_{-0.033} \quad (-0.2\sigma)$	$H(0.15)$	$71.6^{+4.2}_{-4.1} \quad (-0.0\sigma)$
$\Omega_c h^2$	$0.1175^{+0.0085}_{-0.0081} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.2\sigma)$	$D_M(0.15)$	$653^{+41}_{-39} \quad (+0.0\sigma)$
$100\theta_{MC}$	$1.0411^{+0.0013}_{-0.0011} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.38)$	$81.8^{+4.2}_{-4.0} \quad (-0.0\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.023}_{-0.023} \quad (-0.2\sigma)$	$D_M(0.38)$	$1556^{+91}_{-85} \quad (+0.0\sigma)$
N_{eff}	$2.89^{+0.57}_{-0.54} \quad (-0.0\sigma)$	$r_{\text{drag}} h$	$98.7^{+3.3}_{-3.1} \quad (+0.1\sigma)$	$H(0.51)$	$88.5^{+4.2}_{-4.0} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.035^{+0.045}_{-0.038} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.064}_{-0.064} \quad (-0.3\sigma)$	$D_M(0.51)$	$2015^{+110}_{-110} \quad (+0.0\sigma)$
n_s	$0.960^{+0.024}_{-0.023} \quad (+0.1\sigma)$	z_{re}	$< 9.29 \quad (-0.0\sigma)$	$H(0.61)$	$94.1^{+4.3}_{-4.0} \quad (-0.1\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_s$	$2.081^{+0.095}_{-0.078} \quad (-0.2\sigma)$	$D_M(0.61)$	$2344^{+130}_{-120} \quad (+0.0\sigma)$
A_{100}^{PS}	$236^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.868^{+0.050}_{-0.051} \quad (-0.3\sigma)$	$H(2.33)$	$234.2^{+7.6}_{-7.6} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1234^{+40}_{-38} \quad (-0.3\sigma)$	$D_M(2.33)$	$5836^{+250}_{-240} \quad (+0.1\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.1\sigma)$	D_{220}	$5718^{+100}_{-100} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.2\sigma)$
A_{217}^{CIB}	$38^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2533^{+35}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.027}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.356	D_{2000}	$231.2^{+5.3}_{-5.3} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.657^{+0.026}_{-0.024} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{s,0.002}$	$0.960^{+0.024}_{-0.023} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P	$0.2432^{+0.0077}_{-0.0078} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.025}_{-0.024} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.2445^{+0.0077}_{-0.0078} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.50}$	10^5D/H	$2.57^{+0.14}_{-0.14} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.584^{+0.024}_{-0.023} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.46}$	Age/Gyr	$13.97^{+0.60}_{-0.58} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.013}_{-0.012} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.79^{+0.97}_{-0.96} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.41}$	r_*	$146.1^{+5.4}_{-5.1} \quad (+0.1\sigma)$	f_{2000}^{143}	$28^{+9}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.0414^{+0.0016}_{-0.0014} \quad (-0.0\sigma)$	f_{2000}^{217}	$106.1^{+5.8}_{-5.3} \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0043} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	$14.03^{+0.51}_{-0.48} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	z_{drag}	$1059.2^{+2.2}_{-2.2} \quad (-0.2\sigma)$	χ_{lensing}^2	$9.05 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{EE}	$0.990^{+0.015}_{-0.014}$	r_{drag}	$148.8^{+5.7}_{-5.4} \quad (+0.1\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.2) \quad (-0.0\sigma)$
H_0	$66.3^{+4.3}_{-4.1} \quad (-0.0\sigma)$	k_D	$0.1396^{+0.0039}_{-0.0039} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.0 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_Λ	$0.681^{+0.027}_{-0.027} \quad (+0.1\sigma)$	$100\theta_D$	$0.1605^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	χ_{CamSpec}^2	$11513.8 \quad (\nu: 16.4)$
Ω_m	$0.319^{+0.027}_{-0.027} \quad (-0.1\sigma)$	z_{eq}	$3409^{+93}_{-95} \quad (-0.2\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1403^{+0.0088}_{-0.0086} \quad (-0.2\sigma)$	k_{eq}	$0.01029^{+0.00030}_{-0.00029} \quad (-0.3\sigma)$	χ_{CMB}^2	$11943.5 \quad (\nu: 17.3) \quad (+1548.4\sigma)$
$\Omega_m h^3$	$0.093^{+0.011}_{-0.010} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.812^{+0.019}_{-0.017} \quad (+0.2\sigma)$		
σ_8	$0.803^{+0.028}_{-0.026} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	$0.4486^{+0.0093}_{-0.0087} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11951.41; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.80; R - 1 = 0.01353$$

7.24 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02220^{+0.00052}_{-0.00051} \quad (-0.2\sigma)$	S_8	$0.828^{+0.042}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	$72.0^{+3.3}_{-3.2} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1183^{+0.0068}_{-0.0065} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.454^{+0.023}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.15)$	$650^{+32}_{-31} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.0410^{+0.0011}_{-0.00098} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	$82.2^{+3.3}_{-3.1} \quad (+0.1\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_M(0.38)$	$1548^{+70}_{-68} \quad (-0.1\sigma)$
N_{eff}	$2.95^{+0.43}_{-0.41} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$98.9^{+3.4}_{-3.2} \quad (+0.3\sigma)$	$H(0.51)$	$88.9^{+3.3}_{-3.1} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	$3.037^{+0.045}_{-0.035} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.077}_{-0.075} \quad (-0.5\sigma)$	$D_M(0.51)$	$2004^{+87}_{-84} \quad (-0.1\sigma)$
n_s	$0.962^{+0.020}_{-0.020} \quad (+0.3\sigma)$	z_{re}	$< 9.31 \quad (-0.1\sigma)$	$H(0.61)$	$94.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0061} \quad (-0.1\sigma)$	$10^9 A_s$	$2.084^{+0.095}_{-0.071} \quad (-0.3\sigma)$	$D_M(0.61)$	$2331^{+98}_{-95} \quad (-0.1\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	$1.871^{+0.042}_{-0.041} \quad (-0.4\sigma)$	$H(2.33)$	$235.0^{+6.1}_{-5.8} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1230^{+40}_{-39} \quad (-0.5\sigma)$	$D_M(2.33)$	$5810^{+190}_{-190} \quad (-0.0\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5713^{+100}_{-99} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2533^{+34}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.024}_{-0.022} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.7^{+4.8}_{-4.6} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.022}_{-0.020} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{s,0.002}$	$0.962^{+0.020}_{-0.020} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.016}_{-0.016} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_{P}	$0.2440^{+0.0058}_{-0.0059} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.021}_{-0.019} \quad (-0.2\sigma)$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2453^{+0.0058}_{-0.0059} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.015} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.50}$	10^5D/H	$2.58^{+0.11}_{-0.11} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.020}_{-0.018} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.47}$	Age/Gyr	$13.91^{+0.45}_{-0.44} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.011}_{-0.0096} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.89^{+0.83}_{-0.84} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.012}_{-0.010} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.41}$	r_*	$145.5^{+4.0}_{-4.0} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.0413^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.3}_{-5.4} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0043} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.97^{+0.37}_{-0.37} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	z_{drag}	$1059.4^{+1.8}_{-1.7} \quad (-0.2\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.3) \quad (-0.1\sigma)$
c_{EE}	$0.991^{+0.013}_{-0.013}$	r_{drag}	$148.2^{+4.2}_{-4.1} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.6 \quad (\nu: 0.9) \quad (-0.4\sigma)$
H_0	$66.7^{+3.5}_{-3.3} \quad (+0.2\sigma)$	k_{D}	$0.1399^{+0.0030}_{-0.0030} \quad (-0.2\sigma)$	χ_{CamSpec}^2	$11514.1 \quad (\nu: 17.0)$
Ω_Λ	$0.683^{+0.027}_{-0.027} \quad (+0.3\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0010}_{-0.00098} \quad (+0.3\sigma)$	χ_{Aver15}^2	$0.35 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.317^{+0.027}_{-0.027} \quad (-0.3\sigma)$	z_{eq}	$3402^{+95}_{-96} \quad (-0.5\sigma)$	χ_{Cooke17}^2	$0.35 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1412^{+0.0070}_{-0.0067} \quad (-0.2\sigma)$	k_{eq}	$0.01032^{+0.00029}_{-0.00028} \quad (-0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.0942^{+0.0087}_{-0.0079} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.813^{+0.019}_{-0.018} \quad (+0.4\sigma)$	χ_{CMB}^2	$11934.5 \quad (\nu: 16.9) \quad (+1581.5\sigma)$
σ_8	$0.805^{+0.026}_{-0.024} \quad (-0.3\sigma)$	$100\theta_{s,\text{eq}}$	$0.4493^{+0.0094}_{-0.0090} \quad (+0.4\sigma)$	χ_{Abund}^2	$0.70 \quad (\nu: 0.3) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11943.02; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.68; R - 1 = 0.01235$$

7.25 base_nnu_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02243	$0.0225^{+0.0011}_{-0.0010}$	$r_{\text{drag}} h$	100.7	$100.9^{+6.6}_{-6.1}$	$100\theta_{\text{s,eq}}$	0.4539	$0.454^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.1162	$0.117^{+0.020}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	2.390	$2.39^{+0.14}_{-0.14}$	$H(0.15)$	73.0	73^{+10}_{-8}
$100\theta_{\text{MC}}$	1.04154	$1.0415^{+0.0026}_{-0.0023}$	z_{re}	7.07	$7.1^{+2.1}_{-3.0}$	$D_{\text{M}}(0.15)$	640	637^{+80}_{-80}
τ	0.0491	$0.050^{+0.021}_{-0.026}$	$10^9 A_{\text{s}}$	2.037	$2.04^{+0.13}_{-0.13}$	$H(0.38)$	82.9	83^{+10}_{-8}
N_{eff}	2.95	$3.0^{+1.4}_{-1.2}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.846	$1.849^{+0.074}_{-0.082}$	$D_{\text{M}}(0.38)$	1528	1521^{+200}_{-200}
$\ln(10^{10} A_{\text{s}})$	3.014	$3.016^{+0.061}_{-0.066}$	D_{40}	1218	1214^{+89}_{-86}	$H(0.51)$	89.5	$90.0^{+10}_{-8.5}$
n_{s}	0.9633	$0.966^{+0.050}_{-0.048}$	D_{220}	5701	5693^{+150}_{-150}	$D_{\text{M}}(0.51)$	1981	1972^{+200}_{-200}
A_{100}^{dustTE}	0.114	$0.113^{+0.099}_{-0.097}$	D_{810}	2508	2507^{+66}_{-66}	$H(0.61)$	95.0	$95.5^{+10}_{-8.6}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.136^{+0.077}_{-0.076}$	D_{1420}	808.3	808^{+39}_{-38}	$D_{\text{M}}(0.61)$	2307	2296^{+300}_{-300}
$A_{100 \times 217}^{\text{dustTE}}$	0.475	$0.48^{+0.22}_{-0.22}$	D_{2000}	228.4	228^{+17}_{-17}	$H(2.33)$	233.9	235^{+18}_{-16}
A_{143}^{dustTE}	0.220	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	0.9633	$0.966^{+0.050}_{-0.048}$	$D_{\text{M}}(2.33)$	5788	5763^{+540}_{-540}
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.66^{+0.20}_{-0.21}$	Y_{P}	0.2441	$0.245^{+0.018}_{-0.017}$	$f\sigma_8(0.15)$	0.4395	$0.440^{+0.033}_{-0.032}$
A_{217}^{dustTE}	2.04	$2.04^{+0.67}_{-0.69}$	$Y_{\text{P}}^{\text{BBN}}$	0.2454	$0.246^{+0.018}_{-0.017}$	$\sigma_8(0.15)$	0.7300	$0.733^{+0.050}_{-0.045}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	10^5D/H	2.542	$2.56^{+0.33}_{-0.30}$	$f\sigma_8(0.38)$	0.4592	$0.460^{+0.027}_{-0.027}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0017}$	Age/Gyr	13.86	$13.8^{+1.3}_{-1.3}$	$\sigma_8(0.38)$	0.6480	$0.651^{+0.047}_{-0.043}$
y_{cal}	0.99998	$0.99997^{+0.0062}_{-0.0064}$	z_*	1089.42	$1089.5^{+2.1}_{-2.0}$	$f\sigma_8(0.51)$	0.4588	$0.460^{+0.027}_{-0.026}$
H_0	67.8	68^{+10}_{-8}	r_*	145.9	145^{+12}_{-12}	$\sigma_8(0.51)$	0.6068	$0.610^{+0.045}_{-0.042}$
Ω_{Λ}	0.697	$0.698^{+0.047}_{-0.053}$	$100\theta_*$	1.04178	$1.0417^{+0.0034}_{-0.0031}$	$f\sigma_8(0.61)$	0.4547	$0.456^{+0.026}_{-0.025}$
Ω_{m}	0.303	$0.302^{+0.053}_{-0.047}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.00	$13.9^{+1.1}_{-1.1}$	$\sigma_8(0.61)$	0.5776	$0.580^{+0.044}_{-0.041}$
$\Omega_{\text{m}} h^2$	0.1393	$0.141^{+0.020}_{-0.017}$	z_{drag}	1059.70	$1060.0^{+4.5}_{-4.3}$	$f\sigma_8(2.33)$	0.2916	$0.293^{+0.024}_{-0.022}$
$\Omega_{\text{m}} h^3$	0.0944	$0.096^{+0.029}_{-0.022}$	r_{drag}	148.5	148^{+12}_{-12}	$\sigma_8(2.33)$	0.3010	$0.303^{+0.026}_{-0.024}$
σ_8	0.7891	$0.792^{+0.051}_{-0.047}$	k_{D}	0.1398	$0.1403^{+0.0089}_{-0.0079}$	χ_{small}^2	395.65	$396.8 (\nu: 1.2)$
S_8	0.793	$0.795^{+0.064}_{-0.061}$	$100\theta_{\text{D}}$	0.16053	$0.1607^{+0.0031}_{-0.0028}$	χ_{plikTE}^2	852.9	$860.8 (\nu: 7.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4344	$0.435^{+0.035}_{-0.034}$	z_{eq}	3357	3355^{+190}_{-190}	χ_{prior}^2	0.4	$7.4 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5855	$0.587^{+0.034}_{-0.034}$	k_{eq}	0.01018	$0.01022^{+0.00060}_{-0.00054}$	χ_{CMB}^2	1248.5	$1257.6 (\nu: 9.0)$
$\sigma_8/h^{0.5}$	0.9583	$0.959^{+0.048}_{-0.049}$	$100\theta_{\text{eq}}$	0.8220	$0.823^{+0.038}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 1248.90$; $\bar{\chi}_{\text{eff}}^2 = 1264.95$; $R - 1 = 0.00876$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.65 plik_rd12_HM_v22_TE: 852.89

7.26 base_nnu_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.0225^{+0.0010}_{-0.0011}$	$r_{\text{drag}} h$	$101.0^{+6.6}_{-6.1}$	$100\theta_{\text{s,eq}}$	$0.455^{+0.019}_{-0.018}$
$\Omega_c h^2$	$0.118^{+0.019}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.39^{+0.14}_{-0.14}$	$H(0.15)$	74^{+10}_{-8}
$100\theta_{\text{MC}}$	$1.0415^{+0.0026}_{-0.0023}$	z_{re}	< 9.10	$D_{\text{M}}(0.15)$	635^{+80}_{-80}
τ	$0.053^{+0.017}_{-0.011}$	$10^9 A_{\text{s}}$	$2.06^{+0.12}_{-0.10}$	$H(0.38)$	84^{+10}_{-8}
N_{eff}	$3.1^{+1.4}_{-1.2}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.850^{+0.072}_{-0.081}$	$D_{\text{M}}(0.38)$	1517^{+200}_{-200}
$\ln(10^{10} A_{\text{s}})$	$3.024^{+0.055}_{-0.051}$	D_{40}	1212^{+88}_{-85}	$H(0.51)$	$90.2^{+9.8}_{-8.4}$
n_{s}	$0.968^{+0.049}_{-0.048}$	D_{220}	5691^{+150}_{-150}	$D_{\text{M}}(0.51)$	1967^{+200}_{-200}
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.095}$	D_{810}	2508^{+66}_{-66}	$H(0.61)$	$95.7^{+10}_{-8.6}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.077}_{-0.077}$	D_{1420}	808^{+39}_{-37}	$D_{\text{M}}(0.61)$	2290^{+300}_{-300}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	D_{2000}	228^{+17}_{-17}	$H(2.33)$	235^{+17}_{-16}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	$0.968^{+0.049}_{-0.048}$	$D_{\text{M}}(2.33)$	5752^{+540}_{-530}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	Y_{P}	$0.245^{+0.018}_{-0.017}$	$f\sigma_8(0.15)$	$0.442^{+0.032}_{-0.031}$
A_{217}^{dustTE}	$2.04^{+0.67}_{-0.70}$	$Y_{\text{P}}^{\text{BBN}}$	$0.247^{+0.018}_{-0.017}$	$\sigma_8(0.15)$	$0.736^{+0.048}_{-0.045}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	10^5D/H	$2.56^{+0.32}_{-0.29}$	$f\sigma_8(0.38)$	$0.462^{+0.027}_{-0.027}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	Age/Gyr	$13.8^{+1.3}_{-1.3}$	$\sigma_8(0.38)$	$0.654^{+0.045}_{-0.043}$
y_{cal}	$0.99997^{+0.0062}_{-0.0064}$	z_*	$1089.6^{+2.1}_{-2.0}$	$f\sigma_8(0.51)$	$0.462^{+0.026}_{-0.025}$
H_0	69^{+10}_{-8}	r_*	145^{+12}_{-11}	$\sigma_8(0.51)$	$0.613^{+0.043}_{-0.041}$
Ω_{Λ}	$0.699^{+0.047}_{-0.052}$	$100\theta_*$	$1.0416^{+0.0034}_{-0.0031}$	$f\sigma_8(0.61)$	$0.458^{+0.025}_{-0.024}$
Ω_{m}	$0.301^{+0.052}_{-0.047}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.9^{+1.1}_{-1.1}$	$\sigma_8(0.61)$	$0.583^{+0.042}_{-0.040}$
$\Omega_{\text{m}} h^2$	$0.141^{+0.020}_{-0.017}$	z_{drag}	$1060.0^{+4.5}_{-4.3}$	$f\sigma_8(2.33)$	$0.294^{+0.023}_{-0.021}$
$\Omega_{\text{m}} h^3$	$0.097^{+0.028}_{-0.022}$	r_{drag}	148^{+12}_{-12}	$\sigma_8(2.33)$	$0.304^{+0.025}_{-0.023}$
σ_8	$0.796^{+0.049}_{-0.046}$	k_{D}	$0.1404^{+0.0088}_{-0.0079}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
S_8	$0.797^{+0.063}_{-0.061}$	$100\theta_{\text{D}}$	$0.1607^{+0.0031}_{-0.0028}$	χ_{plikTE}^2	$860.9 (\nu: 7.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.436^{+0.035}_{-0.034}$	z_{eq}	3351^{+190}_{-180}	χ_{prior}^2	$7.3 (\nu: 6.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.589^{+0.034}_{-0.033}$	k_{eq}	$0.01022^{+0.00060}_{-0.00054}$	χ_{CMB}^2	$1257.2 (\nu: 8.5)$
$\sigma_8/h^{0.5}$	$0.962^{+0.047}_{-0.045}$	$100\theta_{\text{eq}}$	$0.824^{+0.037}_{-0.035}$		

$\bar{\chi}_{\text{eff}}^2 = 1264.59$; $R - 1 = 0.01129$

7.27 base_nnu_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.0214	$0.0228^{+0.0066}_{-0.0058}$	D_{40}	1248	1234^{+90}_{-99}	$D_{\mathrm{M}}(0.15)$	740	684^{+300}_{-200}
$\Omega_{\mathrm{c}}h^2$	0.0958	$0.108^{+0.057}_{-0.039}$	D_{220}	5741	5844^{+700}_{-700}	$H(0.38)$	73.0	80^{+30}_{-20}
$100\theta_{\mathrm{MC}}$	1.0437	$1.0421^{+0.0091}_{-0.0074}$	D_{810}	2585	2583^{+100}_{-100}	$D_{\mathrm{M}}(0.38)$	1755	1627^{+600}_{-500}
τ	0.0511	$0.051^{+0.025}_{-0.025}$	D_{1420}	862	850^{+62}_{-66}	$H(0.51)$	79.3	86^{+30}_{-20}
N_{eff}	1.57	< 6.39	D_{2000}	252.6	246^{+30}_{-30}	$D_{\mathrm{M}}(0.51)$	2268	2105^{+700}_{-700}
$\ln(10^{10}A_{\mathrm{s}})$	2.982	$3.01^{+0.14}_{-0.17}$	$n_{\mathrm{s},0.002}$	0.937	$0.960^{+0.11}_{-0.092}$	$H(0.61)$	84.6	92^{+30}_{-20}
n_{s}	0.937	$0.960^{+0.11}_{-0.092}$	Y_{P}	0.2228	$0.235^{+0.051}_{-0.046}$	$D_{\mathrm{M}}(0.61)$	2634	2447^{+800}_{-800}
y_{cal}	1.0000	$0.9999^{+0.0064}_{-0.0064}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2240	$0.236^{+0.051}_{-0.046}$	$H(2.33)$	214.0	226^{+50}_{-40}
H_0	58.4	65^{+30}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	2.22	$2.29^{+0.61}_{-0.51}$	$D_{\mathrm{M}}(2.33)$	6480	6088^{+2000}_{-2000}
Ω_{Λ}	0.654	$0.68^{+0.14}_{-0.18}$	Age/Gyr	15.51	$14.6^{+3.7}_{-3.8}$	$f\sigma_8(0.15)$	0.441	$0.436^{+0.082}_{-0.073}$
Ω_{m}	0.346	$0.32^{+0.18}_{-0.14}$	z_*	1087.27	$1087.7^{+4.7}_{-4.3}$	$\sigma_8(0.15)$	0.686	$0.71^{+0.14}_{-0.11}$
$\Omega_{\mathrm{m}}h^2$	0.118	$0.131^{+0.061}_{-0.043}$	r_*	161.1	153^{+30}_{-30}	$f\sigma_8(0.38)$	0.450	$0.452^{+0.061}_{-0.061}$
$\Omega_{\mathrm{m}}h^3$	0.069	$0.088^{+0.093}_{-0.049}$	$100\theta_*$	1.0451	$1.043^{+0.011}_{-0.010}$	$\sigma_8(0.38)$	0.605	$0.63^{+0.13}_{-0.11}$
σ_8	0.746	$0.77^{+0.14}_{-0.11}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	15.42	$14.6^{+3.2}_{-3.2}$	$f\sigma_8(0.51)$	0.445	$0.450^{+0.060}_{-0.059}$
S_8	0.801	$0.79^{+0.18}_{-0.14}$	z_{drag}	1054.7	1059^{+19}_{-19}	$\sigma_8(0.51)$	0.565	$0.59^{+0.13}_{-0.10}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.439	$0.433^{+0.099}_{-0.079}$	r_{drag}	164.4	155^{+40}_{-40}	$f\sigma_8(0.61)$	0.438	$0.446^{+0.060}_{-0.058}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.572	$0.578^{+0.077}_{-0.077}$	k_{D}	0.1296	$0.137^{+0.031}_{-0.025}$	$\sigma_8(0.61)$	0.537	$0.564^{+0.13}_{-0.099}$
$\sigma_8/h^{0.5}$	0.977	$0.96^{+0.13}_{-0.11}$	$100\theta_{\mathrm{D}}$	0.1572	$0.1583^{+0.0059}_{-0.0046}$	$f\sigma_8(2.33)$	0.270	$0.284^{+0.068}_{-0.053}$
$r_{\mathrm{drag}}h$	95.9	100^{+20}_{-20}	z_{eq}	3496	3420^{+500}_{-400}	$\sigma_8(2.33)$	0.277	$0.294^{+0.077}_{-0.058}$
$\langle d^2 \rangle^{1/2}$	2.456	$2.41^{+0.28}_{-0.27}$	k_{eq}	0.00955	$0.0099^{+0.0018}_{-0.0014}$	χ_{small}^2	395.57	$396.7 (\nu: 1.2)$
z_{re}	6.96	$7.0^{+2.3}_{-2.6}$	$100\theta_{\mathrm{eq}}$	0.795	$0.814^{+0.094}_{-0.084}$	χ_{plikEE}^2	738.0	$744.0 (\nu: 6.0)$
$10^9 A_{\mathrm{s}}$	1.973	$2.03^{+0.30}_{-0.33}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	0.4407	$0.449^{+0.043}_{-0.041}$	χ_{prior}^2	0.00	$0.99 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.781	$1.84^{+0.22}_{-0.27}$	$H(0.15)$	63.4	70^{+30}_{-20}	χ_{CMB}^2	1133.5	$1140.8 (\nu: 7.4)$

Best-fit $\chi_{\mathrm{eff}}^2 = 1133.52$; $\bar{\chi}_{\mathrm{eff}}^2 = 1141.76$; $R - 1 = 0.00807$

χ_{eff}^2 : CMB - small_100x143_offlike5_EE_Aplanck_B: 395.57 plik_rd12_HM_v22_EE: 737.95

7.28 base_nnu_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0231^{+0.0064}_{-0.0061}$	D_{40}	1231^{+86}_{-98}	$D_{\text{M}}(0.15)$	669^{+300}_{-200}
$\Omega_{\text{c}}h^2$	$0.111^{+0.056}_{-0.042}$	D_{220}	5861^{+700}_{-700}	$H(0.38)$	82^{+30}_{-20}
$100\theta_{\text{MC}}$	$1.0416^{+0.0095}_{-0.0071}$	D_{810}	2583^{+100}_{-110}	$D_{\text{M}}(0.38)$	1593^{+600}_{-500}
τ	$0.055^{+0.022}_{-0.013}$	D_{1420}	847^{+65}_{-66}	$H(0.51)$	88^{+30}_{-20}
N_{eff}	< 6.56	D_{2000}	244^{+30}_{-30}	$D_{\text{M}}(0.51)$	2062^{+800}_{-600}
$\ln(10^{10}A_{\text{s}})$	$3.03^{+0.13}_{-0.18}$	$n_{\text{s},0.002}$	$0.966^{+0.10}_{-0.097}$	$H(0.61)$	93^{+30}_{-20}
n_{s}	$0.966^{+0.10}_{-0.097}$	Y_{P}	$0.238^{+0.050}_{-0.050}$	$D_{\text{M}}(0.61)$	2399^{+900}_{-700}
y_{cal}	$0.9999^{+0.0064}_{-0.0065}$	$Y_{\text{P}}^{\text{BBN}}$	$0.239^{+0.051}_{-0.050}$	$H(2.33)$	229^{+50}_{-40}
H_0	67^{+30}_{-20}	$10^5\text{D}/\text{H}$	$2.32^{+0.61}_{-0.52}$	$D_{\text{M}}(2.33)$	5987^{+2000}_{-2000}
Ω_{Λ}	$0.69^{+0.14}_{-0.18}$	Age/Gyr	$14.3^{+3.9}_{-3.6}$	$f\sigma_8(0.15)$	$0.438^{+0.082}_{-0.072}$
Ω_{m}	$0.31^{+0.18}_{-0.14}$	z_*	$1087.8^{+4.7}_{-4.3}$	$\sigma_8(0.15)$	$0.72^{+0.13}_{-0.11}$
$\Omega_{\text{m}}h^2$	$0.135^{+0.061}_{-0.046}$	r_*	151^{+40}_{-30}	$f\sigma_8(0.38)$	$0.455^{+0.059}_{-0.060}$
$\Omega_{\text{m}}h^3$	$0.093^{+0.092}_{-0.055}$	$100\theta_*$	$1.042^{+0.012}_{-0.0096}$	$\sigma_8(0.38)$	$0.64^{+0.13}_{-0.11}$
σ_8	$0.78^{+0.13}_{-0.11}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.4^{+3.2}_{-3.1}$	$f\sigma_8(0.51)$	$0.454^{+0.059}_{-0.057}$
S_8	$0.79^{+0.18}_{-0.14}$	z_{drag}	1060^{+19}_{-20}	$\sigma_8(0.51)$	$0.60^{+0.12}_{-0.11}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.434^{+0.099}_{-0.077}$	r_{drag}	153^{+40}_{-40}	$f\sigma_8(0.61)$	$0.450^{+0.059}_{-0.057}$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.582^{+0.075}_{-0.076}$	k_{D}	$0.139^{+0.030}_{-0.027}$	$\sigma_8(0.61)$	$0.57^{+0.12}_{-0.10}$
$\sigma_8/h^{0.5}$	$0.96^{+0.13}_{-0.11}$	$100\theta_{\text{D}}$	$0.1586^{+0.0058}_{-0.0047}$	$f\sigma_8(2.33)$	$0.289^{+0.066}_{-0.056}$
$r_{\text{drag}}h$	100^{+20}_{-20}	z_{eq}	3400^{+500}_{-400}	$\sigma_8(2.33)$	$0.299^{+0.075}_{-0.062}$
$\langle d^2 \rangle^{1/2}$	$2.41^{+0.28}_{-0.26}$	k_{eq}	$0.0100^{+0.0018}_{-0.0014}$	χ_{simall}^2	$396.5 (\nu: 1.0)$
z_{re}	< 9.14	$100\theta_{\text{eq}}$	$0.818^{+0.091}_{-0.087}$	χ_{plikEE}^2	$744.1 (\nu: 6.1)$
$10^9 A_{\text{s}}$	$2.07^{+0.28}_{-0.34}$	$100\theta_{\text{s,eq}}$	$0.451^{+0.042}_{-0.042}$	χ_{prior}^2	$1.0 (\nu: 1.0)$
$10^9 A_{\text{s}}e^{-2\tau}$	$1.85^{+0.21}_{-0.29}$	$H(0.15)$	72^{+30}_{-20}	χ_{CMB}^2	$1140.6 (\nu: 7.0)$

$\bar{\chi}_{\text{eff}}^2 = 1141.65$; $R - 1 = 0.00915$

7.29 base_nnu_plikHM_TE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02239	$0.02240^{+0.00074}_{-0.00078}$	$\langle d^2 \rangle^{1/2}$	2.389	$2.393^{+0.087}_{-0.083}$	$D_M(0.15)$	645	642^{+51}_{-51}
$\Omega_c h^2$	0.1152	$0.116^{+0.018}_{-0.015}$	z_{re}	7.06	$7.0^{+2.1}_{-3.0}$	$H(0.38)$	82.3	$82.7^{+6.5}_{-5.7}$
$100\theta_{\text{MC}}$	1.04169	$1.0416^{+0.0024}_{-0.0022}$	$10^9 A_s$	2.035	$2.04^{+0.13}_{-0.13}$	$D_M(0.38)$	1539	1533^{+120}_{-120}
τ	0.0493	$0.049^{+0.021}_{-0.026}$	$10^9 A_s e^{-2\tau}$	1.844	$1.846^{+0.074}_{-0.078}$	$H(0.51)$	88.9	$89.3^{+6.9}_{-6.0}$
N_{eff}	2.87	$2.94^{+1.1}_{-0.89}$	D_{40}	1214	1218^{+66}_{-62}	$D_M(0.51)$	1995	1987^{+150}_{-150}
$\ln(10^{10} A_s)$	3.013	$3.013^{+0.060}_{-0.065}$	D_{220}	5690	5695^{+150}_{-150}	$H(0.61)$	94.4	$94.9^{+7.2}_{-6.2}$
n_s	0.9643	$0.963^{+0.035}_{-0.035}$	D_{810}	2513	2508^{+66}_{-68}	$D_M(0.61)$	2322	2313^{+170}_{-170}
y_{cal}	0.99998	$1.0000^{+0.0065}_{-0.0064}$	D_{1420}	812.6	809^{+35}_{-37}	$H(2.33)$	232.9	234^{+16}_{-13}
A_{100}^{dustTE}	0.113	$0.113^{+0.098}_{-0.094}$	D_{2000}	230.2	229^{+15}_{-15}	$D_M(2.33)$	5820	5798^{+390}_{-410}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.136^{+0.077}_{-0.077}$	$n_{s,0.002}$	0.9643	$0.963^{+0.035}_{-0.035}$	$f\sigma_8(0.15)$	0.4404	$0.441^{+0.027}_{-0.026}$
$A_{100 \times 217}^{\text{dustTE}}$	0.473	$0.48^{+0.22}_{-0.22}$	Y_P	0.2431	$0.244^{+0.014}_{-0.013}$	$\sigma_8(0.15)$	0.7288	$0.730^{+0.048}_{-0.044}$
A_{143}^{dustTE}	0.219	$0.22^{+0.14}_{-0.14}$	Y_P^{BBN}	0.2444	$0.245^{+0.014}_{-0.013}$	$f\sigma_8(0.38)$	0.4596	$0.460^{+0.028}_{-0.026}$
$A_{143 \times 217}^{\text{dustTE}}$	0.659	$0.66^{+0.21}_{-0.20}$	10^5D/H	2.522	$2.54^{+0.30}_{-0.25}$	$\sigma_8(0.38)$	0.6467	$0.648^{+0.044}_{-0.040}$
A_{217}^{dustTE}	2.03	$2.04^{+0.70}_{-0.68}$	Age/Gyr	13.93	$13.88^{+0.94}_{-0.97}$	$f\sigma_8(0.51)$	0.4589	$0.460^{+0.028}_{-0.026}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.30	$1089.5^{+2.2}_{-1.9}$	$\sigma_8(0.51)$	0.6055	$0.607^{+0.041}_{-0.038}$
c_{217}	0.99795	$0.9980^{+0.0017}_{-0.0017}$	r_*	146.6	$146.0^{+9.5}_{-9.8}$	$f\sigma_8(0.61)$	0.4546	$0.455^{+0.028}_{-0.026}$
H_0	67.3	$67.6^{+5.9}_{-5.2}$	$100\theta_*$	1.04199	$1.0419^{+0.0030}_{-0.0028}$	$\sigma_8(0.61)$	0.5763	$0.578^{+0.040}_{-0.036}$
Ω_Λ	0.6947	$0.695^{+0.021}_{-0.024}$	$D_M(z_*)/\text{Gpc}$	14.06	$14.01^{+0.88}_{-0.91}$	$f\sigma_8(2.33)$	0.2909	$0.291^{+0.020}_{-0.018}$
Ω_m	0.3053	$0.305^{+0.024}_{-0.021}$	z_{drag}	1059.51	$1059.7^{+3.4}_{-3.3}$	$\sigma_8(2.33)$	0.3001	$0.301^{+0.022}_{-0.020}$
$\Omega_m h^2$	0.1383	$0.140^{+0.019}_{-0.015}$	r_{drag}	149.2	$148.7^{+9.9}_{-10}$	χ_{simall}^2	395.67	$396.8 (\nu: 1.3)$
$\Omega_m h^3$	0.0930	$0.094^{+0.021}_{-0.017}$	k_D	0.1393	$0.1397^{+0.0075}_{-0.0067}$	χ_{plikTE}^2	852.9	$860.0 (\nu: 7.3)$
σ_8	0.7881	$0.790^{+0.051}_{-0.047}$	$100\theta_D$	0.16034	$0.1605^{+0.0026}_{-0.0023}$	$\chi_{6\text{DF}}^2$	0.000	$0.048 (\nu: 0.0)$
S_8	0.7950	$0.796^{+0.050}_{-0.047}$	z_{eq}	3367	3366^{+91}_{-84}	χ_{MGS}^2	1.68	$1.76 (\nu: 0.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4354	$0.436^{+0.027}_{-0.026}$	k_{eq}	0.01016	$0.01020^{+0.00063}_{-0.00055}$	χ_{DR12BAO}^2	3.46	$4.2 (\nu: 0.7)$
$\sigma_8 \Omega_m^{0.25}$	0.5858	$0.587^{+0.036}_{-0.034}$	$100\theta_{\text{eq}}$	0.8202	$0.820^{+0.016}_{-0.017}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.8)$
$\sigma_8/h^{0.5}$	0.9607	$0.960^{+0.037}_{-0.037}$	$100\theta_{s,\text{eq}}$	0.4530	$0.4530^{+0.0082}_{-0.0085}$	χ_{BAO}^2	5.14	$6.0 (\nu: 0.7)$
$r_{\text{drag}} h$	100.44	$100.4^{+2.8}_{-2.8}$	$H(0.15)$	72.5	$72.8^{+6.1}_{-5.4}$	χ_{CMB}^2	1248.6	$1256.9 (\nu: 8.7)$

Best-fit $\chi_{\text{eff}}^2 = 1254.11$; $\bar{\chi}_{\text{eff}}^2 = 1270.28$; $R - 1 = 0.00797$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.46 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.67 plik_rd12_HM_v22_TE: 852.90

7.30 base_nnu_plikHM_TE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02240^{+0.00072}_{-0.00079}$	z_{re}	$7.6^{+2.1}_{-1.9}$	$D_{\mathrm{M}}(0.38)$	1550^{+110}_{-110}
$\Omega_{\mathrm{c}} h^2$	$0.115^{+0.016}_{-0.013}$	$10^9 A_{\mathrm{s}}$	$2.07^{+0.11}_{-0.10}$	$H(0.51)$	$88.5^{+6.4}_{-5.6}$
$100\theta_{\mathrm{MC}}$	$1.0418^{+0.0024}_{-0.0021}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.856^{+0.067}_{-0.072}$	$D_{\mathrm{M}}(0.51)$	2008^{+140}_{-150}
τ	$0.055^{+0.022}_{-0.018}$	D_{40}	1225^{+67}_{-62}	$H(0.61)$	$94.1^{+6.7}_{-5.8}$
N_{eff}	$2.83^{+0.99}_{-0.83}$	D_{220}	5724^{+150}_{-140}	$D_{\mathrm{M}}(0.61)$	2337^{+170}_{-170}
$\ln(10^{10} A_{\mathrm{s}})$	$3.030^{+0.051}_{-0.051}$	D_{810}	2533^{+50}_{-57}	$H(2.33)$	233^{+14}_{-12}
n_{s}	$0.963^{+0.033}_{-0.032}$	D_{1420}	820^{+29}_{-34}	$D_{\mathrm{M}}(2.33)$	5843^{+370}_{-380}
y_{cal}	$1.0005^{+0.0063}_{-0.0068}$	D_{2000}	233^{+12}_{-15}	$f\sigma_8(0.15)$	$0.448^{+0.022}_{-0.020}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.094}_{-0.094}$	$n_{\mathrm{s},0.002}$	$0.963^{+0.033}_{-0.032}$	$\sigma_8(0.15)$	$0.736^{+0.042}_{-0.038}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.138^{+0.073}_{-0.079}$	Y_{P}	$0.242^{+0.013}_{-0.012}$	$f\sigma_8(0.38)$	$0.467^{+0.023}_{-0.020}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.244^{+0.013}_{-0.012}$	$\sigma_8(0.38)$	$0.653^{+0.040}_{-0.035}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.51^{+0.28}_{-0.24}$	$f\sigma_8(0.51)$	$0.465^{+0.022}_{-0.020}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.19}_{-0.23}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.99^{+0.88}_{-0.92}$	$\sigma_8(0.51)$	$0.611^{+0.038}_{-0.033}$
$A_{217}^{\mathrm{dustTE}}$	$2.06^{+0.68}_{-0.63}$	z_{*}	$1089.3^{+2.0}_{-1.7}$	$f\sigma_8(0.61)$	$0.461^{+0.023}_{-0.021}$
c_{100}	$1.0002^{+0.0019}_{-0.0018}$	r_{*}	$146.8^{+8.9}_{-9.1}$	$\sigma_8(0.61)$	$0.581^{+0.037}_{-0.032}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	$100\theta_{*}$	$1.0421^{+0.0030}_{-0.0027}$	$f\sigma_8(2.33)$	$0.293^{+0.019}_{-0.016}$
H_0	$66.8^{+5.7}_{-4.7}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$14.09^{+0.81}_{-0.84}$	$\sigma_8(2.33)$	$0.302^{+0.020}_{-0.018}$
Ω_{Λ}	$0.689^{+0.021}_{-0.023}$	z_{drag}	$1059.5^{+3.3}_{-3.2}$	$\chi_{\mathrm{lensing}}^2$	$10.2 (\nu: 1.8)$
Ω_{m}	$0.311^{+0.023}_{-0.021}$	r_{drag}	$149.5^{+9.1}_{-9.4}$	χ_{simall}^2	$396.9 (\nu: 1.7)$
$\Omega_{\mathrm{m}} h^2$	$0.138^{+0.017}_{-0.014}$	k_{D}	$0.1393^{+0.0070}_{-0.0059}$	χ_{plikTE}^2	$860.5 (\nu: 7.3)$
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.019}_{-0.015}$	$100\theta_{\mathrm{D}}$	$0.1602^{+0.0024}_{-0.0021}$	$\chi_{6\mathrm{DF}}^2$	$0.063 (\nu: 0.0)$
σ_8	$0.797^{+0.044}_{-0.041}$	z_{eq}	3391^{+84}_{-78}	χ_{MGS}^2	$1.35 (\nu: 0.1)$
S_8	$0.810^{+0.041}_{-0.037}$	k_{eq}	$0.01020^{+0.00058}_{-0.00048}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.4)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.023}_{-0.020}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.015}_{-0.015}$	χ_{prior}^2	$7.6 (\nu: 7.3)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.029}_{-0.025}$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0075}_{-0.0075}$	χ_{CMB}^2	$1267.6 (\nu: 9.2)$
$\sigma_8/h^{0.5}$	$0.975^{+0.027}_{-0.026}$	$H(0.15)$	$72.0^{+5.7}_{-4.9}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
$r_{\mathrm{drag}} h$	$99.8^{+2.6}_{-2.6}$	$D_{\mathrm{M}}(0.15)$	650^{+48}_{-50}		
$\langle d^2 \rangle^{1/2}$	$2.422^{+0.074}_{-0.072}$	$H(0.38)$	$81.9^{+6.1}_{-5.4}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1281.35$; $R - 1 = 0.02891$

7.31 base_nnu_plikHM_TE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00073}_{-0.00079}$	$\langle d^2 \rangle^{1/2}$	$2.401^{+0.082}_{-0.076}$	$D_M(0.15)$	642^{+52}_{-52}
$\Omega_c h^2$	$0.117^{+0.019}_{-0.015}$	z_{re}	< 9.00	$H(0.38)$	$82.8^{+6.7}_{-5.8}$
$100\theta_{\text{MC}}$	$1.0416^{+0.0025}_{-0.0022}$	$10^9 A_s$	$2.05^{+0.11}_{-0.098}$	$D_M(0.38)$	1532^{+120}_{-120}
τ	$0.053^{+0.017}_{-0.011}$	$10^9 A_s e^{-2\tau}$	$1.847^{+0.076}_{-0.079}$	$H(0.51)$	$89.4^{+7.0}_{-6.1}$
N_{eff}	$2.95^{+1.1}_{-0.91}$	D_{40}	1217^{+66}_{-62}	$D_M(0.51)$	1985^{+150}_{-150}
$\ln(10^{10} A_s)$	$3.021^{+0.055}_{-0.049}$	D_{220}	5694^{+150}_{-150}	$H(0.61)$	$94.9^{+7.3}_{-6.4}$
n_s	$0.964^{+0.035}_{-0.035}$	D_{810}	2509^{+67}_{-68}	$D_M(0.61)$	2311^{+180}_{-180}
y_{cal}	$1.0000^{+0.0065}_{-0.0065}$	D_{1420}	809^{+35}_{-36}	$H(2.33)$	234^{+16}_{-14}
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.093}$	D_{2000}	229^{+15}_{-15}	$D_M(2.33)$	5793^{+400}_{-410}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.078}_{-0.077}$	$n_{s,0.002}$	$0.964^{+0.035}_{-0.035}$	$f\sigma_8(0.15)$	$0.443^{+0.027}_{-0.025}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	Y_{P}	$0.244^{+0.014}_{-0.013}$	$\sigma_8(0.15)$	$0.734^{+0.049}_{-0.043}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.245^{+0.014}_{-0.013}$	$f\sigma_8(0.38)$	$0.462^{+0.027}_{-0.025}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	10^5D/H	$2.54^{+0.30}_{-0.26}$	$\sigma_8(0.38)$	$0.651^{+0.044}_{-0.039}$
A_{217}^{dustTE}	$2.04^{+0.70}_{-0.68}$	Age/Gyr	$13.87^{+0.96}_{-0.98}$	$f\sigma_8(0.51)$	$0.462^{+0.028}_{-0.025}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	z_*	$1089.5^{+2.2}_{-1.9}$	$\sigma_8(0.51)$	$0.610^{+0.042}_{-0.037}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	r_*	$145.9^{+9.7}_{-10}$	$f\sigma_8(0.61)$	$0.457^{+0.028}_{-0.025}$
H_0	$67.7^{+5.9}_{-5.3}$	$100\theta_*$	$1.0418^{+0.0031}_{-0.0029}$	$\sigma_8(0.61)$	$0.580^{+0.040}_{-0.035}$
Ω_Λ	$0.695^{+0.022}_{-0.024}$	$D_M(z_*)/\text{Gpc}$	$14.00^{+0.89}_{-0.92}$	$f\sigma_8(2.33)$	$0.293^{+0.020}_{-0.018}$
Ω_{m}	$0.305^{+0.024}_{-0.022}$	z_{drag}	$1059.7^{+3.5}_{-3.3}$	$\sigma_8(2.33)$	$0.302^{+0.022}_{-0.019}$
$\Omega_{\text{m}} h^2$	$0.140^{+0.019}_{-0.015}$	r_{drag}	149^{+10}_{-10}	χ_{simall}^2	$396.4 (\nu: 0.7)$
$\Omega_{\text{m}} h^3$	$0.095^{+0.022}_{-0.017}$	k_{D}	$0.1398^{+0.0077}_{-0.0068}$	χ_{plikTE}^2	$860.1 (\nu: 7.4)$
σ_8	$0.793^{+0.051}_{-0.046}$	$100\theta_{\text{D}}$	$0.1605^{+0.0026}_{-0.0023}$	$\chi_{6\text{DF}}^2$	$0.048 (\nu: 0.0)$
S_8	$0.800^{+0.049}_{-0.046}$	z_{eq}	3366^{+93}_{-84}	χ_{MGS}^2	$1.78 (\nu: 0.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.438^{+0.027}_{-0.025}$	k_{eq}	$0.01020^{+0.00065}_{-0.00055}$	χ_{DR12BAO}^2	$4.2 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.589^{+0.035}_{-0.032}$	$100\theta_{\text{eq}}$	$0.821^{+0.016}_{-0.017}$	χ_{prior}^2	$7.5 (\nu: 6.9)$
$\sigma_8/h^{0.5}$	$0.964^{+0.036}_{-0.033}$	$100\theta_{\text{s,eq}}$	$0.4531^{+0.0082}_{-0.0087}$	χ_{BAO}^2	$6.0 (\nu: 0.7)$
$r_{\text{drag}} h$	$100.5^{+2.8}_{-2.9}$	$H(0.15)$	$72.9^{+6.2}_{-5.4}$	χ_{CMB}^2	$1256.5 (\nu: 8.3)$

$\bar{\chi}_{\text{eff}}^2 = 1269.92$; $R - 1 = 0.01050$

7.32 base_nnu_plikHM_TE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00072}_{-0.00077}$	z_{re}	< 9.36	$D_{\text{M}}(0.38)$	1550^{+120}_{-120}
$\Omega_c h^2$	$0.115^{+0.016}_{-0.013}$	$10^9 A_{\text{s}}$	$2.08^{+0.11}_{-0.091}$	$H(0.51)$	$88.6^{+6.7}_{-5.7}$
$100\theta_{\text{MC}}$	$1.0418^{+0.0024}_{-0.0021}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.856^{+0.071}_{-0.075}$	$D_{\text{M}}(0.51)$	2008^{+150}_{-150}
τ	$0.056^{+0.018}_{-0.014}$	D_{40}	1225^{+67}_{-62}	$H(0.61)$	$94.1^{+7.0}_{-6.0}$
N_{eff}	$2.83^{+1.0}_{-0.83}$	D_{220}	5722^{+140}_{-140}	$D_{\text{M}}(0.61)$	2336^{+170}_{-170}
$\ln(10^{10} A_{\text{s}})$	$3.033^{+0.050}_{-0.045}$	D_{810}	2532^{+50}_{-57}	$H(2.33)$	233^{+14}_{-12}
n_{s}	$0.963^{+0.033}_{-0.032}$	D_{1420}	820^{+29}_{-34}	$D_{\text{M}}(2.33)$	5842^{+390}_{-400}
y_{cal}	$1.0005^{+0.0063}_{-0.0068}$	D_{2000}	233^{+12}_{-14}	$f\sigma_8(0.15)$	$0.449^{+0.022}_{-0.019}$
A_{100}^{dustTE}	$0.113^{+0.096}_{-0.094}$	$n_{\text{s},0.002}$	$0.963^{+0.033}_{-0.032}$	$\sigma_8(0.15)$	$0.737^{+0.043}_{-0.038}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.138^{+0.073}_{-0.080}$	Y_{P}	$0.242^{+0.013}_{-0.012}$	$f\sigma_8(0.38)$	$0.467^{+0.022}_{-0.019}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$Y_{\text{P}}^{\text{BBN}}$	$0.244^{+0.014}_{-0.012}$	$\sigma_8(0.38)$	$0.653^{+0.039}_{-0.035}$
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.13}$	10^5D/H	$2.51^{+0.28}_{-0.24}$	$f\sigma_8(0.51)$	$0.466^{+0.022}_{-0.020}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.19}_{-0.23}$	Age/Gyr	$13.99^{+0.92}_{-0.96}$	$\sigma_8(0.51)$	$0.611^{+0.038}_{-0.033}$
A_{217}^{dustTE}	$2.06^{+0.70}_{-0.62}$	z_*	$1089.3^{+2.0}_{-1.7}$	$f\sigma_8(0.61)$	$0.461^{+0.023}_{-0.020}$
c_{100}	$1.0002^{+0.0019}_{-0.0018}$	r_*	$146.8^{+8.9}_{-9.4}$	$\sigma_8(0.61)$	$0.582^{+0.037}_{-0.031}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	$100\theta_*$	$1.0421^{+0.0031}_{-0.0027}$	$f\sigma_8(2.33)$	$0.293^{+0.019}_{-0.017}$
H_0	$66.8^{+5.8}_{-5.2}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.09^{+0.82}_{-0.87}$	$\sigma_8(2.33)$	$0.303^{+0.020}_{-0.018}$
Ω_{Λ}	$0.690^{+0.020}_{-0.022}$	z_{drag}	$1059.5^{+3.3}_{-3.3}$	χ_{lensing}^2	$10.1 (\nu: 1.6)$
Ω_{m}	$0.310^{+0.022}_{-0.020}$	r_{drag}	$149.5^{+9.3}_{-9.6}$	χ_{simall}^2	$396.9 (\nu: 1.8)$
$\Omega_{\text{m}} h^2$	$0.138^{+0.017}_{-0.014}$	k_{D}	$0.1393^{+0.0070}_{-0.0060}$	χ_{plikTE}^2	$860.4 (\nu: 7.0)$
$\Omega_{\text{m}} h^3$	$0.093^{+0.020}_{-0.016}$	$100\theta_{\text{D}}$	$0.1602^{+0.0025}_{-0.0021}$	$\chi_{6\text{DF}}^2$	$0.061 (\nu: 0.0)$
σ_8	$0.797^{+0.045}_{-0.040}$	z_{eq}	3390^{+85}_{-78}	χ_{MGS}^2	$1.37 (\nu: 0.2)$
S_8	$0.811^{+0.042}_{-0.037}$	k_{eq}	$0.01019^{+0.00059}_{-0.00049}$	χ_{DR12BAO}^2	$4.7 (\nu: 1.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.444^{+0.023}_{-0.020}$	$100\theta_{\text{eq}}$	$0.816^{+0.015}_{-0.015}$	χ_{prior}^2	$7.5 (\nu: 7.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.595^{+0.028}_{-0.025}$	$100\theta_{\text{s,eq}}$	$0.4508^{+0.0075}_{-0.0074}$	χ_{CMB}^2	$1267.4 (\nu: 8.8)$
$\sigma_8/h^{0.5}$	$0.976^{+0.026}_{-0.024}$	$H(0.15)$	$72.0^{+5.9}_{-5.3}$	χ_{BAO}^2	$6.1 (\nu: 0.9)$
$r_{\text{drag}} h$	$99.8^{+2.6}_{-2.5}$	$D_{\text{M}}(0.15)$	650^{+53}_{-51}		
$\langle d^2 \rangle^{1/2}$	$2.424^{+0.073}_{-0.071}$	$H(0.38)$	$82.0^{+6.4}_{-5.5}$		

$\bar{\chi}_{\text{eff}}^2 = 1281.05$; $R - 1 = 0.03229$

7.33 base_nnu_plikHM_EE_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02342	$0.0230^{+0.0022}_{-0.0025}$	D_{810}	2612	2589^{+92}_{-95}	$D_M(0.51)$	2052	2075^{+400}_{-400}
$\Omega_c h^2$	0.1056	$0.106^{+0.046}_{-0.036}$	D_{1420}	863	854^{+66}_{-68}	$H(0.61)$	91.7	91^{+20}_{-20}
$100\theta_{MC}$	1.0415	$1.0421^{+0.0095}_{-0.0059}$	D_{2000}	250.4	248^{+30}_{-30}	$D_M(0.61)$	2389	2415^{+500}_{-400}
τ	0.0522	$0.051^{+0.022}_{-0.025}$	$n_{s,0.002}$	0.964	$0.962^{+0.050}_{-0.051}$	$H(2.33)$	225.7	225^{+40}_{-40}
N_{eff}	2.37	$2.4^{+2.6}_{-2.1}$	Y_P	0.2363	$0.235^{+0.034}_{-0.037}$	$D_M(2.33)$	5996	6051^{+1000}_{-1000}
$\ln(10^{10} A_s)$	3.032	$3.015^{+0.099}_{-0.14}$	Y_P^{BBN}	0.2376	$0.236^{+0.034}_{-0.037}$	$f\sigma_8(0.15)$	0.429	$0.429^{+0.054}_{-0.059}$
n_s	0.964	$0.962^{+0.050}_{-0.051}$	$10^5 D/H$	2.18	$2.25^{+0.65}_{-0.52}$	$\sigma_8(0.15)$	0.714	$0.71^{+0.11}_{-0.11}$
y_{cal}	1.0004	$0.99997^{+0.0064}_{-0.0065}$	Age/Gyr	14.36	$14.5^{+2.8}_{-2.3}$	$f\sigma_8(0.38)$	0.449	$0.447^{+0.059}_{-0.065}$
H_0	65.5	65^{+10}_{-10}	z_*	1086.77	$1087.2^{+4.9}_{-4.2}$	$\sigma_8(0.38)$	0.634	$0.629^{+0.097}_{-0.10}$
Ω_Λ	0.6976	$0.694^{+0.028}_{-0.032}$	r_*	151.2	152^{+30}_{-20}	$f\sigma_8(0.51)$	0.448	$0.447^{+0.061}_{-0.066}$
Ω_m	0.3024	$0.306^{+0.032}_{-0.028}$	$100\theta_*$	1.0420	$1.043^{+0.011}_{-0.0075}$	$\sigma_8(0.51)$	0.593	$0.589^{+0.092}_{-0.096}$
$\Omega_m h^2$	0.1297	$0.130^{+0.048}_{-0.037}$	$D_M(z_*)/\text{Gpc}$	14.51	$14.6^{+2.7}_{-2.3}$	$f\sigma_8(0.61)$	0.444	$0.442^{+0.061}_{-0.067}$
$\Omega_m h^3$	0.0849	$0.085^{+0.054}_{-0.036}$	z_{drag}	1060.8	$1059.6^{+9.0}_{-9.7}$	$\sigma_8(0.61)$	0.565	$0.561^{+0.088}_{-0.092}$
σ_8	0.771	$0.77^{+0.11}_{-0.12}$	r_{drag}	153.6	155^{+30}_{-30}	$f\sigma_8(2.33)$	0.2852	$0.283^{+0.045}_{-0.047}$
S_8	0.774	$0.774^{+0.097}_{-0.11}$	k_D	0.1376	$0.137^{+0.019}_{-0.019}$	$\sigma_8(2.33)$	0.2944	$0.292^{+0.048}_{-0.049}$
$\sigma_8 \Omega_m^{0.5}$	0.424	$0.424^{+0.053}_{-0.058}$	$100\theta_D$	0.1574	$0.1579^{+0.0057}_{-0.0048}$	χ_{small}^2	395.54	$396.7 (\nu: 1.2)$
$\sigma_8 \Omega_m^{0.25}$	0.572	$0.570^{+0.077}_{-0.083}$	z_{eq}	3392	3390^{+110}_{-100}	χ_{plikEE}^2	738.8	$743.5 (\nu: 5.0)$
$\sigma_8/h^{0.5}$	0.953	$0.951^{+0.057}_{-0.071}$	k_{eq}	0.00987	$0.0098^{+0.0016}_{-0.0014}$	$\chi_{6\text{DF}}^2$	0.000	$0.064 (\nu: 0.0)$
$r_{\text{drag}} h$	100.58	$100.3^{+3.2}_{-3.1}$	$100\theta_{\text{eq}}$	0.8181	$0.817^{+0.019}_{-0.019}$	χ_{MGS}^2	1.75	$1.70 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	2.398	$2.390^{+0.098}_{-0.10}$	$100\theta_{s,\text{eq}}$	0.4511	$0.4511^{+0.0092}_{-0.0093}$	χ_{DR12BAO}^2	3.56	$4.5 (\nu: 1.1)$
z_{re}	6.95	$6.9^{+2.1}_{-2.8}$	$H(0.15)$	70.5	70^{+10}_{-10}	χ_{prior}^2	0.03	$0.98 (\nu: 1.0)$
$10^9 A_s$	2.073	$2.04^{+0.21}_{-0.27}$	$D_M(0.15)$	663	671^{+100}_{-100}	χ_{BAO}^2	5.30	$6.2 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.868	$1.84^{+0.17}_{-0.23}$	$H(0.38)$	80.0	80^{+20}_{-10}	χ_{CMB}^2	1134.3	$1140.2 (\nu: 6.3)$
D_{40}	1247	1235^{+79}_{-82}	$D_M(0.38)$	1583	1601^{+300}_{-300}			
D_{220}	5969	5880^{+360}_{-350}	$H(0.51)$	86.4	86^{+20}_{-10}			

Best-fit $\chi_{\text{eff}}^2 = 1139.64$; $\bar{\chi}_{\text{eff}}^2 = 1147.36$; $R - 1 = 0.00877$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.56 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.54 plik_rd12_HM_v22_EE: 738.76

7.34 base_nnu_plikHM_EE_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0230^{+0.0019}_{-0.0019}$	D_{810}	2586^{+74}_{-74}	$D_{\mathrm{M}}(0.51)$	2065^{+300}_{-300}
$\Omega_{\mathrm{c}}h^2$	$0.106^{+0.033}_{-0.026}$	D_{1420}	852^{+55}_{-53}	$H(0.61)$	91^{+10}_{-10}
$100\theta_{\mathrm{MC}}$	$1.0418^{+0.0062}_{-0.0048}$	D_{2000}	247^{+26}_{-25}	$D_{\mathrm{M}}(0.61)$	2404^{+400}_{-300}
τ	$0.051^{+0.020}_{-0.023}$	$n_{\mathrm{s},0.002}$	$0.963^{+0.041}_{-0.039}$	$H(2.33)$	226^{+30}_{-30}
N_{eff}	$2.4^{+1.9}_{-1.6}$	Y_{P}	$0.236^{+0.026}_{-0.026}$	$D_{\mathrm{M}}(2.33)$	6023^{+800}_{-800}
$\ln(10^{10}A_{\mathrm{s}})$	$3.018^{+0.071}_{-0.088}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.237^{+0.026}_{-0.027}$	$f\sigma_8(0.15)$	$0.430^{+0.041}_{-0.041}$
n_{s}	$0.963^{+0.041}_{-0.039}$	$10^5\mathrm{D}/\mathrm{H}$	$2.26^{+0.48}_{-0.42}$	$\sigma_8(0.15)$	$0.712^{+0.079}_{-0.078}$
y_{cal}	$0.9999^{+0.0064}_{-0.0063}$	Age/Gyr	$14.4^{+2.0}_{-1.8}$	$f\sigma_8(0.38)$	$0.449^{+0.043}_{-0.044}$
H_0	65^{+10}_{-9}	z_*	$1087.3^{+3.6}_{-3.3}$	$\sigma_8(0.38)$	$0.632^{+0.072}_{-0.070}$
Ω_{Λ}	$0.694^{+0.027}_{-0.030}$	r_*	152^{+20}_{-20}	$f\sigma_8(0.51)$	$0.448^{+0.044}_{-0.045}$
Ω_{m}	$0.306^{+0.030}_{-0.027}$	$100\theta_*$	$1.0424^{+0.0075}_{-0.0060}$	$\sigma_8(0.51)$	$0.591^{+0.069}_{-0.066}$
$\Omega_{\mathrm{m}}h^2$	$0.130^{+0.034}_{-0.028}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.6^{+1.9}_{-1.7}$	$f\sigma_8(0.61)$	$0.444^{+0.045}_{-0.045}$
$\Omega_{\mathrm{m}}h^3$	$0.085^{+0.039}_{-0.028}$	z_{drag}	$1059.7^{+7.0}_{-7.6}$	$\sigma_8(0.61)$	$0.563^{+0.066}_{-0.064}$
σ_8	$0.770^{+0.083}_{-0.083}$	r_{drag}	154^{+20}_{-20}	$f\sigma_8(2.33)$	$0.284^{+0.033}_{-0.032}$
S_8	$0.776^{+0.073}_{-0.074}$	k_{D}	$0.137^{+0.014}_{-0.013}$	$\sigma_8(2.33)$	$0.293^{+0.035}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.425^{+0.040}_{-0.040}$	$100\theta_{\mathrm{D}}$	$0.1580^{+0.0042}_{-0.0038}$	$\chi_{\mathrm{lensing}}^2$	$9.2 (\nu: 0.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.572^{+0.056}_{-0.057}$	z_{eq}	3387^{+100}_{-87}	χ_{simall}^2	$396.6 (\nu: 1.0)$
$\sigma_8/h^{0.5}$	$0.953^{+0.043}_{-0.049}$	k_{eq}	$0.0099^{+0.0012}_{-0.0010}$	χ_{plikEE}^2	$742.5 (\nu: 3.6)$
$r_{\mathrm{drag}}h$	$100.3^{+3.1}_{-3.1}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.017}_{-0.018}$	$\chi_{6\mathrm{DF}}^2$	$0.061 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.391^{+0.076}_{-0.081}$	$100\theta_{\mathrm{s,eq}}$	$0.4514^{+0.0082}_{-0.0086}$	χ_{MGS}^2	$1.68 (\nu: 0.2)$
z_{re}	$6.9^{+2.0}_{-2.4}$	$H(0.15)$	70^{+10}_{-10}	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	$2.05^{+0.15}_{-0.17}$	$D_{\mathrm{M}}(0.15)$	668^{+100}_{-90}	χ_{prior}^2	$0.96 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.85^{+0.12}_{-0.15}$	$H(0.38)$	80^{+10}_{-10}	χ_{CMB}^2	$1148.2 (\nu: 6.2)$
D_{40}	1234^{+73}_{-75}	$D_{\mathrm{M}}(0.38)$	1593^{+200}_{-200}	χ_{BAO}^2	$6.2 (\nu: 0.9)$
D_{220}	5873^{+300}_{-280}	$H(0.51)$	86^{+10}_{-10}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1155.37; R - 1 = 0.00317$$

7.35 base_nnu_plikHM_EE_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0230^{+0.0022}_{-0.0025}$	D_{810}	2586^{+93}_{-94}	$D_{\mathrm{M}}(0.51)$	2058^{+400}_{-300}
$\Omega_{\mathrm{c}}h^2$	$0.108^{+0.046}_{-0.036}$	D_{1420}	851^{+67}_{-66}	$H(0.61)$	92^{+20}_{-20}
$100\theta_{\mathrm{MC}}$	$1.0418^{+0.0089}_{-0.0057}$	D_{2000}	246^{+30}_{-30}	$D_{\mathrm{M}}(0.61)$	2395^{+500}_{-400}
τ	$0.055^{+0.019}_{-0.012}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.049}_{-0.049}$	$H(2.33)$	227^{+40}_{-30}
N_{eff}	$2.5^{+2.6}_{-2.1}$	Y_{P}	$0.237^{+0.033}_{-0.036}$	$D_{\mathrm{M}}(2.33)$	6004^{+1000}_{-1000}
$\ln(10^{10}A_{\mathrm{s}})$	$3.028^{+0.090}_{-0.12}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.238^{+0.033}_{-0.036}$	$f\sigma_8(0.15)$	$0.433^{+0.052}_{-0.058}$
n_{s}	$0.964^{+0.049}_{-0.049}$	$10^5\mathrm{D}/\mathrm{H}$	$2.27^{+0.64}_{-0.53}$	$\sigma_8(0.15)$	$0.72^{+0.10}_{-0.11}$
y_{cal}	$0.99995^{+0.0063}_{-0.0066}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.4^{+2.7}_{-2.3}$	$f\sigma_8(0.38)$	$0.452^{+0.056}_{-0.063}$
H_0	66^{+10}_{-10}	z_*	$1087.4^{+4.8}_{-4.2}$	$\sigma_8(0.38)$	$0.636^{+0.093}_{-0.098}$
Ω_{Λ}	$0.695^{+0.027}_{-0.032}$	r_*	151^{+30}_{-20}	$f\sigma_8(0.51)$	$0.451^{+0.058}_{-0.064}$
Ω_{m}	$0.305^{+0.032}_{-0.027}$	$100\theta_*$	$1.042^{+0.011}_{-0.0072}$	$\sigma_8(0.51)$	$0.596^{+0.088}_{-0.092}$
$\Omega_{\mathrm{m}}h^2$	$0.131^{+0.047}_{-0.037}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.5^{+2.6}_{-2.2}$	$f\sigma_8(0.61)$	$0.447^{+0.059}_{-0.064}$
$\Omega_{\mathrm{m}}h^3$	$0.087^{+0.053}_{-0.036}$	z_{drag}	$1060.0^{+8.9}_{-9.6}$	$\sigma_8(0.61)$	$0.567^{+0.085}_{-0.088}$
σ_8	$0.78^{+0.11}_{-0.12}$	r_{drag}	154^{+30}_{-20}	$f\sigma_8(2.33)$	$0.286^{+0.043}_{-0.045}$
S_8	$0.781^{+0.093}_{-0.10}$	k_{D}	$0.137^{+0.019}_{-0.018}$	$\sigma_8(2.33)$	$0.295^{+0.046}_{-0.047}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.428^{+0.051}_{-0.057}$	$100\theta_{\mathrm{D}}$	$0.1581^{+0.0055}_{-0.0049}$	χ_{simall}^2	$396.4 (\nu: 0.9)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.576^{+0.073}_{-0.081}$	z_{eq}	3387^{+110}_{-98}	χ_{plikEE}^2	$743.4 (\nu: 4.9)$
$\sigma_8/h^{0.5}$	$0.957^{+0.052}_{-0.067}$	k_{eq}	$0.0099^{+0.0016}_{-0.0014}$	$\chi_{6\mathrm{DF}}^2$	$0.063 (\nu: 0.0)$
$r_{\mathrm{drag}}h$	$100.4^{+3.2}_{-3.2}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.018}_{-0.019}$	χ_{MGS}^2	$1.73 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	$2.401^{+0.093}_{-0.088}$	$100\theta_{\mathrm{s,eq}}$	$0.4514^{+0.0090}_{-0.0091}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 (\nu: 1.0)$
z_{re}	< 8.95	$H(0.15)$	71^{+10}_{-10}	χ_{prior}^2	$0.97 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	$2.07^{+0.19}_{-0.24}$	$D_{\mathrm{M}}(0.15)$	665^{+100}_{-100}	χ_{BAO}^2	$6.3 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.85^{+0.16}_{-0.22}$	$H(0.38)$	80^{+20}_{-10}	χ_{CMB}^2	$1139.8 (\nu: 5.8)$
D_{40}	1234^{+79}_{-81}	$D_{\mathrm{M}}(0.38)$	1588^{+300}_{-300}		
D_{220}	5875^{+350}_{-350}	$H(0.51)$	87^{+20}_{-10}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1147.01$; $R - 1 = 0.00611$

7.36 base_nnu_plikHM_EE_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0229^{+0.0019}_{-0.0020}$	D_{810}	2582^{+72}_{-72}	$D_{\mathrm{M}}(0.51)$	2060^{+300}_{-300}
$\Omega_{\mathrm{c}}h^2$	$0.107^{+0.033}_{-0.026}$	D_{1420}	850^{+54}_{-52}	$H(0.61)$	92^{+10}_{-10}
$100\theta_{\mathrm{MC}}$	$1.0417^{+0.0062}_{-0.0048}$	D_{2000}	246^{+26}_{-25}	$D_{\mathrm{M}}(0.61)$	2398^{+400}_{-300}
τ	$0.055^{+0.017}_{-0.010}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.040}_{-0.039}$	$H(2.33)$	226^{+30}_{-30}
N_{eff}	$2.4^{+1.9}_{-1.6}$	Y_{P}	$0.237^{+0.026}_{-0.026}$	$D_{\mathrm{M}}(2.33)$	6009^{+800}_{-700}
$\ln(10^{10}A_{\mathrm{s}})$	$3.025^{+0.068}_{-0.083}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.238^{+0.026}_{-0.026}$	$f\sigma_8(0.15)$	$0.432^{+0.040}_{-0.040}$
n_{s}	$0.964^{+0.040}_{-0.039}$	$10^5\mathrm{D}/\mathrm{H}$	$2.28^{+0.48}_{-0.42}$	$\sigma_8(0.15)$	$0.715^{+0.078}_{-0.077}$
y_{cal}	$0.9998^{+0.0060}_{-0.0064}$	Age/Gyr	$14.4^{+2.0}_{-1.8}$	$f\sigma_8(0.38)$	$0.451^{+0.043}_{-0.043}$
H_0	65^{+10}_{-9}	z_*	$1087.5^{+3.6}_{-3.3}$	$\sigma_8(0.38)$	$0.635^{+0.071}_{-0.069}$
Ω_{Λ}	$0.695^{+0.027}_{-0.031}$	r_*	151^{+20}_{-20}	$f\sigma_8(0.51)$	$0.450^{+0.044}_{-0.044}$
Ω_{m}	$0.305^{+0.031}_{-0.027}$	$100\theta_*$	$1.0423^{+0.0074}_{-0.0060}$	$\sigma_8(0.51)$	$0.594^{+0.067}_{-0.066}$
$\Omega_{\mathrm{m}}h^2$	$0.131^{+0.035}_{-0.028}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.5^{+1.8}_{-1.7}$	$f\sigma_8(0.61)$	$0.446^{+0.044}_{-0.044}$
$\Omega_{\mathrm{m}}h^3$	$0.086^{+0.039}_{-0.028}$	z_{drag}	$1059.7^{+7.2}_{-7.6}$	$\sigma_8(0.61)$	$0.566^{+0.064}_{-0.063}$
σ_8	$0.773^{+0.083}_{-0.081}$	r_{drag}	154^{+20}_{-20}	$f\sigma_8(2.33)$	$0.286^{+0.033}_{-0.032}$
S_8	$0.780^{+0.072}_{-0.073}$	k_{D}	$0.137^{+0.015}_{-0.013}$	$\sigma_8(2.33)$	$0.295^{+0.035}_{-0.034}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.427^{+0.040}_{-0.040}$	$100\theta_{\mathrm{D}}$	$0.1581^{+0.0041}_{-0.0038}$	$\chi^2_{\mathrm{lensing}}$	$9.1 (\nu: 0.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.575^{+0.056}_{-0.055}$	z_{eq}	3383^{+99}_{-85}	χ^2_{simall}	$396.3 (\nu: 0.7)$
$\sigma_8/h^{0.5}$	$0.957^{+0.041}_{-0.046}$	k_{eq}	$0.0099^{+0.0012}_{-0.0010}$	χ^2_{plikEE}	$742.4 (\nu: 3.5)$
$r_{\mathrm{drag}}h$	$100.4^{+3.1}_{-3.2}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.017}_{-0.019}$	$\chi^2_{6\mathrm{DF}}$	$0.061 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.398^{+0.073}_{-0.074}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0081}_{-0.0085}$	χ^2_{MGS}	$1.72 (\nu: 0.3)$
z_{re}	< 8.82	$H(0.15)$	70^{+10}_{-10}	$\chi^2_{\mathrm{DR12BAO}}$	$4.4 (\nu: 1.0)$
10^9A_{s}	$2.06^{+0.14}_{-0.16}$	$D_{\mathrm{M}}(0.15)$	666^{+100}_{-90}	χ^2_{prior}	$0.9 (\nu: 0.9)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.85^{+0.13}_{-0.15}$	$H(0.38)$	80^{+10}_{-10}	χ^2_{CMB}	$1147.9 (\nu: 5.7)$
D_{40}	1232^{+69}_{-72}	$D_{\mathrm{M}}(0.38)$	1589^{+200}_{-200}	χ^2_{BAO}	$6.2 (\nu: 0.9)$
D_{220}	5860^{+280}_{-280}	$H(0.51)$	86^{+10}_{-10}		

$$\bar{\chi}^2_{\mathrm{eff}} = 1155.01; R - 1 = 0.00359$$

7.37 base_nnu_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02224	$0.02227^{+0.00059}_{-0.00058}$	$\sigma_8/h^{0.5}$	0.9823	$0.983^{+0.033}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1525	1518^{+76}_{-76}
$\Omega_{\mathrm{c}}h^2$	0.1193	$0.121^{+0.010}_{-0.0093}$	$r_{\mathrm{drag}}h$	99.87	$99.96^{+2.8}_{-2.6}$	$H(0.51)$	89.87	$90.3^{+4.1}_{-3.9}$
$100\theta_{\mathrm{MC}}$	1.04094	$1.0408^{+0.0015}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.425	$2.426^{+0.073}_{-0.073}$	$D_{\mathrm{M}}(0.51)$	1976	1967^{+96}_{-95}
τ	0.0545	$0.054^{+0.022}_{-0.022}$	z_{re}	7.72	$7.7^{+2.2}_{-2.4}$	$H(0.61)$	95.47	$96.0^{+4.2}_{-4.0}$
N_{eff}	3.07	$3.15^{+0.62}_{-0.56}$	$10^9 A_{\mathrm{s}}$	2.095	$2.10^{+0.11}_{-0.11}$	$D_{\mathrm{M}}(0.61)$	2300	2289^{+110}_{-110}
$\ln(10^{10} A_{\mathrm{s}})$	3.042	$3.044^{+0.053}_{-0.053}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.879	$1.885^{+0.055}_{-0.053}$	$H(2.33)$	236.1	$237.1^{+8.9}_{-8.2}$
n_{s}	0.9686	$0.970^{+0.022}_{-0.021}$	D_{40}	1221.3	1222^{+38}_{-38}	$D_{\mathrm{M}}(2.33)$	5754	5728^{+240}_{-240}
y_{cal}	1.0003	$1.0006^{+0.0063}_{-0.0065}$	D_{220}	5714	5719^{+100}_{-110}	$f\sigma_8(0.15)$	0.4546	$0.456^{+0.023}_{-0.022}$
A_{217}^{CIB}	49.7	48^{+20}_{-20}	D_{810}	2536.1	2537^{+36}_{-37}	$\sigma_8(0.15)$	0.7477	$0.750^{+0.033}_{-0.032}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.19	—	D_{1420}	815.8	815^{+13}_{-14}	$f\sigma_8(0.38)$	0.4734	$0.475^{+0.021}_{-0.020}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.0	$229.4^{+5.6}_{-5.7}$	$\sigma_8(0.38)$	0.6630	$0.666^{+0.030}_{-0.029}$
A_{100}^{PS}	257	266^{+70}_{-70}	$n_{\mathrm{s},0.002}$	0.9686	$0.970^{+0.022}_{-0.021}$	$f\sigma_8(0.51)$	0.4723	$0.474^{+0.021}_{-0.019}$
A_{143}^{PS}	47.6	50^{+20}_{-20}	Y_{P}	0.2457	$0.2466^{+0.0080}_{-0.0078}$	$\sigma_8(0.51)$	0.6206	$0.623^{+0.029}_{-0.027}$
$A_{143 \times 217}^{\mathrm{PS}}$	43.4	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2471	$0.2480^{+0.0080}_{-0.0078}$	$f\sigma_8(0.61)$	0.4675	$0.469^{+0.020}_{-0.019}$
A_{217}^{PS}	117.6	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	2.620	$2.64^{+0.19}_{-0.16}$	$\sigma_8(0.61)$	0.5906	$0.593^{+0.028}_{-0.026}$
A^{kSZ}	0.0	—	Age/Gyr	13.78	$13.71^{+0.57}_{-0.57}$	$f\sigma_8(2.33)$	0.2979	$0.299^{+0.014}_{-0.013}$
$A_{100}^{\mathrm{dustTT}}$	8.86	$9.0^{+4.7}_{-4.7}$	z_*	1090.05	$1090.2^{+1.3}_{-1.2}$	$\sigma_8(2.33)$	0.3072	$0.308^{+0.015}_{-0.014}$
$A_{143}^{\mathrm{dustTT}}$	10.81	$10.8^{+4.7}_{-4.6}$	r_*	144.6	$143.9^{+5.6}_{-5.6}$	f_{2000}^{143}	30.5	32^{+9}_{-9}
$A_{143 \times 217}^{\mathrm{dustTT}}$	19.1	$18.3^{+8.5}_{-8.7}$	$100\theta_*$	1.04111	$1.0410^{+0.0017}_{-0.0017}$	$f_{2000}^{143 \times 217}$	33.2	34^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	94.1	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.88	$13.82^{+0.51}_{-0.52}$	f_{2000}^{217}	107.7	$108.5^{+5.9}_{-5.7}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.63	$1059.8^{+2.2}_{-2.2}$	χ_{small}^2	396.05	$397.1 (\nu: 1.8)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.3	$146.6^{+5.7}_{-5.8}$	χ_{lowl}^2	22.69	$22.8 (\nu: 0.7)$
H_0	67.82	$68.2^{+3.8}_{-3.6}$	k_{D}	0.14048	$0.1410^{+0.0044}_{-0.0041}$	χ_{plik}^2	760.2	$773.2 (\nu: 16.2)$
Ω_{Λ}	0.6908	$0.691^{+0.022}_{-0.021}$	$100\theta_{\mathrm{D}}$	0.16107	$0.1612^{+0.0016}_{-0.0014}$	$\chi_{6\mathrm{DF}}^2$	0.016	$0.057 (\nu: 0.0)$
Ω_{m}	0.3092	$0.309^{+0.021}_{-0.022}$	z_{eq}	3370	3368^{+81}_{-81}	χ_{MGS}^2	1.34	$1.47 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	0.1422	$0.143^{+0.011}_{-0.0096}$	k_{eq}	0.010307	$0.01035^{+0.00039}_{-0.00036}$	$\chi_{\mathrm{DR12BAO}}^2$	4.05	$4.7 (\nu: 1.2)$
$\Omega_{\mathrm{m}}h^3$	0.0965	$0.098^{+0.012}_{-0.011}$	$100\theta_{\mathrm{eq}}$	0.8187	$0.819^{+0.016}_{-0.015}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
σ_8	0.8089	$0.812^{+0.036}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	0.4523	$0.4525^{+0.0080}_{-0.0076}$	χ_{BAO}^2	5.41	$6.2 (\nu: 0.9)$
S_8	0.8213	$0.823^{+0.043}_{-0.041}$	$H(0.15)$	73.08	$73.5^{+3.9}_{-3.6}$	χ_{CMB}^2	1178.9	$1193.0 (\nu: 15.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4498	$0.451^{+0.023}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	639.4	636^{+34}_{-33}			
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6032	$0.605^{+0.027}_{-0.025}$	$H(0.38)$	83.17	$83.6^{+4.0}_{-3.7}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 1185.72$; $\bar{\chi}_{\mathrm{eff}}^2 = 1206.54$; $R - 1 = 0.01083$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.05 CMB - small_100x143.offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2.29: 22.69 plik_rd12_HM_v22_TT: 760.20

7.38 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02227^{+0.00058}_{-0.00057}$	$\sigma_8/h^{0.5}$	0.9834	$0.984^{+0.024}_{-0.023}$	$D_M(0.38)$	1528	1520^{+75}_{-73}
$\Omega_c h^2$	0.1192	$0.1202^{+0.0096}_{-0.0087}$	$r_{\text{drag}} h$	99.76	$99.9^{+2.6}_{-2.4}$	$H(0.51)$	89.76	$90.2^{+4.0}_{-3.8}$
$100\theta_{\text{MC}}$	1.04096	$1.0409^{+0.0014}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.428	$2.431^{+0.059}_{-0.058}$	$D_M(0.51)$	1979	1970^{+95}_{-93}
τ	0.0545	$0.055^{+0.021}_{-0.019}$	z_{re}	7.72	$7.8^{+2.0}_{-2.0}$	$H(0.61)$	95.37	$95.8^{+4.1}_{-3.9}$
N_{eff}	3.06	$3.12^{+0.59}_{-0.54}$	$10^9 A_s$	2.097	$2.10^{+0.10}_{-0.092}$	$D_M(0.61)$	2303	2293^{+110}_{-110}
$\ln(10^{10} A_s)$	3.0429	$3.047^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8801	$1.884^{+0.049}_{-0.050}$	$H(2.33)$	236.0	$236.9^{+8.3}_{-7.7}$
n_s	0.9680	$0.969^{+0.021}_{-0.021}$	D_{40}	1223.3	1225^{+37}_{-37}	$D_M(2.33)$	5760	5736^{+240}_{-230}
y_{cal}	1.0006	$1.0007^{+0.0063}_{-0.0063}$	D_{220}	5720	5725^{+100}_{-100}	$f\sigma_8(0.15)$	0.4552	$0.456^{+0.017}_{-0.017}$
A_{217}^{CIB}	48.0	48^{+20}_{-20}	D_{810}	2538.8	2538^{+35}_{-35}	$\sigma_8(0.15)$	0.7478	$0.751^{+0.029}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.42	—	D_{1420}	816.9	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4739	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	6.9	—	D_{2000}	230.5	$229.6^{+5.5}_{-5.5}$	$\sigma_8(0.38)$	0.6630	$0.666^{+0.027}_{-0.026}$
A_{100}^{PS}	253	265^{+80}_{-70}	$n_{s,0.002}$	0.9680	$0.969^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	0.4726	$0.474^{+0.017}_{-0.016}$
A_{143}^{PS}	50.5	49^{+20}_{-20}	Y_{P}	0.2455	$0.2464^{+0.0077}_{-0.0076}$	$\sigma_8(0.51)$	0.6205	$0.623^{+0.026}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	49.1	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2469	$0.2477^{+0.0077}_{-0.0076}$	$f\sigma_8(0.61)$	0.4678	$0.469^{+0.016}_{-0.016}$
A_{217}^{PS}	120.3	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.614	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	0.5905	$0.593^{+0.025}_{-0.024}$
A^{kSZ}	0.0	—	Age/Gyr	13.79	$13.73^{+0.56}_{-0.55}$	$f\sigma_8(2.33)$	0.2978	$0.299^{+0.013}_{-0.012}$
A_{100}^{dustTT}	8.89	$9.0^{+4.7}_{-4.7}$	z_*	1090.02	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3071	$0.308^{+0.014}_{-0.013}$
A_{143}^{dustTT}	10.81	$10.7^{+4.8}_{-4.6}$	r_*	144.7	$144.1^{+5.2}_{-5.3}$	f_{2000}^{143}	30.0	31^{+9}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	1.04115	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	33.0	34^{+6}_{-6}
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.894	$13.84^{+0.49}_{-0.49}$	f_{2000}^{217}	107.5	$108.3^{+5.8}_{-5.6}$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.59	$1059.8^{+2.1}_{-2.1}$	χ_{lensing}^2	8.92	$9.45 (\nu: 0.3)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	147.4	$146.8^{+5.5}_{-5.5}$	χ_{small}^2	396.08	$397.1 (\nu: 1.8)$
H_0	67.70	$68.1^{+3.7}_{-3.5}$	k_{D}	0.14043	$0.1408^{+0.0041}_{-0.0039}$	χ_{lowl}^2	22.79	$23.0 (\nu: 0.7)$
Ω_{Λ}	0.6899	$0.691^{+0.020}_{-0.020}$	$100\theta_{\text{D}}$	0.16101	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	760.1	$772.5 (\nu: 15.3)$
Ω_{m}	0.3101	$0.309^{+0.020}_{-0.020}$	z_{eq}	3374	3370^{+75}_{-77}	χ_{JLA}^2	706.71	$706.73 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.1421	$0.1432^{+0.0099}_{-0.0089}$	k_{eq}	0.010309	$0.01034^{+0.00034}_{-0.00033}$	$\chi_{6\text{DF}}^2$	0.022	$0.053 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.0962	$0.097^{+0.012}_{-0.011}$	$100\theta_{\text{eq}}$	0.8180	$0.819^{+0.015}_{-0.014}$	χ_{MGS}^2	1.28	$1.43 (\nu: 0.2)$
σ_8	0.8091	$0.812^{+0.031}_{-0.030}$	$100\theta_{\text{s,eq}}$	0.4519	$0.4523^{+0.0075}_{-0.0070}$	χ_{DR12BAO}^2	4.20	$4.6 (\nu: 1.1)$
S_8	0.8226	$0.824^{+0.033}_{-0.032}$	$H(0.15)$	72.97	$73.4^{+3.7}_{-3.5}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4506	$0.451^{+0.018}_{-0.018}$	$D_M(0.15)$	640.5	637^{+33}_{-32}	χ_{CMB}^2	1187.9	$1202.0 (\nu: 15.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6038	$0.605^{+0.021}_{-0.021}$	$H(0.38)$	83.05	$83.5^{+3.9}_{-3.7}$	χ_{BAO}^2	5.50	$6.1 (\nu: 0.7)$

Best-fit $\chi_{\text{eff}}^2 = 1901.41$; $\bar{\chi}_{\text{eff}}^2 = 1922.14$; $R - 1 = 0.01097$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.20 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.92 small_100x143_offlike5_EE_Aplanck_B: 396.08 commander_dx12.v3.2.29: 22.79 plik_rd12_HM.v22_TT: 760.13 SN - JLA December_2013: 706.71

7.39 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02228	$0.02228^{+0.00058}_{-0.00057}$	$\sigma_8/h^{0.5}$	0.9832	$0.984^{+0.024}_{-0.023}$	$D_M(0.38)$	1523	1519^{+74}_{-72}
$\Omega_c h^2$	0.1197	$0.1203^{+0.0096}_{-0.0087}$	$r_{\text{drag}} h$	99.88	$99.96^{+2.5}_{-2.4}$	$H(0.51)$	90.00	$90.2^{+3.9}_{-3.7}$
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0013}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.427	$2.430^{+0.058}_{-0.058}$	$D_M(0.51)$	1974	1968^{+94}_{-91}
τ	0.0545	$0.055^{+0.021}_{-0.019}$	z_{re}	7.72	$7.8^{+2.0}_{-2.0}$	$H(0.61)$	95.61	$95.9^{+4.0}_{-3.8}$
N_{eff}	3.09	$3.13^{+0.59}_{-0.54}$	$10^9 A_s$	2.099	$2.106^{+0.099}_{-0.092}$	$D_M(0.61)$	2297	2291^{+110}_{-100}
$\ln(10^{10} A_s)$	3.0441	$3.047^{+0.046}_{-0.044}$	$10^9 A_s e^{-2\tau}$	1.8823	$1.885^{+0.049}_{-0.049}$	$H(2.33)$	236.4	$236.9^{+8.3}_{-7.7}$
n_s	0.9689	$0.969^{+0.021}_{-0.021}$	D_{40}	1222.7	1224^{+36}_{-36}	$D_M(2.33)$	5746	5733^{+230}_{-230}
y_{cal}	1.0007	$1.0007^{+0.0063}_{-0.0063}$	D_{220}	5722	5725^{+100}_{-100}	$f\sigma_8(0.15)$	0.4553	$0.456^{+0.017}_{-0.017}$
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{810}	2539.1	2538^{+35}_{-35}	$\sigma_8(0.15)$	0.7490	$0.751^{+0.029}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.25	—	D_{1420}	816.6	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4742	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.2	$229.6^{+5.5}_{-5.5}$	$\sigma_8(0.38)$	0.6642	$0.666^{+0.027}_{-0.026}$
A_{100}^{PS}	256	265^{+80}_{-70}	$n_{s,0.002}$	0.9689	$0.969^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	0.4731	$0.474^{+0.016}_{-0.016}$
A_{143}^{PS}	48.4	49^{+20}_{-20}	Y_P	0.2460	$0.2464^{+0.0076}_{-0.0074}$	$\sigma_8(0.51)$	0.6217	$0.623^{+0.025}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	45.1	43^{+20}_{-20}	Y_P^{BBN}	0.2473	$0.2478^{+0.0076}_{-0.0075}$	$f\sigma_8(0.61)$	0.4683	$0.469^{+0.017}_{-0.016}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.619	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	0.5916	$0.593^{+0.024}_{-0.024}$
A^{kSZ}	0.0	—	Age/Gyr	13.76	$13.73^{+0.55}_{-0.54}$	$f\sigma_8(2.33)$	0.2984	$0.299^{+0.013}_{-0.012}$
A_{100}^{dustTT}	8.89	$9.0^{+4.7}_{-4.7}$	z_*	1090.05	$1090.1^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.3077	$0.309^{+0.014}_{-0.013}$
A_{143}^{dustTT}	10.78	$10.7^{+4.8}_{-4.6}$	r_*	144.4	$144.0^{+5.2}_{-5.3}$	f_{2000}^{143}	30.4	31^{+9}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	1.04109	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	33.2	34^{+6}_{-6}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.865	$13.84^{+0.49}_{-0.49}$	f_{2000}^{217}	107.7	$108.3^{+5.8}_{-5.7}$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.74	$1059.8^{+2.2}_{-2.1}$	χ_{lensing}^2	8.98	$9.45 (\nu: 0.3)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0015}$	r_{drag}	147.0	$146.7^{+5.4}_{-5.4}$	χ_{small}^2	396.05	$397.2 (\nu: 1.8)$
H_0	67.92	$68.1^{+3.6}_{-3.4}$	k_D	0.14067	$0.1409^{+0.0040}_{-0.0039}$	χ_{lowl}^2	22.70	$22.9 (\nu: 0.6)$
Ω_Λ	0.6909	$0.691^{+0.019}_{-0.020}$	$100\theta_D$	0.16107	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	760.1	$772.6 (\nu: 15.2)$
Ω_m	0.3091	$0.309^{+0.020}_{-0.019}$	z_{eq}	3372	3369^{+72}_{-75}	χ_{JLA}^2	1034.95	$1035.04 (\nu: 0.1)$
$\Omega_m h^2$	0.1426	$0.1432^{+0.0099}_{-0.0089}$	k_{eq}	0.010323	$0.01034^{+0.00034}_{-0.00033}$	$\chi_{6\text{DF}}^2$	0.016	$0.048 (\nu: 0.0)$
$\Omega_m h^3$	0.0969	$0.098^{+0.012}_{-0.010}$	$100\theta_{\text{eq}}$	0.8185	$0.819^{+0.014}_{-0.013}$	χ_{MGS}^2	1.34	$1.45 (\nu: 0.1)$
σ_8	0.8103	$0.812^{+0.031}_{-0.030}$	$100\theta_{s,\text{eq}}$	0.4522	$0.4525^{+0.0073}_{-0.0068}$	χ_{DR12BAO}^2	4.05	$4.5 (\nu: 0.9)$
S_8	0.8226	$0.824^{+0.033}_{-0.032}$	$H(0.15)$	73.19	$73.4^{+3.7}_{-3.5}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_m^{0.5}$	0.4506	$0.451^{+0.018}_{-0.017}$	$D_M(0.15)$	638.4	637^{+32}_{-32}	χ_{CMB}^2	1187.9	$1202.1 (\nu: 15.9)$
$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.605^{+0.021}_{-0.021}$	$H(0.38)$	83.29	$83.5^{+3.8}_{-3.6}$	χ_{BAO}^2	5.41	$6.0 (\nu: 0.6)$

Best-fit $\chi_{\text{eff}}^2 = 2229.65$; $\bar{\chi}_{\text{eff}}^2 = 2250.41$; $R - 1 = 0.01118$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.05 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.98 small_100x143.offlike5_EE_Aplanck_B: 396.06 commander_dx12.v3.2.29: 22.70 plik_rd12_HM.v22_TT: 760.14 SN - JLA Pantheon18: 1034.95

7.40 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02225^{+0.00059}_{-0.00056}$	$\sigma_8/h^{0.5}$	0.9835	$0.985^{+0.024}_{-0.023}$	$D_M(0.38)$	1530	1523^{+77}_{-75}
$\Omega_c h^2$	0.1192	$0.1201^{+0.0097}_{-0.0087}$	$r_{\text{drag}} h$	99.65	$99.8^{+2.7}_{-2.5}$	$H(0.51)$	89.67	$90.1^{+4.0}_{-3.8}$
$100\theta_{\text{MC}}$	1.04095	$1.0409^{+0.0014}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.432^{+0.059}_{-0.059}$	$D_M(0.51)$	1982	1973^{+97}_{-94}
τ	0.0544	$0.055^{+0.021}_{-0.019}$	z_{re}	7.70	$7.8^{+2.0}_{-2.0}$	$H(0.61)$	95.29	$95.7^{+4.1}_{-3.9}$
N_{eff}	3.05	$3.11^{+0.59}_{-0.55}$	$10^9 A_s$	2.095	$2.10^{+0.10}_{-0.094}$	$D_M(0.61)$	2306	2296^{+110}_{-110}
$\ln(10^{10} A_s)$	3.0420	$3.046^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8789	$1.884^{+0.050}_{-0.049}$	$H(2.33)$	235.9	$236.7^{+8.3}_{-7.7}$
n_s	0.9671	$0.968^{+0.021}_{-0.021}$	D_{40}	1224.7	1225^{+37}_{-37}	$D_M(2.33)$	5765	5742^{+240}_{-230}
y_{cal}	1.0005	$1.0007^{+0.0062}_{-0.0063}$	D_{220}	5720	5724^{+100}_{-100}	$f\sigma_8(0.15)$	0.4555	$0.456^{+0.017}_{-0.017}$
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{810}	2537.2	2538^{+35}_{-35}	$\sigma_8(0.15)$	0.7472	$0.750^{+0.029}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.23	—	D_{1420}	816.3	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4740	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	7.2	—	D_{2000}	230.3	$229.7^{+5.5}_{-5.5}$	$\sigma_8(0.38)$	0.6624	$0.665^{+0.027}_{-0.026}$
A_{100}^{PS}	254	265^{+80}_{-70}	$n_{s,0.002}$	0.9671	$0.968^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	0.4726	$0.474^{+0.017}_{-0.016}$
A_{143}^{PS}	47.5	49^{+20}_{-20}	Y_{P}	0.2454	$0.2462^{+0.0077}_{-0.0077}$	$\sigma_8(0.51)$	0.6199	$0.623^{+0.026}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	44.2	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2467	$0.2475^{+0.0078}_{-0.0077}$	$f\sigma_8(0.61)$	0.4677	$0.469^{+0.017}_{-0.016}$
A_{217}^{PS}	118.0	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.611	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	0.5899	$0.592^{+0.025}_{-0.024}$
A^{kSZ}	0.1	—	Age/Gyr	13.80	$13.75^{+0.57}_{-0.55}$	$f\sigma_8(2.33)$	0.2975	$0.299^{+0.013}_{-0.012}$
A_{100}^{dustTT}	9.00	$9.0^{+4.7}_{-4.7}$	z_*	1090.01	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3067	$0.308^{+0.014}_{-0.013}$
A_{143}^{dustTT}	10.76	$10.7^{+4.8}_{-4.6}$	r_*	144.7	$144.2^{+5.3}_{-5.3}$	f_{2000}^{143}	30.2	31^{+9}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.3}_{-8.6}$	$100\theta_*$	1.04113	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	33.1	34^{+6}_{-6}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.900	$13.85^{+0.49}_{-0.50}$	f_{2000}^{217}	107.6	$108.3^{+5.8}_{-5.6}$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.59	$1059.7^{+2.2}_{-2.1}$	χ_{lensing}^2	8.90	$9.42 (\nu: 0.3)$
c_{217}	0.99825	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	147.4	$146.9^{+5.5}_{-5.5}$	χ_{small}^2	396.08	$397.1 (\nu: 1.7)$
H_0	67.59	$68.0^{+3.8}_{-3.5}$	k_{D}	0.14040	$0.1408^{+0.0041}_{-0.0039}$	χ_{lowl}^2	22.94	$23.0 (\nu: 0.7)$
Ω_{Λ}	0.6890	$0.690^{+0.021}_{-0.021}$	$100\theta_{\text{D}}$	0.16098	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	759.7	$772.4 (\nu: 15.2)$
Ω_{m}	0.3110	$0.310^{+0.021}_{-0.021}$	z_{eq}	3378	3373^{+76}_{-79}	$\chi_{6\text{DF}}^2$	0.029	$0.060 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.1421	$0.143^{+0.010}_{-0.0088}$	k_{eq}	0.010313	$0.01034^{+0.00034}_{-0.00033}$	χ_{MGS}^2	1.22	$1.37 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	0.0960	$0.097^{+0.012}_{-0.011}$	$100\theta_{\text{eq}}$	0.8173	$0.818^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	4.38	$4.8 (\nu: 1.3)$
σ_8	0.8086	$0.812^{+0.031}_{-0.030}$	$100\theta_{\text{s,eq}}$	0.4516	$0.4521^{+0.0077}_{-0.0071}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.6)$
S_8	0.8233	$0.825^{+0.033}_{-0.032}$	$H(0.15)$	72.87	$73.2^{+3.8}_{-3.6}$	χ_{CMB}^2	1187.6	$1201.9 (\nu: 15.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4509	$0.452^{+0.018}_{-0.018}$	$D_M(0.15)$	641.4	638^{+34}_{-33}	χ_{BAO}^2	5.63	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6038	$0.606^{+0.021}_{-0.021}$	$H(0.38)$	82.96	$83.4^{+3.9}_{-3.7}$			

Best-fit $\chi_{\text{eff}}^2 = 1194.71$; $\bar{\chi}_{\text{eff}}^2 = 1215.41$; $R - 1 = 0.01056$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.38 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.90 small_100x143_offlike5_EE_Aplanck_B: 396.08 commander_dx12.v3.2.29: 22.94 plik_rd12_HM.v22_TT: 759.72

7.41 base_nnu_plikHM_TT_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00056}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.982^{+0.033}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1528^{+63}_{-62}
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0084}_{-0.0076}$	$r_{\mathrm{drag}} h$	$99.8^{+2.7}_{-2.5}$	$H(0.51)$	$89.8^{+3.3}_{-3.1}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.074}_{-0.072}$	$D_{\mathrm{M}}(0.51)$	1980^{+80}_{-79}
τ	$0.054^{+0.022}_{-0.022}$	z_{re}	$7.6^{+2.1}_{-2.4}$	$H(0.61)$	$95.4^{+3.3}_{-3.2}$
N_{eff}	$3.06^{+0.48}_{-0.44}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.10}$	$D_{\mathrm{M}}(0.61)$	2304^{+92}_{-90}
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.051}_{-0.051}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.047}_{-0.045}$	$H(2.33)$	$235.9^{+7.1}_{-6.6}$
n_{s}	$0.967^{+0.019}_{-0.018}$	D_{40}	1225^{+36}_{-36}	$D_{\mathrm{M}}(2.33)$	5762^{+190}_{-190}
y_{cal}	$1.0006^{+0.0062}_{-0.0064}$	D_{220}	5720^{+100}_{-100}	$f\sigma_8(0.15)$	$0.454^{+0.022}_{-0.021}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-37}	$\sigma_8(0.15)$	$0.747^{+0.029}_{-0.027}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.473^{+0.020}_{-0.019}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+5.2}_{-5.3}$	$\sigma_8(0.38)$	$0.662^{+0.026}_{-0.025}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.967^{+0.019}_{-0.018}$	$f\sigma_8(0.51)$	$0.472^{+0.019}_{-0.018}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2455^{+0.0063}_{-0.0062}$	$\sigma_8(0.51)$	$0.619^{+0.025}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2468^{+0.0064}_{-0.0062}$	$f\sigma_8(0.61)$	$0.467^{+0.019}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.15}_{-0.14}$	$\sigma_8(0.61)$	$0.590^{+0.023}_{-0.023}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.80^{+0.46}_{-0.45}$	$f\sigma_8(2.33)$	$0.297^{+0.012}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	z_*	$1090.0^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.307^{+0.013}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.7^{+4.4}_{-4.5}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.7}$	$100\theta_*$	$1.0412^{+0.0015}_{-0.0015}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.41}_{-0.42}$	f_{2000}^{217}	$108.0^{+5.6}_{-5.3}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.8}_{-1.9}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	$147.4^{+4.6}_{-4.6}$	χ_{lowl}^2	$23.0 (\nu: 0.6)$
H_0	$67.7^{+3.1}_{-2.9}$	k_{D}	$0.1404^{+0.0035}_{-0.0033}$	χ_{plik}^2	$772.6 (\nu: 15.5)$
Ω_{Λ}	$0.690^{+0.021}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0013}_{-0.0012}$	χ_{Aver15}^2	$0.60 (\nu: 0.3)$
Ω_{m}	$0.310^{+0.020}_{-0.021}$	z_{eq}	3373^{+77}_{-79}	$\chi_{6\mathrm{DF}}^2$	$0.062 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0086}_{-0.0077}$	k_{eq}	$0.01030^{+0.00033}_{-0.00031}$	χ_{MGS}^2	$1.37 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0096}_{-0.0086}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.015}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.4)$
σ_8	$0.808^{+0.031}_{-0.030}$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0078}_{-0.0072}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
S_8	$0.821^{+0.042}_{-0.039}$	$H(0.15)$	$73.0^{+3.1}_{-3.0}$	χ_{BAO}^2	$6.2 (\nu: 1.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.023}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	641^{+28}_{-27}	χ_{CMB}^2	$1192.7 (\nu: 15.3)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.025}_{-0.023}$	$H(0.38)$	$83.0^{+3.2}_{-3.0}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.79; R - 1 = 0.01271$

7.42 base_nnu_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00056}_{-0.00054}$	$r_{\text{drag}} h$	$99.8^{+2.7}_{-2.5}$	$D_{\text{M}}(0.51)$	1980^{+75}_{-75}
$\Omega_c h^2$	$0.1191^{+0.0076}_{-0.0071}$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.074}_{-0.071}$	$H(0.61)$	$95.3^{+3.1}_{-3.0}$
$100\theta_{\text{MC}}$	$1.0410^{+0.0012}_{-0.0012}$	z_{re}	$7.6^{+2.1}_{-2.4}$	$D_{\text{M}}(0.61)$	2304^{+86}_{-86}
τ	$0.054^{+0.022}_{-0.022}$	$10^9 A_{\text{s}}$	$2.09^{+0.11}_{-0.10}$	$H(2.33)$	$235.9^{+6.5}_{-6.2}$
N_{eff}	$3.06^{+0.44}_{-0.41}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.044}_{-0.044}$	$D_{\text{M}}(2.33)$	5763^{+180}_{-180}
$\ln(10^{10} A_{\text{s}})$	$3.040^{+0.051}_{-0.049}$	D_{40}	1225^{+35}_{-36}	$f\sigma_8(0.15)$	$0.454^{+0.022}_{-0.021}$
n_{s}	$0.967^{+0.018}_{-0.018}$	D_{220}	5720^{+99}_{-100}	$\sigma_8(0.15)$	$0.746^{+0.028}_{-0.026}$
y_{cal}	$1.0006^{+0.0062}_{-0.0065}$	D_{810}	2536^{+36}_{-37}	$f\sigma_8(0.38)$	$0.473^{+0.020}_{-0.018}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+12}_{-13}	$\sigma_8(0.38)$	$0.662^{+0.025}_{-0.024}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$229.9^{+4.8}_{-4.9}$	$f\sigma_8(0.51)$	$0.472^{+0.019}_{-0.017}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.967^{+0.018}_{-0.018}$	$\sigma_8(0.51)$	$0.619^{+0.023}_{-0.023}$
A_{100}^{PS}	264^{+70}_{-70}	Y_{P}	$0.2455^{+0.0058}_{-0.0058}$	$f\sigma_8(0.61)$	$0.467^{+0.018}_{-0.017}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2468^{+0.0058}_{-0.0059}$	$\sigma_8(0.61)$	$0.589^{+0.023}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	10^5D/H	$2.62^{+0.13}_{-0.12}$	$f\sigma_8(2.33)$	$0.297^{+0.012}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.80^{+0.43}_{-0.42}$	$\sigma_8(2.33)$	$0.307^{+0.012}_{-0.012}$
A^{kSZ}	—	z_*	$1090.04^{+0.94}_{-0.96}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.7}$	r_*	$144.7^{+4.2}_{-4.1}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
A_{143}^{dustTT}	$10.7^{+4.8}_{-4.6}$	$100\theta_*$	$1.0412^{+0.0014}_{-0.0014}$	f_{2000}^{217}	$108.0^{+5.4}_{-5.0}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.3}_{-8.7}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.90^{+0.39}_{-0.38}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
A_{217}^{dustTT}	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.8}_{-1.9}$	χ_{lowl}^2	$23.1 (\nu: 0.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.5^{+4.4}_{-4.3}$	χ_{plik}^2	$772.4 (\nu: 15.2)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	k_{D}	$0.1403^{+0.0033}_{-0.0032}$	χ_{Aver15}^2	$0.54 (\nu: 0.2)$
H_0	$67.7^{+3.0}_{-2.8}$	$100\theta_{\text{D}}$	$0.1610^{+0.0011}_{-0.0011}$	χ_{Cooke17}^2	$0.27 (\nu: 0.1)$
Ω_{Λ}	$0.690^{+0.021}_{-0.020}$	z_{eq}	3373^{+77}_{-79}	$\chi_{6\text{DF}}^2$	$0.062 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.020}_{-0.021}$	k_{eq}	$0.01030^{+0.00032}_{-0.00030}$	χ_{MGS}^2	$1.37 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0078}_{-0.0073}$	$100\theta_{\text{eq}}$	$0.818^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.4)$
$\Omega_{\text{m}} h^3$	$0.0961^{+0.0088}_{-0.0081}$	$100\theta_{\text{s,eq}}$	$0.4521^{+0.0078}_{-0.0072}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.808^{+0.030}_{-0.028}$	$H(0.15)$	$73.0^{+3.0}_{-2.8}$	χ_{BAO}^2	$6.3 (\nu: 1.0)$
S_8	$0.821^{+0.041}_{-0.039}$	$D_{\text{M}}(0.15)$	641^{+26}_{-26}	χ_{CMB}^2	$1192.5 (\nu: 15.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.023}_{-0.021}$	$H(0.38)$	$83.0^{+3.0}_{-2.9}$	χ_{Abund}^2	$0.81 (\nu: 0.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.025}_{-0.023}$	$D_{\text{M}}(0.38)$	1528^{+60}_{-59}		
$\sigma_8/h^{0.5}$	$0.982^{+0.032}_{-0.030}$	$H(0.51)$	$89.7^{+3.1}_{-2.9}$		

$$\bar{\chi}_{\text{eff}}^2 = 1206.80; R - 1 = 0.01238$$

7.43 base_nnu_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02227^{+0.00058}_{-0.00058}$	$\sigma_8/h^{0.5}$	$0.984^{+0.032}_{-0.029}$	$D_M(0.38)$	1517^{+76}_{-75}
$\Omega_c h^2$	$0.121^{+0.010}_{-0.0093}$	$r_{\text{drag}} h$	$99.99^{+2.8}_{-2.6}$	$H(0.51)$	$90.4^{+4.1}_{-3.8}$
$100\theta_{\text{MC}}$	$1.0408^{+0.0014}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.072}_{-0.068}$	$D_M(0.51)$	1965^{+96}_{-95}
τ	$0.055^{+0.020}_{-0.014}$	z_{re}	< 9.65	$H(0.61)$	$96.0^{+4.2}_{-3.9}$
N_{eff}	$3.15^{+0.63}_{-0.56}$	$10^9 A_s$	$2.11^{+0.11}_{-0.087}$	$D_M(0.61)$	2287^{+110}_{-110}
$\ln(10^{10} A_s)$	$3.047^{+0.051}_{-0.042}$	$10^9 A_s e^{-2\tau}$	$1.885^{+0.055}_{-0.053}$	$H(2.33)$	$237.2^{+9.0}_{-8.2}$
n_s	$0.970^{+0.021}_{-0.021}$	D_{40}	1222^{+38}_{-38}	$D_M(2.33)$	5725^{+240}_{-240}
y_{cal}	$1.0006^{+0.0063}_{-0.0065}$	D_{220}	5719^{+100}_{-110}	$f\sigma_8(0.15)$	$0.456^{+0.022}_{-0.021}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+36}_{-37}	$\sigma_8(0.15)$	$0.752^{+0.033}_{-0.030}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+13}_{-14}	$f\sigma_8(0.38)$	$0.475^{+0.021}_{-0.020}$
A_{143}^{tSZ}	—	D_{2000}	$229.4^{+5.6}_{-5.7}$	$\sigma_8(0.38)$	$0.667^{+0.030}_{-0.027}$
A_{100}^{PS}	266^{+70}_{-70}	$n_{\text{s},0.002}$	$0.970^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	$0.474^{+0.020}_{-0.019}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2467^{+0.0080}_{-0.0077}$	$\sigma_8(0.51)$	$0.624^{+0.028}_{-0.026}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2480^{+0.0081}_{-0.0078}$	$f\sigma_8(0.61)$	$0.470^{+0.020}_{-0.018}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.64^{+0.19}_{-0.16}$	$\sigma_8(0.61)$	$0.594^{+0.027}_{-0.025}$
A^{kSZ}	—	Age/Gyr	$13.71^{+0.57}_{-0.56}$	$f\sigma_8(2.33)$	$0.300^{+0.014}_{-0.013}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.7}$	z_*	$1090.2^{+1.3}_{-1.2}$	$\sigma_8(2.33)$	$0.309^{+0.015}_{-0.014}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.7}$	r_*	$143.9^{+5.5}_{-5.6}$	f_{2000}^{143}	32^{+9}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.5}_{-8.7}$	$100\theta_*$	$1.0410^{+0.0017}_{-0.0017}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.82^{+0.51}_{-0.52}$	f_{2000}^{217}	$108.4^{+5.9}_{-5.7}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.8^{+2.2}_{-2.2}$	χ_{simall}^2	$397.0 (\nu: 1.9)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.6^{+5.7}_{-5.8}$	χ_{lowl}^2	$22.8 (\nu: 0.7)$
H_0	$68.2^{+3.8}_{-3.5}$	k_{D}	$0.1410^{+0.0044}_{-0.0041}$	χ_{plik}^2	$773.0 (\nu: 16.0)$
Ω_{Λ}	$0.692^{+0.021}_{-0.022}$	$100\theta_{\text{D}}$	$0.1613^{+0.0016}_{-0.0014}$	$\chi_{6\text{DF}}^2$	$0.056 (\nu: 0.0)$
Ω_{m}	$0.308^{+0.022}_{-0.021}$	z_{eq}	3368^{+81}_{-82}	χ_{MGS}^2	$1.48 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	$0.144^{+0.011}_{-0.0096}$	k_{eq}	$0.01035^{+0.00039}_{-0.00036}$	χ_{DR12BAO}^2	$4.6 (\nu: 1.2)$
$\Omega_{\text{m}} h^3$	$0.098^{+0.013}_{-0.011}$	$100\theta_{\text{eq}}$	$0.819^{+0.016}_{-0.015}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.813^{+0.035}_{-0.032}$	$100\theta_{\text{s,eq}}$	$0.4526^{+0.0081}_{-0.0077}$	χ_{BAO}^2	$6.2 (\nu: 0.8)$
S_8	$0.824^{+0.042}_{-0.040}$	$H(0.15)$	$73.5^{+3.9}_{-3.6}$	χ_{CMB}^2	$1192.8 (\nu: 15.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.023}_{-0.022}$	$D_M(0.15)$	636^{+33}_{-33}		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.606^{+0.027}_{-0.025}$	$H(0.38)$	$83.6^{+4.0}_{-3.7}$		

$\bar{\chi}_{\text{eff}}^2 = 1206.29; R - 1 = 0.01028$

7.44 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing_JLA_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02227^{+0.00058}_{-0.00057}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1520^{+75}_{-73}
$\Omega_{\mathrm{c}}h^2$	$0.1202^{+0.0096}_{-0.0087}$	$r_{\mathrm{drag}}h$	$99.9^{+2.6}_{-2.4}$	$H(0.51)$	$90.2^{+4.0}_{-3.8}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.058}_{-0.057}$	$D_{\mathrm{M}}(0.51)$	1969^{+94}_{-93}
τ	$0.056^{+0.019}_{-0.014}$	z_{re}	< 9.62	$H(0.61)$	$95.8^{+4.1}_{-3.9}$
N_{eff}	$3.13^{+0.59}_{-0.54}$	$10^9 A_{\mathrm{s}}$	$2.108^{+0.098}_{-0.079}$	$D_{\mathrm{M}}(0.61)$	2292^{+110}_{-110}
$\ln(10^{10} A_{\mathrm{s}})$	$3.048^{+0.045}_{-0.038}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.884^{+0.049}_{-0.050}$	$H(2.33)$	$236.9^{+8.3}_{-7.7}$
n_{s}	$0.969^{+0.021}_{-0.021}$	D_{40}	1224^{+36}_{-37}	$D_{\mathrm{M}}(2.33)$	5735^{+230}_{-230}
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	D_{220}	5724^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+35}_{-35}	$\sigma_8(0.15)$	$0.751^{+0.029}_{-0.028}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$229.6^{+5.6}_{-5.5}$	$\sigma_8(0.38)$	$0.666^{+0.027}_{-0.026}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.969^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2464^{+0.0077}_{-0.0076}$	$\sigma_8(0.51)$	$0.624^{+0.025}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2477^{+0.0077}_{-0.0076}$	$f\sigma_8(0.61)$	$0.470^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	$0.593^{+0.024}_{-0.023}$
A^{kSZ}	—	Age/Gyr	$13.73^{+0.56}_{-0.54}$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	z_*	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.309^{+0.014}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.1^{+5.2}_{-5.3}$	f_{2000}^{143}	31^{+9}_{-9}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.84^{+0.49}_{-0.49}$	f_{2000}^{217}	$108.3^{+5.8}_{-5.6}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.8^{+2.2}_{-2.1}$	$\chi_{\mathrm{lensing}}^2$	$9.41 \ (\nu: 0.3)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	$146.8^{+5.4}_{-5.5}$	χ_{simall}^2	$397.1 \ (\nu: 1.9)$
H_0	$68.1^{+3.7}_{-3.5}$	k_{D}	$0.1409^{+0.0041}_{-0.0039}$	χ_{lowl}^2	$22.9 \ (\nu: 0.7)$
Ω_{Λ}	$0.691^{+0.020}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	$772.4 \ (\nu: 15.2)$
Ω_{m}	$0.309^{+0.020}_{-0.020}$	z_{eq}	3370^{+73}_{-77}	χ_{JLA}^2	$706.72 \ (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1432^{+0.0099}_{-0.0089}$	k_{eq}	$0.01034^{+0.00034}_{-0.00033}$	$\chi_{6\mathrm{DF}}^2$	$0.051 \ (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^3$	$0.098^{+0.012}_{-0.011}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.015}_{-0.014}$	χ_{MGS}^2	$1.44 \ (\nu: 0.1)$
σ_8	$0.813^{+0.030}_{-0.029}$	$100\theta_{\mathrm{s,eq}}$	$0.4524^{+0.0075}_{-0.0070}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \ (\nu: 1.0)$
S_8	$0.824^{+0.033}_{-0.032}$	$H(0.15)$	$73.4^{+3.7}_{-3.5}$	χ_{prior}^2	$7.3 \ (\nu: 6.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$D_{\mathrm{M}}(0.15)$	637^{+33}_{-32}	χ_{CMB}^2	$1201.9 \ (\nu: 15.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.021}_{-0.021}$	$H(0.38)$	$83.5^{+3.9}_{-3.7}$	χ_{BAO}^2	$6.1 \ (\nu: 0.7)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1921.98; R - 1 = 0.01169$

7.45 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02228^{+0.00057}_{-0.00057}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$D_M(0.38)$	1519^{+74}_{-72}
$\Omega_c h^2$	$0.1203^{+0.0096}_{-0.0088}$	$r_{\text{drag}} h$	$99.98^{+2.5}_{-2.4}$	$H(0.51)$	$90.3^{+3.9}_{-3.7}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0013}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.057}_{-0.056}$	$D_M(0.51)$	1968^{+94}_{-91}
τ	$0.056^{+0.019}_{-0.014}$	z_{re}	< 9.62	$H(0.61)$	$95.9^{+4.0}_{-3.8}$
N_{eff}	$3.13^{+0.59}_{-0.54}$	$10^9 A_s$	$2.108^{+0.097}_{-0.079}$	$D_M(0.61)$	2290^{+110}_{-100}
$\ln(10^{10} A_s)$	$3.048^{+0.045}_{-0.038}$	$10^9 A_s e^{-2\tau}$	$1.885^{+0.049}_{-0.049}$	$H(2.33)$	$236.9^{+8.3}_{-7.7}$
n_s	$0.969^{+0.021}_{-0.020}$	D_{40}	1224^{+36}_{-36}	$D_M(2.33)$	5732^{+230}_{-230}
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	D_{220}	5725^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+35}_{-35}	$\sigma_8(0.15)$	$0.751^{+0.029}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$229.6^{+5.6}_{-5.5}$	$\sigma_8(0.38)$	$0.666^{+0.027}_{-0.025}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{s,0.002}$	$0.969^{+0.021}_{-0.020}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2465^{+0.0076}_{-0.0074}$	$\sigma_8(0.51)$	$0.624^{+0.025}_{-0.024}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2478^{+0.0077}_{-0.0074}$	$f\sigma_8(0.61)$	$0.470^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	$0.594^{+0.024}_{-0.023}$
A^{kSZ}	—	Age/Gyr	$13.72^{+0.55}_{-0.54}$	$f\sigma_8(2.33)$	$0.299^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.7}$	z_*	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.309^{+0.013}_{-0.013}$
A_{143}^{dustTT}	$10.7^{+4.8}_{-4.6}$	r_*	$144.0^{+5.2}_{-5.3}$	f_{2000}^{143}	31^{+9}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.48}_{-0.49}$	f_{2000}^{217}	$108.3^{+5.8}_{-5.6}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.8^{+2.1}_{-2.1}$	χ_{lensing}^2	$9.42 (\nu: 0.3)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	$146.7^{+5.4}_{-5.4}$	χ_{simall}^2	$397.1 (\nu: 1.9)$
H_0	$68.2^{+3.6}_{-3.4}$	k_{D}	$0.1409^{+0.0040}_{-0.0039}$	χ_{lowl}^2	$22.9 (\nu: 0.6)$
Ω_{Λ}	$0.692^{+0.019}_{-0.020}$	$100\theta_{\text{D}}$	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	$772.5 (\nu: 15.1)$
Ω_{m}	$0.308^{+0.020}_{-0.019}$	z_{eq}	3368^{+71}_{-74}	χ_{JLA}^2	$1035.03 (\nu: 0.1)$
$\Omega_{\text{m}} h^2$	$0.1432^{+0.0099}_{-0.0090}$	k_{eq}	$0.01034^{+0.00034}_{-0.00033}$	$\chi_{6\text{DF}}^2$	$0.047 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.098^{+0.012}_{-0.010}$	$100\theta_{\text{eq}}$	$0.819^{+0.014}_{-0.013}$	χ_{MGS}^2	$1.47 (\nu: 0.1)$
σ_8	$0.813^{+0.030}_{-0.029}$	$100\theta_{\text{s,eq}}$	$0.4525^{+0.0073}_{-0.0068}$	χ_{DR12BAO}^2	$4.5 (\nu: 0.9)$
S_8	$0.824^{+0.033}_{-0.031}$	$H(0.15)$	$73.4^{+3.7}_{-3.5}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.018}_{-0.017}$	$D_M(0.15)$	636^{+33}_{-31}	χ_{CMB}^2	$1202.0 (\nu: 15.6)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.606^{+0.021}_{-0.021}$	$H(0.38)$	$83.5^{+3.8}_{-3.6}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$

$\bar{\chi}_{\text{eff}}^2 = 2250.26; R - 1 = 0.01176$

7.46 base_nnu_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00059}_{-0.00056}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1522^{+76}_{-74}
$\Omega_{\mathrm{c}}h^2$	$0.1201^{+0.0097}_{-0.0087}$	$r_{\mathrm{drag}}h$	$99.8^{+2.7}_{-2.4}$	$H(0.51)$	$90.1^{+4.0}_{-3.8}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.058}_{-0.058}$	$D_{\mathrm{M}}(0.51)$	1972^{+95}_{-94}
τ	$0.056^{+0.019}_{-0.014}$	z_{re}	< 9.60	$H(0.61)$	$95.7^{+4.1}_{-3.9}$
N_{eff}	$3.11^{+0.59}_{-0.54}$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.098}_{-0.079}$	$D_{\mathrm{M}}(0.61)$	2295^{+110}_{-110}
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.046}_{-0.038}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.884^{+0.050}_{-0.049}$	$H(2.33)$	$236.8^{+8.4}_{-7.7}$
n_{s}	$0.968^{+0.021}_{-0.021}$	D_{40}	1225^{+37}_{-37}	$D_{\mathrm{M}}(2.33)$	5741^{+240}_{-230}
y_{cal}	$1.0007^{+0.0063}_{-0.0063}$	D_{220}	5724^{+100}_{-100}	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+35}_{-35}	$\sigma_8(0.15)$	$0.751^{+0.029}_{-0.028}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+5.5}_{-5.5}$	$\sigma_8(0.38)$	$0.666^{+0.027}_{-0.025}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.021}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2462^{+0.0077}_{-0.0076}$	$\sigma_8(0.51)$	$0.623^{+0.026}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2475^{+0.0077}_{-0.0076}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.17}_{-0.16}$	$\sigma_8(0.61)$	$0.593^{+0.025}_{-0.023}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.56}_{-0.55}$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	z_*	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.308^{+0.014}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.2^{+5.3}_{-5.3}$	f_{2000}^{143}	31^{+9}_{-9}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.6}$	$100\theta_*$	$1.0410^{+0.0016}_{-0.0017}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.85^{+0.49}_{-0.50}$	f_{2000}^{217}	$108.2^{+5.8}_{-5.6}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.7^{+2.1}_{-2.1}$	$\chi_{\mathrm{lensing}}^2$	$9.39 (\nu: 0.3)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	$146.9^{+5.5}_{-5.5}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
H_0	$68.0^{+3.8}_{-3.5}$	k_{D}	$0.1408^{+0.0041}_{-0.0039}$	χ_{lowl}^2	$23.0 (\nu: 0.7)$
Ω_{Λ}	$0.690^{+0.020}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0015}_{-0.0014}$	χ_{plik}^2	$772.3 (\nu: 15.1)$
Ω_{m}	$0.310^{+0.020}_{-0.020}$	z_{eq}	3372^{+75}_{-78}	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.143^{+0.010}_{-0.0088}$	k_{eq}	$0.01034^{+0.00034}_{-0.00033}$	χ_{MGS}^2	$1.39 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^3$	$0.097^{+0.012}_{-0.011}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.015}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.2)$
σ_8	$0.812^{+0.030}_{-0.029}$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0077}_{-0.0071}$	χ_{prior}^2	$7.2 (\nu: 6.6)$
S_8	$0.825^{+0.033}_{-0.032}$	$H(0.15)$	$73.3^{+3.8}_{-3.5}$	χ_{CMB}^2	$1201.8 (\nu: 15.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$D_{\mathrm{M}}(0.15)$	638^{+34}_{-33}	χ_{BAO}^2	$6.2 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.021}_{-0.021}$	$H(0.38)$	$83.4^{+3.9}_{-3.7}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1215.24; R - 1 = 0.01151$

7.47 base_nnu_plikHM_TT_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00056}_{-0.00053}$	$\sigma_8/h^{0.5}$	$0.983^{+0.032}_{-0.028}$	$D_{\mathrm{M}}(0.38)$	1528^{+63}_{-62}
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0084}_{-0.0077}$	$r_{\mathrm{drag}} h$	$99.8^{+2.7}_{-2.5}$	$H(0.51)$	$89.8^{+3.3}_{-3.1}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.072}_{-0.067}$	$D_{\mathrm{M}}(0.51)$	1979^{+79}_{-78}
τ	$0.055^{+0.019}_{-0.013}$	z_{re}	< 9.59	$H(0.61)$	$95.4^{+3.3}_{-3.2}$
N_{eff}	$3.06^{+0.48}_{-0.45}$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.080}$	$D_{\mathrm{M}}(0.61)$	2303^{+91}_{-89}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.049}_{-0.039}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.047}_{-0.045}$	$H(2.33)$	$236.0^{+7.1}_{-6.6}$
n_{s}	$0.967^{+0.019}_{-0.018}$	D_{40}	1225^{+36}_{-36}	$D_{\mathrm{M}}(2.33)$	5760^{+190}_{-190}
y_{cal}	$1.0006^{+0.0062}_{-0.0063}$	D_{220}	5720^{+100}_{-100}	$f\sigma_8(0.15)$	$0.455^{+0.022}_{-0.020}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-37}	$\sigma_8(0.15)$	$0.748^{+0.028}_{-0.025}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.020}_{-0.018}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+5.2}_{-5.3}$	$\sigma_8(0.38)$	$0.663^{+0.025}_{-0.023}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.967^{+0.019}_{-0.018}$	$f\sigma_8(0.51)$	$0.472^{+0.019}_{-0.017}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2455^{+0.0063}_{-0.0063}$	$\sigma_8(0.51)$	$0.620^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2469^{+0.0063}_{-0.0063}$	$f\sigma_8(0.61)$	$0.468^{+0.018}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.15}_{-0.14}$	$\sigma_8(0.61)$	$0.590^{+0.023}_{-0.021}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.79^{+0.46}_{-0.45}$	$f\sigma_8(2.33)$	$0.298^{+0.012}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.6}$	z_*	$1090.0^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.307^{+0.013}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.7^{+4.5}_{-4.5}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.3}_{-8.7}$	$100\theta_*$	$1.0412^{+0.0015}_{-0.0015}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.42}_{-0.42}$	f_{2000}^{217}	$108.0^{+5.6}_{-5.3}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.6^{+1.9}_{-1.9}$	χ_{simall}^2	$397.0 (\nu: 1.8)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	r_{drag}	$147.4^{+4.6}_{-4.7}$	χ_{lowl}^2	$23.0 (\nu: 0.6)$
H_0	$67.7^{+3.1}_{-2.9}$	k_{D}	$0.1404^{+0.0035}_{-0.0033}$	χ_{plik}^2	$772.4 (\nu: 15.1)$
Ω_{Λ}	$0.690^{+0.020}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0013}_{-0.0012}$	χ_{Aver15}^2	$0.61 (\nu: 0.3)$
Ω_{m}	$0.310^{+0.020}_{-0.020}$	z_{eq}	3372^{+78}_{-79}	$\chi_{6\mathrm{DF}}^2$	$0.060 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0086}_{-0.0078}$	k_{eq}	$0.01030^{+0.00034}_{-0.00032}$	χ_{MGS}^2	$1.39 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0963^{+0.0096}_{-0.0087}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.015}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.4)$
σ_8	$0.809^{+0.031}_{-0.027}$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0078}_{-0.0072}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
S_8	$0.822^{+0.042}_{-0.039}$	$H(0.15)$	$73.0^{+3.1}_{-2.9}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.023}_{-0.021}$	$D_{\mathrm{M}}(0.15)$	640^{+28}_{-27}	χ_{CMB}^2	$1192.4 (\nu: 14.6)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.025}_{-0.023}$	$H(0.38)$	$83.1^{+3.2}_{-3.0}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.51; R - 1 = 0.01186$

7.48 base_nnu_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02223^{+0.00055}_{-0.00053}$	$r_{\text{drag}} h$	$99.8^{+2.7}_{-2.6}$	$D_{\text{M}}(0.51)$	1979^{+75}_{-75}
$\Omega_c h^2$	$0.1192^{+0.0076}_{-0.0071}$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.073}_{-0.067}$	$H(0.61)$	$95.4^{+3.1}_{-3.0}$
$100\theta_{\text{MC}}$	$1.0410^{+0.0012}_{-0.0012}$	z_{re}	< 9.59	$D_{\text{M}}(0.61)$	2303^{+85}_{-85}
τ	$0.055^{+0.019}_{-0.013}$	$10^9 A_{\text{s}}$	$2.10^{+0.10}_{-0.078}$	$H(2.33)$	$235.9^{+6.5}_{-6.3}$
N_{eff}	$3.06^{+0.44}_{-0.42}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.044}_{-0.044}$	$D_{\text{M}}(2.33)$	5761^{+180}_{-180}
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.049}_{-0.038}$	D_{40}	1225^{+35}_{-36}	$f\sigma_8(0.15)$	$0.455^{+0.021}_{-0.020}$
n_{s}	$0.967^{+0.018}_{-0.017}$	D_{220}	5720^{+100}_{-100}	$\sigma_8(0.15)$	$0.748^{+0.027}_{-0.024}$
y_{cal}	$1.0006^{+0.0062}_{-0.0064}$	D_{810}	2536^{+37}_{-37}	$f\sigma_8(0.38)$	$0.474^{+0.019}_{-0.018}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+12}_{-13}	$\sigma_8(0.38)$	$0.663^{+0.024}_{-0.022}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$229.9^{+4.8}_{-4.9}$	$f\sigma_8(0.51)$	$0.472^{+0.018}_{-0.017}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.967^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	$0.620^{+0.023}_{-0.021}$
A_{100}^{PS}	264^{+70}_{-70}	Y_{P}	$0.2455^{+0.0058}_{-0.0059}$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2468^{+0.0058}_{-0.0059}$	$\sigma_8(0.61)$	$0.590^{+0.022}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	10^5D/H	$2.62^{+0.13}_{-0.12}$	$f\sigma_8(2.33)$	$0.298^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.79^{+0.43}_{-0.42}$	$\sigma_8(2.33)$	$0.307^{+0.012}_{-0.011}$
A^{kSZ}	—	z_*	$1090.04^{+0.94}_{-0.96}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.5}$	r_*	$144.7^{+4.2}_{-4.1}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
A_{143}^{dustTT}	$10.7^{+4.8}_{-4.7}$	$100\theta_*$	$1.0412^{+0.0014}_{-0.0014}$	f_{2000}^{217}	$107.9^{+5.3}_{-5.1}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.3}_{-8.7}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.90^{+0.40}_{-0.38}$	χ_{simall}^2	$397.0 (\nu: 1.8)$
A_{217}^{dustTT}	93^{+20}_{-20}	z_{drag}	$1059.6^{+1.8}_{-1.9}$	χ_{lowl}^2	$23.1 (\nu: 0.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.4^{+4.4}_{-4.3}$	χ_{plik}^2	$772.2 (\nu: 14.8)$
c_{217}	$0.9983^{+0.0015}_{-0.0015}$	k_{D}	$0.1404^{+0.0033}_{-0.0032}$	χ_{Aver15}^2	$0.55 (\nu: 0.2)$
H_0	$67.7^{+3.0}_{-2.8}$	$100\theta_{\text{D}}$	$0.1610^{+0.0011}_{-0.0011}$	χ_{Cooke17}^2	$0.27 (\nu: 0.1)$
Ω_{Λ}	$0.690^{+0.021}_{-0.020}$	z_{eq}	3372^{+77}_{-80}	$\chi_{6\text{DF}}^2$	$0.060 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.020}_{-0.021}$	k_{eq}	$0.01030^{+0.00032}_{-0.00031}$	χ_{MGS}^2	$1.39 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	$0.1420^{+0.0078}_{-0.0073}$	$100\theta_{\text{eq}}$	$0.818^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.4)$
$\Omega_{\text{m}} h^3$	$0.0962^{+0.0088}_{-0.0082}$	$100\theta_{\text{s,eq}}$	$0.4521^{+0.0079}_{-0.0072}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.809^{+0.029}_{-0.026}$	$H(0.15)$	$73.0^{+3.0}_{-2.8}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.822^{+0.041}_{-0.039}$	$D_{\text{M}}(0.15)$	640^{+26}_{-26}	χ_{CMB}^2	$1192.2 (\nu: 14.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.023}_{-0.021}$	$H(0.38)$	$83.1^{+3.0}_{-2.8}$	χ_{Abund}^2	$0.82 (\nu: 0.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.603^{+0.024}_{-0.022}$	$D_{\text{M}}(0.38)$	1528^{+60}_{-60}		
$\sigma_8/h^{0.5}$	$0.983^{+0.032}_{-0.028}$	$H(0.51)$	$89.8^{+3.1}_{-2.9}$		

$$\bar{\chi}_{\text{eff}}^2 = 1206.53; R - 1 = 0.01138$$

7.49 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022382	$0.02239^{+0.00047}_{-0.00046}$	σ_8	0.8060	$0.808^{+0.031}_{-0.029}$	$D_M(0.15)$	645.7	643^{+28}_{-27}
$\Omega_c h^2$	0.1179	$0.1186^{+0.0080}_{-0.0077}$	S_8	0.8229	$0.823^{+0.037}_{-0.035}$	$H(0.38)$	82.48	$82.8^{+3.2}_{-3.0}$
$100\theta_{MC}$	1.04119	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	0.4507	$0.451^{+0.020}_{-0.019}$	$D_M(0.38)$	1540	1534^{+63}_{-62}
τ	0.0551	$0.056^{+0.023}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	0.6027	$0.603^{+0.024}_{-0.022}$	$H(0.51)$	89.17	$89.5^{+3.3}_{-3.1}$
N_{eff}	2.956	$3.01^{+0.47}_{-0.46}$	$\sigma_8/h^{0.5}$	0.9837	$0.984^{+0.030}_{-0.028}$	$D_M(0.51)$	1994	1987^{+79}_{-78}
$\ln(10^{10} A_s)$	3.0415	$3.043^{+0.051}_{-0.047}$	$r_{\text{drag}} h$	99.43	$99.6^{+2.3}_{-2.1}$	$H(0.61)$	94.77	$95.1^{+3.4}_{-3.2}$
n_s	0.9652	$0.966^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	2.436	$2.436^{+0.068}_{-0.066}$	$D_M(0.61)$	2320	2312^{+91}_{-89}
y_{cal}	1.0006	$1.0007^{+0.0064}_{-0.0065}$	z_{re}	7.72	$7.8^{+2.2}_{-2.2}$	$H(2.33)$	234.9	$235.5^{+6.9}_{-6.9}$
A_{217}^{CIB}	44.0	46^{+20}_{-20}	$10^9 A_s$	2.094	$2.10^{+0.11}_{-0.097}$	$D_M(2.33)$	5795	5777^{+200}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.89	—	$10^9 A_s e^{-2\tau}$	1.8751	$1.877^{+0.045}_{-0.049}$	$f\sigma_8(0.15)$	0.4552	$0.455^{+0.020}_{-0.019}$
A_{143}^{tSZ}	7.01	> 0.976	D_{40}	1228.4	1229^{+35}_{-36}	$\sigma_8(0.15)$	0.7447	$0.746^{+0.029}_{-0.027}$
A_{100}^{PS}	244	257^{+70}_{-70}	D_{220}	5736	5737^{+100}_{-100}	$f\sigma_8(0.38)$	0.4732	$0.474^{+0.019}_{-0.018}$
A_{143}^{PS}	52.0	45^{+20}_{-20}	D_{810}	2541.0	2539^{+35}_{-37}	$\sigma_8(0.38)$	0.6600	$0.662^{+0.026}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	57.7	42^{+20}_{-20}	D_{1420}	820.1	818^{+12}_{-13}	$f\sigma_8(0.51)$	0.4716	$0.472^{+0.018}_{-0.017}$
A_{217}^{PS}	124.0	115^{+30}_{-30}	D_{2000}	232.28	$231.4^{+4.8}_{-4.9}$	$\sigma_8(0.51)$	0.6176	$0.619^{+0.025}_{-0.023}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9652	$0.966^{+0.018}_{-0.018}$	$f\sigma_8(0.61)$	0.4666	$0.467^{+0.018}_{-0.017}$
A_{100}^{dustTT}	8.76	$8.9^{+4.7}_{-4.7}$	Y_{P}	0.2442	$0.2448^{+0.0063}_{-0.0065}$	$\sigma_8(0.61)$	0.5876	$0.589^{+0.024}_{-0.022}$
A_{143}^{dustTT}	11.02	$10.9^{+4.6}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.2455	$0.2461^{+0.0063}_{-0.0065}$	$f\sigma_8(2.33)$	0.2962	$0.297^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	20.5	$18.6^{+8.4}_{-8.5}$	$10^5 D/H$	2.552	$2.57^{+0.12}_{-0.12}$	$\sigma_8(2.33)$	0.3053	$0.306^{+0.013}_{-0.012}$
A_{217}^{dustTT}	96.2	94^{+20}_{-20}	Age/Gyr	13.874	$13.83^{+0.47}_{-0.46}$	f_{2000}^{143}	27.5	29^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.094}$	z_*	1089.63	$1089.74^{+0.94}_{-0.92}$	$f_{2000}^{143 \times 217}$	31.2	32^{+6}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.077}_{-0.076}$	r_*	145.42	$145.0^{+4.7}_{-4.4}$	f_{2000}^{217}	105.7	$106.7^{+5.1}_{-5.0}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04144	$1.0413^{+0.0014}_{-0.0014}$	χ_{small}^2	396.2	$397.3 (\nu: 2.3)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.964	$13.93^{+0.43}_{-0.41}$	χ_{lowl}^2	23.21	$23.3 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.20}_{-0.21}$	z_{drag}	1059.74	$1059.8^{+1.8}_{-1.7}$	χ_{plik}^2	2344.8	$2360.4 (\nu: 19.2)$
A_{217}^{dustTE}	2.07	$2.08^{+0.70}_{-0.71}$	r_{drag}	148.10	$147.7^{+4.9}_{-4.6}$	$\chi_{6\text{DF}}^2$	0.047	$0.066 (\nu: 0.0)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.14017	$0.1404^{+0.0035}_{-0.0034}$	χ_{MGS}^2	1.10	$1.23 (\nu: 0.1)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16051	$0.1606^{+0.0010}_{-0.0011}$	χ_{DR12BAO}^2	4.79	$5.0 (\nu: 1.3)$
H_0	67.14	$67.4^{+3.1}_{-2.9}$	z_{eq}	3394	3389^{+64}_{-64}	χ_{prior}^2	1.5	$11.6 (\nu: 10.4)$
Ω_{Λ}	0.6873	$0.688^{+0.018}_{-0.018}$	k_{eq}	0.010295	$0.01031^{+0.00031}_{-0.00030}$	χ_{BAO}^2	5.93	$6.3 (\nu: 0.9)$
Ω_{m}	0.3127	$0.312^{+0.018}_{-0.018}$	$100\theta_{\text{eq}}$	0.8150	$0.816^{+0.012}_{-0.012}$	χ_{CMB}^2	2764.2	$2781.0 (\nu: 18.3)$
$\Omega_{\text{m}} h^2$	0.1409	$0.1417^{+0.0082}_{-0.0080}$	$100\theta_{\text{s,eq}}$	0.4503	$0.4507^{+0.0063}_{-0.0061}$			
$\Omega_{\text{m}} h^3$	0.0946	$0.0956^{+0.0096}_{-0.0088}$	$H(0.15)$	72.40	$72.7^{+3.1}_{-2.9}$			

Best-fit $\chi_{\text{eff}}^2 = 2771.61$; $\bar{\chi}_{\text{eff}}^2 = 2798.95$; $R - 1 = 0.01038$
 χ_{eff}^2 : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.79 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.16 commander_dx12_v3_2_29: 23.21 plik_rd12_HM_v22b_TTTEEE: 2344.84

7.50 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022382	$0.02238^{+0.00046}_{-0.00044}$	σ_8	0.8061	$0.808^{+0.027}_{-0.025}$	$D_M(0.15)$	645.5	643^{+25}_{-28}
$\Omega_c h^2$	0.1176	$0.1185^{+0.0077}_{-0.0068}$	S_8	0.8218	$0.824^{+0.027}_{-0.029}$	$H(0.38)$	82.47	$82.7^{+3.2}_{-2.6}$
$100\theta_{MC}$	1.04119	$1.0411^{+0.0010}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	0.4501	$0.451^{+0.015}_{-0.016}$	$D_M(0.38)$	1539	1534^{+56}_{-64}
τ	0.0566	$0.057^{+0.023}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6023	$0.604^{+0.018}_{-0.019}$	$H(0.51)$	89.15	$89.4^{+3.3}_{-2.7}$
N_{eff}	2.948	$3.00^{+0.47}_{-0.41}$	$\sigma_8/h^{0.5}$	0.9836	$0.984^{+0.022}_{-0.023}$	$D_M(0.51)$	1994	1988^{+70}_{-80}
$\ln(10^{10} A_s)$	3.0438	$3.045^{+0.047}_{-0.042}$	$r_{\text{drag}} h$	99.54	$99.6^{+2.1}_{-2.1}$	$H(0.61)$	94.74	$95.1^{+3.4}_{-2.9}$
n_s	0.9649	$0.965^{+0.017}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	2.438	$2.439^{+0.054}_{-0.054}$	$D_M(0.61)$	2320	2313^{+79}_{-91}
y_{cal}	1.0008	$1.0008^{+0.0061}_{-0.0066}$	z_{re}	7.86	$7.9^{+2.1}_{-2.0}$	$H(2.33)$	234.7	$235.4^{+6.8}_{-6.2}$
A_{217}^{CIB}	45.2	47^{+20}_{-20}	$10^9 A_s$	2.099	$2.10^{+0.10}_{-0.087}$	$D_M(2.33)$	5798	5780^{+170}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.75	—	$10^9 A_s e^{-2\tau}$	1.8740	$1.877^{+0.043}_{-0.044}$	$f\sigma_8(0.15)$	0.4547	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	7.06	$5.6^{+4.4}_{-4.6}$	D_{40}	1229.7	1230^{+33}_{-31}	$\sigma_8(0.15)$	0.7448	$0.747^{+0.026}_{-0.024}$
A_{100}^{PS}	246	256^{+70}_{-70}	D_{220}	5740	5739^{+90}_{-100}	$f\sigma_8(0.38)$	0.4728	$0.474^{+0.014}_{-0.015}$
A_{143}^{PS}	50.0	45^{+20}_{-20}	D_{810}	2540.7	2539^{+33}_{-39}	$\sigma_8(0.38)$	0.6602	$0.662^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	54.1	42^{+20}_{-20}	D_{1420}	820.0	818^{+13}_{-13}	$f\sigma_8(0.51)$	0.4714	$0.473^{+0.015}_{-0.014}$
A_{217}^{PS}	122.2	115^{+30}_{-30}	D_{2000}	232.26	$231.5^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	0.6178	$0.619^{+0.023}_{-0.021}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9649	$0.965^{+0.017}_{-0.016}$	$f\sigma_8(0.61)$	0.4664	$0.468^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.82	$8.8^{+4.8}_{-4.5}$	Y_{P}	0.2441	$0.2447^{+0.0063}_{-0.0057}$	$\sigma_8(0.61)$	0.5879	$0.589^{+0.022}_{-0.020}$
A_{143}^{dustTT}	11.01	$10.8^{+4.3}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.2454	$0.2460^{+0.0063}_{-0.0057}$	$f\sigma_8(2.33)$	0.2964	$0.297^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.5^{+8.5}_{-8.5}$	$10^5 D/H$	2.549	$2.57^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	0.3056	$0.306^{+0.012}_{-0.011}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	Age/Gyr	13.881	$13.84^{+0.42}_{-0.46}$	f_{2000}^{143}	27.7	29^{+8}_{-8}
A_{100}^{dustTE}	0.113	$0.114^{+0.097}_{-0.092}$	z_*	1089.60	$1089.72^{+0.84}_{-0.86}$	$f_{2000}^{143 \times 217}$	31.2	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.082}_{-0.079}$	r_*	145.54	$145.1^{+4.2}_{-4.4}$	f_{2000}^{217}	105.87	$106.6^{+4.8}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	1.04144	$1.0413^{+0.0013}_{-0.0013}$	χ_{lensing}^2	8.58	$9.06 (\nu: 0.2)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.975	$13.93^{+0.39}_{-0.41}$	χ_{small}^2	396.5	$397.4 (\nu: 2.2)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.20}_{-0.20}$	z_{drag}	1059.70	$1059.8^{+1.8}_{-1.6}$	χ_{lowl}^2	23.29	$23.4 (\nu: 0.5)$
A_{217}^{dustTE}	2.07	$2.07^{+0.68}_{-0.73}$	r_{drag}	148.22	$147.8^{+4.4}_{-4.5}$	χ_{plik}^2	2344.5	$2359.6 (\nu: 17.2)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.14007	$0.1404^{+0.0033}_{-0.0031}$	χ_{JLA}^2	706.758	$706.79 (\nu: 0.0)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16049	$0.1606^{+0.0011}_{-0.00095}$	$\chi_{6\text{DF}}^2$	0.038	$0.063 (\nu: 0.0)$
H_0	67.16	$67.4^{+3.1}_{-2.6}$	z_{eq}	3390	3388^{+62}_{-61}	χ_{MGS}^2	1.16	$1.23 (\nu: 0.1)$
Ω_{Λ}	0.6882	$0.688^{+0.017}_{-0.017}$	k_{eq}	0.010278	$0.01031^{+0.00028}_{-0.00026}$	χ_{DR12BAO}^2	4.58	$5.0 (\nu: 1.1)$
Ω_{m}	0.3118	$0.312^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8157	$0.816^{+0.012}_{-0.012}$	χ_{prior}^2	1.6	$11.6 (\nu: 10.3)$
$\Omega_{\text{m}} h^2$	0.1406	$0.1415^{+0.0079}_{-0.0071}$	$100\theta_{\text{s,eq}}$	0.4506	$0.4508^{+0.0059}_{-0.0059}$	χ_{CMB}^2	2772.9	$2789.4 (\nu: 17.7)$
$\Omega_{\text{m}} h^3$	0.0944	$0.0954^{+0.0094}_{-0.0080}$	$H(0.15)$	72.41	$72.7^{+3.2}_{-2.6}$	χ_{BAO}^2	5.77	$6.3 (\nu: 0.7)$

Best-fit $\chi_{\text{eff}}^2 = 3486.99$; $\bar{\chi}_{\text{eff}}^2 = 3514.05$; $R - 1 = 0.03296$
 χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.58 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.58 small_100x143.offlike5_EE_Aplanck_B: 396.47 comman-
der_dx12.v3.2.29: 23.29 plik_rd12_HM_v22b_TTTEEE: 2344.53 SN - JLA December.2013: 706.76

7.51 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022397	$0.02239^{+0.00047}_{-0.00044}$	σ_8	0.8068	$0.808^{+0.027}_{-0.026}$	$D_M(0.15)$	644.4	643^{+26}_{-26}
$\Omega_c h^2$	0.1180	$0.1185^{+0.0076}_{-0.0072}$	S_8	0.8225	$0.823^{+0.028}_{-0.028}$	$H(0.38)$	82.60	$82.8^{+3.1}_{-2.8}$
$100\theta_{MC}$	1.04115	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	0.4505	$0.451^{+0.015}_{-0.016}$	$D_M(0.38)$	1537	1534^{+58}_{-59}
τ	0.0559	$0.057^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6029	$0.603^{+0.019}_{-0.019}$	$H(0.51)$	89.30	$89.5^{+3.2}_{-2.9}$
N_{eff}	2.971	$3.00^{+0.45}_{-0.43}$	$\sigma_8/h^{0.5}$	0.9837	$0.984^{+0.022}_{-0.022}$	$D_M(0.51)$	1991	1987^{+73}_{-75}
$\ln(10^{10} A_s)$	3.0437	$3.045^{+0.045}_{-0.041}$	$r_{\text{drag}} h$	99.53	$99.6^{+2.1}_{-2.0}$	$H(0.61)$	94.89	$95.1^{+3.3}_{-3.0}$
n_s	0.9653	$0.966^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.437	$2.438^{+0.054}_{-0.054}$	$D_M(0.61)$	2317	2312^{+84}_{-86}
y_{cal}	1.0009	$1.0008^{+0.0064}_{-0.0064}$	z_{re}	7.80	$7.9^{+2.0}_{-2.0}$	$H(2.33)$	235.1	$235.4^{+6.6}_{-6.4}$
A_{217}^{CIB}	46.4	46^{+20}_{-20}	$10^9 A_s$	2.098	$2.102^{+0.096}_{-0.085}$	$D_M(2.33)$	5788	5778^{+190}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.50	—	$10^9 A_s e^{-2\tau}$	1.8762	$1.877^{+0.042}_{-0.044}$	$f\sigma_8(0.15)$	0.4550	$0.455^{+0.015}_{-0.015}$
A_{143}^{tSZ}	7.18	$5.6^{+4.4}_{-4.6}$	D_{40}	1229.6	1230^{+34}_{-33}	$\sigma_8(0.15)$	0.7455	$0.747^{+0.026}_{-0.024}$
A_{100}^{PS}	249	257^{+70}_{-70}	D_{220}	5741	5740^{+97}_{-97}	$f\sigma_8(0.38)$	0.4732	$0.474^{+0.015}_{-0.015}$
A_{143}^{PS}	46.9	45^{+20}_{-20}	D_{810}	2541.0	2539^{+34}_{-36}	$\sigma_8(0.38)$	0.6608	$0.662^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	48.3	42^{+20}_{-20}	D_{1420}	819.7	818^{+13}_{-13}	$f\sigma_8(0.51)$	0.4718	$0.472^{+0.015}_{-0.014}$
A_{217}^{PS}	120.1	115^{+30}_{-30}	D_{2000}	232.05	$231.5^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	0.6184	$0.620^{+0.022}_{-0.021}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9653	$0.966^{+0.018}_{-0.017}$	$f\sigma_8(0.61)$	0.4668	$0.467^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.79	$8.9^{+4.6}_{-4.6}$	Y_{P}	0.2444	$0.2448^{+0.0061}_{-0.0061}$	$\sigma_8(0.61)$	0.5884	$0.590^{+0.021}_{-0.020}$
A_{143}^{dustTT}	11.00	$10.9^{+4.6}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.2457	$0.2461^{+0.0061}_{-0.0061}$	$f\sigma_8(2.33)$	0.2967	$0.297^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.4}_{-8.5}$	$10^5 D/H$	2.555	$2.57^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	0.3058	$0.306^{+0.012}_{-0.011}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	Age/Gyr	13.858	$13.83^{+0.44}_{-0.45}$	f_{2000}^{143}	28.0	29^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.093}$	z_*	1089.64	$1089.71^{+0.85}_{-0.86}$	$f_{2000}^{143 \times 217}$	31.4	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.079}_{-0.076}$	r_*	145.29	$145.1^{+4.4}_{-4.3}$	f_{2000}^{217}	106.1	$106.6^{+5.0}_{-5.0}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	1.04138	$1.0413^{+0.0014}_{-0.0013}$	χ_{lensing}^2	8.62	9.06 (ν : 0.2)
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.952	$13.93^{+0.40}_{-0.40}$	χ_{small}^2	396	230 (ν : 17298.3)
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.78	$1059.8^{+1.7}_{-1.7}$	χ_{lowl}^2	23	191 (ν : 17305.2)
A_{217}^{dustTE}	2.08	$2.07^{+0.70}_{-0.72}$	r_{drag}	147.96	$147.7^{+4.5}_{-4.5}$	χ_{plik}^2	2344.6	2359.9 (ν : 18.0)
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.14026	$0.1404^{+0.0033}_{-0.0032}$	χ_{JLA}^2	1035.07	1035.12 (ν : 0.1)
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16054	$0.1606^{+0.0010}_{-0.0010}$	$\chi_{6\text{DF}}^2$	0.04	0.59 (ν : 0.2)
H_0	67.27	$67.4^{+3.0}_{-2.7}$	z_{eq}	3390	3387^{+59}_{-59}	χ_{MGS}^2	1.16	0.72 (ν : 0.2)
Ω_{Λ}	0.6882	$0.689^{+0.016}_{-0.017}$	k_{eq}	0.010295	$0.01030^{+0.00029}_{-0.00027}$	χ_{DR12BAO}^2	4.60	4.9 (ν : 1.0)
Ω_{m}	0.3118	$0.311^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	0.8157	$0.816^{+0.011}_{-0.011}$	χ_{prior}^2	1.7	11.6 (ν : 10.2)
$\Omega_{\text{m}} h^2$	0.1411	$0.1415^{+0.0078}_{-0.0074}$	$100\theta_{\text{s,eq}}$	0.4506	$0.4509^{+0.0057}_{-0.0057}$	χ_{CMB}^2	2772.8	2789.7 (ν : 18.3)
$\Omega_{\text{m}} h^3$	0.0949	$0.0955^{+0.0092}_{-0.0084}$	$H(0.15)$	72.53	$72.7^{+2.9}_{-2.7}$	χ_{BAO}^2	5.79	6.2 (ν : 0.6)

Best-fit $\chi_{\text{eff}}^2 = 3815.38$; $\bar{\chi}_{\text{eff}}^2 = 3842.56$; $R - 1 = 0.01451$

χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.60 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.62 small_100x143.offlike5_EE_Aplanck_B: 396.33 commander_dx12.v3.2.29: 23.25 plik_rd12_HM_v22b_TTTEEE: 2344.60 SN - JLA Pantheon18: 1035.07

7.52 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022341	$0.02237^{+0.00047}_{-0.00044}$	σ_8	0.8047	$0.808^{+0.027}_{-0.025}$	$D_M(0.15)$	648.2	644^{+27}_{-27}
$\Omega_c h^2$	0.1173	$0.1183^{+0.0076}_{-0.0072}$	S_8	0.8229	$0.824^{+0.028}_{-0.029}$	$H(0.38)$	82.19	$82.7^{+3.1}_{-2.9}$
$100\theta_{MC}$	1.04126	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	0.4507	$0.451^{+0.016}_{-0.016}$	$D_M(0.38)$	1545	1537^{+60}_{-61}
τ	0.0558	$0.056^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6022	$0.604^{+0.019}_{-0.019}$	$H(0.51)$	88.88	$89.4^{+3.2}_{-3.0}$
N_{eff}	2.914	$2.99^{+0.46}_{-0.43}$	$\sigma_8/h^{0.5}$	0.9841	$0.984^{+0.022}_{-0.022}$	$D_M(0.51)$	2002	1990^{+77}_{-78}
$\ln(10^{10} A_s)$	3.0412	$3.044^{+0.045}_{-0.041}$	$r_{\text{drag}} h$	99.31	$99.5^{+2.2}_{-2.0}$	$H(0.61)$	94.46	$95.0^{+3.3}_{-3.1}$
n_s	0.9635	$0.965^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.440	$2.440^{+0.054}_{-0.054}$	$D_M(0.61)$	2329	2316^{+88}_{-89}
y_{cal}	1.0006	$1.0008^{+0.0063}_{-0.0065}$	z_{re}	7.78	$7.8^{+1.9}_{-2.0}$	$H(2.33)$	234.3	$235.3^{+6.6}_{-6.4}$
A_{217}^{CIB}	44.0	46^{+20}_{-20}	$10^9 A_s$	2.093	$2.100^{+0.096}_{-0.085}$	$D_M(2.33)$	5814	5785^{+190}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.92	—	$10^9 A_s e^{-2\tau}$	1.8719	$1.876^{+0.043}_{-0.044}$	$f\sigma_8(0.15)$	0.4551	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	6.98	$5.6^{+4.4}_{-4.6}$	D_{40}	1230.9	1231^{+34}_{-34}	$\sigma_8(0.15)$	0.7434	$0.746^{+0.026}_{-0.024}$
A_{100}^{PS}	243	256^{+70}_{-70}	D_{220}	5736	5739^{+98}_{-98}	$f\sigma_8(0.38)$	0.4728	$0.474^{+0.015}_{-0.015}$
A_{143}^{PS}	51.9	45^{+20}_{-20}	D_{810}	2540.1	2539^{+34}_{-36}	$\sigma_8(0.38)$	0.6587	$0.661^{+0.023}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	58.2	42^{+20}_{-20}	D_{1420}	820.1	818^{+13}_{-13}	$f\sigma_8(0.51)$	0.4712	$0.472^{+0.015}_{-0.014}$
A_{217}^{PS}	123.9	115^{+30}_{-30}	D_{2000}	232.41	$231.5^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	0.6163	$0.619^{+0.022}_{-0.021}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9635	$0.965^{+0.018}_{-0.017}$	$f\sigma_8(0.61)$	0.4660	$0.467^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.73	$8.9^{+4.7}_{-4.6}$	Y_{P}	0.2436	$0.2445^{+0.0062}_{-0.0061}$	$\sigma_8(0.61)$	0.5864	$0.589^{+0.022}_{-0.020}$
A_{143}^{dustTT}	10.94	$10.9^{+4.6}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.2449	$0.2459^{+0.0062}_{-0.0061}$	$f\sigma_8(2.33)$	0.2956	$0.297^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.6^{+8.4}_{-8.5}$	$10^5 D/H$	2.545	$2.56^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	0.3046	$0.306^{+0.012}_{-0.011}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	Age/Gyr	13.918	$13.85^{+0.45}_{-0.45}$	f_{2000}^{143}	27.3	29^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.093}$	z_*	1089.59	$1089.71^{+0.85}_{-0.86}$	$f_{2000}^{143 \times 217}$	31.0	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.079}_{-0.077}$	r_*	145.84	$145.2^{+4.4}_{-4.4}$	f_{2000}^{217}	105.6	$106.6^{+5.0}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	1.04153	$1.0413^{+0.0014}_{-0.0013}$	χ_{lensing}^2	8.54	$9.05 (\nu: 0.2)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.002	$13.94^{+0.41}_{-0.40}$	χ_{small}^2	396	$229 (\nu: 17290.5)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.20}_{-0.21}$	z_{drag}	1059.55	$1059.8^{+1.8}_{-1.7}$	χ_{lowl}^2	23	$192 (\nu: 17299.5)$
A_{217}^{dustTE}	2.08	$2.07^{+0.70}_{-0.72}$	r_{drag}	148.53	$147.9^{+4.6}_{-4.5}$	χ_{plik}^2	2344.3	$2359.7 (\nu: 18.0)$
c_{100}	0.99977	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.13985	$0.1403^{+0.0034}_{-0.0033}$	$\chi_{6\text{DF}}^2$	0.06	$0.57 (\nu: 0.2)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16043	$0.1606^{+0.0010}_{-0.0010}$	χ_{MGS}^2	1.04	$0.69 (\nu: 0.2)$
H_0	66.86	$67.3^{+3.0}_{-2.8}$	z_{eq}	3396	3391^{+61}_{-61}	χ_{DR12BAO}^2	5.00	$5.1 (\nu: 1.3)$
Ω_{Λ}	0.6863	$0.688^{+0.017}_{-0.017}$	k_{eq}	0.010274	$0.01031^{+0.00028}_{-0.00027}$	χ_{prior}^2	1.4	$11.6 (\nu: 10.1)$
Ω_{m}	0.3137	$0.312^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8144	$0.816^{+0.012}_{-0.011}$	χ_{CMB}^2	2772.7	$2789.5 (\nu: 18.3)$
$\Omega_{\text{m}} h^2$	0.1403	$0.1414^{+0.0079}_{-0.0074}$	$100\theta_{\text{s,eq}}$	0.4500	$0.4505^{+0.0060}_{-0.0058}$	χ_{BAO}^2	6.09	$6.4 (\nu: 0.9)$
$\Omega_{\text{m}} h^3$	0.0938	$0.0952^{+0.0093}_{-0.0083}$	$H(0.15)$	72.12	$72.6^{+3.0}_{-2.8}$			

Best-fit $\chi_{\text{eff}}^2 = 2780.19$; $\bar{\chi}_{\text{eff}}^2 = 2807.45$; $R - 1 = 0.01513$

χ_{eff}^2 : BAO - 6DF: 0.06 MGS: 1.04 DR12BAO: 5.00 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.54 small_100x143.offlike5_EE_Aplanck_B: 396.33 commander_dx12.v3.2.29: 23.47 plik_rd12_HM.v22b_TTTEEE: 2344.34

7.53 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00044}_{-0.00042}$	σ_8	$0.807^{+0.029}_{-0.026}$	$D_M(0.15)$	645^{+24}_{-24}
$\Omega_c h^2$	$0.1182^{+0.0070}_{-0.0067}$	S_8	$0.823^{+0.036}_{-0.034}$	$H(0.38)$	$82.6^{+2.7}_{-2.5}$
$100\theta_{MC}$	$1.0411^{+0.0011}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.020}_{-0.019}$	$D_M(0.38)$	1537^{+53}_{-53}
τ	$0.055^{+0.022}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.022}_{-0.021}$	$H(0.51)$	$89.3^{+2.7}_{-2.6}$
N_{eff}	$2.98^{+0.40}_{-0.39}$	$\sigma_8/h^{0.5}$	$0.983^{+0.029}_{-0.027}$	$D_M(0.51)$	1991^{+67}_{-67}
$\ln(10^{10} A_s)$	$3.042^{+0.050}_{-0.045}$	$r_{\text{drag}} h$	$99.5^{+2.2}_{-2.1}$	$H(0.61)$	$94.9^{+2.8}_{-2.7}$
n_s	$0.965^{+0.016}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.067}_{-0.067}$	$D_M(0.61)$	2317^{+76}_{-76}
y_{cal}	$1.0007^{+0.0063}_{-0.0064}$	z_{re}	$7.7^{+2.2}_{-2.2}$	$H(2.33)$	$235.2^{+5.9}_{-5.8}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.10^{+0.11}_{-0.092}$	$D_M(2.33)$	5787^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.875^{+0.042}_{-0.042}$	$f\sigma_8(0.15)$	$0.455^{+0.019}_{-0.018}$
A_{143}^{tSZ}	> 0.989	D_{40}	1230^{+34}_{-33}	$\sigma_8(0.15)$	$0.745^{+0.027}_{-0.024}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5737^{+100}_{-98}	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.017}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+35}_{-37}	$\sigma_8(0.38)$	$0.661^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.6}_{-4.6}$	$\sigma_8(0.51)$	$0.618^{+0.023}_{-0.021}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.016}_{-0.016}$	$f\sigma_8(0.61)$	$0.467^{+0.017}_{-0.016}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_P	$0.2445^{+0.0054}_{-0.0054}$	$\sigma_8(0.61)$	$0.588^{+0.022}_{-0.020}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2458^{+0.0054}_{-0.0055}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.5}$	$10^5 \text{D}/\text{H}$	$2.56^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.85^{+0.39}_{-0.39}$	f_{2000}^{143}	29^{+7}_{-8}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.093}$	z_*	$1089.70^{+0.82}_{-0.83}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.079}_{-0.077}$	r_*	$145.2^{+4.0}_{-3.8}$	f_{2000}^{217}	$106.5^{+5.0}_{-4.8}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0012}$	χ_{simall}^2	$228 (\nu: 17312.0)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.95^{+0.36}_{-0.35}$	χ_{lowl}^2	$192 (\nu: 17315.1)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1059.7^{+1.6}_{-1.5}$	χ_{plik}^2	$2359.9 (\nu: 18.6)$
A_{217}^{dustTE}	$2.07^{+0.70}_{-0.72}$	r_{drag}	$147.9^{+4.1}_{-4.0}$	χ_{Aver15}^2	$0.32 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1403^{+0.0030}_{-0.0029}$	$\chi_{6\text{DF}}^2$	$0.58 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16060^{+0.00091}_{-0.00092}$	χ_{MGS}^2	$0.69 (\nu: 0.2)$
H_0	$67.3^{+2.6}_{-2.5}$	z_{eq}	3390^{+63}_{-62}	χ_{DR12BAO}^2	$5.1 (\nu: 1.4)$
Ω_Λ	$0.688^{+0.017}_{-0.018}$	k_{eq}	$0.01030^{+0.00028}_{-0.00027}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_m	$0.312^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
$\Omega_m h^2$	$0.1413^{+0.0071}_{-0.0068}$	$100\theta_{s,\text{eq}}$	$0.4506^{+0.0060}_{-0.0060}$	χ_{CMB}^2	$2780.6 (\nu: 17.8)$
$\Omega_m h^3$	$0.0950^{+0.0080}_{-0.0074}$	$H(0.15)$	$72.5^{+2.6}_{-2.5}$		

$$\bar{\chi}_{\text{eff}}^2 = 2798.91; R - 1 = 0.01423$$

7.54 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00044}_{-0.00042}$	S_8	$0.824^{+0.036}_{-0.034}$	$D_M(0.38)$	1534^{+51}_{-51}
$\Omega_c h^2$	$0.1187^{+0.0066}_{-0.0063}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.019}_{-0.019}$	$H(0.51)$	$89.5^{+2.6}_{-2.5}$
$100\theta_{MC}$	$1.0411^{+0.0010}_{-0.00099}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.021}_{-0.021}$	$D_M(0.51)$	1987^{+64}_{-65}
τ	$0.055^{+0.023}_{-0.021}$	$\sigma_8/h^{0.5}$	$0.984^{+0.028}_{-0.027}$	$H(0.61)$	$95.1^{+2.7}_{-2.6}$
N_{eff}	$3.01^{+0.38}_{-0.36}$	$r_{\text{drag}} h$	$99.5^{+2.2}_{-2.1}$	$D_M(0.61)$	2313^{+73}_{-73}
$\ln(10^{10} A_s)$	$3.043^{+0.050}_{-0.044}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.068}_{-0.067}$	$H(2.33)$	$235.6^{+5.6}_{-5.5}$
n_s	$0.965^{+0.016}_{-0.016}$	z_{re}	$7.7^{+2.2}_{-2.2}$	$D_M(2.33)$	5778^{+160}_{-160}
y_{cal}	$1.0007^{+0.0063}_{-0.0064}$	$10^9 A_s$	$2.10^{+0.11}_{-0.091}$	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.018}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.877^{+0.041}_{-0.041}$	$\sigma_8(0.15)$	$0.746^{+0.026}_{-0.023}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1229^{+34}_{-33}	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.016}$
A_{143}^{tSZ}	> 0.949	D_{220}	5735^{+100}_{-100}	$\sigma_8(0.38)$	$0.662^{+0.023}_{-0.020}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2539^{+35}_{-37}	$f\sigma_8(0.51)$	$0.473^{+0.017}_{-0.016}$
A_{143}^{PS}	45^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.619^{+0.022}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$231.3^{+4.4}_{-4.4}$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.965^{+0.016}_{-0.016}$	$\sigma_8(0.61)$	$0.589^{+0.021}_{-0.019}$
A^{kSZ}	—	Y_P	$0.2448^{+0.0051}_{-0.0050}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.0096}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_P^{BBN}	$0.2462^{+0.0051}_{-0.0050}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	10^5D/H	$2.572^{+0.096}_{-0.099}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.5}$	Age/Gyr	$13.83^{+0.37}_{-0.37}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.77^{+0.76}_{-0.76}$	f_{2000}^{217}	$106.7^{+4.8}_{-4.8}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.093}$	r_*	$145.0^{+3.7}_{-3.6}$	χ_{simall}^2	$230 (\nu: 17284.6)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	$100\theta_*$	$1.0413^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$190 (\nu: 17286.9)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.23}$	$D_M(z_*)/\text{Gpc}$	$13.92^{+0.34}_{-0.33}$	χ_{plik}^2	$2359.9 (\nu: 18.3)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.8^{+1.6}_{-1.5}$	χ_{Aver15}^2	$0.34 (\nu: 0.1)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$147.7^{+3.8}_{-3.7}$	χ_{Cooke17}^2	$0.40 (\nu: 0.1)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.72}$	k_D	$0.1404^{+0.0029}_{-0.0028}$	$\chi_{6\text{DF}}^2$	$0.57 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16067^{+0.00084}_{-0.00086}$	χ_{MGS}^2	$0.69 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3390^{+63}_{-62}	χ_{DR12BAO}^2	$5.1 (\nu: 1.4)$
H_0	$67.4^{+2.6}_{-2.4}$	k_{eq}	$0.01032^{+0.00027}_{-0.00026}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_Λ	$0.688^{+0.017}_{-0.018}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
Ω_m	$0.312^{+0.018}_{-0.017}$	$100\theta_{s,\text{eq}}$	$0.4506^{+0.0060}_{-0.0060}$	χ_{CMB}^2	$2780.5 (\nu: 17.5)$
$\Omega_m h^2$	$0.1417^{+0.0067}_{-0.0065}$	$H(0.15)$	$72.7^{+2.6}_{-2.4}$	χ_{Abund}^2	$0.74 (\nu: 0.2)$
$\Omega_m h^3$	$0.0955^{+0.0076}_{-0.0071}$	$D_M(0.15)$	643^{+23}_{-23}		
σ_8	$0.808^{+0.028}_{-0.025}$	$H(0.38)$	$82.8^{+2.6}_{-2.4}$		

$$\bar{\chi}_{\text{eff}}^2 = 2799.26; R - 1 = 0.01400$$

7.55 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00047}_{-0.00046}$	σ_8	$0.809^{+0.030}_{-0.028}$	$D_M(0.15)$	643^{+28}_{-27}
$\Omega_c h^2$	$0.1186^{+0.0080}_{-0.0077}$	S_8	$0.824^{+0.037}_{-0.035}$	$H(0.38)$	$82.8^{+3.2}_{-3.0}$
$100\theta_{MC}$	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.020}_{-0.019}$	$D_M(0.38)$	1533^{+63}_{-62}
τ	$0.057^{+0.020}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.024}_{-0.022}$	$H(0.51)$	$89.5^{+3.3}_{-3.1}$
N_{eff}	$3.01^{+0.47}_{-0.46}$	$\sigma_8/h^{0.5}$	$0.984^{+0.029}_{-0.026}$	$D_M(0.51)$	1986^{+80}_{-78}
$\ln(10^{10} A_s)$	$3.045^{+0.050}_{-0.039}$	$r_{\text{drag}} h$	$99.6^{+2.3}_{-2.1}$	$H(0.61)$	$95.1^{+3.4}_{-3.2}$
n_s	$0.966^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.067}_{-0.060}$	$D_M(0.61)$	2311^{+91}_{-90}
y_{cal}	$1.0007^{+0.0064}_{-0.0065}$	z_{re}	< 9.71	$H(2.33)$	$235.6^{+6.9}_{-6.9}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.10^{+0.11}_{-0.080}$	$D_M(2.33)$	5776^{+200}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.877^{+0.045}_{-0.049}$	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.018}$
A_{143}^{tSZ}	> 0.969	D_{40}	1229^{+35}_{-35}	$\sigma_8(0.15)$	$0.747^{+0.028}_{-0.026}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5737^{+100}_{-100}	$f\sigma_8(0.38)$	$0.474^{+0.019}_{-0.017}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+36}_{-37}	$\sigma_8(0.38)$	$0.662^{+0.026}_{-0.024}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.018}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+4.8}_{-4.8}$	$\sigma_8(0.51)$	$0.620^{+0.025}_{-0.022}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.018}_{-0.018}$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.016}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P	$0.2449^{+0.0063}_{-0.0064}$	$\sigma_8(0.61)$	$0.590^{+0.024}_{-0.021}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	Y_P^{BBN}	$0.2462^{+0.0063}_{-0.0065}$	$f\sigma_8(2.33)$	$0.297^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.5}$	10^5D/H	$2.57^{+0.12}_{-0.12}$	$\sigma_8(2.33)$	$0.307^{+0.013}_{-0.012}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.83^{+0.47}_{-0.46}$	f_{2000}^{143}	29^{+8}_{-8}
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.094}$	z_*	$1089.74^{+0.94}_{-0.92}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$145.0^{+4.7}_{-4.4}$	f_{2000}^{217}	$106.6^{+5.0}_{-5.0}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.23}$	$100\theta_*$	$1.0413^{+0.0014}_{-0.0014}$	χ_{simall}^2	$397.3 (\nu: 2.4)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.92^{+0.43}_{-0.41}$	χ_{lowl}^2	$23.3 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1059.8^{+1.8}_{-1.7}$	χ_{plik}^2	$2360.2 (\nu: 19.1)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.70}$	r_{drag}	$147.7^{+4.9}_{-4.6}$	$\chi_{6\text{DF}}^2$	$0.065 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1405^{+0.0035}_{-0.0034}$	χ_{MGS}^2	$1.24 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.1607^{+0.0010}_{-0.0011}$	χ_{DR12BAO}^2	$5.0 (\nu: 1.3)$
H_0	$67.4^{+3.1}_{-2.9}$	z_{eq}	3388^{+63}_{-64}	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_Λ	$0.688^{+0.018}_{-0.018}$	k_{eq}	$0.01031^{+0.00031}_{-0.00030}$	χ_{BAO}^2	$6.3 (\nu: 0.8)$
Ω_m	$0.312^{+0.018}_{-0.018}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{CMB}^2	$2780.8 (\nu: 18.1)$
$\Omega_m h^2$	$0.1417^{+0.0083}_{-0.0080}$	$100\theta_{s,\text{eq}}$	$0.4508^{+0.0063}_{-0.0061}$		
$\Omega_m h^3$	$0.0956^{+0.0095}_{-0.0088}$	$H(0.15)$	$72.7^{+3.1}_{-2.9}$		

$$\bar{\chi}_{\text{eff}}^2 = 2798.76; R - 1 = 0.01049$$

7.56 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_JLA_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00046}_{-0.00044}$	σ_8	$0.809^{+0.027}_{-0.024}$	$D_M(0.15)$	643^{+24}_{-28}
$\Omega_c h^2$	$0.1185^{+0.0077}_{-0.0068}$	S_8	$0.824^{+0.027}_{-0.028}$	$H(0.38)$	$82.8^{+3.2}_{-2.6}$
$100\theta_{MC}$	$1.0411^{+0.0010}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.015}$	$D_M(0.38)$	1534^{+55}_{-64}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.018}_{-0.018}$	$H(0.51)$	$89.5^{+3.3}_{-2.7}$
N_{eff}	$3.00^{+0.47}_{-0.41}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.022}$	$D_M(0.51)$	1987^{+68}_{-80}
$\ln(10^{10} A_s)$	$3.046^{+0.046}_{-0.036}$	$r_{\text{drag}} h$	$99.6^{+2.1}_{-2.0}$	$H(0.61)$	$95.1^{+3.4}_{-2.9}$
n_s	$0.966^{+0.017}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.053}_{-0.050}$	$D_M(0.61)$	2313^{+78}_{-91}
y_{cal}	$1.0008^{+0.0061}_{-0.0066}$	z_{re}	< 9.69	$H(2.33)$	$235.4^{+6.8}_{-6.1}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.099}_{-0.074}$	$D_M(2.33)$	5779^{+170}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.877^{+0.044}_{-0.044}$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{40}	1230^{+33}_{-31}	$\sigma_8(0.15)$	$0.747^{+0.025}_{-0.023}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5738^{+90}_{-100}	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.014}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-39}	$\sigma_8(0.38)$	$0.662^{+0.024}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.9}_{-4.6}$	$\sigma_8(0.51)$	$0.620^{+0.023}_{-0.020}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.017}_{-0.016}$	$f\sigma_8(0.61)$	$0.468^{+0.015}_{-0.014}$
A_{100}^{dustTT}	$8.8^{+4.8}_{-4.5}$	Y_P	$0.2447^{+0.0063}_{-0.0057}$	$\sigma_8(0.61)$	$0.590^{+0.022}_{-0.019}$
A_{143}^{dustTT}	$10.9^{+4.3}_{-4.6}$	Y_P^{BBN}	$0.2461^{+0.0063}_{-0.0057}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.0099}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.5}$	$10^5 D/H$	$2.57^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	$0.307^{+0.012}_{-0.011}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.84^{+0.41}_{-0.46}$	f_{2000}^{143}	29^{+8}_{-8}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.092}$	z_*	$1089.72^{+0.84}_{-0.85}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.083}_{-0.081}$	r_*	$145.1^{+4.2}_{-4.4}$	f_{2000}^{217}	$106.6^{+4.8}_{-5.0}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0413^{+0.0013}_{-0.0013}$	χ_{lensing}^2	$9.04 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.93^{+0.39}_{-0.41}$	χ_{simall}^2	$397.4 (\nu: 2.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{drag}	$1059.8^{+1.8}_{-1.6}$	χ_{lowl}^2	$23.4 (\nu: 0.5)$
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.73}$	r_{drag}	$147.7^{+4.3}_{-4.5}$	χ_{plik}^2	$2359.6 (\nu: 17.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1404^{+0.0033}_{-0.0031}$	χ_{JLA}^2	$706.78 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.1606^{+0.0011}_{-0.00095}$	$\chi_{6\text{DF}}^2$	$0.061 (\nu: 0.0)$
H_0	$67.4^{+3.2}_{-2.6}$	z_{eq}	3388^{+60}_{-60}	χ_{MGS}^2	$1.24 (\nu: 0.1)$
Ω_Λ	$0.689^{+0.017}_{-0.017}$	k_{eq}	$0.01031^{+0.00028}_{-0.00026}$	χ_{DR12BAO}^2	$4.9 (\nu: 1.1)$
Ω_m	$0.311^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.011}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
$\Omega_m h^2$	$0.1415^{+0.0079}_{-0.0071}$	$100\theta_{s,\text{eq}}$	$0.4508^{+0.0058}_{-0.0058}$	χ_{CMB}^2	$2789.3 (\nu: 17.5)$
$\Omega_m h^3$	$0.0954^{+0.0094}_{-0.0079}$	$H(0.15)$	$72.7^{+3.2}_{-2.6}$	χ_{BAO}^2	$6.2 (\nu: 0.7)$

$$\bar{\chi}_{\text{eff}}^2 = 3513.91; R - 1 = 0.03578$$

7.57 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00047}_{-0.00045}$	σ_8	$0.808^{+0.027}_{-0.025}$	$D_M(0.15)$	643^{+26}_{-26}
$\Omega_c h^2$	$0.1184^{+0.0076}_{-0.0071}$	S_8	$0.823^{+0.028}_{-0.028}$	$H(0.38)$	$82.8^{+3.1}_{-2.8}$
$100\theta_{MC}$	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.016}$	$D_M(0.38)$	1533^{+58}_{-59}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.018}_{-0.019}$	$H(0.51)$	$89.5^{+3.2}_{-2.9}$
N_{eff}	$3.00^{+0.45}_{-0.43}$	$\sigma_8/h^{0.5}$	$0.984^{+0.022}_{-0.021}$	$D_M(0.51)$	1986^{+73}_{-75}
$\ln(10^{10} A_s)$	$3.046^{+0.044}_{-0.036}$	$r_{\text{drag}} h$	$99.6^{+2.0}_{-2.0}$	$H(0.61)$	$95.1^{+3.3}_{-3.0}$
n_s	$0.966^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.053}_{-0.052}$	$D_M(0.61)$	2311^{+84}_{-86}
y_{cal}	$1.0008^{+0.0062}_{-0.0064}$	z_{re}	< 9.63	$H(2.33)$	$235.4^{+6.6}_{-6.4}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.094}_{-0.074}$	$D_M(2.33)$	5778^{+190}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.877^{+0.043}_{-0.044}$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{40}	1230^{+33}_{-33}	$\sigma_8(0.15)$	$0.747^{+0.025}_{-0.024}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5740^{+98}_{-97}	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.014}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-36}	$\sigma_8(0.38)$	$0.662^{+0.024}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.9}_{-4.7}$	$\sigma_8(0.51)$	$0.620^{+0.022}_{-0.020}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.017}_{-0.017}$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	Y_P	$0.2448^{+0.0061}_{-0.0061}$	$\sigma_8(0.61)$	$0.590^{+0.021}_{-0.019}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2461^{+0.0061}_{-0.0061}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.5}$	10^5D/H	$2.57^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	$0.307^{+0.012}_{-0.011}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.83^{+0.44}_{-0.45}$	f_{2000}^{143}	29^{+8}_{-8}
A_{100}^{dustTE}	$0.114^{+0.096}_{-0.093}$	z_*	$1089.70^{+0.85}_{-0.86}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$145.1^{+4.3}_{-4.3}$	f_{2000}^{217}	$106.6^{+5.0}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0413^{+0.0014}_{-0.0013}$	χ_{lensing}^2	$9.03 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.93^{+0.40}_{-0.40}$	χ_{simall}^2	$230 (\nu: 17285.0)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.8^{+1.7}_{-1.7}$	χ_{lowl}^2	$190 (\nu: 17292.0)$
A_{217}^{dustTE}	$2.07^{+0.70}_{-0.71}$	r_{drag}	$147.7^{+4.5}_{-4.5}$	χ_{plik}^2	$2359.8 (\nu: 17.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1404^{+0.0033}_{-0.0033}$	χ_{JLA}^2	$1035.11 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.1606^{+0.0010}_{-0.0010}$	$\chi_{6\text{DF}}^2$	$0.59 (\nu: 0.2)$
H_0	$67.5^{+3.0}_{-2.7}$	z_{eq}	3386^{+59}_{-59}	χ_{MGS}^2	$0.73 (\nu: 0.2)$
Ω_Λ	$0.689^{+0.016}_{-0.016}$	k_{eq}	$0.01030^{+0.00029}_{-0.00027}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.0)$
Ω_m	$0.311^{+0.016}_{-0.016}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
$\Omega_m h^2$	$0.1415^{+0.0078}_{-0.0074}$	$100\theta_{s,\text{eq}}$	$0.4510^{+0.0057}_{-0.0057}$	χ_{CMB}^2	$2789.6 (\nu: 18.0)$
$\Omega_m h^3$	$0.0955^{+0.0092}_{-0.0084}$	$H(0.15)$	$72.7^{+3.0}_{-2.7}$	χ_{BAO}^2	$6.1 (\nu: 0.6)$

$$\bar{\chi}_{\text{eff}}^2 = 3842.41; R - 1 = 0.01464$$

7.58 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00047}_{-0.00044}$	σ_8	$0.808^{+0.027}_{-0.025}$	$D_M(0.15)$	644^{+27}_{-27}
$\Omega_c h^2$	$0.1183^{+0.0076}_{-0.0072}$	S_8	$0.824^{+0.028}_{-0.028}$	$H(0.38)$	$82.7^{+3.1}_{-2.9}$
$100\theta_{MC}$	$1.0411^{+0.0012}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.016}_{-0.016}$	$D_M(0.38)$	1536^{+61}_{-61}
τ	$0.057^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.018}_{-0.018}$	$H(0.51)$	$89.4^{+3.2}_{-3.0}$
N_{eff}	$2.99^{+0.46}_{-0.43}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.022}$	$D_M(0.51)$	1990^{+77}_{-78}
$\ln(10^{10} A_s)$	$3.045^{+0.044}_{-0.035}$	$r_{\text{drag}} h$	$99.5^{+2.1}_{-2.0}$	$H(0.61)$	$95.0^{+3.3}_{-3.1}$
n_s	$0.965^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.053}_{-0.052}$	$D_M(0.61)$	2315^{+89}_{-89}
y_{cal}	$1.0008^{+0.0062}_{-0.0065}$	z_{re}	< 9.60	$H(2.33)$	$235.3^{+6.6}_{-6.4}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.102^{+0.094}_{-0.073}$	$D_M(2.33)$	5785^{+190}_{-190}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.876^{+0.043}_{-0.044}$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{40}	1231^{+34}_{-34}	$\sigma_8(0.15)$	$0.747^{+0.025}_{-0.023}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5739^{+98}_{-97}	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.014}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-36}	$\sigma_8(0.38)$	$0.662^{+0.023}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	$0.619^{+0.022}_{-0.020}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.018}_{-0.018}$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_{P}	$0.2446^{+0.0062}_{-0.0061}$	$\sigma_8(0.61)$	$0.589^{+0.021}_{-0.020}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2459^{+0.0062}_{-0.0061}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.5}$	10^5D/H	$2.56^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.85^{+0.45}_{-0.45}$	f_{2000}^{143}	29^{+8}_{-8}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.093}$	z_*	$1089.71^{+0.85}_{-0.87}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$145.2^{+4.4}_{-4.3}$	f_{2000}^{217}	$106.5^{+5.0}_{-4.9}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0413^{+0.0014}_{-0.0013}$	χ_{lensing}^2	$9.02 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.41}_{-0.40}$	χ_{simall}^2	$230 (\nu: 17276.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.8^{+1.8}_{-1.7}$	χ_{lowl}^2	$191 (\nu: 17285.7)$
A_{217}^{dustTE}	$2.07^{+0.70}_{-0.71}$	r_{drag}	$147.9^{+4.6}_{-4.5}$	χ_{plik}^2	$2359.6 (\nu: 17.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1403^{+0.0034}_{-0.0033}$	$\chi_{6\text{DF}}^2$	$0.57 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	$0.1606^{+0.0010}_{-0.0010}$	χ_{MGS}^2	$0.69 (\nu: 0.2)$
H_0	$67.3^{+3.0}_{-2.8}$	z_{eq}	3390^{+61}_{-61}	χ_{DR12BAO}^2	$5.1 (\nu: 1.2)$
Ω_{Λ}	$0.688^{+0.017}_{-0.017}$	k_{eq}	$0.01030^{+0.00029}_{-0.00027}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_{m}	$0.312^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.011}$	χ_{CMB}^2	$2789.4 (\nu: 18.0)$
$\Omega_{\text{m}} h^2$	$0.1414^{+0.0079}_{-0.0073}$	$100\theta_{\text{s,eq}}$	$0.4506^{+0.0060}_{-0.0057}$	χ_{BAO}^2	$6.3 (\nu: 0.8)$
$\Omega_{\text{m}} h^3$	$0.0952^{+0.0093}_{-0.0083}$	$H(0.15)$	$72.6^{+3.0}_{-2.8}$		

$$\bar{\chi}_{\text{eff}}^2 = 2807.29; R - 1 = 0.01488$$

7.59 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00044}_{-0.00042}$	σ_8	$0.807^{+0.028}_{-0.025}$	$D_M(0.15)$	644^{+23}_{-24}
$\Omega_c h^2$	$0.1182^{+0.0070}_{-0.0067}$	S_8	$0.823^{+0.036}_{-0.034}$	$H(0.38)$	$82.6^{+2.7}_{-2.5}$
$100\theta_{MC}$	$1.0411^{+0.0011}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.019}_{-0.019}$	$D_M(0.38)$	1537^{+52}_{-53}
τ	$0.056^{+0.020}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.022}_{-0.020}$	$H(0.51)$	$89.3^{+2.7}_{-2.6}$
N_{eff}	$2.98^{+0.40}_{-0.38}$	$\sigma_8/h^{0.5}$	$0.984^{+0.028}_{-0.025}$	$D_M(0.51)$	1990^{+66}_{-67}
$\ln(10^{10} A_s)$	$3.044^{+0.048}_{-0.036}$	$r_{\text{drag}} h$	$99.5^{+2.1}_{-2.1}$	$H(0.61)$	$94.9^{+2.8}_{-2.7}$
n_s	$0.965^{+0.016}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.066}_{-0.059}$	$D_M(0.61)$	2316^{+76}_{-76}
y_{cal}	$1.0007^{+0.0064}_{-0.0065}$	z_{re}	< 9.65	$H(2.33)$	$235.2^{+5.9}_{-5.7}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.10^{+0.10}_{-0.075}$	$D_M(2.33)$	5787^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.875^{+0.042}_{-0.043}$	$f\sigma_8(0.15)$	$0.455^{+0.019}_{-0.018}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{40}	1230^{+34}_{-33}	$\sigma_8(0.15)$	$0.746^{+0.026}_{-0.023}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5736^{+99}_{-99}	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.016}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+35}_{-37}	$\sigma_8(0.38)$	$0.661^{+0.023}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.6}_{-4.6}$	$\sigma_8(0.51)$	$0.619^{+0.022}_{-0.019}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.016}_{-0.016}$	$f\sigma_8(0.61)$	$0.467^{+0.016}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_P	$0.2445^{+0.0054}_{-0.0054}$	$\sigma_8(0.61)$	$0.589^{+0.021}_{-0.018}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2458^{+0.0054}_{-0.0054}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.0094}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.5}$	10^5D/H	$2.56^{+0.10}_{-0.11}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.85^{+0.39}_{-0.39}$	f_{2000}^{143}	29^{+8}_{-8}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.093}$	z_*	$1089.70^{+0.83}_{-0.84}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$145.2^{+3.9}_{-3.8}$	f_{2000}^{217}	$106.5^{+4.9}_{-4.8}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.0414^{+0.0012}_{-0.0012}$	χ_{simall}^2	$229 (\nu: 17290.3)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.95^{+0.36}_{-0.35}$	χ_{lowl}^2	$191 (\nu: 17293.8)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1059.8^{+1.6}_{-1.5}$	χ_{plik}^2	$2359.7 (\nu: 18.3)$
A_{217}^{dustTE}	$2.07^{+0.70}_{-0.72}$	r_{drag}	$147.9^{+4.1}_{-4.0}$	χ_{Aver15}^2	$0.32 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1403^{+0.0030}_{-0.0029}$	$\chi_{6\text{DF}}^2$	$0.58 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16060^{+0.00090}_{-0.00092}$	χ_{MGS}^2	$0.69 (\nu: 0.2)$
H_0	$67.3^{+2.7}_{-2.4}$	z_{eq}	3390^{+63}_{-62}	χ_{DR12BAO}^2	$5.1 (\nu: 1.3)$
Ω_Λ	$0.688^{+0.017}_{-0.018}$	k_{eq}	$0.01030^{+0.00028}_{-0.00027}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_m	$0.312^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{BAO}^2	$6.3 (\nu: 0.9)$
$\Omega_m h^2$	$0.1413^{+0.0071}_{-0.0068}$	$100\theta_{s,\text{eq}}$	$0.4506^{+0.0060}_{-0.0060}$	χ_{CMB}^2	$2780.4 (\nu: 17.4)$
$\Omega_m h^3$	$0.0951^{+0.0080}_{-0.0074}$	$H(0.15)$	$72.6^{+2.6}_{-2.4}$		

$$\bar{\chi}_{\text{eff}}^2 = 2798.70; R - 1 = 0.01387$$

7.60 base_nnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00044}_{-0.00043}$	S_8	$0.825^{+0.036}_{-0.033}$	$D_M(0.38)$	1534^{+51}_{-52}
$\Omega_c h^2$	$0.1187^{+0.0065}_{-0.0063}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.019}_{-0.018}$	$H(0.51)$	$89.5^{+2.6}_{-2.5}$
$100\theta_{MC}$	$1.0411^{+0.0010}_{-0.0010}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.021}_{-0.020}$	$D_M(0.51)$	1987^{+64}_{-65}
τ	$0.056^{+0.020}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.985^{+0.028}_{-0.025}$	$H(0.61)$	$95.1^{+2.7}_{-2.6}$
N_{eff}	$3.01^{+0.38}_{-0.35}$	$r_{\text{drag}} h$	$99.5^{+2.1}_{-2.1}$	$D_M(0.61)$	2312^{+73}_{-73}
$\ln(10^{10} A_s)$	$3.045^{+0.048}_{-0.035}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.068}_{-0.060}$	$H(2.33)$	$235.6^{+5.6}_{-5.5}$
n_s	$0.966^{+0.015}_{-0.015}$	z_{re}	< 9.67	$D_M(2.33)$	5777^{+160}_{-160}
y_{cal}	$1.0007^{+0.0063}_{-0.0065}$	$10^9 A_s$	$2.10^{+0.10}_{-0.073}$	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.017}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.877^{+0.042}_{-0.040}$	$\sigma_8(0.15)$	$0.747^{+0.025}_{-0.022}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1229^{+34}_{-34}	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.016}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.6}$	D_{220}	5734^{+100}_{-100}	$\sigma_8(0.38)$	$0.662^{+0.023}_{-0.020}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2538^{+35}_{-37}	$f\sigma_8(0.51)$	$0.473^{+0.016}_{-0.015}$
A_{143}^{PS}	45^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.620^{+0.022}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$231.3^{+4.4}_{-4.4}$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.966^{+0.015}_{-0.015}$	$\sigma_8(0.61)$	$0.590^{+0.021}_{-0.018}$
A^{kSZ}	—	Y_P	$0.2449^{+0.0051}_{-0.0050}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.0090}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2462^{+0.0051}_{-0.0050}$	$\sigma_8(2.33)$	$0.307^{+0.011}_{-0.0095}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	10^5D/H	$2.572^{+0.095}_{-0.099}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.5}$	Age/Gyr	$13.83^{+0.37}_{-0.37}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.77^{+0.76}_{-0.76}$	f_{2000}^{217}	$106.7^{+4.8}_{-4.8}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.093}$	r_*	$145.0^{+3.7}_{-3.6}$	χ_{simall}^2	$231 (\nu: 17261.9)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.077}$	$100\theta_*$	$1.0413^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$190 (\nu: 17264.5)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.23}$	$D_M(z_*)/\text{Gpc}$	$13.92^{+0.34}_{-0.33}$	χ_{plik}^2	$2359.7 (\nu: 18.0)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.8^{+1.6}_{-1.5}$	χ_{Aver15}^2	$0.34 (\nu: 0.1)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$147.7^{+3.8}_{-3.7}$	χ_{Cooke17}^2	$0.40 (\nu: 0.1)$
A_{217}^{dustTE}	$2.07^{+0.70}_{-0.72}$	k_D	$0.1404^{+0.0029}_{-0.0028}$	$\chi_{6\text{DF}}^2$	$0.57 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16067^{+0.00083}_{-0.00085}$	χ_{MGS}^2	$0.70 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3389^{+63}_{-62}	χ_{DR12BAO}^2	$5.1 (\nu: 1.3)$
H_0	$67.4^{+2.6}_{-2.4}$	k_{eq}	$0.01032^{+0.00027}_{-0.00026}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_Λ	$0.688^{+0.017}_{-0.018}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
Ω_m	$0.312^{+0.018}_{-0.017}$	$100\theta_{s,\text{eq}}$	$0.4507^{+0.0060}_{-0.0060}$	χ_{CMB}^2	$2780.3 (\nu: 17.1)$
$\Omega_m h^2$	$0.1417^{+0.0068}_{-0.0065}$	$H(0.15)$	$72.7^{+2.5}_{-2.4}$	χ_{Abund}^2	$0.74 (\nu: 0.2)$
$\Omega_m h^3$	$0.0955^{+0.0076}_{-0.0070}$	$D_M(0.15)$	643^{+23}_{-23}		
σ_8	$0.809^{+0.027}_{-0.024}$	$H(0.38)$	$82.8^{+2.5}_{-2.4}$		

$\bar{\chi}_{\text{eff}}^2 = 2799.05$; $R - 1 = 0.01367$

7.61 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02232	$0.02231^{+0.00052}_{-0.00048}$	(-0.4σ)	$\sigma_8 \Omega_m^{0.5}$	0.4481	$0.448^{+0.019}_{-0.019}$	(-0.4σ)	$H(0.38)$	82.89	$82.8^{+3.8}_{-3.3}$	(-0.0σ)
$\Omega_c h^2$	0.1186	$0.1182^{+0.0093}_{-0.0084}$	(-0.2σ)	$\sigma_8 \Omega_m^{0.25}$	0.6006	$0.600^{+0.022}_{-0.022}$	(-0.4σ)	$D_M(0.38)$	1531	1534^{+71}_{-73}	(-0.0σ)
$100\theta_{MC}$	1.04099	$1.0411^{+0.0012}_{-0.0012}$	(-0.1σ)	$\sigma_8/h^{0.5}$	0.9791	$0.979^{+0.027}_{-0.028}$	(-0.5σ)	$H(0.51)$	89.59	$89.4^{+3.9}_{-3.5}$	(-0.0σ)
τ	0.0533	$0.054^{+0.022}_{-0.020}$	(-0.3σ)	$r_{\text{drag}} h$	99.76	$99.8^{+2.5}_{-2.3}$	$(+0.3\sigma)$	$D_M(0.51)$	1983	1987^{+90}_{-92}	$(+0.0\sigma)$
N_{eff}	3.02	$3.00^{+0.58}_{-0.51}$	(-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.423	$2.423^{+0.065}_{-0.068}$	(-0.5σ)	$H(0.61)$	95.18	$95.0^{+4.1}_{-3.6}$	(-0.1σ)
$\ln(10^{10} A_s)$	3.0368	$3.036^{+0.048}_{-0.048}$	(-0.4σ)	z_{re}	7.57	$7.6^{+2.1}_{-2.2}$	(-0.2σ)	$D_M(0.61)$	2308	2312^{+100}_{-110}	$(+0.0\sigma)$
n_s	0.9667	$0.966^{+0.020}_{-0.019}$	$(+0.1\sigma)$	$10^9 A_s$	2.084	$2.08^{+0.10}_{-0.098}$	(-0.4σ)	$H(2.33)$	235.5	$235.1^{+8.2}_{-7.6}$	(-0.2σ)
y_{cal}	1.0002	$1.0005^{+0.0063}_{-0.0066}$	(-0.1σ)	$10^9 A_s e^{-2\tau}$	1.873	$1.871^{+0.050}_{-0.050}$	(-0.3σ)	$D_M(2.33)$	5772	5782^{+220}_{-230}	$(+0.1\sigma)$
A_{100}^{PS}	234	238^{+60}_{-60}	(-0.7σ)	D_{40}	1222.9	1224^{+36}_{-37}	(-0.4σ)	$f\sigma_8(0.15)$	0.4528	$0.452^{+0.018}_{-0.018}$	(-0.4σ)
A_{143}^{PS}	45.4	38^{+20}_{-20}	(-0.8σ)	D_{220}	5718	5720^{+98}_{-100}	(-0.4σ)	$\sigma_8(0.15)$	0.7439	$0.743^{+0.029}_{-0.028}$	(-0.3σ)
A_{217}^{PS}	101.0	102^{+30}_{-40}	(-1.3σ)	D_{810}	2532.9	2534^{+35}_{-36}	(-0.4σ)	$f\sigma_8(0.38)$	0.4714	$0.471^{+0.018}_{-0.017}$	(-0.4σ)
A_{217}^{CIB}	43.3	39^{+20}_{-20}	(-1.0σ)	D_{1420}	815.8	816^{+13}_{-13}	(-0.3σ)	$\sigma_8(0.38)$	0.6596	$0.659^{+0.027}_{-0.025}$	(-0.3σ)
A_{143}^{tSZ}	5.94	< 8.91	(-0.8σ)	D_{2000}	230.4	$230.7^{+5.4}_{-5.2}$	(-0.4σ)	$f\sigma_8(0.51)$	0.4701	$0.470^{+0.017}_{-0.017}$	(-0.4σ)
$r_{143 \times 217}^{\text{PS}}$	0.641	$0.66^{+0.32}_{-0.34}$		$n_{s,0.002}$	0.9667	$0.966^{+0.020}_{-0.019}$	$(+0.1\sigma)$	$\sigma_8(0.51)$	0.6173	$0.617^{+0.026}_{-0.024}$	(-0.3σ)
$r_{143 \times 217}^{\text{CIB}}$	0.90	—		Y_P	0.2451	$0.2447^{+0.0076}_{-0.0072}$	(-0.0σ)	$f\sigma_8(0.61)$	0.4653	$0.465^{+0.017}_{-0.017}$	(-0.4σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.55	—		Y_P^{BBN}	0.2464	$0.2460^{+0.0077}_{-0.0073}$	(-0.0σ)	$\sigma_8(0.61)$	0.5874	$0.587^{+0.025}_{-0.023}$	(-0.3σ)
A^{kSZ}	1.3	—		10^5D/H	2.587	$2.58^{+0.15}_{-0.14}$	$(+0.3\sigma)$	$f\sigma_8(2.33)$	0.2962	$0.296^{+0.013}_{-0.012}$	(-0.3σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.49}$		Age/Gyr	13.82	$13.84^{+0.53}_{-0.55}$	$(+0.1\sigma)$	$\sigma_8(2.33)$	0.3055	$0.305^{+0.014}_{-0.013}$	(-0.2σ)
A_{143}^{dust}	0.998	$0.96^{+0.47}_{-0.44}$		z_*	1089.83	$1089.8^{+1.1}_{-0.99}$	$(+0.1\sigma)$	f_{2000}^{143}	30.1	29^{+9}_{-8}	$(+0.1\sigma)$
A_{217}^{dust}	0.981	$0.98^{+0.27}_{-0.26}$		r_*	145.0	$145.2^{+5.2}_{-5.4}$	$(+0.1\sigma)$	f_{2000}^{217}	106.6	$106.5^{+5.7}_{-5.8}$	(-0.1σ)
$A_{143 \times 217}^{\text{dust}}$	0.974	$1.02^{+0.42}_{-0.41}$		$100\theta_*$	1.04120	$1.0413^{+0.0015}_{-0.0015}$	(-0.0σ)	$f_{2000}^{143 \times 217}$	31.9	32^{+6}_{-6}	(-0.0σ)
c_{100}	0.99766	$0.9975^{+0.0027}_{-0.0027}$	(-3.5σ)	$D_M(z_*)/\text{Gpc}$	13.922	$13.95^{+0.48}_{-0.50}$	$(+0.1\sigma)$	χ_{small}^2	395.88	$396.9 (\nu: 1.4)$	(-0.2σ)
c_{217}	1.00145	$1.0011^{+0.0041}_{-0.0041}$	$(+4.7\sigma)$	z_{drag}	1059.70	$1059.6^{+2.1}_{-1.9}$	(-0.3σ)	χ_{lowl}^2	22.86	$23.0 (\nu: 0.6)$	(-0.3σ)
c_{TE}	0.9966	$0.997^{+0.014}_{-0.013}$		r_{drag}	147.6	$147.9^{+5.4}_{-5.6}$	$(+0.1\sigma)$	χ_{CamSpec}^2	11500.0	$11515.3 (\nu: 17.7)$	
c_{EE}	0.9922	$0.992^{+0.014}_{-0.014}$		k_D	0.14034	$0.1402^{+0.0041}_{-0.0037}$	(-0.2σ)	$\chi_{6\text{DF}}^2$	0.022	$0.056 (\nu: 0.0)$	(-0.1σ)
H_0	67.57	$67.5^{+3.7}_{-3.2}$	$(+0.0\sigma)$	$100\theta_D$	0.16079	$0.1607^{+0.0013}_{-0.0012}$	$(+0.2\sigma)$	χ_{MGS}^2	1.28	$1.35 (\nu: 0.1)$	$(+0.3\sigma)$
Ω_Λ	0.6900	$0.690^{+0.020}_{-0.019}$	$(+0.2\sigma)$	z_{eq}	3377	3378^{+69}_{-73}	(-0.4σ)	χ_{DR12BAO}^2	4.22	$4.7 (\nu: 1.1)$	(-0.2σ)
Ω_m	0.3100	$0.310^{+0.019}_{-0.020}$	(-0.2σ)	k_{eq}	0.010292	$0.01028^{+0.00033}_{-0.00032}$	(-0.3σ)	χ_{prior}^2	2.3	$7.8 (\nu: 5.8)$	(-0.9σ)
$\Omega_m h^2$	0.1415	$0.1411^{+0.0096}_{-0.0087}$	(-0.2σ)	$100\theta_{\text{eq}}$	0.8176	$0.818^{+0.014}_{-0.013}$	$(+0.4\sigma)$	χ_{BAO}^2	5.52	$6.1 (\nu: 0.7)$	(-0.1σ)
$\Omega_m h^3$	0.0956	$0.0952^{+0.012}_{-0.0098}$	(-0.1σ)	$100\theta_{s,\text{eq}}$	0.4517	$0.4517^{+0.0072}_{-0.0065}$	$(+0.4\sigma)$	χ_{CMB}^2	11918.7	$11935.2 (\nu: 17.3)$	$(+1513.8\sigma)$
σ_8	0.8049	$0.804^{+0.031}_{-0.030}$	(-0.3σ)	$H(0.15)$	72.83	$72.7^{+3.7}_{-3.3}$	$(+0.0\sigma)$				
S_8	0.8182	$0.817^{+0.035}_{-0.035}$	(-0.4σ)	$D_M(0.15)$	641.7	643^{+31}_{-32}	(-0.0σ)				

Best-fit $\chi_{\text{eff}}^2 = 11926.54$; $\Delta\chi_{\text{eff}}^2 = 9154.92$; $\bar{\chi}_{\text{eff}}^2 = 11949.07$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.12$; $R - 1 = 0.00571$
 χ_{eff}^2 : BAO - 6DF: 0.02 (Δ -0.03) MGS: 1.28 (Δ 0.18) DR12BAO: 4.22 (Δ -0.57) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ -0.28) commander_dx12_v3_2_29: 22.86 (Δ -0.35) CamSpec like_10.7HM_1400_unified: 11499.97

7.62 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_JLA

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00054}_{-0.00050} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$82.7^{+3.5}_{-3.2} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0089}_{-0.0076} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1536^{+67}_{-70} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	$89.3^{+3.7}_{-3.3} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.6^{+2.2}_{-2.3} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1990^{+84}_{-87} \quad (+0.1\sigma)$
N_{eff}	$2.99^{+0.54}_{-0.49} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.055}_{-0.055} \quad (-0.3\sigma)$	$H(0.61)$	$94.9^{+3.8}_{-3.5} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.042} \quad (-0.3\sigma)$	z_{re}	$7.7^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2316^{+95}_{-99} \quad (+0.1\sigma)$
n_{s}	$0.965^{+0.018}_{-0.018} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.088}_{-0.087} \quad (-0.3\sigma)$	$H(2.33)$	$235.1^{+7.8}_{-6.9} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0061} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.873^{+0.049}_{-0.045} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5788^{+210}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1227^{+34}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5726^{+96}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.025}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2536^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+14}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.024}_{-0.023} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.8\sigma)$	D_{2000}	$231.0^{+5.3}_{-5.5} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.347	$n_{\mathrm{s},0.002}$	$0.965^{+0.018}_{-0.018} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.023}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2446^{+0.0072}_{-0.0069} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2459^{+0.0072}_{-0.0070} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.022}_{-0.021} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.14}_{-0.13} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.86^{+0.50}_{-0.52} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.42}$	z_*	$1089.8^{+1.0}_{-0.90} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+9}_{-9} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	r_*	$145.3^{+4.9}_{-5.1} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.7}_{-5.3} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.39}_{-0.41}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0026} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.45}_{-0.47} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.29 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.4) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.0^{+5.1}_{-5.3} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.014}$	k_{D}	$0.1401^{+0.0038}_{-0.0035} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.6 \quad (\nu: 17.4)$
H_0	$67.3^{+3.5}_{-3.1} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0013}_{-0.0012} \quad (+0.2\sigma)$	χ_{JLA}^2	$706.78 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.689^{+0.017}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3382^{+70}_{-64} \quad (-0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.061 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.017} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00031}_{-0.00028} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.27 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0093}_{-0.0079} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.013} \quad (+0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0950^{+0.011}_{-0.0094} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4513^{+0.0061}_{-0.0065} \quad (+0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.5) \quad (-0.9\sigma)$
σ_8	$0.806^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.15)$	$72.6^{+3.5}_{-3.1} \quad (-0.1\sigma)$	χ_{CMB}^2	$11944.1 \quad (\nu: 17.9) \quad (+1538.5\sigma)$
S_8	$0.821^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$644^{+30}_{-31} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12664.75; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.70; R - 1 = 0.04059$$

7.63 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022296	$0.02232^{+0.00049}_{-0.00048} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4488	$0.449^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	82.61	$82.8^{+3.6}_{-3.3} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.1179	$0.1182^{+0.0088}_{-0.0081} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6009	$0.602^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1536	$1534^{+69}_{-68} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04105	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9809	$0.982^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	89.29	$89.4^{+3.7}_{-3.4} \quad (-0.0\sigma)$
τ	0.0546	$0.056^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	99.64	$99.7^{+2.1}_{-2.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	1990	$1987^{+86}_{-87} \quad (+0.0\sigma)$
N_{eff}	2.98	$3.00^{+0.54}_{-0.50} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.429	$2.431^{+0.054}_{-0.054} \quad (-0.4\sigma)$	$H(0.61)$	94.88	$95.0^{+3.8}_{-3.5} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0388	$3.042^{+0.044}_{-0.041} \quad (-0.2\sigma)$	z_{re}	7.69	$7.8^{+1.9}_{-1.9} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	2316	$2312^{+98}_{-100} \quad (+0.0\sigma)$
n_{s}	0.9657	$0.966^{+0.018}_{-0.018} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.088	$2.094^{+0.095}_{-0.085} \quad (-0.2\sigma)$	$H(2.33)$	234.9	$235.2^{+7.7}_{-7.3} \quad (-0.1\sigma)$
y_{cal}	1.0006	$1.0007^{+0.0062}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8721	$1.873^{+0.047}_{-0.046} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5789	$5782^{+210}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	231	$238^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	1225.3	$1226^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4534	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{PS}	41.8	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5723	$5726^{+94}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7436	$0.745^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	104.0	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	2535.5	$2535^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4717	$0.472^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{CIB}	42.9	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	817.3	$817^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6592	$0.661^{+0.024}_{-0.023} \quad (-0.2\sigma)$
A_{143}^{tSZ}	6.57	$< 8.92 \quad (-0.8\sigma)$	D_{2000}	231.0	$230.9^{+5.3}_{-5.1} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4704	$0.471^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.650	> 0.339	$n_{\mathrm{s},0.002}$	0.9657	$0.966^{+0.018}_{-0.018} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6169	$0.618^{+0.023}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.80	—	Y_{P}	0.2445	$0.2447^{+0.0072}_{-0.0071} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	0.4655	$0.466^{+0.014}_{-0.014} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.33	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2458	$0.2460^{+0.0072}_{-0.0071} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	0.5870	$0.588^{+0.022}_{-0.021} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	$10^5\mathrm{D}/\mathrm{H}$	2.577	$2.58^{+0.14}_{-0.14} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.2960	$0.297^{+0.012}_{-0.011} \quad (-0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	Age/Gyr	13.86	$13.84^{+0.50}_{-0.51} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3052	$0.306^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	0.968	$0.95^{+0.46}_{-0.43}$	z_*	1089.77	$1089.8^{+1.0}_{-0.97} \quad (+0.2\sigma)$	f_{2000}^{143}	29.1	$29^{+9}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	0.975	$0.98^{+0.27}_{-0.27}$	r_*	145.3	$145.2^{+5.0}_{-5.0} \quad (+0.1\sigma)$	f_{2000}^{217}	106.3	$106.5^{+5.9}_{-5.7} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.002	$1.02^{+0.41}_{-0.40}$	$100\theta_*$	1.04129	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	31.5	$32^{+6}_{-6} \quad (-0.0\sigma)$
c_{100}	0.99776	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.959	$13.94^{+0.46}_{-0.46} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.94	$9.32 \quad (\nu: 0.4) \quad (+0.4\sigma)$
c_{217}	1.00120	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	1059.55	$1059.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	396.09	$397.1 \quad (\nu: 1.7) \quad (+0.9\sigma)$
c_{TE}	0.9964	$0.996^{+0.014}_{-0.013}$	r_{drag}	148.1	$147.9^{+5.2}_{-5.2} \quad (+0.1\sigma)$	χ_{lowl}^2	23.00	$23.1 \quad (\nu: 0.6) \quad (-0.9\sigma)$
c_{EE}	0.9918	$0.992^{+0.013}_{-0.014}$	k_{D}	0.14005	$0.1402^{+0.0038}_{-0.0036} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.7	$11514.7 \quad (\nu: 16.7)$
H_0	67.30	$67.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16070	$0.1607^{+0.0012}_{-0.0012} \quad (+0.3\sigma)$	χ_{JLA}^2	1035.03	$1035.09 \quad (\nu: 0.1) \quad (-0.1\sigma)$
Ω_{Λ}	0.6890	$0.690^{+0.017}_{-0.018} \quad (+0.1\sigma)$	z_{eq}	3381	$3379^{+63}_{-64} \quad (-0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.030	$0.053 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{m}	0.3110	$0.310^{+0.018}_{-0.017} \quad (-0.1\sigma)$	k_{eq}	0.010274	$0.01028^{+0.00031}_{-0.00030} \quad (-0.2\sigma)$	χ_{MGS}^2	1.22	$1.32 \quad (\nu: 0.1) \quad (+0.9\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.1409	$0.1412^{+0.0091}_{-0.0084} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	0.8170	$0.817^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	4.39	$4.7 \quad (\nu: 1.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.0948	$0.0953^{+0.011}_{-0.0094} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4514	$0.4516^{+0.0062}_{-0.0059} \quad (+0.3\sigma)$	χ_{prior}^2	2.0	$7.7 \quad (\nu: 5.8) \quad (-0.9\sigma)$
σ_8	0.8047	$0.806^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$H(0.15)$	72.55	$72.7^{+3.4}_{-3.2} \quad (-0.0\sigma)$	χ_{CMB}^2	11927.7	$11944.3 \quad (\nu: 17.6) \quad (+1514.0\sigma)$
S_8	0.8194	$0.820^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	644.2	$643^{+30}_{-30} \quad (+0.0\sigma)$	χ_{BAO}^2	5.64	$6.1 \quad (\nu: 0.6) \quad (-0.1\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 12970.39$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.01$; $\bar{\chi}_{\mathrm{eff}}^2 = 12993.15$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.59$; $R - 1 = 0.01037$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ -0.01) MGS: 1.22 (Δ 0.06) DR12BAO: 4.39 (Δ -0.21) CMB - smicadx12.Dec5.ftl.mv2.ndclpp-p.teb.consext8: 8.94 (Δ 0.32) small.100x143.offlike5.EE.Aplanck
396.09 (Δ -0.24) commander_dx12_v3.2.29: 23.00 (Δ -0.26) CamSpec like_10.7HM_1400_unified: 11499.66 SN - JLA Pantheon18: 1035.03 (Δ -0.04)

7.64 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00050}_{-0.00049} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	$82.6^{+3.6}_{-3.3} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0089}_{-0.0081} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1537^{+69}_{-70} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	$89.3^{+3.7}_{-3.4} \quad (-0.1\sigma)$
τ	$0.055^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.6^{+2.3}_{-2.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1991^{+88}_{-88} \quad (+0.0\sigma)$
N_{eff}	$2.98^{+0.55}_{-0.50} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.054}_{-0.055} \quad (-0.3\sigma)$	$H(0.61)$	$94.9^{+3.8}_{-3.5} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.044}_{-0.042} \quad (-0.2\sigma)$	z_{re}	$7.8^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2317^{+100}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.965^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.094}_{-0.086} \quad (-0.2\sigma)$	$H(2.33)$	$235.0^{+7.8}_{-7.3} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0062}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.047}_{-0.046} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5791^{+220}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1227^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+95}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.024}_{-0.023} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	D_{2000}	$230.9^{+5.3}_{-5.1} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.340	$n_{\mathrm{s},0.002}$	$0.965^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.023}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2445^{+0.0073}_{-0.0070} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2458^{+0.0073}_{-0.0070} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.023}_{-0.021} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.14}_{-0.14} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.86^{+0.51}_{-0.52} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.47}_{-0.43}$	z_*	$1089.8^{+1.0}_{-0.97} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.4^{+5.1}_{-5.1} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.9}_{-5.7} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.40}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.46}_{-0.47} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.27 \quad (\nu: 0.4) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+0.9\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.1^{+5.2}_{-5.3} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.6) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.014}$	k_{D}	$0.1401^{+0.0038}_{-0.0036} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.5 \quad (\nu: 16.7)$
H_0	$67.3^{+3.5}_{-3.2} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.065 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{Λ}	$0.688^{+0.018}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3383^{+65}_{-65} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.25 \quad (\nu: 0.1) \quad (+0.9\sigma)$
Ω_{m}	$0.312^{+0.019}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00031}_{-0.00030} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0091}_{-0.0085} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0949^{+0.011}_{-0.0095} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0065}_{-0.0063} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.1 \quad (\nu: 17.6) \quad (+1515.1\sigma)$
σ_8	$0.805^{+0.028}_{-0.026} \quad (-0.2\sigma)$	$H(0.15)$	$72.5^{+3.5}_{-3.2} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.821^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+30}_{-31} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.08; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.63; R - 1 = 0.01000$$

7.65 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02229^{+0.00046}_{-0.00046} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.447^{+0.019}_{-0.019} \quad (-0.5\sigma)$	$H(0.38)$	$82.6^{+2.9}_{-2.8} \quad (-0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1177^{+0.0075}_{-0.0070} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.599^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$D_{\text{M}}(0.38)$	$1537^{+58}_{-58} \quad (+0.0\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.978^{+0.026}_{-0.028} \quad (-0.5\sigma)$	$H(0.51)$	$89.2^{+3.0}_{-2.8} \quad (-0.1\sigma)$
τ	$0.054^{+0.021}_{-0.020} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.3}_{-2.3} \quad (+0.3\sigma)$	$D_{\text{M}}(0.51)$	$1992^{+74}_{-73} \quad (+0.0\sigma)$
N_{eff}	$2.97^{+0.44}_{-0.41} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.063}_{-0.065} \quad (-0.5\sigma)$	$H(0.61)$	$94.8^{+3.0}_{-2.9} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.035^{+0.047}_{-0.047} \quad (-0.4\sigma)$	z_{re}	$7.6^{+2.0}_{-2.2} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2318^{+84}_{-83} \quad (+0.0\sigma)$
n_{s}	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.08^{+0.10}_{-0.095} \quad (-0.4\sigma)$	$H(2.33)$	$234.7^{+6.4}_{-6.1} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (-0.1\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.869^{+0.043}_{-0.044} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5794^{+180}_{-180} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.018}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5720^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.026}_{-0.025} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.023}_{-0.022} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	D_{2000}	$230.9^{+5.1}_{-4.8} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.016}_{-0.016} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.336	$n_{\text{s},0.002}$	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.022}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.2443^{+0.0059}_{-0.0058} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.016}_{-0.016} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2456^{+0.0059}_{-0.0058} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.021}_{-0.020} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.57^{+0.12}_{-0.12} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	Age/Gyr	$13.87^{+0.43}_{-0.42} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.43}$	z_*	$1089.74^{+0.92}_{-0.89} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.5^{+4.2}_{-4.1} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.3^{+5.4}_{-5.5} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.97^{+0.39}_{-0.38} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.9\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.5^{+1.7}_{-1.7} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.9\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.2^{+4.3}_{-4.3} \quad (+0.2\sigma)$	χ_{CamSpec}^2	$11514.9 \quad (\nu: 16.9)$
c_{EE}	$0.992^{+0.013}_{-0.014}$	k_{D}	$0.1399^{+0.0031}_{-0.0031} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.36 \quad (\nu: 0.1) \quad (+0.1\sigma)$
H_0	$67.3^{+2.9}_{-2.7} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.056 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019} \quad (+0.2\sigma)$	z_{eq}	$3379^{+66}_{-67} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.32 \quad (\nu: 0.1) \quad (+1.0\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.018} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00029}_{-0.00028} \quad (-0.4\sigma)$	χ_{DR12BAO}^2	$4.8 \quad (\nu: 1.1) \quad (-0.2\sigma)$
$\Omega_{\text{m}} h^2$	$0.1406^{+0.0077}_{-0.0072} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.013}_{-0.013} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.0946^{+0.0087}_{-0.0079} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4515^{+0.0066}_{-0.0064} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.2\sigma)$
σ_8	$0.803^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$H(0.15)$	$72.5^{+2.9}_{-2.7} \quad (-0.0\sigma)$	χ_{CMB}^2	$11934.9 \quad (\nu: 16.8) \quad (+1535.8\sigma)$
S_8	$0.817^{+0.035}_{-0.035} \quad (-0.5\sigma)$	$D_{\text{M}}(0.15)$	$645^{+26}_{-26} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11949.20; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.29; R - 1 = 0.00729$$

7.66 **base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00046}_{-0.00046} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.020}_{-0.021} \quad (-0.5\sigma)$	$H(0.51)$	$89.4^{+2.8}_{-2.7} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0070}_{-0.0065} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.026}_{-0.028} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1988^{+72}_{-69} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0010}_{-0.0010} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.3}_{-2.3} \quad (+0.3\sigma)$	$H(0.61)$	$95.0^{+2.9}_{-2.8} \quad (-0.1\sigma)$
τ	$0.053^{+0.021}_{-0.020} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.063}_{-0.066} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2314^{+82}_{-79} \quad (+0.0\sigma)$
N_{eff}	$3.00^{+0.41}_{-0.39} \quad (-0.1\sigma)$	z_{re}	$7.6^{+2.0}_{-2.2} \quad (-0.2\sigma)$	$H(2.33)$	$235.1^{+5.9}_{-5.8} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.036^{+0.046}_{-0.047} \quad (-0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.082^{+0.099}_{-0.095} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5784^{+170}_{-170} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.016}_{-0.016} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.042}_{-0.042} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.018}_{-0.018} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (-0.1\sigma)$	D_{40}	$1224^{+33}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.025}_{-0.024} \quad (-0.4\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5719^{+99}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.017} \quad (-0.5\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.022}_{-0.022} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.016} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.6^{+5.0}_{-4.6} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.021}_{-0.021} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.016}_{-0.016} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.016} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.34}_{-0.32}$	Y_{P}	$0.2447^{+0.0054}_{-0.0054} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.020}_{-0.020} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2460^{+0.0054}_{-0.0054} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.010}_{-0.010} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.11}_{-0.11} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.85^{+0.41}_{-0.40} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	z_*	$1089.80^{+0.82}_{-0.82} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.5^{+5.3}_{-5.2} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.43}$	r_*	$145.3^{+3.9}_{-3.8} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0013}_{-0.0012} \quad (-0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.3) \quad (+0.9\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.40}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.36}_{-0.36} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.00 \quad (\nu: 0.5) \quad (-0.9\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.6}_{-1.6} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.9 \quad (\nu: 16.8)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$148.0^{+4.0}_{-4.0} \quad (+0.2\sigma)$	χ_{Aver15}^2	$0.36 \quad (\nu: 0.1) \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_{D}	$0.1401^{+0.0030}_{-0.0029} \quad (-0.3\sigma)$	$\chi_{\mathrm{Cooke17}}^2$	$0.35 \quad (\nu: 0.1) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00095}_{-0.00095} \quad (+0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (-0.8\sigma)$
H_0	$67.4^{+2.8}_{-2.7} \quad (+0.0\sigma)$	z_{eq}	$3378^{+67}_{-67} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.32 \quad (\nu: 0.1) \quad (+1.0\sigma)$
Ω_{Λ}	$0.690^{+0.017}_{-0.019} \quad (+0.2\sigma)$	k_{eq}	$0.01027^{+0.00028}_{-0.00027} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.017} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0071}_{-0.0067} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0065}_{-0.0063} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0951^{+0.0081}_{-0.0075} \quad (-0.1\sigma)$	$H(0.15)$	$72.7^{+2.7}_{-2.7} \quad (-0.0\sigma)$	χ_{CMB}^2	$11934.8 \quad (\nu: 16.6) \quad (+1545.5\sigma)$
σ_8	$0.804^{+0.026}_{-0.026} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+26}_{-24} \quad (-0.0\sigma)$	χ_{Abund}^2	$0.71 \quad (\nu: 0.2) \quad (-0.1\sigma)$
S_8	$0.818^{+0.034}_{-0.034} \quad (-0.5\sigma)$	$H(0.38)$	$82.7^{+2.8}_{-2.7} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.019}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1535^{+58}_{-55} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11949.40$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.14$; $R - 1 = 0.00827$

7.67 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02231^{+0.00052}_{-0.00048} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.448^{+0.019}_{-0.018} \quad (-0.4\sigma)$	$H(0.38)$	$82.8^{+3.8}_{-3.4} \quad (-0.0\sigma)$
$\Omega_{\text{c}}h^2$	$0.1182^{+0.0093}_{-0.0084} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.601^{+0.022}_{-0.021} \quad (-0.4\sigma)$	$D_{\text{M}}(0.38)$	$1533^{+70}_{-75} \quad (-0.0\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.026}_{-0.025} \quad (-0.4\sigma)$	$H(0.51)$	$89.5^{+3.9}_{-3.5} \quad (-0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$r_{\text{drag}}h$	$99.8^{+2.5}_{-2.3} \quad (+0.3\sigma)$	$D_{\text{M}}(0.51)$	$1986^{+88}_{-94} \quad (+0.0\sigma)$
N_{eff}	$3.00^{+0.58}_{-0.51} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.063}_{-0.064} \quad (-0.5\sigma)$	$H(0.61)$	$95.1^{+4.1}_{-3.6} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.039^{+0.047}_{-0.038} \quad (-0.4\sigma)$	z_{re}	$< 9.44 \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2312^{+100}_{-110} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.020}_{-0.019} \quad (+0.1\sigma)$	10^9A_{s}	$2.089^{+0.099}_{-0.077} \quad (-0.4\sigma)$	$H(2.33)$	$235.1^{+8.3}_{-7.5} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (-0.1\sigma)$	$10^9A_{\text{s}}e^{-2\tau}$	$1.871^{+0.050}_{-0.050} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5781^{+220}_{-230} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1224^{+36}_{-37} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5720^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.029}_{-0.027} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2534^{+35}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.026}_{-0.024} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.91 \quad (-0.8\sigma)$	D_{2000}	$230.7^{+5.4}_{-5.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.017}_{-0.016} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\text{s},0.002}$	$0.966^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.025}_{-0.023} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.2448^{+0.0077}_{-0.0072} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.017}_{-0.016} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2461^{+0.0077}_{-0.0073} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.024}_{-0.022} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5\text{D}/\text{H}$	$2.58^{+0.15}_{-0.14} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	Age/Gyr	$13.84^{+0.53}_{-0.56} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.013}_{-0.012} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.44}$	z_*	$1089.8^{+1.1}_{-1.0} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.2^{+5.2}_{-5.4} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.5^{+5.8}_{-5.8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.41}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.94^{+0.48}_{-0.50} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.6^{+2.1}_{-1.8} \quad (-0.3\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.6) \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$147.9^{+5.3}_{-5.6} \quad (+0.1\sigma)$	χ_{CamSpec}^2	$11515.1 \quad (\nu: 17.5)$
c_{EE}	$0.992^{+0.014}_{-0.014}$	k_{D}	$0.1402^{+0.0042}_{-0.0037} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$67.5^{+3.7}_{-3.2} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	χ_{MGS}^2	$1.36 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.020}_{-0.019} \quad (+0.2\sigma)$	z_{eq}	$3377^{+69}_{-74} \quad (-0.5\sigma)$	χ_{DR12BAO}^2	$4.7 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.020} \quad (-0.2\sigma)$	k_{eq}	$0.01028^{+0.00033}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.8) \quad (-0.9\sigma)$
$\Omega_{\text{m}}h^2$	$0.1411^{+0.0096}_{-0.0087} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.014}_{-0.013} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.1\sigma)$
$\Omega_{\text{m}}h^3$	$0.0953^{+0.012}_{-0.0097} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4518^{+0.0072}_{-0.0066} \quad (+0.4\sigma)$	χ_{CMB}^2	$11935.0 \quad (\nu: 17.0) \quad (+1522.1\sigma)$
σ_8	$0.805^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+3.7}_{-3.3} \quad (+0.0\sigma)$		
S_8	$0.818^{+0.034}_{-0.034} \quad (-0.4\sigma)$	$D_{\text{M}}(0.15)$	$643^{+31}_{-33} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11948.82; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.06; R - 1 = 0.00628$$

7.68 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_JLA_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02231^{+0.00055}_{-0.00050} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$82.7^{+3.5}_{-3.2} \quad (-0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1181^{+0.0089}_{-0.0077} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.602^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1536^{+67}_{-70} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.3^{+3.7}_{-3.4} \quad (-0.1\sigma)$
τ	$0.056^{+0.017}_{-0.014} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.1}_{-2.2} \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	$1990^{+84}_{-89} \quad (+0.1\sigma)$
N_{eff}	$2.99^{+0.54}_{-0.49} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.056}_{-0.052} \quad (-0.3\sigma)$	$H(0.61)$	$94.9^{+3.8}_{-3.5} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.040}_{-0.036} \quad (-0.3\sigma)$	z_{re}	$< 9.45 \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2315^{+96}_{-100} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$10^9 A_{\text{s}}$	$2.095^{+0.085}_{-0.075} \quad (-0.3\sigma)$	$H(2.33)$	$235.0^{+7.8}_{-6.9} \quad (-0.2\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0061} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.873^{+0.049}_{-0.044} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5787^{+210}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$237^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1227^{+34}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+96}_{-92} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.026}_{-0.024} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2536^{+34}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+14}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.023}_{-0.022} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.8\sigma)$	D_{2000}	$231.0^{+5.3}_{-5.5} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.347	$n_{\text{s},0.002}$	$0.966^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.023}_{-0.021} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.2446^{+0.0072}_{-0.0069} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2459^{+0.0072}_{-0.0070} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.022}_{-0.020} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.58^{+0.14}_{-0.13} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.011} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	Age/Gyr	$13.86^{+0.51}_{-0.52} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.43}$	z_*	$1089.8^{+1.0}_{-0.91} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+9}_{-9} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	r_*	$145.3^{+4.9}_{-5.1} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.8}_{-5.3} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.39}_{-0.41}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0016} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-7} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0026} \quad (-3.4\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.95^{+0.45}_{-0.47} \quad (+0.1\sigma)$	χ_{lensing}^2	$9.23 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0042} \quad (+4.9\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.0^{+5.0}_{-5.3} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.014}$	k_{D}	$0.1401^{+0.0038}_{-0.0035} \quad (-0.2\sigma)$	χ_{CamSpec}^2	$11514.5 \quad (\nu: 17.4)$
H_0	$67.3^{+3.4}_{-3.1} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0013}_{-0.0012} \quad (+0.2\sigma)$	χ_{JLA}^2	$706.78 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.689^{+0.017}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3382^{+65}_{-63} \quad (-0.3\sigma)$	$\chi_{6\text{DF}}^2$	$0.059 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.017} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00031}_{-0.00028} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.28 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1410^{+0.0093}_{-0.0078} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.012}_{-0.012} \quad (+0.2\sigma)$	χ_{DR12BAO}^2	$4.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^3$	$0.0950^{+0.011}_{-0.0094} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4513^{+0.0060}_{-0.0062} \quad (+0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.4) \quad (-0.9\sigma)$
σ_8	$0.806^{+0.027}_{-0.026} \quad (-0.3\sigma)$	$H(0.15)$	$72.6^{+3.5}_{-3.1} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.9 \quad (\nu: 17.7) \quad (+1546.9\sigma)$
S_8	$0.821^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	$644^{+30}_{-31} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 12664.58; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.66; R - 1 = 0.04058$$

7.69 **base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00049}_{-0.00049} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$82.8^{+3.6}_{-3.3} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1182^{+0.0088}_{-0.0082} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+69}_{-68} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.4^{+3.7}_{-3.4} \quad (-0.0\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.1}_{-2.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1987^{+87}_{-87} \quad (+0.0\sigma)$
N_{eff}	$3.00^{+0.54}_{-0.50} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.053}_{-0.051} \quad (-0.4\sigma)$	$H(0.61)$	$95.0^{+3.8}_{-3.5} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.043}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$< 9.50 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2312^{+99}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.093}_{-0.076} \quad (-0.2\sigma)$	$H(2.33)$	$235.2^{+7.6}_{-7.3} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0062}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.873^{+0.047}_{-0.046} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5782^{+210}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1226^{+34}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+94}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.024}_{-0.023} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.8\sigma)$	D_{2000}	$230.9^{+5.3}_{-5.1} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.339	$n_{\mathrm{s},0.002}$	$0.966^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.023}_{-0.021} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2447^{+0.0072}_{-0.0071} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2461^{+0.0072}_{-0.0071} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.022}_{-0.021} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.14}_{-0.14} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.011} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.84^{+0.51}_{-0.52} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.43}$	z_*	$1089.8^{+1.0}_{-0.97} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.2^{+5.0}_{-5.0} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.9}_{-5.7} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.40}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.46}_{-0.46} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.27 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.9} \quad (-0.3\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (+0.9\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$147.9^{+5.2}_{-5.2} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.6) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.014}$	k_{D}	$0.1402^{+0.0037}_{-0.0036} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 16.6)$
H_0	$67.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0012}_{-0.0012} \quad (+0.3\sigma)$	χ_{JLA}^2	$1035.09 \quad (\nu: 0.1) \quad (-0.1\sigma)$
Ω_{Λ}	$0.690^{+0.017}_{-0.018} \quad (+0.1\sigma)$	z_{eq}	$3379^{+63}_{-64} \quad (-0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.051 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{m}	$0.310^{+0.018}_{-0.017} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00031}_{-0.00030} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.33 \quad (\nu: 0.1) \quad (+0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0091}_{-0.0084} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.9) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0953^{+0.011}_{-0.0096} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0061}_{-0.0060} \quad (+0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.8) \quad (-0.9\sigma)$
σ_8	$0.807^{+0.027}_{-0.026} \quad (-0.2\sigma)$	$H(0.15)$	$72.7^{+3.4}_{-3.2} \quad (-0.0\sigma)$	χ_{CMB}^2	$11944.2 \quad (\nu: 17.4) \quad (+1524.1\sigma)$
S_8	$0.820^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+30}_{-30} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.6) \quad (-0.1\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12993.02; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.61; R - 1 = 0.01132$$

7.70 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00050}_{-0.00049} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	$82.6^{+3.6}_{-3.3} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0088}_{-0.0081} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1537^{+70}_{-70} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.3^{+3.7}_{-3.4} \quad (-0.1\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.6^{+2.2}_{-2.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1991^{+89}_{-88} \quad (+0.0\sigma)$
N_{eff}	$2.98^{+0.55}_{-0.50} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.054}_{-0.053} \quad (-0.3\sigma)$	$H(0.61)$	$94.9^{+3.8}_{-3.5} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.043}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$< 9.47 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2317^{+100}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.965^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.094^{+0.092}_{-0.076} \quad (-0.2\sigma)$	$H(2.33)$	$235.0^{+7.7}_{-7.4} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0062}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.047}_{-0.046} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5790^{+220}_{-220} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1227^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+95}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.024}_{-0.022} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.92 \quad (-0.8\sigma)$	D_{2000}	$231.0^{+5.3}_{-5.1} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.339	$n_{\mathrm{s},0.002}$	$0.965^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.023}_{-0.021} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2445^{+0.0073}_{-0.0070} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2458^{+0.0073}_{-0.0070} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.022}_{-0.021} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.14}_{-0.14} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.86^{+0.51}_{-0.52} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.013}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.43}$	z_*	$1089.8^{+1.0}_{-0.97} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.4^{+5.1}_{-5.0} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.9}_{-5.7} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.40}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.46}_{-0.46} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.22 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.9} \quad (-0.3\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+0.9\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.1^{+5.2}_{-5.2} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.6) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.015}$	k_{D}	$0.1401^{+0.0038}_{-0.0036} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.5 \quad (\nu: 16.6)$
H_0	$67.3^{+3.5}_{-3.2} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.063 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{Λ}	$0.689^{+0.018}_{-0.018} \quad (+0.1\sigma)$	z_{eq}	$3383^{+64}_{-66} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.26 \quad (\nu: 0.1) \quad (+0.9\sigma)$
Ω_{m}	$0.311^{+0.018}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00031}_{-0.00030} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0091}_{-0.0084} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0949^{+0.011}_{-0.0095} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0065}_{-0.0061} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.0 \quad (\nu: 17.4) \quad (+1524.6\sigma)$
σ_8	$0.806^{+0.027}_{-0.026} \quad (-0.2\sigma)$	$H(0.15)$	$72.5^{+3.5}_{-3.2} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.821^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$644^{+31}_{-31} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.94; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.65; R - 1 = 0.01105$$

7.71 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02230^{+0.00046}_{-0.00046} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.448^{+0.019}_{-0.018} \quad (-0.4\sigma)$	$H(0.38)$	$82.6^{+2.9}_{-2.8} \quad (-0.0\sigma)$
$\Omega_{\text{c}} h^2$	$0.1177^{+0.0075}_{-0.0070} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.600^{+0.020}_{-0.020} \quad (-0.4\sigma)$	$D_{\text{M}}(0.38)$	$1537^{+58}_{-58} \quad (+0.0\sigma)$
$100\theta_{\text{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.026}_{-0.025} \quad (-0.5\sigma)$	$H(0.51)$	$89.3^{+3.0}_{-2.8} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.3}_{-2.2} \quad (+0.3\sigma)$	$D_{\text{M}}(0.51)$	$1991^{+74}_{-73} \quad (+0.0\sigma)$
N_{eff}	$2.97^{+0.44}_{-0.41} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.062}_{-0.061} \quad (-0.5\sigma)$	$H(0.61)$	$94.8^{+3.0}_{-2.9} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.038^{+0.045}_{-0.035} \quad (-0.4\sigma)$	z_{re}	$< 9.44 \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2317^{+84}_{-83} \quad (+0.0\sigma)$
n_{s}	$0.965^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.086^{+0.097}_{-0.073} \quad (-0.4\sigma)$	$H(2.33)$	$234.7^{+6.3}_{-6.2} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (-0.1\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.869^{+0.044}_{-0.044} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5793^{+180}_{-180} \quad (+0.1\sigma)$
A_{100}^{PS}	$237^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.018}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5720^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.025}_{-0.023} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.016} \quad (-0.4\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.023}_{-0.021} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.96 \quad (-0.8\sigma)$	D_{2000}	$230.9^{+5.1}_{-4.8} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.016}_{-0.015} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.333	$n_{\text{s},0.002}$	$0.965^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.021}_{-0.020} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.2443^{+0.0058}_{-0.0058} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.015} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2457^{+0.0059}_{-0.0059} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.021}_{-0.019} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.57^{+0.12}_{-0.12} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.011}_{-0.0097} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	Age/Gyr	$13.87^{+0.43}_{-0.42} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.43}$	z_*	$1089.73^{+0.91}_{-0.89} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.5^{+4.2}_{-4.1} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.3^{+5.5}_{-5.5} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$100\theta_*$	$1.0414^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.97^{+0.39}_{-0.38} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.9\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.5^{+1.7}_{-1.6} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.9\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	r_{drag}	$148.2^{+4.4}_{-4.3} \quad (+0.2\sigma)$	χ_{CamSpec}^2	$11514.8 \quad (\nu: 16.7)$
c_{EE}	$0.991^{+0.013}_{-0.014}$	k_{D}	$0.1400^{+0.0031}_{-0.0031} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.36 \quad (\nu: 0.1) \quad (+0.1\sigma)$
H_0	$67.3^{+2.9}_{-2.8} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	$0.1607^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.8\sigma)$
Ω_{Λ}	$0.690^{+0.018}_{-0.018} \quad (+0.2\sigma)$	z_{eq}	$3379^{+66}_{-68} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.33 \quad (\nu: 0.1) \quad (+1.0\sigma)$
Ω_{m}	$0.310^{+0.018}_{-0.018} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00029}_{-0.00028} \quad (-0.4\sigma)$	χ_{DR12BAO}^2	$4.7 \quad (\nu: 1.1) \quad (-0.2\sigma)$
$\Omega_{\text{m}} h^2$	$0.1406^{+0.0076}_{-0.0072} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.0947^{+0.0086}_{-0.0079} \quad (-0.1\sigma)$	$100\theta_{\text{s,eq}}$	$0.4516^{+0.0066}_{-0.0062} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.2\sigma)$
σ_8	$0.804^{+0.027}_{-0.025} \quad (-0.4\sigma)$	$H(0.15)$	$72.6^{+2.9}_{-2.7} \quad (-0.0\sigma)$	χ_{CMB}^2	$11934.7 \quad (\nu: 16.5) \quad (+1550.4\sigma)$
S_8	$0.817^{+0.034}_{-0.033} \quad (-0.4\sigma)$	$D_{\text{M}}(0.15)$	$644^{+26}_{-26} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11948.97; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.27; R - 1 = 0.00928$$

7.72 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00046}_{-0.00046} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.020}_{-0.020} \quad (-0.5\sigma)$	$H(0.51)$	$89.4^{+2.8}_{-2.7} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0069}_{-0.0065} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.025}_{-0.025} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1988^{+72}_{-69} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0010}_{-0.0010} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.2}_{-2.2} \quad (+0.3\sigma)$	$H(0.61)$	$95.0^{+2.9}_{-2.8} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.061}_{-0.061} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2313^{+82}_{-79} \quad (+0.0\sigma)$
N_{eff}	$3.00^{+0.40}_{-0.38} \quad (-0.1\sigma)$	z_{re}	$< 9.42 \quad (-0.2\sigma)$	$H(2.33)$	$235.1^{+5.9}_{-5.8} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.045}_{-0.035} \quad (-0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.088^{+0.096}_{-0.072} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5783^{+170}_{-170} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.042}_{-0.041} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.017}_{-0.017} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0066} \quad (-0.1\sigma)$	D_{40}	$1224^{+33}_{-33} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.024}_{-0.022} \quad (-0.4\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5718^{+99}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.016}_{-0.016} \quad (-0.5\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.022}_{-0.020} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.6^{+5.0}_{-4.6} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.021}_{-0.019} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.336	Y_{P}	$0.2447^{+0.0054}_{-0.0054} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.020}_{-0.018} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2460^{+0.0054}_{-0.0054} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.010}_{-0.0093} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.58^{+0.11}_{-0.11} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.011}_{-0.0099} \quad (-0.3\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.85^{+0.41}_{-0.40} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	z_*	$1089.80^{+0.82}_{-0.82} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.5^{+5.3}_{-5.2} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	r_*	$145.2^{+3.9}_{-3.8} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-5} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (+0.9\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.40}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.36}_{-0.35} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.01 \quad (\nu: 0.5) \quad (-0.9\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.6}_{-1.6} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 16.6)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.9^{+4.0}_{-4.0} \quad (+0.2\sigma)$	χ_{Aver15}^2	$0.36 \quad (\nu: 0.1) \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_{D}	$0.1401^{+0.0029}_{-0.0029} \quad (-0.3\sigma)$	$\chi_{\mathrm{Cooke17}}^2$	$0.35 \quad (\nu: 0.1) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16076^{+0.00095}_{-0.00095} \quad (+0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.8\sigma)$
H_0	$67.4^{+2.8}_{-2.7} \quad (+0.0\sigma)$	z_{eq}	$3378^{+64}_{-67} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.34 \quad (\nu: 0.1) \quad (+1.0\sigma)$
Ω_{Λ}	$0.690^{+0.017}_{-0.018} \quad (+0.3\sigma)$	k_{eq}	$0.01027^{+0.00028}_{-0.00027} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.0) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.018}_{-0.017} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.012} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0071}_{-0.0067} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0066}_{-0.0061} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0951^{+0.0081}_{-0.0075} \quad (-0.1\sigma)$	$H(0.15)$	$72.7^{+2.7}_{-2.7} \quad (-0.0\sigma)$	χ_{CMB}^2	$11934.6 \quad (\nu: 16.2) \quad (+1563.4\sigma)$
σ_8	$0.805^{+0.026}_{-0.024} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+26}_{-25} \quad (-0.0\sigma)$	χ_{Abund}^2	$0.71 \quad (\nu: 0.2) \quad (-0.0\sigma)$
S_8	$0.819^{+0.033}_{-0.033} \quad (-0.5\sigma)$	$H(0.38)$	$82.7^{+2.8}_{-2.7} \quad (-0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+57}_{-55} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.15; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.10; R - 1 = 0.01020$$

7.73 base_nnu_plikHM_TT_lowl_lowE_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02263	$0.02260^{+0.00058}_{-0.00060}$	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.606^{+0.030}_{-0.029}$	$D_M(0.15)$	611.1	610^{+30}_{-28}
$\Omega_c h^2$	0.1238	$0.1248^{+0.0095}_{-0.0092}$	$\sigma_8/h^{0.5}$	0.9757	$0.977^{+0.038}_{-0.037}$	$H(0.38)$	86.33	$86.6^{+3.4}_{-3.4}$
$100\theta_{MC}$	1.04058	$1.0405^{+0.0014}_{-0.0013}$	$r_{drag}h$	102.21	$102.2^{+3.8}_{-3.9}$	$D_M(0.38)$	1462	1459^{+67}_{-62}
τ	0.0568	$0.057^{+0.024}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.387	$2.391^{+0.091}_{-0.084}$	$H(0.51)$	93.01	$93.3^{+3.4}_{-3.4}$
N_{eff}	3.478	$3.53^{+0.50}_{-0.48}$	z_{re}	7.99	$8.0^{+2.2}_{-2.2}$	$D_M(0.51)$	1897	1893^{+83}_{-78}
$\ln(10^{10} A_s)$	3.0599	$3.061^{+0.051}_{-0.047}$	$10^9 A_s$	2.132	$2.14^{+0.11}_{-0.098}$	$H(0.61)$	98.62	$98.9^{+3.5}_{-3.4}$
n_s	0.9858	$0.986^{+0.020}_{-0.020}$	$10^9 A_s e^{-2\tau}$	1.9035	$1.905^{+0.047}_{-0.048}$	$D_M(0.61)$	2210	2205^{+94}_{-89}
y_{cal}	1.0011	$1.0006^{+0.0065}_{-0.0064}$	D_{40}	1200.2	1201^{+39}_{-38}	$H(2.33)$	240.7	$241.4^{+7.6}_{-7.4}$
A_{217}^{CIB}	48.4	50^{+20}_{-20}	D_{220}	5730	5724^{+110}_{-100}	$D_M(2.33)$	5581	5566^{+190}_{-180}
$\xi^{tSZ \times CIB}$	0.59	—	D_{810}	2545.7	2542^{+36}_{-37}	$f\sigma_8(0.15)$	0.4500	$0.452^{+0.029}_{-0.027}$
A_{143}^{tSZ}	5.4	—	D_{1420}	816.1	814^{+14}_{-13}	$\sigma_8(0.15)$	0.7624	$0.764^{+0.031}_{-0.029}$
A_{100}^{PS}	265	272^{+70}_{-70}	D_{2000}	228.7	$227.7^{+5.6}_{-5.3}$	$f\sigma_8(0.38)$	0.4732	$0.475^{+0.024}_{-0.024}$
A_{143}^{PS}	54.9	53^{+20}_{-20}	$n_{s,0.002}$	0.9858	$0.986^{+0.020}_{-0.020}$	$\sigma_8(0.38)$	0.6781	$0.680^{+0.027}_{-0.025}$
$A_{143 \times 217}^{PS}$	50.2	45^{+20}_{-20}	Y_P	0.2511	$0.2517^{+0.0062}_{-0.0063}$	$f\sigma_8(0.51)$	0.4743	$0.476^{+0.022}_{-0.022}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	Y_P^{BBN}	0.2525	$0.2530^{+0.0063}_{-0.0063}$	$\sigma_8(0.51)$	0.6356	$0.637^{+0.026}_{-0.024}$
A^{kSZ}	3.0	—	$10^5 D/H$	2.686	$2.71^{+0.16}_{-0.16}$	$f\sigma_8(0.61)$	0.4710	$0.472^{+0.021}_{-0.021}$
A_{100}^{dustTT}	9.01	$9.1^{+4.7}_{-4.7}$	Age/Gyr	13.366	$13.33^{+0.45}_{-0.44}$	$\sigma_8(0.61)$	0.6054	$0.607^{+0.025}_{-0.023}$
A_{143}^{dustTT}	10.96	$10.9^{+4.6}_{-4.6}$	z_*	1090.35	$1090.5^{+1.2}_{-1.3}$	$f\sigma_8(2.33)$	0.3060	$0.307^{+0.013}_{-0.012}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.5^{+8.7}_{-8.6}$	r_*	141.20	$140.8^{+4.6}_{-4.4}$	$\sigma_8(2.33)$	0.3165	$0.317^{+0.014}_{-0.012}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$100\theta_*$	1.04046	$1.0403^{+0.0016}_{-0.0016}$	f_{2000}^{143}	32.8	34^{+8}_{-8}
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.571	$13.53^{+0.43}_{-0.41}$	$f_{2000}^{143 \times 217}$	35.1	36^{+6}_{-6}
c_{217}	0.99833	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1061.12	$1061.2^{+1.8}_{-1.9}$	f_{2000}^{217}	109.5	$110.1^{+5.5}_{-5.7}$
H_0	71.11	$71.3^{+3.5}_{-3.6}$	r_{drag}	143.74	$143.3^{+4.7}_{-4.5}$	χ_{simall}^2	396.3	$397.5 (\nu: 2.5)$
Ω_Λ	0.7091	$0.708^{+0.026}_{-0.029}$	k_D	0.14304	$0.1433^{+0.0036}_{-0.0035}$	χ_{lowl}^2	20.96	$21.17 (\nu: 0.3)$
Ω_m	0.2909	$0.292^{+0.029}_{-0.026}$	$100\theta_D$	0.16184	$0.1620^{+0.0013}_{-0.0013}$	χ_{plik}^2	765.1	$777.8 (\nu: 18.5)$
$\Omega_m h^2$	0.1471	$0.1480^{+0.0096}_{-0.0092}$	z_{eq}	3308	3308^{+110}_{-110}	$\chi_{H073p45}^2$	2.0	$2.4 (\nu: 3.0)$
$\Omega_m h^3$	0.1046	$0.106^{+0.010}_{-0.0098}$	k_{eq}	0.010384	$0.01042^{+0.00043}_{-0.00041}$	χ_{prior}^2	1.9	$7.5 (\nu: 7.2)$
σ_8	0.8227	$0.825^{+0.033}_{-0.032}$	$100\theta_{eq}$	0.8314	$0.831^{+0.021}_{-0.021}$	χ_{CMB}^2	1182.4	$1196.5 (\nu: 17.6)$
S_8	0.810	$0.813^{+0.055}_{-0.052}$	$100\theta_{s,eq}$	0.4586	$0.459^{+0.011}_{-0.011}$			
$\sigma_8 \Omega_m^{0.5}$	0.4438	$0.445^{+0.030}_{-0.029}$	$H(0.15)$	76.31	$76.5^{+3.4}_{-3.5}$			

Best-fit $\chi_{eff}^2 = 1186.27$; $\bar{\chi}_{eff}^2 = 1206.39$; $R - 1 = 0.00670$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.30 commander_dx12_v3.2.29: 20.96 plik_rd12_HM_v22_TT: 765.11 Hubble - H073p45: 1.99

7.74 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02252	$0.02251^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	0.9839	$0.984^{+0.030}_{-0.032}$	$D_{\text{M}}(0.38)$	1475	1472^{+57}_{-55}
$\Omega_{\text{c}}h^2$	0.1243	$0.1254^{+0.0093}_{-0.0088}$	$r_{\text{drag}}h$	101.26	$101.1^{+2.4}_{-2.4}$	$H(0.51)$	92.51	$92.8^{+3.2}_{-3.0}$
$100\theta_{\text{MC}}$	1.04048	$1.0404^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	2.407	$2.409^{+0.071}_{-0.070}$	$D_{\text{M}}(0.51)$	1912	1908^{+71}_{-70}
τ	0.0565	$0.056^{+0.022}_{-0.021}$	z_{re}	7.99	$7.9^{+2.1}_{-2.2}$	$H(0.61)$	98.16	$98.4^{+3.4}_{-3.2}$
N_{eff}	3.442	$3.49^{+0.49}_{-0.47}$	$10^9 A_{\text{s}}$	2.135	$2.13^{+0.11}_{-0.10}$	$D_{\text{M}}(0.61)$	2227	2222^{+83}_{-80}
$\ln(10^{10} A_{\text{s}})$	3.0612	$3.060^{+0.050}_{-0.048}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.9072	$1.907^{+0.047}_{-0.049}$	$H(2.33)$	240.8	$241.6^{+7.6}_{-7.3}$
n_{s}	0.9825	$0.982^{+0.017}_{-0.017}$	D_{40}	1206.9	1207^{+36}_{-34}	$D_{\text{M}}(2.33)$	5603	5588^{+180}_{-180}
y_{cal}	1.0015	$1.0005^{+0.0063}_{-0.0063}$	D_{220}	5728	5719^{+100}_{-100}	$f\sigma_8(0.15)$	0.4562	$0.458^{+0.022}_{-0.022}$
A_{217}^{CIB}	52.6	50^{+20}_{-20}	D_{810}	2548.1	2542^{+37}_{-36}	$\sigma_8(0.15)$	0.7641	$0.765^{+0.030}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.27	—	D_{1420}	816.4	813^{+14}_{-13}	$f\sigma_8(0.38)$	0.4780	$0.479^{+0.020}_{-0.021}$
A_{143}^{tSZ}	6.34	$4.6^{+4.6}_{-4.6}$	D_{2000}	228.9	$227.7^{+5.5}_{-5.4}$	$\sigma_8(0.38)$	0.6788	$0.680^{+0.027}_{-0.024}$
A_{100}^{PS}	264	273^{+70}_{-80}	$n_{\text{s},0.002}$	0.9825	$0.982^{+0.017}_{-0.017}$	$f\sigma_8(0.51)$	0.4782	$0.479^{+0.019}_{-0.020}$
A_{143}^{PS}	52.0	54^{+20}_{-20}	Y_{P}	0.2506	$0.2512^{+0.0062}_{-0.0063}$	$\sigma_8(0.51)$	0.6359	$0.637^{+0.025}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	46.4	45^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2519	$0.2525^{+0.0062}_{-0.0063}$	$f\sigma_8(0.61)$	0.4742	$0.475^{+0.019}_{-0.019}$
A_{217}^{PS}	116.2	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.694	$2.71^{+0.16}_{-0.15}$	$\sigma_8(0.61)$	0.6055	$0.606^{+0.024}_{-0.022}$
A^{kSZ}	1.2	—	Age/Gyr	13.417	$13.38^{+0.43}_{-0.44}$	$f\sigma_8(2.33)$	0.3058	$0.306^{+0.012}_{-0.011}$
A_{100}^{dustTT}	9.07	$9.1^{+4.6}_{-4.6}$	z_*	1090.49	$1090.6^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.3159	$0.316^{+0.013}_{-0.012}$
A_{143}^{dustTT}	10.80	$10.9^{+4.7}_{-4.6}$	r_*	141.32	$140.9^{+4.5}_{-4.4}$	f_{2000}^{143}	32.6	34^{+9}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	18.3	$18.5^{+8.5}_{-8.4}$	$100\theta_*$	1.04039	$1.0403^{+0.0016}_{-0.0016}$	$f_{2000}^{143 \times 217}$	35.1	36^{+6}_{-6}
A_{217}^{dustTT}	91.0	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	13.583	$13.54^{+0.42}_{-0.42}$	f_{2000}^{217}	109.4	$110.1^{+5.2}_{-5.6}$
c_{100}	0.99969	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1060.89	$1061.0^{+1.8}_{-1.8}$	χ_{small}^2	396.3	$397.3 (\nu: 2.0)$
c_{217}	0.99825	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	143.90	$143.4^{+4.7}_{-4.6}$	χ_{lowl}^2	21.31	$21.55 (\nu: 0.3)$
H_0	70.37	$70.5^{+3.0}_{-2.9}$	k_{D}	0.14292	$0.1433^{+0.0037}_{-0.0035}$	χ_{plik}^2	763.9	$776.3 (\nu: 17.0)$
Ω_{Λ}	0.7022	$0.701^{+0.017}_{-0.018}$	$100\theta_{\text{D}}$	0.16183	$0.1620^{+0.0013}_{-0.0012}$	χ_{H073p45}^2	3.4	$3.6 (\nu: 3.1)$
Ω_{m}	0.2978	$0.299^{+0.018}_{-0.017}$	z_{eq}	3332	3337^{+71}_{-71}	$\chi_{6\text{DF}}^2$	0.025	$0.052 (\nu: 0.0)$
$\Omega_{\text{m}}h^2$	0.1475	$0.1486^{+0.0095}_{-0.0089}$	k_{eq}	0.010438	$0.01048^{+0.00038}_{-0.00036}$	χ_{MGS}^2	2.19	$2.16 (\nu: 0.2)$
$\Omega_{\text{m}}h^3$	0.1038	$0.105^{+0.010}_{-0.0095}$	$100\theta_{\text{eq}}$	0.8263	$0.826^{+0.014}_{-0.013}$	χ_{DR12BAO}^2	3.48	$3.99 (\nu: 0.3)$
σ_8	0.8254	$0.827^{+0.032}_{-0.030}$	$100\theta_{\text{s,eq}}$	0.4561	$0.4557^{+0.0071}_{-0.0068}$	χ_{prior}^2	1.8	$7.5 (\nu: 7.0)$
S_8	0.8224	$0.825^{+0.041}_{-0.042}$	$H(0.15)$	75.64	$75.8^{+3.0}_{-2.9}$	χ_{BAO}^2	5.70	$6.2 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4504	$0.452^{+0.023}_{-0.023}$	$D_{\text{M}}(0.15)$	617.0	616^{+25}_{-24}	χ_{CMB}^2	1181.6	$1195.1 (\nu: 16.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6097	$0.611^{+0.025}_{-0.026}$	$H(0.38)$	85.76	$86.0^{+3.1}_{-3.0}$			

Best-fit $\chi_{\text{eff}}^2 = 1192.50$; $\bar{\chi}_{\text{eff}}^2 = 1212.38$; $R - 1 = 0.01231$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 2.19 DR12BAO: 3.48 CMB - small_100x143.offlike5_EE_Aplanck_B: 396.32 commander_dx12_v3.2.29: 21.31 plik_rd12_HM_v22.TT: 763.94
Hubble - H073p45: 3.44

7.75 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02254	$0.02252^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	0.9831	$0.984^{+0.029}_{-0.032}$	$D_M(0.38)$	1473	1472^{+56}_{-55}
$\Omega_c h^2$	0.1251	$0.1254^{+0.0093}_{-0.0088}$	$r_{\text{drag}} h$	101.14	$101.1^{+2.3}_{-2.3}$	$H(0.51)$	92.67	$92.8^{+3.2}_{-3.0}$
$100\theta_{\text{MC}}$	1.04041	$1.0404^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	2.406	$2.409^{+0.069}_{-0.068}$	$D_M(0.51)$	1910	1908^{+71}_{-69}
τ	0.0551	$0.056^{+0.022}_{-0.021}$	z_{re}	7.86	$7.9^{+2.1}_{-2.2}$	$H(0.61)$	98.34	$98.4^{+3.3}_{-3.2}$
N_{eff}	3.471	$3.49^{+0.49}_{-0.48}$	$10^9 A_s$	2.128	$2.13^{+0.11}_{-0.10}$	$D_M(0.61)$	2224	2222^{+81}_{-80}
$\ln(10^{10} A_s)$	3.0579	$3.060^{+0.050}_{-0.048}$	$10^9 A_s e^{-2\tau}$	1.9062	$1.907^{+0.047}_{-0.049}$	$H(2.33)$	241.4	$241.6^{+7.6}_{-7.3}$
n_s	0.9817	$0.982^{+0.017}_{-0.017}$	D_{40}	1207.0	1207^{+36}_{-33}	$D_M(2.33)$	5592	5588^{+180}_{-180}
y_{cal}	1.0005	$1.0005^{+0.0063}_{-0.0063}$	D_{220}	5721	5719^{+100}_{-100}	$f\sigma_8(0.15)$	0.4566	$0.458^{+0.021}_{-0.022}$
A_{217}^{CIB}	52.0	50^{+20}_{-20}	D_{810}	2542.6	2542^{+37}_{-36}	$\sigma_8(0.15)$	0.7638	$0.765^{+0.030}_{-0.028}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.01	—	D_{1420}	813.8	813^{+14}_{-13}	$f\sigma_8(0.38)$	0.4782	$0.479^{+0.020}_{-0.021}$
A_{143}^{tSZ}	6.31	$4.6^{+4.6}_{-4.6}$	D_{2000}	227.9	$227.7^{+5.5}_{-5.4}$	$\sigma_8(0.38)$	0.6785	$0.680^{+0.027}_{-0.024}$
A_{100}^{PS}	267	273^{+70}_{-80}	$n_{s,0.002}$	0.9817	$0.982^{+0.017}_{-0.017}$	$f\sigma_8(0.51)$	0.4783	$0.479^{+0.019}_{-0.020}$
A_{143}^{PS}	49.1	54^{+20}_{-20}	Y_{P}	0.2510	$0.2512^{+0.0062}_{-0.0063}$	$\sigma_8(0.51)$	0.6355	$0.637^{+0.025}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	39	45^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2523	$0.2525^{+0.0062}_{-0.0063}$	$f\sigma_8(0.61)$	0.4743	$0.475^{+0.019}_{-0.019}$
A_{217}^{PS}	115.0	115^{+30}_{-30}	10^5D/H	2.701	$2.71^{+0.16}_{-0.15}$	$\sigma_8(0.61)$	0.6051	$0.606^{+0.024}_{-0.022}$
A^{kSZ}	1.7	—	Age/Gyr	13.392	$13.38^{+0.43}_{-0.43}$	$f\sigma_8(2.33)$	0.3056	$0.306^{+0.012}_{-0.011}$
A_{100}^{dustTT}	9.05	$9.1^{+4.6}_{-4.6}$	z_*	1090.56	$1090.6^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3157	$0.316^{+0.013}_{-0.012}$
A_{143}^{dustTT}	10.91	$10.9^{+4.7}_{-4.6}$	r_*	140.99	$140.9^{+4.5}_{-4.5}$	f_{2000}^{143}	33.5	34^{+9}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	18.8	$18.5^{+8.5}_{-8.4}$	$100\theta_*$	1.04031	$1.0403^{+0.0016}_{-0.0016}$	$f_{2000}^{143 \times 217}$	35.5	36^{+6}_{-6}
A_{217}^{dustTT}	93.2	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.553	$13.54^{+0.42}_{-0.42}$	f_{2000}^{217}	109.9	$110.1^{+5.2}_{-5.6}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1061.00	$1061.0^{+1.8}_{-1.8}$	χ_{small}^2	396.1	$397.3 (\nu: 2.0)$
c_{217}	0.99831	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	143.56	$143.4^{+4.7}_{-4.6}$	χ_{lowl}^2	21.44	$21.54 (\nu: 0.3)$
H_0	70.45	$70.5^{+2.9}_{-2.8}$	k_{D}	0.14320	$0.1433^{+0.0037}_{-0.0036}$	χ_{plik}^2	763.7	$776.3 (\nu: 16.9)$
Ω_{Λ}	0.7013	$0.701^{+0.017}_{-0.018}$	$100\theta_{\text{D}}$	0.16187	$0.1620^{+0.0013}_{-0.0012}$	χ_{H073p45}^2	3.3	$3.6 (\nu: 3.0)$
Ω_{m}	0.2987	$0.299^{+0.018}_{-0.017}$	z_{eq}	3337	3337^{+68}_{-69}	χ_{JLA}^2	1034.734	$1034.82 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.1483	$0.1486^{+0.0096}_{-0.0089}$	k_{eq}	0.010471	$0.01048^{+0.00038}_{-0.00036}$	$\chi_{6\text{DF}}^2$	0.017	$0.049 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.1044	$0.105^{+0.010}_{-0.0095}$	$100\theta_{\text{eq}}$	0.8255	$0.826^{+0.013}_{-0.013}$	χ_{MGS}^2	2.12	$2.16 (\nu: 0.2)$
σ_8	0.8252	$0.827^{+0.033}_{-0.030}$	$100\theta_{s,\text{eq}}$	0.4556	$0.4557^{+0.0067}_{-0.0065}$	χ_{DR12BAO}^2	3.45	$3.94 (\nu: 0.3)$
S_8	0.8234	$0.825^{+0.040}_{-0.041}$	$H(0.15)$	75.74	$75.8^{+2.9}_{-2.8}$	χ_{prior}^2	1.8	$7.5 (\nu: 7.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4510	$0.452^{+0.022}_{-0.023}$	$D_M(0.15)$	616.2	616^{+25}_{-24}	χ_{BAO}^2	5.58	$6.2 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6100	$0.611^{+0.025}_{-0.026}$	$H(0.38)$	85.90	$86.0^{+3.1}_{-2.9}$	χ_{CMB}^2	1181.2	$1195.1 (\nu: 16.4)$

Best-fit $\chi_{\text{eff}}^2 = 2226.63$; $\bar{\chi}_{\text{eff}}^2 = 2247.12$; $R - 1 = 0.01243$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.12 DR12BAO: 3.45 CMB - small_100x143.offlike5_EE_Aplanck_B: 396.11 commander_dx12_v3.2.29: 21.44 plik_rd12_HM_v22.TT: 763.69
Hubble - H073p45: 3.26 SN - JLA Pantheon18: 1034.73

7.76 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02257	$0.02258^{+0.00058}_{-0.00059}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6088	$0.609^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	614.2	613^{+29}_{-28}
$\Omega_{\mathrm{c}} h^2$	0.1245	$0.1248^{+0.0087}_{-0.0083}$	$\sigma_8/h^{0.5}$	0.9820	$0.983^{+0.026}_{-0.027}$	$H(0.38)$	86.06	$86.3^{+3.4}_{-3.3}$
$100\theta_{\mathrm{MC}}$	1.04051	$1.0405^{+0.0014}_{-0.0013}$	$r_{\mathrm{drag}} h$	101.59	$101.7^{+3.4}_{-3.2}$	$D_{\mathrm{M}}(0.38)$	1468	1465^{+65}_{-62}
τ	0.0581	$0.059^{+0.023}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.403	$2.405^{+0.065}_{-0.064}$	$H(0.51)$	92.80	$93.0^{+3.4}_{-3.3}$
N_{eff}	3.471	$3.50^{+0.50}_{-0.48}$	z_{re}	8.15	$8.2^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.51)$	1905	1901^{+82}_{-78}
$\ln(10^{10} A_{\mathrm{s}})$	3.0629	$3.066^{+0.048}_{-0.043}$	$10^9 A_{\mathrm{s}}$	2.139	$2.15^{+0.10}_{-0.090}$	$H(0.61)$	98.44	$98.6^{+3.5}_{-3.4}$
n_{s}	0.9834	$0.984^{+0.020}_{-0.020}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.9041	$1.906^{+0.043}_{-0.044}$	$D_{\mathrm{M}}(0.61)$	2219	2214^{+93}_{-89}
y_{cal}	1.0003	$1.0008^{+0.0065}_{-0.0063}$	D_{40}	1204.4	1206^{+38}_{-36}	$H(2.33)$	241.1	$241.4^{+7.1}_{-6.9}$
A_{217}^{CIB}	46.9	49^{+20}_{-20}	D_{220}	5723	5729^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5588	5579^{+190}_{-190}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.72	—	D_{810}	2542.8	2544^{+36}_{-35}	$f\sigma_8(0.15)$	0.4547	$0.455^{+0.020}_{-0.020}$
A_{143}^{tSZ}	5.07	$4.6^{+4.6}_{-4.6}$	D_{1420}	814.5	814^{+14}_{-13}	$\sigma_8(0.15)$	0.7647	$0.766^{+0.026}_{-0.024}$
A_{100}^{PS}	265	272^{+70}_{-80}	D_{2000}	228.2	$228.0^{+5.9}_{-5.4}$	$f\sigma_8(0.38)$	0.4771	$0.478^{+0.017}_{-0.018}$
A_{143}^{PS}	56.7	53^{+20}_{-20}	$n_{\mathrm{s},0.002}$	0.9834	$0.984^{+0.020}_{-0.020}$	$\sigma_8(0.38)$	0.6797	$0.681^{+0.025}_{-0.022}$
$A_{143 \times 217}^{\mathrm{PS}}$	52.4	45^{+20}_{-20}	Y_{P}	0.2510	$0.2513^{+0.0063}_{-0.0064}$	$f\sigma_8(0.51)$	0.4776	$0.478^{+0.016}_{-0.016}$
A_{217}^{PS}	120.0	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2523	$0.2527^{+0.0063}_{-0.0064}$	$\sigma_8(0.51)$	0.6368	$0.638^{+0.024}_{-0.021}$
A^{kSZ}	3.4	—	$10^5 \mathrm{D}/\mathrm{H}$	2.693	$2.70^{+0.16}_{-0.15}$	$f\sigma_8(0.61)$	0.4739	$0.474^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dust}TT}$	9.07	$9.1^{+4.7}_{-4.6}$	Age/Gyr	13.383	$13.36^{+0.45}_{-0.44}$	$\sigma_8(0.61)$	0.6064	$0.608^{+0.023}_{-0.020}$
$A_{143}^{\mathrm{dust}TT}$	10.90	$10.9^{+4.7}_{-4.6}$	z_*	1090.46	$1090.5^{+1.1}_{-1.2}$	$f\sigma_8(2.33)$	0.3064	$0.307^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	19.5	$18.4^{+8.5}_{-8.5}$	r_*	141.11	$140.9^{+4.5}_{-4.3}$	$\sigma_8(2.33)$	0.3167	$0.317^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	95.1	93^{+20}_{-20}	$100\theta_*$	1.04041	$1.0403^{+0.0016}_{-0.0015}$	f_{2000}^{143}	33.0	34^{+9}_{-8}
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.563	$13.55^{+0.42}_{-0.40}$	$f_{2000}^{143 \times 217}$	35.2	36^{+6}_{-6}
c_{217}	0.99828	$0.9983^{+0.0015}_{-0.0016}$	z_{drag}	1061.04	$1061.1^{+1.8}_{-1.9}$	f_{2000}^{217}	109.4	$109.9^{+5.4}_{-5.5}$
H_0	70.72	$70.9^{+3.5}_{-3.4}$	r_{drag}	143.66	$143.5^{+4.7}_{-4.4}$	$\chi_{\mathrm{lensing}}^2$	9.68	$10.3 (\nu: 0.6)$
Ω_{Λ}	0.7046	$0.705^{+0.024}_{-0.024}$	k_{D}	0.14311	$0.1432^{+0.0035}_{-0.0035}$	χ_{simall}^2	396.7	$397.9 (\nu: 3.1)$
Ω_{m}	0.2954	$0.295^{+0.024}_{-0.024}$	$100\theta_{\mathrm{D}}$	0.16185	$0.1619^{+0.0013}_{-0.0012}$	χ_{lowl}^2	21.30	$21.43 (\nu: 0.3)$
$\Omega_{\mathrm{m}} h^2$	0.1477	$0.1481^{+0.0088}_{-0.0084}$	z_{eq}	3325	3321^{+90}_{-92}	χ_{plik}^2	764.3	$776.3 (\nu: 17.1)$
$\Omega_{\mathrm{m}} h^3$	0.1045	$0.105^{+0.010}_{-0.0096}$	k_{eq}	0.010433	$0.01044^{+0.00035}_{-0.00035}$	$\chi_{\mathrm{H073p45}}^2$	2.7	$3.0 (\nu: 3.6)$
σ_8	0.8258	$0.827^{+0.027}_{-0.026}$	$100\theta_{\mathrm{eq}}$	0.8280	$0.829^{+0.019}_{-0.017}$	χ_{prior}^2	1.6	$7.5 (\nu: 7.1)$
S_8	0.8194	$0.820^{+0.039}_{-0.039}$	$100\theta_{\mathrm{s,eq}}$	0.4569	$0.4572^{+0.0094}_{-0.0089}$	χ_{CMB}^2	1191.9	$1205.9 (\nu: 18.5)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4488	$0.449^{+0.021}_{-0.021}$	$H(0.15)$	75.97	$76.2^{+3.4}_{-3.3}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 1196.19$; $\bar{\chi}_{\mathrm{eff}}^2 = 1216.39$; $R - 1 = 0.01200$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 9.68 simall_100x143_offlike5_EE_Aplanck_B: 396.67 commander_dx12_v3.2.29: 21.30 plik_rd12_HM.v22.TT: 764.27 Hubble - H073p45: 2.71

7.77 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.024}$	$D_{\mathrm{M}}(0.38)$	1475^{+57}_{-55}
$\Omega_{\mathrm{c}}h^2$	$0.1250^{+0.0087}_{-0.0080}$	$r_{\mathrm{drag}}h$	$101.0^{+2.2}_{-2.2}$	$H(0.51)$	$92.6^{+3.1}_{-3.1}$
$100\theta_{\mathrm{MC}}$	$1.0404^{+0.0014}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.414^{+0.056}_{-0.055}$	$D_{\mathrm{M}}(0.51)$	1913^{+71}_{-70}
τ	$0.057^{+0.021}_{-0.019}$	z_{re}	$8.0^{+2.0}_{-2.0}$	$H(0.61)$	$98.2^{+3.2}_{-3.2}$
N_{eff}	$3.46^{+0.48}_{-0.45}$	$10^9 A_{\mathrm{s}}$	$2.137^{+0.094}_{-0.085}$	$D_{\mathrm{M}}(0.61)$	2227^{+81}_{-79}
$\ln(10^{10} A_{\mathrm{s}})$	$3.062^{+0.043}_{-0.040}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.906^{+0.044}_{-0.044}$	$H(2.33)$	$241.2^{+7.0}_{-6.7}$
n_{s}	$0.981^{+0.017}_{-0.017}$	D_{40}	1210^{+34}_{-34}	$D_{\mathrm{M}}(2.33)$	5599^{+180}_{-180}
y_{cal}	$1.0007^{+0.0064}_{-0.0063}$	D_{220}	5724^{+100}_{-100}	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{810}	2543^{+36}_{-35}	$\sigma_8(0.15)$	$0.765^{+0.025}_{-0.024}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	814^{+14}_{-13}	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016}$
A_{143}^{tSZ}	$4.7^{+4.8}_{-4.4}$	D_{2000}	$227.9^{+5.4}_{-5.4}$	$\sigma_8(0.38)$	$0.679^{+0.023}_{-0.021}$
A_{100}^{PS}	272^{+70}_{-80}	$n_{\mathrm{s},0.002}$	$0.981^{+0.017}_{-0.017}$	$f\sigma_8(0.51)$	$0.479^{+0.016}_{-0.015}$
A_{143}^{PS}	53^{+20}_{-20}	Y_{P}	$0.2508^{+0.0060}_{-0.0060}$	$\sigma_8(0.51)$	$0.636^{+0.022}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	45^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2521^{+0.0060}_{-0.0060}$	$f\sigma_8(0.61)$	$0.475^{+0.015}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.70^{+0.15}_{-0.14}$	$\sigma_8(0.61)$	$0.606^{+0.021}_{-0.019}$
A^{kSZ}	—	Age/Gyr	$13.41^{+0.43}_{-0.42}$	$f\sigma_8(2.33)$	$0.306^{+0.011}_{-0.0099}$
$A_{100}^{\mathrm{dustTT}}$	$9.1^{+4.7}_{-4.6}$	z_*	$1090.6^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.316^{+0.012}_{-0.011}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.6}$	r_*	$141.1^{+4.3}_{-4.2}$	f_{2000}^{143}	34^{+9}_{-8}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.5}_{-8.2}$	$100\theta_*$	$1.0403^{+0.0016}_{-0.0015}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.57^{+0.40}_{-0.39}$	f_{2000}^{217}	$109.9^{+5.4}_{-5.5}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1060.9^{+1.8}_{-1.8}$	$\chi_{\mathrm{lensing}}^2$	$10.02 (\nu: 0.3)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$143.7^{+4.5}_{-4.3}$	χ_{simall}^2	$397.4 (\nu: 2.1)$
H_0	$70.3^{+2.9}_{-2.8}$	k_{D}	$0.1431^{+0.0034}_{-0.0034}$	χ_{lowl}^2	$21.70 (\nu: 0.3)$
Ω_{Λ}	$0.700^{+0.016}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1619^{+0.0012}_{-0.0012}$	χ_{plik}^2	$775.5 (\nu: 16.1)$
Ω_{m}	$0.300^{+0.017}_{-0.016}$	z_{eq}	3339^{+65}_{-65}	$\chi_{\mathrm{H073p45}}^2$	$4.0 (\nu: 3.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1481^{+0.0088}_{-0.0083}$	k_{eq}	$0.01047^{+0.00034}_{-0.00031}$	$\chi_{6\mathrm{DF}}^2$	$0.044 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^3$	$0.1042^{+0.0099}_{-0.0091}$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.012}_{-0.012}$	χ_{MGS}^2	$2.11 (\nu: 0.2)$
σ_8	$0.826^{+0.027}_{-0.026}$	$100\theta_{\mathrm{s,eq}}$	$0.4554^{+0.0064}_{-0.0062}$	$\chi_{\mathrm{DR12BAO}}^2$	$3.90 (\nu: 0.2)$
S_8	$0.826^{+0.032}_{-0.032}$	$H(0.15)$	$75.6^{+2.9}_{-2.9}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$D_{\mathrm{M}}(0.15)$	617^{+25}_{-24}	χ_{CMB}^2	$1204.6 (\nu: 16.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.020}_{-0.020}$	$H(0.38)$	$85.8^{+3.0}_{-3.0}$	χ_{BAO}^2	$6.1 (\nu: 0.5)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1222.03; R - 1 = 0.01416$

7.78 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02252	$0.02251^{+0.00053}_{-0.00053}$	$r_{\text{drag}} h$	101.03	$101.1^{+2.1}_{-2.1}$	$D_{\text{M}}(0.51)$	1915	1913^{+70}_{-68}
$\Omega_c h^2$	0.1247	$0.1250^{+0.0087}_{-0.0080}$	$\langle d^2 \rangle^{1/2}$	2.414	$2.414^{+0.056}_{-0.054}$	$H(0.61)$	98.13	$98.2^{+3.2}_{-3.1}$
$100\theta_{\text{MC}}$	1.04049	$1.0404^{+0.0014}_{-0.0013}$	z_{re}	8.02	$8.0^{+2.0}_{-2.0}$	$D_{\text{M}}(0.61)$	2229	2227^{+81}_{-78}
τ	0.0568	$0.057^{+0.021}_{-0.019}$	$10^9 A_{\text{s}}$	2.135	$2.137^{+0.093}_{-0.084}$	$H(2.33)$	241.0	$241.2^{+7.0}_{-6.6}$
N_{eff}	3.440	$3.46^{+0.48}_{-0.45}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.9058	$1.906^{+0.044}_{-0.044}$	$D_{\text{M}}(2.33)$	5604	5599^{+180}_{-170}
$\ln(10^{10} A_{\text{s}})$	3.0610	$3.062^{+0.043}_{-0.040}$	D_{40}	1210.1	1210^{+34}_{-33}	$f\sigma_8(0.15)$	0.4575	$0.458^{+0.017}_{-0.017}$
n_{s}	0.9805	$0.981^{+0.017}_{-0.017}$	D_{220}	5726	5724^{+100}_{-100}	$\sigma_8(0.15)$	0.7643	$0.765^{+0.025}_{-0.024}$
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0063}$	D_{810}	2543.7	2543^{+36}_{-35}	$f\sigma_8(0.38)$	0.4790	$0.479^{+0.016}_{-0.016}$
A_{217}^{CIB}	52.1	49^{+20}_{-20}	D_{1420}	814.4	814^{+14}_{-13}	$\sigma_8(0.38)$	0.6788	$0.679^{+0.023}_{-0.021}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.00	—	D_{2000}	228.3	$227.9^{+5.4}_{-5.4}$	$f\sigma_8(0.51)$	0.4790	$0.479^{+0.016}_{-0.015}$
A_{143}^{tSZ}	6.67	$4.7^{+4.8}_{-4.4}$	$n_{\text{s},0.002}$	0.9805	$0.981^{+0.017}_{-0.017}$	$\sigma_8(0.51)$	0.6358	$0.636^{+0.022}_{-0.020}$
A_{100}^{PS}	265	272^{+70}_{-80}	Y_{P}	0.2506	$0.2508^{+0.0059}_{-0.0059}$	$f\sigma_8(0.61)$	0.4749	$0.475^{+0.015}_{-0.015}$
A_{143}^{PS}	49.0	53^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2519	$0.2521^{+0.0060}_{-0.0059}$	$\sigma_8(0.61)$	0.6053	$0.606^{+0.021}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	40	45^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.693	$2.70^{+0.15}_{-0.14}$	$f\sigma_8(2.33)$	0.3056	$0.306^{+0.011}_{-0.0099}$
A_{217}^{PS}	115.7	115^{+30}_{-30}	Age/Gyr	13.419	$13.41^{+0.42}_{-0.41}$	$\sigma_8(2.33)$	0.3157	$0.316^{+0.012}_{-0.011}$
A^{kSZ}	1.0	—	z_*	1090.51	$1090.6^{+1.1}_{-1.1}$	f_{2000}^{143}	33.2	34^{+9}_{-8}
A_{100}^{dustTT}	9.03	$9.1^{+4.7}_{-4.6}$	r_*	141.24	$141.1^{+4.3}_{-4.2}$	$f_{2000}^{143 \times 217}$	35.3	36^{+6}_{-6}
A_{143}^{dustTT}	10.88	$10.9^{+4.7}_{-4.6}$	$100\theta_*$	1.04041	$1.0403^{+0.0016}_{-0.0015}$	f_{2000}^{217}	109.7	$109.9^{+5.4}_{-5.5}$
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.5^{+8.5}_{-8.2}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.576	$13.57^{+0.40}_{-0.39}$	χ_{lensing}^2	9.51	$10.01 (\nu: 0.3)$
A_{217}^{dustTT}	93.4	93^{+20}_{-20}	z_{drag}	1060.92	$1060.9^{+1.8}_{-1.8}$	χ_{small}^2	396.5	$397.4 (\nu: 2.0)$
c_{100}	0.99962	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	143.81	$143.7^{+4.5}_{-4.3}$	χ_{lowl}^2	21.61	$21.69 (\nu: 0.3)$
c_{217}	0.99831	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	0.14302	$0.1431^{+0.0034}_{-0.0034}$	χ_{plik}^2	763.0	$775.5 (\nu: 16.1)$
H_0	70.25	$70.3^{+2.9}_{-2.8}$	$100\theta_{\text{D}}$	0.16181	$0.1619^{+0.0012}_{-0.0012}$	χ_{H073p45}^2	3.7	$4.0 (\nu: 3.2)$
Ω_{Λ}	0.7004	$0.701^{+0.016}_{-0.017}$	z_{eq}	3341	3339^{+63}_{-63}	χ_{JLA}^2	1034.735	$1034.82 (\nu: 0.0)$
Ω_{m}	0.2996	$0.299^{+0.017}_{-0.016}$	k_{eq}	0.010463	$0.01047^{+0.00034}_{-0.00031}$	$\chi_{6\text{DF}}^2$	0.012	$0.042 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.1478	$0.1481^{+0.0088}_{-0.0083}$	$100\theta_{\text{eq}}$	0.8248	$0.825^{+0.012}_{-0.012}$	χ_{MGS}^2	2.04	$2.11 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	0.1039	$0.1042^{+0.0099}_{-0.0090}$	$100\theta_{\text{s,eq}}$	0.4553	$0.4554^{+0.0062}_{-0.0061}$	χ_{DR12BAO}^2	3.42	$3.87 (\nu: 0.2)$
σ_8	0.8257	$0.826^{+0.027}_{-0.026}$	$H(0.15)$	75.54	$75.6^{+2.9}_{-2.8}$	χ_{prior}^2	1.8	$7.4 (\nu: 6.8)$
S_8	0.8252	$0.826^{+0.032}_{-0.031}$	$D_{\text{M}}(0.15)$	617.9	617^{+25}_{-24}	χ_{CMB}^2	1190.5	$1204.6 (\nu: 16.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4520	$0.452^{+0.017}_{-0.017}$	$H(0.38)$	85.69	$85.8^{+3.0}_{-2.9}$	χ_{BAO}^2	5.47	$6.02 (\nu: 0.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6109	$0.611^{+0.020}_{-0.020}$	$D_{\text{M}}(0.38)$	1477	1475^{+56}_{-54}			
$\sigma_8/h^{0.5}$	0.9852	$0.985^{+0.023}_{-0.023}$	$H(0.51)$	92.46	$92.6^{+3.1}_{-2.9}$			

Best-fit $\chi_{\text{eff}}^2 = 2236.25$; $\bar{\chi}_{\text{eff}}^2 = 2256.76$; $R - 1 = 0.01430$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 2.04 DR12BAO: 3.42 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 9.51 small_100x143_offlike5_EE_Aplanck_B: 396.47 comman-
der_dx12.v3.2.29: 21.61 plik_rd12_HM.v22_TT: 762.95 Hubble - H073p45: 3.71 SN - JLA Pantheon18: 1034.73

7.79 **base_nnu_plikHM_TT_lowl_lowE_Riess18_post_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02261^{+0.00058}_{-0.00060}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(0.15)$	610^{+30}_{-28}
$\Omega_{\mathrm{c}}h^2$	$0.1247^{+0.0094}_{-0.0092}$	$\sigma_8/h^{0.5}$	$0.978^{+0.038}_{-0.036}$	$H(0.38)$	$86.6^{+3.4}_{-3.4}$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0014}_{-0.0014}$	$r_{\mathrm{drag}}h$	$102.2^{+3.7}_{-3.9}$	$D_{\mathrm{M}}(0.38)$	1459^{+67}_{-62}
τ	$0.058^{+0.022}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.392^{+0.091}_{-0.084}$	$H(0.51)$	$93.3^{+3.4}_{-3.4}$
N_{eff}	$3.53^{+0.50}_{-0.48}$	z_{re}	< 10.1	$D_{\mathrm{M}}(0.51)$	1893^{+83}_{-78}
$\ln(10^{10}A_{\mathrm{s}})$	$3.063^{+0.050}_{-0.040}$	$10^9 A_{\mathrm{s}}$	$2.14^{+0.11}_{-0.084}$	$H(0.61)$	$98.9^{+3.5}_{-3.4}$
n_{s}	$0.986^{+0.020}_{-0.020}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.905^{+0.047}_{-0.048}$	$D_{\mathrm{M}}(0.61)$	2205^{+94}_{-89}
y_{cal}	$1.0006^{+0.0065}_{-0.0065}$	D_{40}	1201^{+39}_{-38}	$H(2.33)$	$241.4^{+7.5}_{-7.4}$
A_{217}^{CIB}	50^{+20}_{-20}	D_{220}	5724^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5566^{+190}_{-180}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2542^{+36}_{-37}	$f\sigma_8(0.15)$	$0.452^{+0.029}_{-0.027}$
A_{143}^{tSZ}	—	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.765^{+0.030}_{-0.029}$
A_{100}^{PS}	272^{+70}_{-70}	D_{2000}	$227.7^{+5.6}_{-5.4}$	$f\sigma_8(0.38)$	$0.475^{+0.024}_{-0.024}$
A_{143}^{PS}	53^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.986^{+0.020}_{-0.020}$	$\sigma_8(0.38)$	$0.680^{+0.027}_{-0.025}$
$A_{143 \times 217}^{\mathrm{PS}}$	45^{+20}_{-20}	Y_{P}	$0.2517^{+0.0062}_{-0.0063}$	$f\sigma_8(0.51)$	$0.476^{+0.022}_{-0.022}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2530^{+0.0063}_{-0.0063}$	$\sigma_8(0.51)$	$0.638^{+0.025}_{-0.023}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.71^{+0.16}_{-0.16}$	$f\sigma_8(0.61)$	$0.473^{+0.021}_{-0.021}$
$A_{100}^{\mathrm{dustTT}}$	$9.1^{+4.7}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.33^{+0.45}_{-0.44}$	$\sigma_8(0.61)$	$0.607^{+0.024}_{-0.022}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	z_*	$1090.5^{+1.2}_{-1.3}$	$f\sigma_8(2.33)$	$0.307^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.6}_{-8.6}$	r_*	$140.8^{+4.6}_{-4.4}$	$\sigma_8(2.33)$	$0.318^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0403^{+0.0015}_{-0.0016}$	f_{2000}^{143}	34^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.53^{+0.43}_{-0.41}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1061.2^{+1.8}_{-1.9}$	f_{2000}^{217}	$110.1^{+5.5}_{-5.6}$
H_0	$71.3^{+3.5}_{-3.6}$	r_{drag}	$143.3^{+4.8}_{-4.5}$	χ_{simall}^2	$397.5 (\nu: 2.5)$
Ω_{Λ}	$0.709^{+0.026}_{-0.030}$	k_{D}	$0.1433^{+0.0036}_{-0.0035}$	χ_{lowl}^2	$21.17 (\nu: 0.3)$
Ω_{m}	$0.291^{+0.030}_{-0.026}$	$100\theta_{\mathrm{D}}$	$0.1620^{+0.0013}_{-0.0013}$	χ_{plik}^2	$777.7 (\nu: 18.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1480^{+0.0095}_{-0.0092}$	z_{eq}	3308^{+110}_{-110}	$\chi_{\mathrm{H073p45}}^2$	$2.4 (\nu: 3.0)$
$\Omega_{\mathrm{m}}h^3$	$0.106^{+0.010}_{-0.0098}$	k_{eq}	$0.01042^{+0.00042}_{-0.00041}$	χ_{prior}^2	$7.5 (\nu: 7.2)$
σ_8	$0.825^{+0.033}_{-0.032}$	$100\theta_{\mathrm{eq}}$	$0.831^{+0.021}_{-0.021}$	χ_{CMB}^2	$1196.4 (\nu: 17.4)$
S_8	$0.813^{+0.055}_{-0.052}$	$100\theta_{\mathrm{s,eq}}$	$0.459^{+0.011}_{-0.011}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.030}_{-0.029}$	$H(0.15)$	$76.5^{+3.5}_{-3.5}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1206.27; R - 1 = 0.00718$$

7.80 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02252^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(0.38)$	1472^{+57}_{-55}
$\Omega_{\mathrm{c}}h^2$	$0.1254^{+0.0093}_{-0.0088}$	$r_{\mathrm{drag}}h$	$101.1^{+2.4}_{-2.4}$	$H(0.51)$	$92.8^{+3.2}_{-3.0}$
$100\theta_{\mathrm{MC}}$	$1.0404^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.411^{+0.070}_{-0.064}$	$D_{\mathrm{M}}(0.51)$	1908^{+71}_{-70}
τ	$0.057^{+0.020}_{-0.015}$	z_{re}	< 9.87	$H(0.61)$	$98.4^{+3.3}_{-3.2}$
N_{eff}	$3.49^{+0.49}_{-0.47}$	$10^9 A_{\mathrm{s}}$	$2.14^{+0.11}_{-0.081}$	$D_{\mathrm{M}}(0.61)$	2222^{+82}_{-80}
$\ln(10^{10} A_{\mathrm{s}})$	$3.061^{+0.049}_{-0.038}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.907^{+0.047}_{-0.049}$	$H(2.33)$	$241.7^{+7.6}_{-7.3}$
n_{s}	$0.982^{+0.017}_{-0.017}$	D_{40}	1207^{+36}_{-34}	$D_{\mathrm{M}}(2.33)$	5587^{+180}_{-180}
y_{cal}	$1.0005^{+0.0063}_{-0.0063}$	D_{220}	5719^{+100}_{-100}	$f\sigma_8(0.15)$	$0.458^{+0.022}_{-0.022}$
A_{217}^{CIB}	50^{+20}_{-20}	D_{810}	2542^{+37}_{-36}	$\sigma_8(0.15)$	$0.766^{+0.030}_{-0.027}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	813^{+13}_{-13}	$f\sigma_8(0.38)$	$0.479^{+0.020}_{-0.020}$
A_{143}^{tSZ}	$4.6^{+4.5}_{-4.6}$	D_{2000}	$227.7^{+5.3}_{-5.4}$	$\sigma_8(0.38)$	$0.680^{+0.027}_{-0.024}$
A_{100}^{PS}	273^{+70}_{-80}	$n_{\mathrm{s},0.002}$	$0.982^{+0.017}_{-0.017}$	$f\sigma_8(0.51)$	$0.480^{+0.019}_{-0.019}$
A_{143}^{PS}	54^{+20}_{-20}	Y_{P}	$0.2512^{+0.0062}_{-0.0062}$	$\sigma_8(0.51)$	$0.637^{+0.025}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	45^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2525^{+0.0062}_{-0.0063}$	$f\sigma_8(0.61)$	$0.476^{+0.018}_{-0.018}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.71^{+0.16}_{-0.15}$	$\sigma_8(0.61)$	$0.607^{+0.024}_{-0.022}$
A^{kSZ}	—	Age/Gyr	$13.38^{+0.43}_{-0.43}$	$f\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011}$
$A_{100}^{\mathrm{dustTT}}$	$9.1^{+4.6}_{-4.6}$	z_*	$1090.6^{+1.1}_{-1.2}$	$\sigma_8(2.33)$	$0.316^{+0.013}_{-0.011}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.6}$	r_*	$140.9^{+4.5}_{-4.4}$	f_{2000}^{143}	34^{+9}_{-8}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.4}_{-8.5}$	$100\theta_*$	$1.0403^{+0.0015}_{-0.0016}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.54^{+0.42}_{-0.42}$	f_{2000}^{217}	$110.0^{+5.3}_{-5.6}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1061.0^{+1.8}_{-1.8}$	χ_{simall}^2	$397.2 (\nu: 2.1)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$143.4^{+4.7}_{-4.6}$	χ_{lowl}^2	$21.55 (\nu: 0.3)$
H_0	$70.5^{+2.9}_{-2.9}$	k_{D}	$0.1433^{+0.0037}_{-0.0036}$	χ_{plik}^2	$776.2 (\nu: 16.8)$
Ω_{Λ}	$0.701^{+0.017}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.1620^{+0.0013}_{-0.0012}$	$\chi_{\mathrm{H073p45}}^2$	$3.6 (\nu: 3.1)$
Ω_{m}	$0.299^{+0.018}_{-0.017}$	z_{eq}	3337^{+71}_{-71}	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1486^{+0.0096}_{-0.0089}$	k_{eq}	$0.01048^{+0.00038}_{-0.00036}$	χ_{MGS}^2	$2.17 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^3$	$0.105^{+0.010}_{-0.0095}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.014}_{-0.013}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.00 (\nu: 0.3)$
σ_8	$0.827^{+0.032}_{-0.029}$	$100\theta_{\mathrm{s,eq}}$	$0.4557^{+0.0070}_{-0.0068}$	χ_{prior}^2	$7.4 (\nu: 7.0)$
S_8	$0.826^{+0.041}_{-0.041}$	$H(0.15)$	$75.8^{+3.0}_{-2.9}$	χ_{BAO}^2	$6.2 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	616^{+25}_{-24}	χ_{CMB}^2	$1195.0 (\nu: 16.1)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.025}_{-0.025}$	$H(0.38)$	$86.0^{+3.1}_{-3.0}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1212.22$; $R - 1 = 0.01139$

7.81 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02252^{+0.00053}_{-0.00053}$	$\sigma_8/h^{0.5}$	$0.985^{+0.029}_{-0.029}$	$D_M(0.38)$	1472^{+56}_{-54}
$\Omega_c h^2$	$0.1254^{+0.0093}_{-0.0088}$	$r_{\text{drag}} h$	$101.1^{+2.3}_{-2.3}$	$H(0.51)$	$92.8^{+3.2}_{-3.0}$
$100\theta_{\text{MC}}$	$1.0404^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.411^{+0.069}_{-0.063}$	$D_M(0.51)$	1908^{+71}_{-69}
τ	$0.057^{+0.020}_{-0.015}$	z_{re}	< 9.87	$H(0.61)$	$98.4^{+3.3}_{-3.2}$
N_{eff}	$3.49^{+0.49}_{-0.47}$	$10^9 A_s$	$2.14^{+0.11}_{-0.081}$	$D_M(0.61)$	2222^{+81}_{-80}
$\ln(10^{10} A_s)$	$3.061^{+0.049}_{-0.038}$	$10^9 A_s e^{-2\tau}$	$1.907^{+0.047}_{-0.049}$	$H(2.33)$	$241.7^{+7.6}_{-7.3}$
n_s	$0.982^{+0.017}_{-0.017}$	D_{40}	1207^{+36}_{-34}	$D_M(2.33)$	5587^{+180}_{-180}
y_{cal}	$1.0005^{+0.0063}_{-0.0063}$	D_{220}	5719^{+100}_{-100}	$f\sigma_8(0.15)$	$0.458^{+0.021}_{-0.022}$
A_{217}^{CIB}	50^{+20}_{-20}	D_{810}	2542^{+37}_{-36}	$\sigma_8(0.15)$	$0.766^{+0.030}_{-0.027}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	813^{+13}_{-13}	$f\sigma_8(0.38)$	$0.479^{+0.020}_{-0.020}$
A_{143}^{tSZ}	$4.6^{+4.5}_{-4.6}$	D_{2000}	$227.7^{+5.3}_{-5.4}$	$\sigma_8(0.38)$	$0.680^{+0.027}_{-0.024}$
A_{100}^{PS}	273^{+70}_{-80}	$n_{\text{s},0.002}$	$0.982^{+0.017}_{-0.017}$	$f\sigma_8(0.51)$	$0.480^{+0.019}_{-0.019}$
A_{143}^{PS}	54^{+20}_{-20}	Y_{P}	$0.2512^{+0.0062}_{-0.0062}$	$\sigma_8(0.51)$	$0.637^{+0.025}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	45^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2525^{+0.0062}_{-0.0062}$	$f\sigma_8(0.61)$	$0.476^{+0.018}_{-0.018}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.71^{+0.16}_{-0.15}$	$\sigma_8(0.61)$	$0.607^{+0.024}_{-0.022}$
A^{kSZ}	—	Age/Gyr	$13.38^{+0.43}_{-0.43}$	$f\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011}$
A_{100}^{dustTT}	$9.1^{+4.6}_{-4.6}$	z_*	$1090.6^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.316^{+0.013}_{-0.011}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.6}$	r_*	$140.9^{+4.5}_{-4.5}$	f_{2000}^{143}	34^{+9}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.4}$	$100\theta_*$	$1.0403^{+0.0015}_{-0.0016}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.54^{+0.42}_{-0.42}$	f_{2000}^{217}	$110.0^{+5.3}_{-5.6}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1061.0^{+1.8}_{-1.8}$	χ_{simall}^2	$397.2 (\nu: 2.1)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$143.4^{+4.7}_{-4.6}$	χ_{lowl}^2	$21.55 (\nu: 0.3)$
H_0	$70.5^{+2.9}_{-2.8}$	k_{D}	$0.1433^{+0.0037}_{-0.0036}$	χ_{plik}^2	$776.2 (\nu: 16.7)$
Ω_{Λ}	$0.701^{+0.017}_{-0.018}$	$100\theta_{\text{D}}$	$0.1620^{+0.0013}_{-0.0012}$	χ_{H073p45}^2	$3.6 (\nu: 3.0)$
Ω_{m}	$0.299^{+0.018}_{-0.017}$	z_{eq}	3337^{+68}_{-69}	χ_{JLA}^2	$1034.82 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1486^{+0.0095}_{-0.0089}$	k_{eq}	$0.01048^{+0.00038}_{-0.00036}$	$\chi_{6\text{DF}}^2$	$0.050 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.105^{+0.010}_{-0.0095}$	$100\theta_{\text{eq}}$	$0.826^{+0.013}_{-0.013}$	χ_{MGS}^2	$2.16 (\nu: 0.2)$
σ_8	$0.827^{+0.033}_{-0.029}$	$100\theta_{\text{s,eq}}$	$0.4557^{+0.0067}_{-0.0065}$	χ_{DR12BAO}^2	$3.95 (\nu: 0.3)$
S_8	$0.826^{+0.040}_{-0.040}$	$H(0.15)$	$75.8^{+2.9}_{-2.8}$	χ_{prior}^2	$7.4 (\nu: 7.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.452^{+0.022}_{-0.022}$	$D_M(0.15)$	616^{+25}_{-24}	χ_{BAO}^2	$6.2 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.612^{+0.025}_{-0.025}$	$H(0.38)$	$86.0^{+3.1}_{-2.9}$	χ_{CMB}^2	$1195.0 (\nu: 16.1)$

$\bar{\chi}_{\text{eff}}^2 = 2246.95; R - 1 = 0.01150$

7.82 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02258^{+0.00058}_{-0.00059}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.022}_{-0.021}$	$D_{\mathrm{M}}(0.15)$	613^{+29}_{-28}
$\Omega_{\mathrm{c}}h^2$	$0.1248^{+0.0085}_{-0.0083}$	$\sigma_8/h^{0.5}$	$0.983^{+0.026}_{-0.027}$	$H(0.38)$	$86.3^{+3.4}_{-3.3}$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0014}_{-0.0013}$	$r_{\mathrm{drag}}h$	$101.7^{+3.4}_{-3.2}$	$D_{\mathrm{M}}(0.38)$	1465^{+65}_{-62}
τ	$0.059^{+0.021}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.406^{+0.066}_{-0.064}$	$H(0.51)$	$93.0^{+3.4}_{-3.3}$
N_{eff}	$3.50^{+0.50}_{-0.48}$	z_{re}	< 10.2	$D_{\mathrm{M}}(0.51)$	1901^{+82}_{-78}
$\ln(10^{10}A_{\mathrm{s}})$	$3.066^{+0.047}_{-0.038}$	$10^9 A_{\mathrm{s}}$	$2.15^{+0.10}_{-0.081}$	$H(0.61)$	$98.6^{+3.5}_{-3.4}$
n_{s}	$0.984^{+0.020}_{-0.020}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.906^{+0.043}_{-0.044}$	$D_{\mathrm{M}}(0.61)$	2214^{+94}_{-89}
y_{cal}	$1.0008^{+0.0065}_{-0.0063}$	D_{40}	1206^{+38}_{-36}	$H(2.33)$	$241.4^{+7.0}_{-6.9}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{220}	5729^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5579^{+190}_{-190}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2544^{+36}_{-35}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.020}$
A_{143}^{tSZ}	$4.6^{+4.6}_{-4.6}$	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.766^{+0.026}_{-0.024}$
A_{100}^{PS}	272^{+70}_{-70}	D_{2000}	$228.0^{+5.9}_{-5.5}$	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.018}$
A_{143}^{PS}	53^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.984^{+0.020}_{-0.020}$	$\sigma_8(0.38)$	$0.681^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\mathrm{PS}}$	45^{+20}_{-20}	Y_{P}	$0.2513^{+0.0062}_{-0.0064}$	$f\sigma_8(0.51)$	$0.478^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2527^{+0.0062}_{-0.0064}$	$\sigma_8(0.51)$	$0.638^{+0.024}_{-0.021}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.70^{+0.16}_{-0.15}$	$f\sigma_8(0.61)$	$0.475^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$9.1^{+4.7}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.36^{+0.45}_{-0.44}$	$\sigma_8(0.61)$	$0.608^{+0.023}_{-0.020}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.6}$	z_*	$1090.5^{+1.1}_{-1.2}$	$f\sigma_8(2.33)$	$0.307^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.4}_{-8.5}$	r_*	$140.9^{+4.5}_{-4.2}$	$\sigma_8(2.33)$	$0.318^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0404^{+0.0016}_{-0.0016}$	f_{2000}^{143}	34^{+9}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.55^{+0.42}_{-0.40}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	z_{drag}	$1061.1^{+1.8}_{-1.9}$	f_{2000}^{217}	$109.9^{+5.4}_{-5.5}$
H_0	$70.9^{+3.5}_{-3.4}$	r_{drag}	$143.5^{+4.7}_{-4.4}$	$\chi_{\mathrm{lensing}}^2$	$10.2 (\nu: 0.6)$
Ω_{Λ}	$0.705^{+0.024}_{-0.024}$	k_{D}	$0.1432^{+0.0034}_{-0.0035}$	χ_{simall}^2	$397.9 (\nu: 3.1)$
Ω_{m}	$0.295^{+0.024}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.1619^{+0.0013}_{-0.0012}$	χ_{lowl}^2	$21.43 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1480^{+0.0088}_{-0.0084}$	z_{eq}	3321^{+90}_{-92}	χ_{plik}^2	$776.3 (\nu: 17.1)$
$\Omega_{\mathrm{m}}h^3$	$0.105^{+0.010}_{-0.0097}$	k_{eq}	$0.01044^{+0.00035}_{-0.00035}$	$\chi_{\mathrm{H073p45}}^2$	$3.0 (\nu: 3.6)$
σ_8	$0.827^{+0.027}_{-0.026}$	$100\theta_{\mathrm{eq}}$	$0.829^{+0.018}_{-0.018}$	χ_{prior}^2	$7.5 (\nu: 7.1)$
S_8	$0.820^{+0.039}_{-0.039}$	$100\theta_{\mathrm{s,eq}}$	$0.4573^{+0.0094}_{-0.0089}$	χ_{CMB}^2	$1205.8 (\nu: 18.4)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.021}$	$H(0.15)$	$76.2^{+3.4}_{-3.3}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1216.31$; $R - 1 = 0.01206$

7.83 base_nnu_plikHM_TT_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00053}_{-0.00053}$	$r_{\mathrm{drag}}h$	$101.1^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.51)$	1913^{+70}_{-68}
$\Omega_{\mathrm{c}}h^2$	$0.1249^{+0.0086}_{-0.0080}$	$\langle d^2 \rangle^{1/2}$	$2.415^{+0.056}_{-0.053}$	$H(0.61)$	$98.2^{+3.2}_{-3.2}$
$100\theta_{\mathrm{MC}}$	$1.0404^{+0.0013}_{-0.0013}$	z_{re}	< 9.82	$D_{\mathrm{M}}(0.61)$	2227^{+81}_{-78}
τ	$0.057^{+0.019}_{-0.015}$	$10^9 A_{\mathrm{s}}$	$2.138^{+0.092}_{-0.075}$	$H(2.33)$	$241.2^{+7.0}_{-6.8}$
N_{eff}	$3.46^{+0.48}_{-0.45}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.906^{+0.044}_{-0.044}$	$D_{\mathrm{M}}(2.33)$	5599^{+180}_{-170}
$\ln(10^{10} A_{\mathrm{s}})$	$3.062^{+0.042}_{-0.035}$	D_{40}	1210^{+34}_{-33}	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017}$
n_{s}	$0.981^{+0.017}_{-0.017}$	D_{220}	5724^{+100}_{-100}	$\sigma_8(0.15)$	$0.765^{+0.025}_{-0.023}$
y_{cal}	$1.0006^{+0.0063}_{-0.0063}$	D_{810}	2543^{+37}_{-35}	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.015}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.38)$	$0.680^{+0.023}_{-0.021}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$227.9^{+5.4}_{-5.4}$	$f\sigma_8(0.51)$	$0.479^{+0.016}_{-0.015}$
A_{143}^{tSZ}	$4.7^{+4.8}_{-4.4}$	$n_{\mathrm{s},0.002}$	$0.981^{+0.017}_{-0.017}$	$\sigma_8(0.51)$	$0.637^{+0.022}_{-0.019}$
A_{100}^{PS}	272^{+70}_{-80}	Y_{P}	$0.2508^{+0.0059}_{-0.0059}$	$f\sigma_8(0.61)$	$0.475^{+0.015}_{-0.015}$
A_{143}^{PS}	53^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2521^{+0.0060}_{-0.0059}$	$\sigma_8(0.61)$	$0.606^{+0.021}_{-0.019}$
$A_{143 \times 217}^{\mathrm{PS}}$	45^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.70^{+0.15}_{-0.14}$	$f\sigma_8(2.33)$	$0.306^{+0.011}_{-0.0097}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.41^{+0.42}_{-0.41}$	$\sigma_8(2.33)$	$0.316^{+0.012}_{-0.010}$
A^{kSZ}	—	z_{*}	$1090.6^{+1.1}_{-1.1}$	f_{2000}^{143}	34^{+9}_{-8}
$A_{100}^{\mathrm{dust}TT}$	$9.1^{+4.7}_{-4.6}$	r_{*}	$141.1^{+4.3}_{-4.2}$	$f_{2000}^{143 \times 217}$	36^{+6}_{-6}
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.6}$	$100\theta_{*}$	$1.0403^{+0.0015}_{-0.0015}$	f_{2000}^{217}	$109.8^{+5.4}_{-5.5}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.5}_{-8.2}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.57^{+0.40}_{-0.39}$	$\chi_{\mathrm{lensing}}^2$	$9.99 (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1060.9^{+1.8}_{-1.8}$	χ_{simall}^2	$397.4 (\nu: 2.1)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$143.7^{+4.5}_{-4.3}$	χ_{lowl}^2	$21.69 (\nu: 0.3)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	$0.1431^{+0.0034}_{-0.0034}$	χ_{plik}^2	$775.4 (\nu: 16.0)$
H_0	$70.3^{+2.9}_{-2.8}$	$100\theta_{\mathrm{D}}$	$0.1619^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{H073p45}}^2$	$4.0 (\nu: 3.2)$
Ω_{Λ}	$0.701^{+0.016}_{-0.017}$	z_{eq}	3339^{+64}_{-63}	χ_{JLA}^2	$1034.82 (\nu: 0.0)$
Ω_{m}	$0.299^{+0.017}_{-0.016}$	k_{eq}	$0.01047^{+0.00033}_{-0.00031}$	$\chi_{6\mathrm{DF}}^2$	$0.042 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1481^{+0.0088}_{-0.0082}$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.012}_{-0.012}$	χ_{MGS}^2	$2.12 (\nu: 0.1)$
$\Omega_{\mathrm{m}}h^3$	$0.1042^{+0.0098}_{-0.0090}$	$100\theta_{\mathrm{s,eq}}$	$0.4555^{+0.0062}_{-0.0061}$	$\chi_{\mathrm{DR12BAO}}^2$	$3.87 (\nu: 0.2)$
σ_8	$0.827^{+0.026}_{-0.025}$	$H(0.15)$	$75.6^{+2.9}_{-2.8}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
S_8	$0.826^{+0.032}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	617^{+25}_{-24}	χ_{CMB}^2	$1204.5 (\nu: 16.3)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$H(0.38)$	$85.8^{+3.0}_{-2.9}$	χ_{BAO}^2	$6.03 (\nu: 0.5)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.020}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1475^{+56}_{-54}		
$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.023}$	$H(0.51)$	$92.6^{+3.1}_{-3.0}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2256.66; R - 1 = 0.01360$$

7.84 base_nnu_plikHM_TTTEE_lowl_lowE_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022649	$0.02266^{+0.00049}_{-0.00048}$	$\Omega_m h^3$	0.1006	$0.1014^{+0.0089}_{-0.0081}$	$100\theta_{s,eq}$	0.4538	$0.4539^{+0.0082}_{-0.0078}$
$\Omega_c h^2$	0.1218	$0.1225^{+0.0075}_{-0.0069}$	σ_8	0.8177	$0.820^{+0.028}_{-0.027}$	$H(0.15)$	74.59	$74.8^{+3.0}_{-2.9}$
$100\theta_{MC}$	1.04076	$1.0407^{+0.0010}_{-0.0010}$	S_8	0.8203	$0.822^{+0.040}_{-0.040}$	$D_M(0.15)$	626.0	624^{+26}_{-26}
τ	0.0578	$0.058^{+0.022}_{-0.021}$	$\sigma_8 \Omega_m^{0.5}$	0.4493	$0.450^{+0.022}_{-0.022}$	$H(0.38)$	84.68	$84.9^{+3.1}_{-2.9}$
N_{eff}	3.256	$3.30^{+0.43}_{-0.40}$	$\sigma_8 \Omega_m^{0.25}$	0.6061	$0.608^{+0.023}_{-0.023}$	$D_M(0.38)$	1495	1491^{+59}_{-57}
$\ln(10^{10} A_s)$	3.0551	$3.058^{+0.048}_{-0.046}$	$\sigma_8/h^{0.5}$	0.9820	$0.983^{+0.030}_{-0.031}$	$H(0.51)$	91.40	$91.7^{+3.1}_{-2.9}$
n_s	0.9765	$0.977^{+0.018}_{-0.017}$	$r_{drag} h$	100.72	$100.8^{+3.0}_{-2.8}$	$D_M(0.51)$	1938	1933^{+74}_{-72}
y_{cal}	1.0000	$1.0008^{+0.0065}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	2.416	$2.419^{+0.073}_{-0.072}$	$H(0.61)$	97.03	$97.3^{+3.1}_{-3.0}$
A_{217}^{CIB}	47.3	48^{+20}_{-20}	z_{re}	8.03	$8.0^{+2.1}_{-2.2}$	$D_M(0.61)$	2257	2251^{+83}_{-83}
$\xi^{tSZ \times CIB}$	0.66	—	$10^9 A_s$	2.122	$2.13^{+0.10}_{-0.095}$	$H(2.33)$	238.7	$239.3^{+6.2}_{-6.0}$
A_{143}^{tSZ}	6.3	—	$10^9 A_s e^{-2\tau}$	1.8906	$1.896^{+0.041}_{-0.041}$	$D_M(2.33)$	5666	5651^{+170}_{-170}
A_{100}^{PS}	256	263^{+70}_{-70}	D_{40}	1212.9	1215^{+37}_{-35}	$f\sigma_8(0.15)$	0.4547	$0.456^{+0.021}_{-0.021}$
A_{143}^{PS}	51.3	48^{+20}_{-20}	D_{220}	5731	5739^{+100}_{-98}	$\sigma_8(0.15)$	0.7566	$0.759^{+0.026}_{-0.025}$
$A_{143 \times 217}^{PS}$	51.0	43^{+20}_{-20}	D_{810}	2540.0	2543^{+36}_{-35}	$f\sigma_8(0.38)$	0.4753	$0.477^{+0.019}_{-0.019}$
A_{217}^{PS}	118.6	114^{+30}_{-30}	D_{1420}	817.1	817^{+13}_{-12}	$\sigma_8(0.38)$	0.6717	$0.674^{+0.023}_{-0.023}$
A^{kSZ}	1.7	—	D_{2000}	230.29	$230.1^{+4.8}_{-4.5}$	$f\sigma_8(0.51)$	0.4751	$0.476^{+0.017}_{-0.017}$
A_{100}^{dustTT}	8.94	$9.1^{+4.6}_{-4.7}$	$n_{s,0.002}$	0.9765	$0.977^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	0.6291	$0.631^{+0.022}_{-0.022}$
A_{143}^{dustTT}	11.11	$11.1^{+4.5}_{-4.6}$	Y_P	0.2483	$0.2488^{+0.0055}_{-0.0054}$	$f\sigma_8(0.61)$	0.4708	$0.472^{+0.017}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.8^{+8.6}_{-8.5}$	Y_P^{BBN}	0.2496	$0.2501^{+0.0056}_{-0.0055}$	$\sigma_8(0.61)$	0.5988	$0.601^{+0.021}_{-0.021}$
A_{217}^{dustTT}	94.1	94^{+20}_{-20}	$10^5 D/H$	2.607	$2.62^{+0.12}_{-0.11}$	$f\sigma_8(2.33)$	0.3023	$0.303^{+0.011}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.115^{+0.096}_{-0.095}$	Age/Gyr	13.568	$13.53^{+0.40}_{-0.40}$	$\sigma_8(2.33)$	0.3121	$0.313^{+0.012}_{-0.011}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.078}_{-0.077}$	z_*	1089.93	$1090.02^{+0.92}_{-0.88}$	f_{2000}^{143}	30.0	31^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	0.478	$0.48^{+0.23}_{-0.22}$	r_*	142.73	$142.4^{+3.9}_{-3.9}$	$f_{2000}^{143 \times 217}$	32.9	33^{+5}_{-5}
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04078	$1.0407^{+0.0012}_{-0.0012}$	f_{2000}^{217}	107.2	$107.9^{+5.0}_{-5.1}$
$A_{143 \times 217}^{dustTE}$	0.664	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.713	$13.68^{+0.36}_{-0.36}$	χ_{small}^2	396.6	$397.6 (\nu: 2.8)$
A_{217}^{dustTE}	2.08	$2.07^{+0.69}_{-0.68}$	z_{drag}	1060.89	$1061.0^{+1.7}_{-1.6}$	χ_{lowl}^2	21.93	$22.03 (\nu: 0.4)$
c_{100}	0.99968	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	145.27	$144.9^{+4.0}_{-4.0}$	χ_{plik}^2	2349.8	$2365.3 (\nu: 24.5)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14222	$0.1425^{+0.0031}_{-0.0030}$	$\chi_{H073p45}^2$	6.1	$6.0 (\nu: 5.5)$
H_0	69.33	$69.5^{+3.1}_{-3.0}$	$100\theta_D$	0.16108	$0.16119^{+0.00097}_{-0.00093}$	χ_{prior}^2	1.8	$11.9 (\nu: 10.9)$
Ω_Λ	0.6981	$0.698^{+0.022}_{-0.022}$	z_{eq}	3358	3356^{+80}_{-81}	χ_{CMB}^2	2768.3	$2785.0 (\nu: 22.2)$
Ω_m	0.3019	$0.302^{+0.022}_{-0.022}$	k_{eq}	0.010391	$0.01042^{+0.00031}_{-0.00030}$			
$\Omega_m h^2$	0.1451	$0.1458^{+0.0077}_{-0.0071}$	$100\theta_{eq}$	0.8222	$0.822^{+0.016}_{-0.015}$			

Best-fit $\chi_{eff}^2 = 2776.34$; $\bar{\chi}_{eff}^2 = 2802.87$; $R - 1 = 0.00770$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.62 commander_dx12_v3.2_29: 21.93 plik_rd12_HM_v22b_TTTEE: 2349.80 Hubble - H073p45: 6.15

7.85 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022656	$0.02264^{+0.00043}_{-0.00042}$	σ_8	0.8205	$0.820^{+0.027}_{-0.027}$	$D_M(0.15)$	626.2	625^{+23}_{-21}
$\Omega_c h^2$	0.1222	$0.1226^{+0.0075}_{-0.0069}$	S_8	0.8245	$0.824^{+0.034}_{-0.034}$	$H(0.38)$	84.69	$84.8^{+2.7}_{-2.6}$
$100\theta_{MC}$	1.04068	$1.0407^{+0.0010}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	0.4516	$0.451^{+0.018}_{-0.019}$	$D_M(0.38)$	1495	1493^{+51}_{-49}
τ	0.0587	$0.058^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6087	$0.608^{+0.021}_{-0.022}$	$H(0.51)$	91.42	$91.6^{+2.7}_{-2.7}$
N_{eff}	3.266	$3.29^{+0.42}_{-0.39}$	$\sigma_8/h^{0.5}$	0.9856	$0.984^{+0.027}_{-0.027}$	$D_M(0.51)$	1939	1935^{+64}_{-62}
$\ln(10^{10} A_s)$	3.0601	$3.057^{+0.047}_{-0.045}$	$r_{\text{drag}} h$	100.57	$100.6^{+2.1}_{-2.0}$	$H(0.61)$	97.06	$97.2^{+2.9}_{-2.8}$
n_s	0.9763	$0.976^{+0.016}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	2.424	$2.421^{+0.065}_{-0.062}$	$D_M(0.61)$	2257	2253^{+73}_{-72}
y_{cal}	1.0011	$1.0007^{+0.0064}_{-0.0063}$	z_{re}	8.12	$8.0^{+2.1}_{-2.2}$	$H(2.33)$	239.0	$239.3^{+6.2}_{-6.0}$
A_{217}^{CIB}	49.5	48^{+20}_{-20}	$10^9 A_s$	2.133	$2.13^{+0.10}_{-0.095}$	$D_M(2.33)$	5664	5655^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.30	—	$10^9 A_s e^{-2\tau}$	1.8968	$1.896^{+0.041}_{-0.040}$	$f\sigma_8(0.15)$	0.4569	$0.456^{+0.018}_{-0.018}$
A_{143}^{tSZ}	7.1	—	D_{40}	1216.8	1216^{+34}_{-32}	$\sigma_8(0.15)$	0.7590	$0.759^{+0.025}_{-0.025}$
A_{100}^{PS}	254	263^{+70}_{-70}	D_{220}	5745	5739^{+100}_{-97}	$f\sigma_8(0.38)$	0.4774	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	47.2	48^{+20}_{-20}	D_{810}	2546.1	2543^{+36}_{-35}	$\sigma_8(0.38)$	0.6738	$0.673^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	45.2	42^{+20}_{-20}	D_{1420}	818.8	817^{+13}_{-12}	$f\sigma_8(0.51)$	0.4770	$0.477^{+0.016}_{-0.016}$
A_{217}^{PS}	118.0	114^{+30}_{-30}	D_{2000}	230.79	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.51)$	0.6309	$0.631^{+0.022}_{-0.021}$
A^{kSZ}	0.1	—	$n_{s,0.002}$	0.9763	$0.976^{+0.016}_{-0.015}$	$f\sigma_8(0.61)$	0.4727	$0.472^{+0.016}_{-0.016}$
A_{100}^{dustTT}	8.84	$9.1^{+4.6}_{-4.8}$	Y_{P}	0.2484	$0.2487^{+0.0054}_{-0.0053}$	$\sigma_8(0.61)$	0.6006	$0.600^{+0.021}_{-0.020}$
A_{143}^{dustTT}	10.97	$11.1^{+4.5}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.2497	$0.2500^{+0.0054}_{-0.0053}$	$f\sigma_8(2.33)$	0.3031	$0.303^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.8^{+8.5}_{-8.4}$	$10^5 D/H$	2.609	$2.62^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	0.3129	$0.313^{+0.011}_{-0.011}$
A_{217}^{dustTT}	93.0	94^{+20}_{-20}	Age/Gyr	13.561	$13.54^{+0.38}_{-0.38}$	f_{2000}^{143}	29.7	31^{+8}_{-8}
A_{100}^{dustTE}	0.112	$0.115^{+0.098}_{-0.093}$	z_*	1089.96	$1090.03^{+0.92}_{-0.86}$	$f_{2000}^{143 \times 217}$	32.8	33^{+5}_{-6}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.078}_{-0.078}$	r_*	142.59	$142.4^{+3.8}_{-3.9}$	f_{2000}^{217}	107.37	$107.9^{+4.8}_{-5.1}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04069	$1.0407^{+0.0012}_{-0.0012}$	χ_{small}^2	396.9	$397.6 (\nu: 2.7)$
A_{143}^{dustTE}	0.219	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.701	$13.68^{+0.36}_{-0.36}$	χ_{lowl}^2	22.03	$22.08 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.92	$1060.9^{+1.6}_{-1.5}$	χ_{plik}^2	2349.0	$2364.6 (\nu: 22.2)$
A_{217}^{dustTE}	2.08	$2.08^{+0.70}_{-0.68}$	r_{drag}	145.13	$144.9^{+3.9}_{-4.0}$	χ_{H073p45}^2	6.3	$6.2 (\nu: 4.1)$
c_{100}	0.99965	$0.9997^{+0.0015}_{-0.0016}$	k_{D}	0.14234	$0.1425^{+0.0030}_{-0.0029}$	$\chi_{6\text{DF}}^2$	0.000	$0.027 (\nu: 0.0)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16109	$0.16118^{+0.00099}_{-0.00094}$	χ_{MGS}^2	1.75	$1.84 (\nu: 0.1)$
H_0	69.30	$69.4^{+2.6}_{-2.5}$	z_{eq}	3362	3360^{+60}_{-59}	χ_{DR12BAO}^2	3.52	$3.90 (\nu: 0.2)$
Ω_{Λ}	0.6971	$0.697^{+0.015}_{-0.016}$	k_{eq}	0.010411	$0.01042^{+0.00030}_{-0.00028}$	χ_{prior}^2	2.1	$11.9 (\nu: 10.9)$
Ω_{m}	0.3029	$0.303^{+0.016}_{-0.015}$	$100\theta_{\text{eq}}$	0.8214	$0.822^{+0.011}_{-0.011}$	χ_{BAO}^2	5.26	$5.76 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	0.1455	$0.1459^{+0.0077}_{-0.0071}$	$100\theta_{\text{s,eq}}$	0.4534	$0.4536^{+0.0058}_{-0.0058}$	χ_{CMB}^2	2767.9	$2784.3 (\nu: 20.3)$
$\Omega_{\text{m}} h^3$	0.1008	$0.1013^{+0.0086}_{-0.0078}$	$H(0.15)$	74.57	$74.7^{+2.6}_{-2.5}$			

Best-fit $\chi_{\text{eff}}^2 = 2781.50$; $\bar{\chi}_{\text{eff}}^2 = 2808.11$; $R - 1 = 0.00961$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.52 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.87 commander_dx12_v3_2_29: 22.03 plik_rd12_HM_v22b_TTTEEE: 2349.01 Hubble - H073p45: 6.25

7.86 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022654	$0.02265^{+0.00043}_{-0.00042}$	σ_8	0.8186	$0.820^{+0.027}_{-0.027}$	$D_M(0.15)$	625.3	625^{+22}_{-21}
$\Omega_c h^2$	0.1222	$0.1226^{+0.0075}_{-0.0069}$	S_8	0.8214	$0.823^{+0.033}_{-0.034}$	$H(0.38)$	84.78	$84.9^{+2.6}_{-2.6}$
$100\theta_{MC}$	1.04071	$1.0407^{+0.0010}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	0.4499	$0.451^{+0.018}_{-0.019}$	$D_M(0.38)$	1493.5	1492^{+50}_{-49}
τ	0.0569	$0.058^{+0.022}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	0.6069	$0.608^{+0.021}_{-0.021}$	$H(0.51)$	91.51	$91.6^{+2.7}_{-2.7}$
N_{eff}	3.276	$3.29^{+0.42}_{-0.39}$	$\sigma_8/h^{0.5}$	0.9825	$0.984^{+0.027}_{-0.027}$	$D_M(0.51)$	1936	1935^{+64}_{-62}
$\ln(10^{10} A_s)$	3.0556	$3.058^{+0.046}_{-0.045}$	$r_{\text{drag}} h$	100.69	$100.7^{+2.0}_{-2.0}$	$H(0.61)$	97.15	$97.2^{+2.8}_{-2.8}$
n_s	0.9764	$0.977^{+0.016}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	2.417	$2.420^{+0.064}_{-0.061}$	$D_M(0.61)$	2254	2253^{+73}_{-71}
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0063}$	z_{re}	7.95	$8.0^{+2.1}_{-2.2}$	$H(2.33)$	239.0	$239.3^{+6.2}_{-6.0}$
A_{217}^{CIB}	50.2	48^{+20}_{-20}	$10^9 A_s$	2.123	$2.13^{+0.10}_{-0.095}$	$D_M(2.33)$	5659	5654^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.11	—	$10^9 A_s e^{-2\tau}$	1.8948	$1.896^{+0.041}_{-0.040}$	$f\sigma_8(0.15)$	0.4553	$0.456^{+0.018}_{-0.018}$
A_{143}^{tSZ}	7.4	—	D_{40}	1215.1	1216^{+33}_{-32}	$\sigma_8(0.15)$	0.7574	$0.759^{+0.025}_{-0.025}$
A_{100}^{PS}	256	263^{+70}_{-70}	D_{220}	5740	5739^{+100}_{-98}	$f\sigma_8(0.38)$	0.4759	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	45.0	48^{+20}_{-20}	D_{810}	2543.1	2543^{+35}_{-35}	$\sigma_8(0.38)$	0.6724	$0.674^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	40.4	42^{+20}_{-20}	D_{1420}	817.6	817^{+13}_{-12}	$f\sigma_8(0.51)$	0.4756	$0.477^{+0.016}_{-0.016}$
A_{217}^{PS}	116.3	114^{+30}_{-30}	D_{2000}	230.29	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.51)$	0.6297	$0.631^{+0.022}_{-0.021}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9764	$0.977^{+0.016}_{-0.015}$	$f\sigma_8(0.61)$	0.4714	$0.472^{+0.016}_{-0.016}$
A_{100}^{dustTT}	8.91	$9.1^{+4.6}_{-4.8}$	Y_{P}	0.2485	$0.2487^{+0.0053}_{-0.0052}$	$\sigma_8(0.61)$	0.5994	$0.600^{+0.021}_{-0.021}$
A_{143}^{dustTT}	11.15	$11.1^{+4.5}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.2499	$0.2501^{+0.0054}_{-0.0052}$	$f\sigma_8(2.33)$	0.3026	$0.303^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$18.8^{+8.6}_{-8.4}$	$10^5 D/H$	2.613	$2.62^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	0.3124	$0.313^{+0.011}_{-0.011}$
A_{217}^{dustTT}	94.3	94^{+20}_{-20}	Age/Gyr	13.551	$13.54^{+0.38}_{-0.38}$	f_{2000}^{143}	30.3	31^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.115^{+0.098}_{-0.093}$	z_*	1089.98	$1090.03^{+0.92}_{-0.86}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-6}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.078}_{-0.077}$	r_*	142.53	$142.4^{+3.8}_{-3.9}$	f_{2000}^{217}	107.66	$107.9^{+4.8}_{-5.1}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04072	$1.0407^{+0.0012}_{-0.0012}$	χ_{small}^2	396.4	$397.6 (\nu: 2.7)$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.695	$13.68^{+0.36}_{-0.36}$	χ_{lowl}^2	21.97	$22.06 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.92	$1060.9^{+1.5}_{-1.5}$	χ_{plik}^2	2349.6	$2364.7 (\nu: 22.1)$
A_{217}^{dustTE}	2.07	$2.08^{+0.69}_{-0.68}$	r_{drag}	145.07	$144.9^{+3.9}_{-4.0}$	χ_{H073p45}^2	5.9	$6.1 (\nu: 3.9)$
c_{100}	0.99968	$0.9997^{+0.0015}_{-0.0016}$	k_{D}	0.14237	$0.1425^{+0.0030}_{-0.0029}$	χ_{JLA}^2	1034.755	$1034.83 (\nu: 0.0)$
c_{217}	0.99821	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16113	$0.16118^{+0.00099}_{-0.00094}$	$\chi_{6\text{DF}}^2$	0.002	$0.025 (\nu: 0.0)$
H_0	69.41	$69.5^{+2.5}_{-2.5}$	z_{eq}	3358	3359^{+57}_{-57}	χ_{MGS}^2	1.82	$1.86 (\nu: 0.1)$
Ω_{Λ}	0.6979	$0.698^{+0.015}_{-0.015}$	k_{eq}	0.010407	$0.01042^{+0.00030}_{-0.00028}$	χ_{DR12BAO}^2	3.46	$3.85 (\nu: 0.2)$
Ω_{m}	0.3021	$0.302^{+0.015}_{-0.015}$	$100\theta_{\text{eq}}$	0.8220	$0.822^{+0.011}_{-0.011}$	χ_{prior}^2	2.1	$11.9 (\nu: 10.9)$
$\Omega_{\text{m}} h^2$	0.1455	$0.1459^{+0.0077}_{-0.0071}$	$100\theta_{\text{s,eq}}$	0.4537	$0.4536^{+0.0056}_{-0.0055}$	χ_{BAO}^2	5.28	$5.73 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	0.1010	$0.1013^{+0.0086}_{-0.0077}$	$H(0.15)$	74.67	$74.7^{+2.5}_{-2.4}$	χ_{CMB}^2	2768.0	$2784.3 (\nu: 20.1)$

Best-fit $\chi_{\text{eff}}^2 = 3816.05$; $\bar{\chi}_{\text{eff}}^2 = 3842.86$; $R - 1 = 0.00994$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.46 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.44 commander_dx12_v3_2_29: 21.97 plik_rd12_HM_v22b_TTTEEE: 2349.59 Hubble - H073p45: 5.93 SN - JLA Pantheon18: 1034.76

7.87 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022643	$0.02265^{+0.00047}_{-0.00048}$	$\Omega_{\mathrm{m}}h^3$	0.1003	$0.1011^{+0.0086}_{-0.0082}$	$100\theta_{\mathrm{s,eq}}$	0.4534	$0.4536^{+0.0074}_{-0.0074}$
$\Omega_{\mathrm{c}}h^2$	0.1217	$0.1223^{+0.0071}_{-0.0066}$	σ_8	0.8189	$0.820^{+0.024}_{-0.024}$	$H(0.15)$	74.44	$74.7^{+3.0}_{-2.9}$
$100\theta_{\mathrm{MC}}$	1.04074	$1.0407^{+0.0010}_{-0.00097}$	S_8	0.8229	$0.823^{+0.032}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	627.2	625^{+27}_{-25}
τ	0.0587	$0.059^{+0.022}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4507	$0.451^{+0.018}_{-0.018}$	$H(0.38)$	84.55	$84.8^{+3.0}_{-2.9}$
N_{eff}	3.241	$3.28^{+0.42}_{-0.41}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6075	$0.608^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1498	1494^{+59}_{-57}
$\ln(10^{10}A_{\mathrm{s}})$	3.0583	$3.059^{+0.043}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9846	$0.985^{+0.023}_{-0.023}$	$H(0.51)$	91.27	$91.5^{+3.0}_{-2.9}$
n_{s}	0.9759	$0.976^{+0.018}_{-0.018}$	$r_{\mathrm{drag}}h$	100.58	$100.7^{+2.7}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1942	1937^{+73}_{-72}
y_{cal}	1.0007	$1.0009^{+0.0066}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.423	$2.423^{+0.058}_{-0.058}$	$H(0.61)$	96.90	$97.2^{+3.0}_{-2.9}$
A_{217}^{CIB}	46.5	48^{+20}_{-20}	z_{re}	8.12	$8.1^{+2.0}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2261	2255^{+83}_{-82}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.53	—	$10^9 A_{\mathrm{s}}$	2.129	$2.131^{+0.094}_{-0.085}$	$H(2.33)$	238.6	$239.1^{+6.0}_{-5.9}$
A_{143}^{tSZ}	7.3	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8931	$1.895^{+0.039}_{-0.038}$	$D_{\mathrm{M}}(2.33)$	5673	5659^{+170}_{-170}
A_{100}^{PS}	251	263^{+70}_{-70}	D_{40}	1215.9	1217^{+35}_{-34}	$f\sigma_8(0.15)$	0.4560	$0.456^{+0.017}_{-0.017}$
A_{143}^{PS}	50.5	47^{+20}_{-20}	D_{220}	5740	5743^{+100}_{-97}	$\sigma_8(0.15)$	0.7576	$0.759^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	51.3	42^{+20}_{-20}	D_{810}	2543.9	2543^{+35}_{-34}	$f\sigma_8(0.38)$	0.4765	$0.477^{+0.015}_{-0.015}$
A_{217}^{PS}	121.6	114^{+20}_{-30}	D_{1420}	818.5	817^{+13}_{-12}	$\sigma_8(0.38)$	0.6725	$0.674^{+0.022}_{-0.021}$
A^{kSZ}	0.0	—	D_{2000}	230.81	$230.2^{+4.8}_{-4.5}$	$f\sigma_8(0.51)$	0.4761	$0.477^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	9.03	$9.0^{+4.6}_{-4.8}$	$n_{\mathrm{s},0.002}$	0.9759	$0.976^{+0.018}_{-0.018}$	$\sigma_8(0.51)$	0.6297	$0.631^{+0.021}_{-0.020}$
$A_{143}^{\mathrm{dustTT}}$	11.37	$11.0^{+4.5}_{-4.5}$	Y_{P}	0.2481	$0.2485^{+0.0054}_{-0.0055}$	$f\sigma_8(0.61)$	0.4718	$0.472^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	20.9	$18.8^{+8.5}_{-8.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2494	$0.2499^{+0.0055}_{-0.0055}$	$\sigma_8(0.61)$	0.5994	$0.601^{+0.020}_{-0.020}$
$A_{217}^{\mathrm{dustTT}}$	96.8	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	2.603	$2.61^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	0.3026	$0.303^{+0.011}_{-0.010}$
$A_{100}^{\mathrm{dustTE}}$	0.114	$0.115^{+0.096}_{-0.093}$	$\mathrm{Age}/\mathrm{Gyr}$	13.584	$13.55^{+0.41}_{-0.39}$	$\sigma_8(2.33)$	0.3123	$0.313^{+0.011}_{-0.011}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	0.134	$0.135^{+0.078}_{-0.077}$	z_*	1089.91	$1089.99^{+0.88}_{-0.85}$	f_{2000}^{143}	29.6	31^{+8}_{-8}
$A_{100 \times 217}^{\mathrm{dustTE}}$	0.482	$0.48^{+0.22}_{-0.21}$	r_*	142.83	$142.5^{+3.9}_{-3.7}$	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	0.223	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04078	$1.0407^{+0.0012}_{-0.0012}$	f_{2000}^{217}	107.19	$107.8^{+4.8}_{-5.0}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.724	$13.69^{+0.36}_{-0.35}$	$\chi_{\mathrm{lensing}}^2$	9.02	$9.54 (\nu: 0.3)$
$A_{217}^{\mathrm{dustTE}}$	2.07	$2.08^{+0.69}_{-0.67}$	z_{drag}	1060.85	$1060.9^{+1.6}_{-1.7}$	χ_{small}^2	396.9	$397.8 (\nu: 2.8)$
c_{100}	0.99973	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	145.38	$145.1^{+4.0}_{-3.9}$	χ_{lowl}^2	22.04	$22.16 (\nu: 0.4)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14215	$0.1424^{+0.0030}_{-0.0030}$	χ_{plik}^2	2348.8	$2364.2 (\nu: 22.5)$
H_0	69.18	$69.4^{+3.0}_{-3.0}$	$100\theta_{\mathrm{D}}$	0.16103	$0.16114^{+0.00096}_{-0.00091}$	$\chi_{\mathrm{H073p45}}^2$	6.6	$6.4 (\nu: 5.8)$
Ω_{Λ}	0.6970	$0.698^{+0.020}_{-0.021}$	z_{eq}	3362	3359^{+76}_{-74}	χ_{prior}^2	1.9	$11.8 (\nu: 11.1)$
Ω_{m}	0.3030	$0.302^{+0.021}_{-0.020}$	k_{eq}	0.010394	$0.01041^{+0.00028}_{-0.00028}$	χ_{CMB}^2	2776.8	$2793.7 (\nu: 22.6)$
$\Omega_{\mathrm{m}}h^2$	0.1450	$0.1456^{+0.0073}_{-0.0068}$	$100\theta_{\mathrm{eq}}$	0.8214	$0.822^{+0.015}_{-0.015}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 2785.24$; $\bar{\chi}_{\mathrm{eff}}^2 = 2811.92$; $R - 1 = 0.01134$
 χ_{eff}^2 : CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 9.02 small_100x143_offlike5_EE_Aplanck_B: 396.87 commander_dx12_v3.2.29: 22.04 plik_rd12_HM_v22b_TTTEEE: 2348.83 Hubble - H073p45: 6.61

7.88 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022622	$0.02264^{+0.00043}_{-0.00042}$	σ_8	0.8183	$0.820^{+0.024}_{-0.024}$	$D_M(0.15)$	628.1	626^{+23}_{-21}
$\Omega_c h^2$	0.1217	$0.1223^{+0.0071}_{-0.0066}$	S_8	0.8236	$0.824^{+0.028}_{-0.028}$	$H(0.38)$	84.46	$84.7^{+2.6}_{-2.6}$
$100\theta_{MC}$	1.04073	$1.0407^{+0.0010}_{-0.00097}$	$\sigma_8 \Omega_m^{0.5}$	0.4511	$0.451^{+0.016}_{-0.015}$	$D_M(0.38)$	1500	1495^{+51}_{-48}
τ	0.0577	$0.058^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6075	$0.608^{+0.018}_{-0.018}$	$H(0.51)$	91.19	$91.5^{+2.7}_{-2.7}$
N_{eff}	3.234	$3.27^{+0.40}_{-0.39}$	$\sigma_8/h^{0.5}$	0.9845	$0.985^{+0.022}_{-0.022}$	$D_M(0.51)$	1944	1938^{+65}_{-61}
$\ln(10^{10} A_s)$	3.0565	$3.059^{+0.041}_{-0.039}$	$r_{\text{drag}} h$	100.46	$100.6^{+2.0}_{-1.9}$	$H(0.61)$	96.82	$97.1^{+2.8}_{-2.7}$
n_s	0.9751	$0.976^{+0.015}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	2.424	$2.424^{+0.054}_{-0.052}$	$D_M(0.61)$	2263	2256^{+75}_{-69}
y_{cal}	1.0009	$1.0008^{+0.0064}_{-0.0062}$	z_{re}	8.02	$8.1^{+1.9}_{-1.9}$	$H(2.33)$	238.6	$239.0^{+6.0}_{-5.7}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	$10^9 A_s$	2.125	$2.130^{+0.089}_{-0.082}$	$D_M(2.33)$	5677	5663^{+160}_{-150}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.28	—	$10^9 A_s e^{-2\tau}$	1.8937	$1.895^{+0.038}_{-0.038}$	$f\sigma_8(0.15)$	0.4563	$0.457^{+0.015}_{-0.015}$
A_{143}^{tSZ}	7.3	—	D_{40}	1217.5	1218^{+33}_{-32}	$\sigma_8(0.15)$	0.7569	$0.759^{+0.023}_{-0.022}$
A_{100}^{PS}	254	263^{+70}_{-70}	D_{220}	5742	5742^{+100}_{-96}	$f\sigma_8(0.38)$	0.4765	$0.477^{+0.014}_{-0.014}$
A_{143}^{PS}	46.9	47^{+20}_{-20}	D_{810}	2544.4	2543^{+35}_{-34}	$\sigma_8(0.38)$	0.6718	$0.673^{+0.021}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	44.6	42^{+20}_{-20}	D_{1420}	818.5	817^{+13}_{-12}	$f\sigma_8(0.51)$	0.4760	$0.477^{+0.014}_{-0.014}$
A_{217}^{PS}	118.0	114^{+20}_{-30}	D_{2000}	230.78	$230.2^{+4.7}_{-4.5}$	$\sigma_8(0.51)$	0.6290	$0.631^{+0.020}_{-0.020}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9751	$0.976^{+0.015}_{-0.015}$	$f\sigma_8(0.61)$	0.4716	$0.472^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.93	$9.0^{+4.6}_{-4.8}$	Y_P	0.2480	$0.2485^{+0.0052}_{-0.0053}$	$\sigma_8(0.61)$	0.5987	$0.600^{+0.019}_{-0.019}$
A_{143}^{dustTT}	11.10	$11.0^{+4.5}_{-4.5}$	Y_P^{BBN}	0.2493	$0.2498^{+0.0052}_{-0.0053}$	$f\sigma_8(2.33)$	0.3022	$0.3030^{+0.0096}_{-0.0097}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.8^{+8.5}_{-8.3}$	$10^5 D/H$	2.604	$2.61^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	0.3119	$0.313^{+0.010}_{-0.010}$
A_{217}^{dustTT}	94.8	94^{+20}_{-20}	Age/Gyr	13.593	$13.56^{+0.38}_{-0.37}$	f_{2000}^{143}	29.8	31^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.115^{+0.096}_{-0.093}$	z_*	1089.94	$1090.00^{+0.86}_{-0.83}$	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.077}_{-0.077}$	r_*	142.88	$142.6^{+3.7}_{-3.7}$	f_{2000}^{217}	107.31	$107.8^{+4.8}_{-5.1}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04077	$1.0407^{+0.0012}_{-0.0012}$	χ_{lensing}^2	9.02	$9.48 (\nu: 0.2)$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	13.728	$13.70^{+0.35}_{-0.34}$	χ_{small}^2	396.6	$397.7 (\nu: 2.5)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.77	$1060.9^{+1.5}_{-1.5}$	χ_{lowl}^2	22.11	$22.20 (\nu: 0.3)$
A_{217}^{dustTE}	2.07	$2.08^{+0.69}_{-0.68}$	r_{drag}	145.44	$145.1^{+3.8}_{-3.8}$	χ_{plik}^2	2348.4	$2363.8 (\nu: 21.1)$
c_{100}	0.99969	$0.9997^{+0.0015}_{-0.0016}$	k_D	0.14211	$0.1423^{+0.0030}_{-0.0028}$	χ_{H073p45}^2	6.9	$6.5 (\nu: 4.3)$
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16103	$0.16113^{+0.00096}_{-0.00090}$	$\chi_{6\text{DF}}^2$	0.000	$0.024 (\nu: 0.0)$
H_0	69.08	$69.3^{+2.5}_{-2.5}$	z_{eq}	3365	3361^{+57}_{-55}	χ_{MGS}^2	1.68	$1.81 (\nu: 0.1)$
Ω_Λ	0.6961	$0.697^{+0.015}_{-0.016}$	k_{eq}	0.010398	$0.01041^{+0.00027}_{-0.00026}$	χ_{DR12BAO}^2	3.57	$3.88 (\nu: 0.2)$
Ω_m	0.3039	$0.303^{+0.016}_{-0.015}$	$100\theta_{\text{eq}}$	0.8208	$0.821^{+0.011}_{-0.011}$	χ_{prior}^2	2.0	$11.8 (\nu: 10.9)$
$\Omega_m h^2$	0.1450	$0.1456^{+0.0074}_{-0.0067}$	$100\theta_{s,\text{eq}}$	0.4531	$0.4534^{+0.0054}_{-0.0055}$	χ_{CMB}^2	2776.2	$2793.1 (\nu: 20.7)$
$\Omega_m h^3$	0.1002	$0.1009^{+0.0082}_{-0.0076}$	$H(0.15)$	74.35	$74.6^{+2.5}_{-2.5}$	χ_{BAO}^2	5.25	$5.71 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 2790.37$; $\bar{\chi}_{\text{eff}}^2 = 2817.17$; $R - 1 = 0.01178$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.57 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 9.02 small_100x143.offlike5_EE_Aplanck_B: 396.62 commander_dx12.v3.2.29: 22.11 plik_rd12_HM_v22b_TTTEEE: 2348.44 Hubble - H073p45: 6.95

7.89 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022634	$0.02264^{+0.00042}_{-0.00041}$	S_8	0.8219	$0.824^{+0.028}_{-0.028}$	$D_M(0.38)$	1498.1	1495^{+51}_{-47}
$\Omega_c h^2$	0.1217	$0.1223^{+0.0072}_{-0.0066}$	$\sigma_8 \Omega_m^{0.5}$	0.4501	$0.451^{+0.015}_{-0.015}$	$H(0.51)$	91.26	$91.5^{+2.6}_{-2.7}$
$100\theta_{MC}$	1.04076	$1.0407^{+0.0010}_{-0.00097}$	$\sigma_8 \Omega_m^{0.25}$	0.6067	$0.608^{+0.018}_{-0.018}$	$D_M(0.51)$	1942	1937^{+65}_{-60}
τ	0.0576	$0.059^{+0.021}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9832	$0.985^{+0.022}_{-0.022}$	$H(0.61)$	96.90	$97.1^{+2.7}_{-2.7}$
N_{eff}	3.240	$3.27^{+0.40}_{-0.38}$	$r_{\text{drag}} h$	100.58	$100.6^{+1.9}_{-1.9}$	$D_M(0.61)$	2261	2256^{+73}_{-68}
$\ln(10^{10} A_s)$	3.0557	$3.059^{+0.041}_{-0.039}$	$\langle d^2 \rangle^{1/2}$	2.421	$2.424^{+0.053}_{-0.052}$	$H(2.33)$	238.6	$239.1^{+6.0}_{-5.8}$
n_s	0.9753	$0.976^{+0.015}_{-0.015}$	z_{re}	8.01	$8.1^{+1.9}_{-1.9}$	$D_M(2.33)$	5673	5661^{+160}_{-150}
y_{cal}	1.0006	$1.0008^{+0.0064}_{-0.0062}$	$10^9 A_s$	2.124	$2.131^{+0.089}_{-0.082}$	$f\sigma_8(0.15)$	0.4554	$0.456^{+0.015}_{-0.015}$
A_{217}^{CIB}	49.8	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8924	$1.895^{+0.038}_{-0.037}$	$\sigma_8(0.15)$	0.7565	$0.759^{+0.023}_{-0.022}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.11	—	D_{40}	1216.6	1217^{+32}_{-32}	$f\sigma_8(0.38)$	0.4759	$0.477^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.4	—	D_{220}	5740	5742^{+100}_{-96}	$\sigma_8(0.38)$	0.6715	$0.673^{+0.021}_{-0.021}$
A_{100}^{PS}	255	263^{+70}_{-70}	D_{810}	2542.5	2543^{+35}_{-34}	$f\sigma_8(0.51)$	0.4755	$0.477^{+0.014}_{-0.014}$
A_{143}^{PS}	44.2	47^{+20}_{-20}	D_{1420}	817.8	817^{+13}_{-12}	$\sigma_8(0.51)$	0.6288	$0.631^{+0.019}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	40	42^{+20}_{-20}	D_{2000}	230.52	$230.2^{+4.7}_{-4.5}$	$f\sigma_8(0.61)$	0.4711	$0.472^{+0.013}_{-0.014}$
A_{217}^{PS}	116.4	114^{+20}_{-30}	$n_{s,0.002}$	0.9753	$0.976^{+0.015}_{-0.015}$	$\sigma_8(0.61)$	0.5986	$0.600^{+0.019}_{-0.019}$
A^{kSZ}	0.0	—	Y_P	0.2481	$0.2485^{+0.0052}_{-0.0051}$	$f\sigma_8(2.33)$	0.3021	$0.3030^{+0.0096}_{-0.0095}$
A_{100}^{dustTT}	8.93	$9.0^{+4.7}_{-4.8}$	Y_P^{BBN}	0.2494	$0.2498^{+0.0052}_{-0.0052}$	$\sigma_8(2.33)$	0.3119	$0.313^{+0.010}_{-0.010}$
A_{143}^{dustTT}	11.09	$11.0^{+4.5}_{-4.5}$	$10^5 D/H$	2.604	$2.61^{+0.11}_{-0.11}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.8^{+8.5}_{-8.3}$	Age/Gyr	13.584	$13.56^{+0.38}_{-0.36}$	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-6}
A_{217}^{dustTT}	94.3	94^{+20}_{-20}	z_*	1089.93	$1090.00^{+0.87}_{-0.82}$	f_{2000}^{217}	107.43	$107.8^{+4.8}_{-5.1}$
A_{100}^{dustTE}	0.115	$0.115^{+0.096}_{-0.093}$	r_*	142.84	$142.5^{+3.7}_{-3.7}$	χ_{lensing}^2	9.06	$9.48 (\nu: 0.2)$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.077}_{-0.077}$	$100\theta_*$	1.04079	$1.0407^{+0.0012}_{-0.0012}$	χ_{simall}^2	396.6	$397.7 (\nu: 2.6)$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.724	$13.70^{+0.35}_{-0.34}$	χ_{lowl}^2	22.11	$22.17 (\nu: 0.3)$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.13}$	z_{drag}	1060.81	$1060.9^{+1.5}_{-1.5}$	χ_{plik}^2	2348.7	$2363.9 (\nu: 21.1)$
$A_{143 \times 217}^{\text{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	r_{drag}	145.39	$145.1^{+3.8}_{-3.8}$	χ_{H073p45}^2	6.6	$6.4 (\nu: 4.1)$
A_{217}^{dustTE}	2.07	$2.08^{+0.69}_{-0.68}$	k_D	0.14214	$0.1424^{+0.0030}_{-0.0028}$	χ_{JLA}^2	1034.769	$1034.83 (\nu: 0.0)$
c_{100}	0.99970	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	0.16105	$0.16114^{+0.00096}_{-0.00090}$	$\chi_{6\text{DF}}^2$	0.000	$0.023 (\nu: 0.0)$
c_{217}	0.99822	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3362	3360^{+55}_{-53}	χ_{MGS}^2	1.75	$1.83 (\nu: 0.1)$
H_0	69.17	$69.4^{+2.5}_{-2.5}$	k_{eq}	0.010394	$0.01041^{+0.00027}_{-0.00026}$	χ_{DR12BAO}^2	3.50	$3.84 (\nu: 0.2)$
Ω_Λ	0.6970	$0.697^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	0.8213	$0.822^{+0.010}_{-0.010}$	χ_{prior}^2	2.0	$11.8 (\nu: 10.9)$
Ω_m	0.3030	$0.303^{+0.015}_{-0.014}$	$100\theta_{s,\text{eq}}$	0.4534	$0.4535^{+0.0053}_{-0.0052}$	χ_{CMB}^2	2776.5	$2793.2 (\nu: 20.6)$
$\Omega_m h^2$	0.1450	$0.1456^{+0.0074}_{-0.0068}$	$H(0.15)$	74.44	$74.6^{+2.5}_{-2.5}$	χ_{BAO}^2	5.25	$5.69 (\nu: 0.2)$
$\Omega_m h^3$	0.1003	$0.1010^{+0.0082}_{-0.0076}$	$D_M(0.15)$	627.3	626^{+22}_{-21}			
σ_8	0.8177	$0.820^{+0.024}_{-0.024}$	$H(0.38)$	84.54	$84.7^{+2.5}_{-2.6}$			

Best-fit $\chi_{\text{eff}}^2 = 3825.12$; $\bar{\chi}_{\text{eff}}^2 = 3851.93$; $R - 1 = 0.01182$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.50 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 9.06 simall_100x143.offlike5_EE_Aplanck_B: 396.60 comman-
der_dx12.v3.2.29: 22.11 plik_rd12_HM_v22b_TTTEEE: 2348.72 Hubble - H073p45: 6.63 SN - JLA Pantheon18: 1034.77

7.90 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02266^{+0.00049}_{-0.00048}$	$\Omega_{\mathrm{m}}h^3$	$0.1015^{+0.0089}_{-0.0081}$	$100\theta_{\mathrm{s,eq}}$	$0.4540^{+0.0081}_{-0.0078}$
$\Omega_{\mathrm{c}}h^2$	$0.1225^{+0.0075}_{-0.0069}$	σ_8	$0.820^{+0.028}_{-0.026}$	$H(0.15)$	$74.8^{+3.0}_{-2.9}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0010}_{-0.0010}$	S_8	$0.823^{+0.040}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	624^{+26}_{-26}
τ	$0.058^{+0.021}_{-0.016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.022}_{-0.022}$	$H(0.38)$	$84.9^{+3.0}_{-2.9}$
N_{eff}	$3.30^{+0.43}_{-0.40}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1491^{+58}_{-57}
$\ln(10^{10}A_{\mathrm{s}})$	$3.059^{+0.047}_{-0.038}$	$\sigma_8/h^{0.5}$	$0.984^{+0.030}_{-0.030}$	$H(0.51)$	$91.7^{+3.1}_{-2.9}$
n_{s}	$0.977^{+0.018}_{-0.017}$	$r_{\mathrm{drag}}h$	$100.8^{+3.0}_{-2.8}$	$D_{\mathrm{M}}(0.51)$	1933^{+73}_{-72}
y_{cal}	$1.0007^{+0.0066}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.072}_{-0.071}$	$H(0.61)$	$97.3^{+3.1}_{-3.0}$
A_{217}^{CIB}	48^{+20}_{-20}	z_{re}	< 9.94	$D_{\mathrm{M}}(0.61)$	2250^{+83}_{-83}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.13^{+0.10}_{-0.080}$	$H(2.33)$	$239.3^{+6.2}_{-6.0}$
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.896^{+0.042}_{-0.041}$	$D_{\mathrm{M}}(2.33)$	5651^{+170}_{-170}
A_{100}^{PS}	263^{+70}_{-70}	D_{40}	1215^{+37}_{-35}	$f\sigma_8(0.15)$	$0.456^{+0.021}_{-0.021}$
A_{143}^{PS}	48^{+20}_{-20}	D_{220}	5739^{+100}_{-98}	$\sigma_8(0.15)$	$0.759^{+0.025}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{810}	2543^{+36}_{-35}	$f\sigma_8(0.38)$	$0.477^{+0.019}_{-0.018}$
A_{217}^{PS}	114^{+30}_{-30}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.38)$	$0.674^{+0.023}_{-0.022}$
A^{kSZ}	—	D_{2000}	$230.1^{+4.7}_{-4.5}$	$f\sigma_8(0.51)$	$0.477^{+0.017}_{-0.017}$
$A_{100}^{\mathrm{dustTT}}$	$9.1^{+4.6}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.977^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	$0.631^{+0.022}_{-0.021}$
$A_{143}^{\mathrm{dustTT}}$	$11.1^{+4.5}_{-4.6}$	Y_{P}	$0.2488^{+0.0055}_{-0.0054}$	$f\sigma_8(0.61)$	$0.472^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.8^{+8.7}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2502^{+0.0056}_{-0.0055}$	$\sigma_8(0.61)$	$0.601^{+0.021}_{-0.020}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.12}_{-0.11}$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.010}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.097}_{-0.095}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.53^{+0.40}_{-0.40}$	$\sigma_8(2.33)$	$0.313^{+0.012}_{-0.011}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.078}_{-0.077}$	z_*	$1090.02^{+0.92}_{-0.89}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$142.4^{+3.9}_{-3.9}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.0407^{+0.0012}_{-0.0012}$	f_{2000}^{217}	$107.9^{+5.0}_{-5.1}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.68^{+0.36}_{-0.36}$	χ_{simall}^2	$397.6 (\nu: 2.9)$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.69}_{-0.68}$	z_{drag}	$1061.0^{+1.7}_{-1.6}$	χ_{lowl}^2	$22.03 (\nu: 0.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$144.9^{+4.0}_{-4.0}$	χ_{plik}^2	$2365.2 (\nu: 24.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1425^{+0.0031}_{-0.0030}$	$\chi_{\mathrm{H073p45}}^2$	$6.0 (\nu: 5.4)$
H_0	$69.6^{+3.1}_{-3.0}$	$100\theta_{\mathrm{D}}$	$0.16119^{+0.00097}_{-0.00094}$	χ_{prior}^2	$11.9 (\nu: 10.9)$
Ω_{Λ}	$0.698^{+0.022}_{-0.022}$	z_{eq}	3356^{+80}_{-81}	χ_{CMB}^2	$2784.9 (\nu: 22.1)$
Ω_{m}	$0.302^{+0.022}_{-0.022}$	k_{eq}	$0.01041^{+0.00031}_{-0.00030}$		
$\Omega_{\mathrm{m}}h^2$	$0.1459^{+0.0077}_{-0.0071}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.016}_{-0.015}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 2802.74$; $R - 1 = 0.00708$

7.91 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02265^{+0.00043}_{-0.00042}$	σ_8	$0.821^{+0.027}_{-0.027}$	$D_M(0.15)$	625^{+23}_{-21}
$\Omega_c h^2$	$0.1226^{+0.0075}_{-0.0069}$	S_8	$0.824^{+0.033}_{-0.033}$	$H(0.38)$	$84.8^{+2.7}_{-2.6}$
$100\theta_{MC}$	$1.0407^{+0.0010}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.018}_{-0.018}$	$D_M(0.38)$	1493^{+51}_{-49}
τ	$0.058^{+0.020}_{-0.016}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.021}_{-0.021}$	$H(0.51)$	$91.6^{+2.7}_{-2.7}$
N_{eff}	$3.29^{+0.42}_{-0.39}$	$\sigma_8/h^{0.5}$	$0.985^{+0.027}_{-0.026}$	$D_M(0.51)$	1935^{+64}_{-62}
$\ln(10^{10} A_s)$	$3.058^{+0.046}_{-0.038}$	$r_{\text{drag}} h$	$100.6^{+2.1}_{-2.0}$	$H(0.61)$	$97.2^{+2.9}_{-2.8}$
n_s	$0.976^{+0.016}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.064}_{-0.059}$	$D_M(0.61)$	2253^{+73}_{-71}
y_{cal}	$1.0007^{+0.0065}_{-0.0063}$	z_{re}	< 9.91	$H(2.33)$	$239.3^{+6.2}_{-6.0}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s$	$2.130^{+0.099}_{-0.079}$	$D_M(2.33)$	5655^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.896^{+0.041}_{-0.040}$	$f\sigma_8(0.15)$	$0.457^{+0.018}_{-0.018}$
A_{143}^{tSZ}	—	D_{40}	1216^{+34}_{-32}	$\sigma_8(0.15)$	$0.759^{+0.025}_{-0.025}$
A_{100}^{PS}	263^{+70}_{-70}	D_{220}	5738^{+100}_{-97}	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	48^{+20}_{-20}	D_{810}	2543^{+36}_{-35}	$\sigma_8(0.38)$	$0.674^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.51)$	$0.477^{+0.016}_{-0.016}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.51)$	$0.631^{+0.021}_{-0.021}$
A^{kSZ}	—	$n_{s,0.002}$	$0.976^{+0.016}_{-0.015}$	$f\sigma_8(0.61)$	$0.473^{+0.016}_{-0.015}$
A_{100}^{dustTT}	$9.1^{+4.6}_{-4.8}$	Y_{P}	$0.2487^{+0.0054}_{-0.0052}$	$\sigma_8(0.61)$	$0.601^{+0.020}_{-0.020}$
A_{143}^{dustTT}	$11.1^{+4.5}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2500^{+0.0054}_{-0.0053}$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.8^{+8.5}_{-8.4}$	$10^5 \text{D}/\text{H}$	$2.62^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.54^{+0.38}_{-0.38}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.093}$	z_*	$1090.03^{+0.92}_{-0.86}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-6}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$142.4^{+3.8}_{-3.9}$	f_{2000}^{217}	$107.9^{+4.8}_{-5.1}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.0407^{+0.0012}_{-0.0012}$	χ_{simall}^2	$397.6 (\nu: 2.7)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	$13.68^{+0.36}_{-0.36}$	χ_{lowl}^2	$22.09 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.9^{+1.5}_{-1.5}$	χ_{plik}^2	$2364.5 (\nu: 22.1)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.68}$	r_{drag}	$144.9^{+3.9}_{-4.0}$	χ_{H073p45}^2	$6.2 (\nu: 4.1)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	k_{D}	$0.1425^{+0.0030}_{-0.0029}$	$\chi_{6\text{DF}}^2$	$0.027 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	$0.16118^{+0.00099}_{-0.00094}$	χ_{MGS}^2	$1.84 (\nu: 0.1)$
H_0	$69.4^{+2.6}_{-2.5}$	z_{eq}	3360^{+60}_{-59}	χ_{DR12BAO}^2	$3.89 (\nu: 0.2)$
Ω_{Λ}	$0.697^{+0.015}_{-0.016}$	k_{eq}	$0.01042^{+0.00030}_{-0.00029}$	χ_{prior}^2	$11.9 (\nu: 10.9)$
Ω_{m}	$0.303^{+0.016}_{-0.015}$	$100\theta_{\text{eq}}$	$0.822^{+0.011}_{-0.011}$	χ_{BAO}^2	$5.76 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	$0.1459^{+0.0077}_{-0.0071}$	$100\theta_{\text{s,eq}}$	$0.4536^{+0.0058}_{-0.0057}$	χ_{CMB}^2	$2784.2 (\nu: 20.1)$
$\Omega_{\text{m}} h^3$	$0.1013^{+0.0086}_{-0.0078}$	$H(0.15)$	$74.7^{+2.6}_{-2.5}$		

$$\bar{\chi}_{\text{eff}}^2 = 2807.99; R - 1 = 0.00955$$

7.92 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02265^{+0.00042}_{-0.00042}$	σ_8	$0.821^{+0.027}_{-0.027}$	$D_M(0.15)$	625^{+22}_{-21}
$\Omega_c h^2$	$0.1226^{+0.0075}_{-0.0069}$	S_8	$0.824^{+0.033}_{-0.033}$	$H(0.38)$	$84.9^{+2.6}_{-2.6}$
$100\theta_{MC}$	$1.0407^{+0.0010}_{-0.0010}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.018}_{-0.018}$	$D_M(0.38)$	1492^{+50}_{-48}
τ	$0.058^{+0.020}_{-0.016}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.021}_{-0.021}$	$H(0.51)$	$91.6^{+2.7}_{-2.7}$
N_{eff}	$3.29^{+0.42}_{-0.39}$	$\sigma_8/h^{0.5}$	$0.984^{+0.026}_{-0.025}$	$D_M(0.51)$	1934^{+63}_{-61}
$\ln(10^{10} A_s)$	$3.059^{+0.046}_{-0.037}$	$r_{\text{drag}} h$	$100.7^{+2.0}_{-1.9}$	$H(0.61)$	$97.2^{+2.8}_{-2.7}$
n_s	$0.977^{+0.016}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.064}_{-0.058}$	$D_M(0.61)$	2252^{+73}_{-71}
y_{cal}	$1.0007^{+0.0065}_{-0.0063}$	z_{re}	< 9.91	$H(2.33)$	$239.3^{+6.2}_{-6.0}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s$	$2.130^{+0.099}_{-0.078}$	$D_M(2.33)$	5654^{+160}_{-160}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.896^{+0.042}_{-0.040}$	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.018}$
A_{143}^{tSZ}	—	D_{40}	1216^{+33}_{-32}	$\sigma_8(0.15)$	$0.759^{+0.025}_{-0.025}$
A_{100}^{PS}	263^{+70}_{-70}	D_{220}	5739^{+100}_{-97}	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.016}$
A_{143}^{PS}	48^{+20}_{-20}	D_{810}	2543^{+36}_{-35}	$\sigma_8(0.38)$	$0.674^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.51)$	$0.477^{+0.016}_{-0.016}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$230.1^{+4.6}_{-4.5}$	$\sigma_8(0.51)$	$0.631^{+0.021}_{-0.021}$
A^{kSZ}	—	$n_{s,0.002}$	$0.977^{+0.016}_{-0.015}$	$f\sigma_8(0.61)$	$0.473^{+0.016}_{-0.015}$
A_{100}^{dustTT}	$9.1^{+4.6}_{-4.8}$	Y_P	$0.2487^{+0.0054}_{-0.0052}$	$\sigma_8(0.61)$	$0.601^{+0.020}_{-0.020}$
A_{143}^{dustTT}	$11.1^{+4.5}_{-4.5}$	Y_P^{BBN}	$0.2501^{+0.0054}_{-0.0052}$	$f\sigma_8(2.33)$	$0.303^{+0.010}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.8^{+8.5}_{-8.4}$	10^5D/H	$2.62^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.54^{+0.37}_{-0.38}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.093}$	z_*	$1090.03^{+0.91}_{-0.86}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-6}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$142.4^{+3.8}_{-3.9}$	f_{2000}^{217}	$107.9^{+4.8}_{-5.1}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.0407^{+0.0012}_{-0.0012}$	χ_{simall}^2	$397.6 (\nu: 2.7)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	$13.68^{+0.35}_{-0.35}$	χ_{lowl}^2	$22.06 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1061.0^{+1.5}_{-1.5}$	χ_{plik}^2	$2364.6 (\nu: 22.0)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.68}$	r_{drag}	$144.9^{+3.9}_{-4.0}$	χ_{H073p45}^2	$6.1 (\nu: 3.9)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	k_D	$0.1425^{+0.0030}_{-0.0029}$	χ_{JLA}^2	$1034.83 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16118^{+0.00099}_{-0.00093}$	$\chi_{6\text{DF}}^2$	$0.025 (\nu: 0.0)$
H_0	$69.5^{+2.5}_{-2.4}$	z_{eq}	3359^{+57}_{-57}	χ_{MGS}^2	$1.86 (\nu: 0.1)$
Ω_Λ	$0.698^{+0.015}_{-0.015}$	k_{eq}	$0.01042^{+0.00030}_{-0.00028}$	χ_{DR12BAO}^2	$3.85 (\nu: 0.2)$
Ω_m	$0.302^{+0.015}_{-0.015}$	$100\theta_{\text{eq}}$	$0.822^{+0.011}_{-0.011}$	χ_{prior}^2	$11.9 (\nu: 10.9)$
$\Omega_m h^2$	$0.1459^{+0.0077}_{-0.0071}$	$100\theta_{s,\text{eq}}$	$0.4537^{+0.0056}_{-0.0055}$	χ_{BAO}^2	$5.73 (\nu: 0.2)$
$\Omega_m h^3$	$0.1014^{+0.0086}_{-0.0078}$	$H(0.15)$	$74.7^{+2.5}_{-2.5}$	χ_{CMB}^2	$2784.3 (\nu: 20.0)$

$$\bar{\chi}_{\text{eff}}^2 = 3842.74; R - 1 = 0.00993$$

7.93 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02265^{+0.00047}_{-0.00048}$	$\Omega_{\mathrm{m}}h^3$	$0.1011^{+0.0087}_{-0.0081}$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0073}_{-0.0073}$
$\Omega_{\mathrm{c}}h^2$	$0.1223^{+0.0071}_{-0.0066}$	σ_8	$0.820^{+0.024}_{-0.024}$	$H(0.15)$	$74.7^{+3.0}_{-2.9}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0010}_{-0.00097}$	S_8	$0.823^{+0.032}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	625^{+27}_{-25}
τ	$0.059^{+0.020}_{-0.016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.018}_{-0.018}$	$H(0.38)$	$84.8^{+3.0}_{-2.9}$
N_{eff}	$3.28^{+0.42}_{-0.41}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1494^{+59}_{-57}
$\ln(10^{10}A_{\mathrm{s}})$	$3.060^{+0.043}_{-0.036}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$H(0.51)$	$91.5^{+3.0}_{-2.9}$
n_{s}	$0.976^{+0.018}_{-0.017}$	$r_{\mathrm{drag}}h$	$100.7^{+2.7}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1936^{+73}_{-72}
y_{cal}	$1.0008^{+0.0066}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.058}_{-0.058}$	$H(0.61)$	$97.2^{+3.0}_{-3.0}$
A_{217}^{CIB}	48^{+20}_{-20}	z_{re}	< 9.92	$D_{\mathrm{M}}(0.61)$	2254^{+84}_{-82}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.133^{+0.092}_{-0.076}$	$H(2.33)$	$239.1^{+6.0}_{-5.9}$
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.895^{+0.038}_{-0.038}$	$D_{\mathrm{M}}(2.33)$	5659^{+170}_{-170}
A_{100}^{PS}	263^{+70}_{-70}	D_{40}	1217^{+35}_{-34}	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.017}$
A_{143}^{PS}	47^{+20}_{-20}	D_{220}	5742^{+100}_{-97}	$\sigma_8(0.15)$	$0.759^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2543^{+36}_{-34}	$f\sigma_8(0.38)$	$0.477^{+0.014}_{-0.015}$
A_{217}^{PS}	114^{+20}_{-30}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.38)$	$0.674^{+0.021}_{-0.021}$
A^{kSZ}	—	D_{2000}	$230.2^{+4.7}_{-4.5}$	$f\sigma_8(0.51)$	$0.477^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.8}$	$n_{\mathrm{s},0.002}$	$0.976^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	$0.631^{+0.021}_{-0.020}$
$A_{143}^{\mathrm{dustTT}}$	$11.0^{+4.5}_{-4.5}$	Y_{P}	$0.2486^{+0.0054}_{-0.0055}$	$f\sigma_8(0.61)$	$0.472^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.8^{+8.5}_{-8.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2499^{+0.0055}_{-0.0055}$	$\sigma_8(0.61)$	$0.601^{+0.020}_{-0.019}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	$0.303^{+0.010}_{-0.0098}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.096}_{-0.094}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.55^{+0.41}_{-0.40}$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.011}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.078}_{-0.077}$	z_*	$1089.99^{+0.87}_{-0.84}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.21}$	r_*	$142.5^{+3.9}_{-3.8}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.0407^{+0.0012}_{-0.0012}$	f_{2000}^{217}	$107.8^{+4.8}_{-5.0}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.69^{+0.36}_{-0.35}$	$\chi_{\mathrm{lensing}}^2$	$9.53 (\nu: 0.2)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.70}_{-0.68}$	z_{drag}	$1060.9^{+1.6}_{-1.7}$	χ_{simall}^2	$397.8 (\nu: 2.9)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	$145.1^{+4.0}_{-3.9}$	χ_{lowl}^2	$22.16 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1424^{+0.0030}_{-0.0030}$	χ_{plik}^2	$2364.2 (\nu: 22.4)$
H_0	$69.4^{+3.0}_{-3.0}$	$100\theta_{\mathrm{D}}$	$0.16114^{+0.00096}_{-0.00091}$	$\chi_{\mathrm{H073p45}}^2$	$6.4 (\nu: 5.6)$
Ω_{Λ}	$0.698^{+0.020}_{-0.021}$	z_{eq}	3359^{+75}_{-74}	χ_{prior}^2	$11.8 (\nu: 11.0)$
Ω_{m}	$0.302^{+0.021}_{-0.020}$	k_{eq}	$0.01041^{+0.00028}_{-0.00028}$	χ_{CMB}^2	$2793.6 (\nu: 22.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1456^{+0.0073}_{-0.0068}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.015}_{-0.014}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2811.83; R - 1 = 0.01079$$

7.94 base_nnu_plikHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02264^{+0.00042}_{-0.00041}$	S_8	$0.824^{+0.028}_{-0.028}$	$D_M(0.38)$	1494^{+50}_{-48}
$\Omega_c h^2$	$0.1223^{+0.0072}_{-0.0066}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.015}$	$H(0.51)$	$91.5^{+2.6}_{-2.7}$
$100\theta_{MC}$	$1.0407^{+0.0010}_{-0.00097}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.018}_{-0.018}$	$D_M(0.51)$	1937^{+63}_{-60}
τ	$0.059^{+0.019}_{-0.016}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.021}$	$H(0.61)$	$97.1^{+2.8}_{-2.7}$
N_{eff}	$3.28^{+0.40}_{-0.38}$	$r_{\text{drag}} h$	$100.6^{+1.9}_{-1.9}$	$D_M(0.61)$	2255^{+72}_{-68}
$\ln(10^{10} A_s)$	$3.059^{+0.041}_{-0.035}$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.052}_{-0.051}$	$H(2.33)$	$239.1^{+6.0}_{-5.8}$
n_s	$0.976^{+0.015}_{-0.015}$	z_{re}	< 9.82	$D_M(2.33)$	5661^{+160}_{-150}
y_{cal}	$1.0008^{+0.0064}_{-0.0062}$	$10^9 A_s$	$2.132^{+0.088}_{-0.073}$	$f\sigma_8(0.15)$	$0.457^{+0.015}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.895^{+0.038}_{-0.037}$	$\sigma_8(0.15)$	$0.759^{+0.023}_{-0.022}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1217^{+32}_{-31}	$f\sigma_8(0.38)$	$0.477^{+0.014}_{-0.014}$
A_{143}^{tSZ}	—	D_{220}	5742^{+100}_{-96}	$\sigma_8(0.38)$	$0.674^{+0.020}_{-0.020}$
A_{100}^{PS}	263^{+70}_{-70}	D_{810}	2543^{+35}_{-34}	$f\sigma_8(0.51)$	$0.477^{+0.014}_{-0.014}$
A_{143}^{PS}	47^{+20}_{-20}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.51)$	$0.631^{+0.019}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$230.2^{+4.6}_{-4.5}$	$f\sigma_8(0.61)$	$0.472^{+0.013}_{-0.013}$
A_{217}^{PS}	114^{+20}_{-30}	$n_{s,0.002}$	$0.976^{+0.015}_{-0.015}$	$\sigma_8(0.61)$	$0.601^{+0.018}_{-0.018}$
A^{kSZ}	—	Y_P	$0.2485^{+0.0052}_{-0.0052}$	$f\sigma_8(2.33)$	$0.3031^{+0.0095}_{-0.0093}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.8}$	Y_P^{BBN}	$0.2498^{+0.0052}_{-0.0052}$	$\sigma_8(2.33)$	$0.313^{+0.010}_{-0.0099}$
A_{143}^{dustTT}	$11.0^{+4.5}_{-4.5}$	$10^5 D/H$	$2.61^{+0.11}_{-0.11}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.8^{+8.5}_{-8.3}$	Age/Gyr	$13.55^{+0.38}_{-0.36}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1090.00^{+0.86}_{-0.82}$	f_{2000}^{217}	$107.8^{+4.7}_{-5.1}$
A_{100}^{dustTE}	$0.115^{+0.096}_{-0.093}$	r_*	$142.5^{+3.7}_{-3.7}$	χ_{lensing}^2	$9.47 (\nu: 0.2)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.077}$	$100\theta_*$	$1.0407^{+0.0012}_{-0.0012}$	χ_{simall}^2	$397.7 (\nu: 2.6)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.70^{+0.35}_{-0.34}$	χ_{lowl}^2	$22.17 (\nu: 0.3)$
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.13}$	z_{drag}	$1060.9^{+1.5}_{-1.5}$	χ_{plik}^2	$2363.8 (\nu: 21.0)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$145.1^{+3.8}_{-3.8}$	χ_{H073p45}^2	$6.4 (\nu: 4.1)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.68}$	k_D	$0.1424^{+0.0030}_{-0.0028}$	χ_{JLA}^2	$1034.83 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16114^{+0.00096}_{-0.00091}$	$\chi_{6\text{DF}}^2$	$0.023 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3360^{+55}_{-53}	χ_{MGS}^2	$1.83 (\nu: 0.1)$
H_0	$69.4^{+2.5}_{-2.5}$	k_{eq}	$0.01041^{+0.00027}_{-0.00026}$	χ_{DR12BAO}^2	$3.83 (\nu: 0.2)$
Ω_Λ	$0.697^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	$0.822^{+0.010}_{-0.010}$	χ_{prior}^2	$11.8 (\nu: 10.8)$
Ω_m	$0.303^{+0.015}_{-0.014}$	$100\theta_{s,\text{eq}}$	$0.4536^{+0.0053}_{-0.0052}$	χ_{CMB}^2	$2793.1 (\nu: 20.5)$
$\Omega_m h^2$	$0.1456^{+0.0074}_{-0.0068}$	$H(0.15)$	$74.6^{+2.5}_{-2.5}$	χ_{BAO}^2	$5.69 (\nu: 0.2)$
$\Omega_m h^3$	$0.1010^{+0.0082}_{-0.0076}$	$D_M(0.15)$	626^{+22}_{-21}		
σ_8	$0.820^{+0.024}_{-0.024}$	$H(0.38)$	$84.8^{+2.5}_{-2.6}$		

$$\bar{\chi}_{\text{eff}}^2 = 3851.85; R - 1 = 0.01150$$

7.95 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022599	$0.02261^{+0.00046}_{-0.00045} \quad (-0.3\sigma)$	S_8	0.8140	$0.815^{+0.041}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	75.40	$75.5^{+3.1}_{-3.2} \quad (+0.6\sigma)$
$\Omega_c h^2$	0.1230	$0.1231^{+0.0082}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4459	$0.446^{+0.022}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.15)$	618.8	$619^{+28}_{-26} \quad (-0.6\sigma)$
$100\theta_{MC}$	1.04053	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6040	$0.604^{+0.023}_{-0.023} \quad (-0.4\sigma)$	$H(0.38)$	85.47	$85.5^{+3.1}_{-3.2} \quad (+0.5\sigma)$
τ	0.0553	$0.056^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9767	$0.977^{+0.030}_{-0.030} \quad (-0.5\sigma)$	$D_M(0.38)$	1479	$1479^{+63}_{-58} \quad (-0.6\sigma)$
N_{eff}	3.374	$3.38^{+0.46}_{-0.47} \quad (+0.5\sigma)$	$r_{\text{drag}} h$	101.37	$101.4^{+2.8}_{-2.7} \quad (+0.6\sigma)$	$H(0.51)$	92.18	$92.2^{+3.2}_{-3.3} \quad (+0.5\sigma)$
$\ln(10^{10} A_s)$	3.0526	$3.053^{+0.048}_{-0.047} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.399	$2.399^{+0.071}_{-0.072} \quad (-0.7\sigma)$	$D_M(0.51)$	1919	$1918^{+79}_{-73} \quad (-0.6\sigma)$
n_s	0.9799	$0.980^{+0.017}_{-0.019} \quad (+0.5\sigma)$	z_{re}	7.82	$7.8^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	97.81	$97.9^{+3.2}_{-3.3} \quad (+0.5\sigma)$
y_{cal}	1.0006	$1.0005^{+0.0067}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s$	2.117	$2.12^{+0.10}_{-0.097} \quad (-0.2\sigma)$	$D_M(0.61)$	2234	$2233^{+90}_{-83} \quad (-0.6\sigma)$
A_{100}^{PS}	247	$247^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_s e^{-2\tau}$	1.8953	$1.896^{+0.044}_{-0.045} \quad (+0.0\sigma)$	$H(2.33)$	239.8	$239.9^{+6.7}_{-6.8} \quad (+0.3\sigma)$
A_{143}^{PS}	40.2	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{40}	1207.3	$1207^{+36}_{-33} \quad (-0.6\sigma)$	$D_M(2.33)$	5624	$5621^{+190}_{-180} \quad (-0.5\sigma)$
A_{217}^{PS}	98.5	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	5726	$5726^{+100}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4516	$0.452^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{CIB}	45.2	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	2538.5	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7575	$0.758^{+0.027}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{tSZ}	4.90	$< 8.69 \quad (-0.8\sigma)$	D_{1420}	814.4	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	0.4734	$0.474^{+0.019}_{-0.019} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.548	$0.65^{+0.32}_{-0.31}$	D_{2000}	228.6	$228.7^{+5.2}_{-5.2} \quad (-0.8\sigma)$	$\sigma_8(0.38)$	0.6731	$0.674^{+0.024}_{-0.024} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.72	—	$n_{s,0.002}$	0.9799	$0.980^{+0.017}_{-0.019} \quad (+0.5\sigma)$	$f\sigma_8(0.51)$	0.4737	$0.474^{+0.018}_{-0.018} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.00	—	Y_P	0.2498	$0.2499^{+0.0059}_{-0.0063} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	0.6306	$0.631^{+0.023}_{-0.022} \quad (+0.0\sigma)$
A^{kSZ}	3.0	—	Y_P^{BBN}	0.2511	$0.2512^{+0.0059}_{-0.0064} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	0.4699	$0.470^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{100}^{dust}	1.02	$1.02^{+0.50}_{-0.50}$	$10^5 D/H$	2.656	$2.66^{+0.13}_{-0.14} \quad (+0.9\sigma)$	$\sigma_8(0.61)$	0.6004	$0.601^{+0.022}_{-0.021} \quad (+0.0\sigma)$
A_{143}^{dust}	0.980	$0.98^{+0.45}_{-0.45}$	Age/Gyr	13.468	$13.46^{+0.45}_{-0.42} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	0.3033	$0.304^{+0.011}_{-0.011} \quad (+0.1\sigma)$
A_{217}^{dust}	0.960	$0.97^{+0.27}_{-0.26}$	z_*	1090.20	$1090.2^{+1.0}_{-1.0} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	0.3134	$0.314^{+0.012}_{-0.012} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.004	$1.03^{+0.43}_{-0.41}$	r_*	141.92	$141.9^{+4.4}_{-4.1} \quad (-0.3\sigma)$	f_{2000}^{143}	32.3	$32^{+9}_{-8} \quad (+0.4\sigma)$
c_{100}	0.99752	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$100\theta_*$	1.04050	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	f_{2000}^{217}	108.6	$108.4^{+5.6}_{-5.6} \quad (+0.3\sigma)$
c_{217}	1.00146	$1.0013^{+0.0041}_{-0.0040} \quad (+4.9\sigma)$	$D_M(z_*)/\text{Gpc}$	13.639	$13.63^{+0.40}_{-0.38} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	33.9	$34^{+6}_{-6} \quad (+0.4\sigma)$
c_{TE}	0.9988	$0.999^{+0.013}_{-0.013}$	z_{drag}	1060.92	$1061.0^{+1.6}_{-1.7} \quad (-0.0\sigma)$	χ_{small}^2	396.09	$397.2 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{EE}	0.9965	$0.997^{+0.014}_{-0.014}$	r_{drag}	144.47	$144.4^{+4.5}_{-4.2} \quad (-0.3\sigma)$	χ_{lowl}^2	21.47	$21.54 \quad (\nu: 0.3) \quad (-0.5\sigma)$
H_0	70.17	$70.2^{+3.2}_{-3.2} \quad (+0.6\sigma)$	k_D	0.14261	$0.1427^{+0.0032}_{-0.0033} \quad (+0.2\sigma)$	χ_{CamSpec}^2	11505.1	$11520.7 \quad (\nu: 21.9)$
Ω_Λ	0.7030	$0.703^{+0.020}_{-0.021} \quad (+0.6\sigma)$	$100\theta_D$	0.16152	$0.1615^{+0.0011}_{-0.0012} \quad (+0.9\sigma)$	χ_{H073p45}^2	3.9	$4.3 \quad (\nu: 4.5) \quad (-0.5\sigma)$
Ω_m	0.2970	$0.297^{+0.021}_{-0.020} \quad (-0.6\sigma)$	z_{eq}	3332	$3332^{+80}_{-79} \quad (-0.8\sigma)$	χ_{prior}^2	2.4	$7.9 \quad (\nu: 6.2) \quad (-0.9\sigma)$
$\Omega_m h^2$	0.1462	$0.1464^{+0.0083}_{-0.0081} \quad (+0.2\sigma)$	k_{eq}	0.010391	$0.01040^{+0.00033}_{-0.00032} \quad (-0.2\sigma)$	χ_{CMB}^2	11922.6	$11939.4 \quad (\nu: 20.9) \quad (+1373.8\sigma)$
$\Omega_m h^3$	0.1026	$0.1028^{+0.0095}_{-0.0093} \quad (+0.4\sigma)$	$100\theta_{\text{eq}}$	0.8266	$0.827^{+0.016}_{-0.015} \quad (+0.7\sigma)$			
σ_8	0.8182	$0.819^{+0.029}_{-0.028} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	0.4562	$0.4562^{+0.0080}_{-0.0077} \quad (+0.7\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11928.99$; $\Delta\chi_{\text{eff}}^2 = 9152.66$; $\bar{\chi}_{\text{eff}}^2 = 11951.65$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9148.78$; $R - 1 = 0.01475$
 χ_{eff}^2 : CMB - small_100x143_offlike5_EE_Aplanck_B: 396.09 (Δ -0.53) commander_dx12_v3.2.29: 21.47 (Δ -0.46) CamSpec like_10.7HM_1400_unified: 11505.09 Hubble - H073p45: 3.91 (Δ -2.24)

7.96 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02256^{+0.00043}_{-0.00041} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.38)$	$85.2^{+2.9}_{-2.9} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1232^{+0.0084}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.023}_{-0.022} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1485^{+57}_{-53} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0011} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$H(0.51)$	$91.9^{+3.0}_{-3.1} \quad (+0.4\sigma)$
τ	$0.055^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$101.0^{+2.1}_{-2.1} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1926^{+72}_{-67} \quad (-0.4\sigma)$
N_{eff}	$3.35^{+0.45}_{-0.47} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.407^{+0.064}_{-0.064} \quad (-0.6\sigma)$	$H(0.61)$	$97.6^{+3.1}_{-3.2} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.052^{+0.048}_{-0.045} \quad (-0.3\sigma)$	z_{re}	$7.8^{+2.1}_{-2.2} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2243^{+83}_{-76} \quad (-0.4\sigma)$
n_{s}	$0.978^{+0.016}_{-0.017} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.12^{+0.10}_{-0.094} \quad (-0.3\sigma)$	$H(2.33)$	$239.8^{+6.8}_{-6.8} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.896^{+0.044}_{-0.046} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5635^{+180}_{-170} \quad (-0.3\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1210^{+34}_{-33} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5723^{+110}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.758^{+0.026}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.018}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.673^{+0.023}_{-0.024} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.8\sigma)$	D_{2000}	$228.7^{+5.2}_{-5.1} \quad (-0.8\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	$n_{\mathrm{s},0.002}$	$0.978^{+0.016}_{-0.017} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.630^{+0.022}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2495^{+0.0057}_{-0.0062} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2508^{+0.0057}_{-0.0062} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.600^{+0.021}_{-0.022} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.66^{+0.14}_{-0.14} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.011} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.51}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.49^{+0.44}_{-0.40} \quad (-0.3\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.012}_{-0.012} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.44}$	z_*	$1090.2^{+1.1}_{-1.0} \quad (+0.6\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$142.0^{+4.4}_{-4.2} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.65^{+0.41}_{-0.38} \quad (-0.3\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.2\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	z_{drag}	$1060.8^{+1.6}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	$21.73 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	r_{drag}	$144.6^{+4.5}_{-4.3} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.5 \quad (\nu: 20.0)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	k_{D}	$0.1426^{+0.0033}_{-0.0033} \quad (+0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.2 \quad (\nu: 4.1) \quad (-0.4\sigma)$
H_0	$69.8^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0012} \quad (+0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.036 \quad (\nu: 0.0) \quad (+0.2\sigma)$
Ω_{Λ}	$0.700^{+0.016}_{-0.016} \quad (+0.4\sigma)$	z_{eq}	$3344^{+61}_{-61} \quad (-0.7\sigma)$	χ_{MGS}^2	$2.04 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_{m}	$0.300^{+0.016}_{-0.016} \quad (-0.4\sigma)$	k_{eq}	$0.01042^{+0.00032}_{-0.00030} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.84 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1464^{+0.0085}_{-0.0080} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.012}_{-0.012} \quad (+0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1022^{+0.0091}_{-0.0092} \quad (+0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4550^{+0.0060}_{-0.0059} \quad (+0.6\sigma)$	χ_{BAO}^2	$5.92 \quad (\nu: 0.4) \quad (+0.2\sigma)$
σ_8	$0.819^{+0.028}_{-0.029} \quad (-0.1\sigma)$	$H(0.15)$	$75.1^{+2.8}_{-2.8} \quad (+0.4\sigma)$	χ_{CMB}^2	$11938.4 \quad (\nu: 19.5) \quad (+1438.3\sigma)$
S_8	$0.819^{+0.035}_{-0.034} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$622^{+25}_{-23} \quad (-0.4\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.32; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.21; R - 1 = 0.01940$$

7.97 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02256^{+0.00043}_{-0.00040} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$85.2^{+2.9}_{-2.9} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1232^{+0.0083}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.022}_{-0.022} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1485^{+56}_{-52} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0011} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$H(0.51)$	$92.0^{+2.9}_{-3.0} \quad (+0.4\sigma)$
τ	$0.055^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$101.0^{+2.0}_{-2.0} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1926^{+71}_{-66} \quad (-0.4\sigma)$
N_{eff}	$3.36^{+0.44}_{-0.47} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.406^{+0.064}_{-0.064} \quad (-0.6\sigma)$	$H(0.61)$	$97.6^{+3.0}_{-3.2} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.052^{+0.048}_{-0.046} \quad (-0.3\sigma)$	z_{re}	$7.8^{+2.1}_{-2.2} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2242^{+81}_{-76} \quad (-0.4\sigma)$
n_{s}	$0.979^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.12^{+0.10}_{-0.094} \quad (-0.3\sigma)$	$H(2.33)$	$239.8^{+6.8}_{-6.8} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.896^{+0.044}_{-0.046} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5635^{+190}_{-170} \quad (-0.3\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1210^{+34}_{-32} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5723^{+110}_{-95} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.758^{+0.026}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.018}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.673^{+0.023}_{-0.024} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.8\sigma)$	D_{2000}	$228.7^{+5.2}_{-5.1} \quad (-0.8\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	$n_{\mathrm{s},0.002}$	$0.979^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.630^{+0.022}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2495^{+0.0057}_{-0.0062} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2508^{+0.0057}_{-0.0062} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.600^{+0.021}_{-0.022} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.66^{+0.14}_{-0.14} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.011} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.51}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.49^{+0.44}_{-0.39} \quad (-0.3\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.012} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.44}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (+0.7\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$142.0^{+4.4}_{-4.2} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.65^{+0.41}_{-0.38} \quad (-0.3\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.2\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	z_{drag}	$1060.8^{+1.6}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	$21.73 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	r_{drag}	$144.6^{+4.5}_{-4.3} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.6 \quad (\nu: 19.9)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	k_{D}	$0.1426^{+0.0033}_{-0.0033} \quad (+0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.1 \quad (\nu: 4.0) \quad (-0.4\sigma)$
H_0	$69.8^{+2.7}_{-2.7} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0012} \quad (+0.8\sigma)$	χ_{JLA}^2	$1034.81 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.700^{+0.015}_{-0.016} \quad (+0.4\sigma)$	z_{eq}	$3344^{+59}_{-59} \quad (-0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.035 \quad (\nu: 0.0) \quad (+0.3\sigma)$
Ω_{m}	$0.300^{+0.016}_{-0.015} \quad (-0.4\sigma)$	k_{eq}	$0.01041^{+0.00032}_{-0.00030} \quad (-0.0\sigma)$	χ_{MGS}^2	$2.05 \quad (\nu: 0.1) \quad (+0.4\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1464^{+0.0084}_{-0.0080} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.011}_{-0.011} \quad (+0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.81 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1023^{+0.0091}_{-0.0091} \quad (+0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4550^{+0.0058}_{-0.0058} \quad (+0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.9\sigma)$
σ_8	$0.819^{+0.028}_{-0.029} \quad (-0.1\sigma)$	$H(0.15)$	$75.1^{+2.8}_{-2.8} \quad (+0.4\sigma)$	χ_{BAO}^2	$5.90 \quad (\nu: 0.3) \quad (+0.3\sigma)$
S_8	$0.819^{+0.035}_{-0.034} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$622^{+24}_{-23} \quad (-0.4\sigma)$	χ_{CMB}^2	$11938.4 \quad (\nu: 19.4) \quad (+1442.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12992.06; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.20; R - 1 = 0.01918$$

7.98 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02259^{+0.00047}_{-0.00045} \quad (-0.3\sigma)$	S_8	$0.820^{+0.032}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$75.2^{+3.1}_{-3.0} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1231^{+0.0079}_{-0.0076} \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$621^{+27}_{-26} \quad (-0.5\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$H(0.38)$	$85.3^{+3.1}_{-3.1} \quad (+0.5\sigma)$
τ	$0.058^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1483^{+60}_{-57} \quad (-0.5\sigma)$
N_{eff}	$3.36^{+0.46}_{-0.47} \quad (+0.5\sigma)$	$r_{\mathrm{drag}} h$	$101.1^{+2.6}_{-2.5} \quad (+0.4\sigma)$	$H(0.51)$	$92.0^{+3.2}_{-3.1} \quad (+0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.058^{+0.045}_{-0.043} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.411^{+0.058}_{-0.058} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1923^{+76}_{-73} \quad (-0.5\sigma)$
n_{s}	$0.979^{+0.017}_{-0.018} \quad (+0.4\sigma)$	z_{re}	$8.0^{+2.0}_{-2.1} \quad (-0.1\sigma)$	$H(0.61)$	$97.7^{+3.3}_{-3.2} \quad (+0.5\sigma)$
y_{cal}	$1.0008^{+0.0069}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.129^{+0.098}_{-0.089} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2240^{+87}_{-82} \quad (-0.5\sigma)$
A_{100}^{PS}	$247^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.897^{+0.041}_{-0.042} \quad (+0.1\sigma)$	$H(2.33)$	$239.8^{+6.6}_{-6.5} \quad (+0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{40}	$1211^{+33}_{-33} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5631^{+180}_{-180} \quad (-0.4\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5731^{+100}_{-97} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2541^{+38}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.760^{+0.024}_{-0.024} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.8\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.015}_{-0.015} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	D_{2000}	$228.9^{+5.2}_{-5.1} \quad (-0.7\sigma)$	$\sigma_8(0.38)$	$0.675^{+0.022}_{-0.022} \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.979^{+0.017}_{-0.018} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2496^{+0.0059}_{-0.0062} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.632^{+0.021}_{-0.021} \quad (+0.2\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2509^{+0.0059}_{-0.0063} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.65^{+0.13}_{-0.14} \quad (+1.0\sigma)$	$\sigma_8(0.61)$	$0.602^{+0.020}_{-0.020} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.43}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.48^{+0.44}_{-0.42} \quad (-0.4\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.011}_{-0.010} \quad (+0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1090.22^{+0.96}_{-1.0} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.314^{+0.011}_{-0.011} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.44}_{-0.41}$	r_*	$142.0^{+4.2}_{-4.1} \quad (-0.4\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.5\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.3\sigma)$
c_{217}	$1.0013^{+0.0042}_{-0.0039} \quad (+4.9\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.64^{+0.39}_{-0.38} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.4\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	z_{drag}	$1060.9^{+1.6}_{-1.7} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.92 \quad (\nu: 0.5) \quad (+0.5\sigma)$
c_{EE}	$0.996^{+0.014}_{-0.014}$	r_{drag}	$144.5^{+4.4}_{-4.2} \quad (-0.4\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.3) \quad (-0.1\sigma)$
H_0	$70.0^{+3.1}_{-3.0} \quad (+0.5\sigma)$	k_{D}	$0.1426^{+0.0032}_{-0.0032} \quad (+0.2\sigma)$	χ_{lowl}^2	$21.79 \quad (\nu: 0.3) \quad (-0.4\sigma)$
Ω_{Λ}	$0.701^{+0.019}_{-0.020} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0011} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.4 \quad (\nu: 20.4)$
Ω_{m}	$0.299^{+0.020}_{-0.019} \quad (-0.4\sigma)$	z_{eq}	$3341^{+73}_{-74} \quad (-0.7\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.0 \quad (\nu: 5.0) \quad (-0.4\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1463^{+0.0081}_{-0.0078} \quad (+0.3\sigma)$	k_{eq}	$0.01041^{+0.00031}_{-0.00029} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.3) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1024^{+0.0093}_{-0.0092} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.015}_{-0.014} \quad (+0.6\sigma)$	χ_{CMB}^2	$11948.6 \quad (\nu: 21.5) \quad (+1362.4\sigma)$
σ_8	$0.821^{+0.025}_{-0.025} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4553^{+0.0075}_{-0.0070} \quad (+0.6\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11961.40; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.48; R - 1 = 0.02109$$

7.99 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02255^{+0.00043}_{-0.00042} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.016} \quad (-0.2\sigma)$	$H(0.38)$	$85.1^{+2.9}_{-2.8} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1230^{+0.0079}_{-0.0077} \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.018}_{-0.018} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1488^{+55}_{-53} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	$91.8^{+3.0}_{-3.0} \quad (+0.4\sigma)$
τ	$0.057^{+0.021}_{-0.019} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1929^{+69}_{-67} \quad (-0.4\sigma)$
N_{eff}	$3.34^{+0.45}_{-0.45} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.415^{+0.053}_{-0.052} \quad (-0.5\sigma)$	$H(0.61)$	$97.5^{+3.0}_{-3.0} \quad (+0.4\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.056^{+0.042}_{-0.040} \quad (-0.2\sigma)$	z_{re}	$8.0^{+2.0}_{-2.0} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2246^{+80}_{-77} \quad (-0.4\sigma)$
n_{s}	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.125^{+0.091}_{-0.084} \quad (-0.2\sigma)$	$H(2.33)$	$239.7^{+6.6}_{-6.6} \quad (+0.3\sigma)$
y_{cal}	$1.0007^{+0.0068}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.897^{+0.041}_{-0.042} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5642^{+180}_{-170} \quad (-0.3\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1213^{+32}_{-31} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.015} \quad (-0.2\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5729^{+100}_{-96} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.759^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2540^{+37}_{-33} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.021}_{-0.021} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.8\sigma)$	D_{2000}	$229.0^{+5.3}_{-5.2} \quad (-0.7\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	$n_{\mathrm{s},0.002}$	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.631^{+0.020}_{-0.020} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2493^{+0.0057}_{-0.0060} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2506^{+0.0058}_{-0.0060} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.601^{+0.019}_{-0.019} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.65^{+0.13}_{-0.13} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.010}_{-0.0098} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.51^{+0.43}_{-0.40} \quad (-0.3\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.011} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	z_*	$1090.23^{+0.97}_{-1.0} \quad (+0.7\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$142.1^{+4.2}_{-4.0} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.2^{+5.6}_{-5.5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.44}_{-0.41}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.66^{+0.40}_{-0.38} \quad (-0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.80 \quad (\nu: 0.3) \quad (+0.5\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	z_{drag}	$1060.8^{+1.5}_{-1.6} \quad (-0.1\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.8) \quad (-0.2\sigma)$
c_{TE}	$0.998^{+0.012}_{-0.013}$	r_{drag}	$144.7^{+4.3}_{-4.2} \quad (-0.3\sigma)$	χ_{lowl}^2	$21.90 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	k_{D}	$0.1425^{+0.0032}_{-0.0031} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11518.7 \quad (\nu: 19.3)$
H_0	$69.7^{+2.8}_{-2.7} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1614^{+0.0011}_{-0.0011} \quad (+0.9\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.5 \quad (\nu: 4.3) \quad (-0.3\sigma)$
Ω_{Λ}	$0.699^{+0.015}_{-0.015} \quad (+0.3\sigma)$	z_{eq}	$3348^{+59}_{-57} \quad (-0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.030 \quad (\nu: 0.0) \quad (+0.2\sigma)$
Ω_{m}	$0.301^{+0.015}_{-0.015} \quad (-0.3\sigma)$	k_{eq}	$0.01042^{+0.00030}_{-0.00029} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.96 \quad (\nu: 0.1) \quad (+0.3\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1462^{+0.0081}_{-0.0079} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.011}_{-0.011} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.81 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1019^{+0.0091}_{-0.0088} \quad (+0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4546^{+0.0057}_{-0.0056} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (-0.9\sigma)$
σ_8	$0.820^{+0.025}_{-0.025} \quad (+0.0\sigma)$	$H(0.15)$	$75.0^{+2.8}_{-2.7} \quad (+0.4\sigma)$	χ_{CMB}^2	$11947.7 \quad (\nu: 19.8) \quad (+1423.1\sigma)$
S_8	$0.822^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$623^{+24}_{-23} \quad (-0.4\sigma)$	χ_{BAO}^2	$5.80 \quad (\nu: 0.3) \quad (+0.2\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11966.84; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.67; R - 1 = 0.02276$$

7.100 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022562	$0.02256^{+0.00043}_{-0.00040} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6075	$0.608^{+0.018}_{-0.018} \quad (-0.1\sigma)$	$H(0.51)$	91.85	$91.8^{+2.9}_{-2.9} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.1232	$0.1231^{+0.0079}_{-0.0077} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9821	$0.983^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	1928	$1929^{+69}_{-66} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	1.04053	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	100.81	$100.8^{+1.9}_{-1.9} \quad (+0.3\sigma)$	$H(0.61)$	97.50	$97.5^{+3.0}_{-3.0} \quad (+0.3\sigma)$
τ	0.0560	$0.057^{+0.021}_{-0.019} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.413	$2.415^{+0.053}_{-0.051} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	2245	$2246^{+79}_{-75} \quad (-0.4\sigma)$
N_{eff}	3.343	$3.34^{+0.45}_{-0.45} \quad (+0.4\sigma)$	z_{re}	7.90	$8.0^{+1.9}_{-2.0} \quad (-0.2\sigma)$	$H(2.33)$	239.8	$239.7^{+6.6}_{-6.5} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0548	$3.056^{+0.042}_{-0.040} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	2.122	$2.125^{+0.091}_{-0.084} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5639	$5641^{+180}_{-170} \quad (-0.3\sigma)$
n_{s}	0.9775	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8967	$1.897^{+0.041}_{-0.042} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	0.4555	$0.455^{+0.015}_{-0.015} \quad (-0.2\sigma)$
y_{cal}	1.0006	$1.0007^{+0.0068}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	1212.5	$1213^{+31}_{-31} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7587	$0.759^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{100}^{PS}	246	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{220}	5727	$5729^{+100}_{-96} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4763	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{PS}	40.5	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{810}	2539.4	$2540^{+37}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6737	$0.674^{+0.021}_{-0.021} \quad (+0.1\sigma)$
A_{217}^{PS}	99.2	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	814.6	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4762	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	45.0	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	228.8	$229.0^{+5.3}_{-5.2} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	0.6309	$0.631^{+0.020}_{-0.020} \quad (+0.1\sigma)$
A_{143}^{tSZ}	5.07	$< 8.70 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	0.9775	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	0.4720	$0.472^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.557	$0.65^{+0.32}_{-0.31}$	Y_{P}	0.2494	$0.2493^{+0.0057}_{-0.0060} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	0.6007	$0.601^{+0.019}_{-0.019} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.73	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2507	$0.2506^{+0.0057}_{-0.0060} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.3032	$0.3034^{+0.0099}_{-0.0098} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.02	—	$10^5 \mathrm{D}/\mathrm{H}$	2.652	$2.65^{+0.13}_{-0.14} \quad (+0.9\sigma)$	$\sigma_8(2.33)$	0.3131	$0.313^{+0.011}_{-0.011} \quad (+0.1\sigma)$
A^{kSZ}	2.7	—	Age/Gyr	13.503	$13.51^{+0.43}_{-0.39} \quad (-0.3\sigma)$	f_{2000}^{143}	32.1	$32^{+9}_{-8} \quad (+0.3\sigma)$
A_{100}^{dust}	1.018	$1.01^{+0.51}_{-0.48}$	z_*	1090.24	$1090.23^{+0.96}_{-1.0} \quad (+0.7\sigma)$	f_{2000}^{217}	108.4	$108.2^{+5.6}_{-5.5} \quad (+0.2\sigma)$
A_{143}^{dust}	0.976	$0.96^{+0.44}_{-0.44}$	r_*	142.04	$142.1^{+4.3}_{-4.0} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	33.8	$34^{+6}_{-6} \quad (+0.3\sigma)$
A_{217}^{dust}	0.965	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	1.04052	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	9.46	$9.80 \quad (\nu: 0.3) \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.03^{+0.43}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.651	$13.66^{+0.39}_{-0.37} \quad (-0.3\sigma)$	χ_{small}^2	396.28	$397.3 \quad (\nu: 1.9) \quad (-0.2\sigma)$
c_{100}	0.99758	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	z_{drag}	1060.85	$1060.8^{+1.5}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	21.82	$21.89 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{217}	1.00150	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	r_{drag}	144.61	$144.7^{+4.4}_{-4.2} \quad (-0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11503.8	$11518.7 \quad (\nu: 19.3)$
c_{TE}	0.9983	$0.998^{+0.012}_{-0.013}$	k_{D}	0.14254	$0.1425^{+0.0032}_{-0.0032} \quad (+0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	5.1	$5.5 \quad (\nu: 4.1) \quad (-0.3\sigma)$
c_{EE}	0.9957	$0.996^{+0.013}_{-0.014}$	$100\theta_{\mathrm{D}}$	0.16145	$0.1614^{+0.0011}_{-0.0011} \quad (+0.9\sigma)$	χ_{JLA}^2	1034.745	$1034.81 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	69.71	$69.7^{+2.7}_{-2.6} \quad (+0.4\sigma)$	z_{eq}	3349	$3348^{+57}_{-55} \quad (-0.6\sigma)$	χ_{6DF}^2	0.004	$0.029 \quad (\nu: 0.0) \quad (+0.2\sigma)$
Ω_{Λ}	0.6988	$0.699^{+0.014}_{-0.015} \quad (+0.3\sigma)$	k_{eq}	0.010423	$0.01042^{+0.00030}_{-0.00029} \quad (+0.0\sigma)$	χ_{MGS}^2	1.89	$1.97 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{m}	0.3012	$0.301^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8234	$0.824^{+0.011}_{-0.011} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.43	$3.79 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.1464	$0.1463^{+0.0081}_{-0.0078} \quad (+0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4545	$0.4546^{+0.0055}_{-0.0055} \quad (+0.5\sigma)$	χ_{prior}^2	2.4	$7.8 \quad (\nu: 6.1) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.1020	$0.1020^{+0.0091}_{-0.0088} \quad (+0.3\sigma)$	$H(0.15)$	74.98	$75.0^{+2.7}_{-2.7} \quad (+0.4\sigma)$	χ_{CMB}^2	11931.3	$11947.7 \quad (\nu: 19.7) \quad (+1427.0\sigma)$
σ_8	0.8200	$0.820^{+0.025}_{-0.025} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	622.6	$623^{+24}_{-23} \quad (-0.4\sigma)$	χ_{BAO}^2	5.33	$5.79 \quad (\nu: 0.2) \quad (+0.2\sigma)$
S_8	0.8216	$0.822^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$H(0.38)$	85.11	$85.1^{+2.8}_{-2.8} \quad (+0.4\sigma)$			
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4500	$0.450^{+0.016}_{-0.015} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	1487	$1488^{+55}_{-52} \quad (-0.4\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12978.85$; $\Delta\chi_{\mathrm{eff}}^2 = 9153.73$; $\bar{\chi}_{\mathrm{eff}}^2 = 13001.59$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.66$; $R - 1 = 0.02251$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.89 (Δ 0.14) DR12BAO: 3.43 (Δ -0.07) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.46 (Δ 0.41) small_100x143_offlike5_EE_Aplanck: 396.28 (Δ -0.32) commander_dx12_v3.2_29: 21.82 (Δ -0.29) CamSpec like_10.7HM_1400_unified: 11503.77 Hubble - H073p45: 5.08 (Δ -1.56) SN - JLA Pantheon18: 1034.74 (Δ -0.02)

7.101 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02261^{+0.00046}_{-0.00046} \quad (-0.3\sigma)$	S_8	$0.815^{+0.041}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	$75.5^{+3.1}_{-3.2} \quad (+0.6\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1231^{+0.0081}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.446^{+0.022}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$618^{+28}_{-26} \quad (-0.6\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.023}_{-0.023} \quad (-0.4\sigma)$	$H(0.38)$	$85.6^{+3.1}_{-3.2} \quad (+0.5\sigma)$
τ	$0.056^{+0.020}_{-0.015} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.978^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1478^{+63}_{-58} \quad (-0.6\sigma)$
N_{eff}	$3.38^{+0.46}_{-0.47} \quad (+0.5\sigma)$	$r_{\mathrm{drag}} h$	$101.4^{+2.8}_{-2.7} \quad (+0.6\sigma)$	$H(0.51)$	$92.3^{+3.2}_{-3.3} \quad (+0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.055^{+0.047}_{-0.037} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.401^{+0.070}_{-0.068} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.51)$	$1917^{+79}_{-73} \quad (-0.6\sigma)$
n_{s}	$0.981^{+0.017}_{-0.019} \quad (+0.5\sigma)$	z_{re}	$< 9.74 \quad (-0.2\sigma)$	$H(0.61)$	$97.9^{+3.2}_{-3.3} \quad (+0.5\sigma)$
y_{cal}	$1.0005^{+0.0067}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.12^{+0.10}_{-0.078} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2233^{+90}_{-83} \quad (-0.6\sigma)$
A_{100}^{PS}	$247^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.896^{+0.043}_{-0.045} \quad (+0.0\sigma)$	$H(2.33)$	$239.9^{+6.7}_{-6.8} \quad (+0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{40}	$1207^{+36}_{-33} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5620^{+190}_{-170} \quad (-0.5\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5726^{+100}_{-98} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.759^{+0.026}_{-0.025} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.69 \quad (-0.8\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.019}_{-0.019} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.30}$	D_{2000}	$228.7^{+5.2}_{-5.2} \quad (-0.8\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.024}_{-0.023} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.981^{+0.017}_{-0.019} \quad (+0.5\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.017}_{-0.018} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2499^{+0.0058}_{-0.0063} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.632^{+0.022}_{-0.021} \quad (+0.0\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2512^{+0.0059}_{-0.0063} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.66^{+0.13}_{-0.14} \quad (+0.9\sigma)$	$\sigma_8(0.61)$	$0.601^{+0.022}_{-0.020} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.46^{+0.45}_{-0.41} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.011}_{-0.011} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.314^{+0.012}_{-0.011} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	r_*	$141.8^{+4.3}_{-4.1} \quad (-0.3\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.4\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.4\sigma)$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	f_{2000}^{217}	$108.4^{+5.5}_{-5.7} \quad (+0.3\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0040} \quad (+4.9\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.63^{+0.40}_{-0.38} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.4\sigma)$
c_{TE}	$0.999^{+0.013}_{-0.013}$	z_{drag}	$1061.0^{+1.6}_{-1.7} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.8) \quad (-0.2\sigma)$
c_{EE}	$0.997^{+0.014}_{-0.014}$	r_{drag}	$144.4^{+4.5}_{-4.2} \quad (-0.3\sigma)$	χ_{lowl}^2	$21.54 \quad (\nu: 0.3) \quad (-0.5\sigma)$
H_0	$70.2^{+3.1}_{-3.2} \quad (+0.6\sigma)$	k_{D}	$0.1427^{+0.0032}_{-0.0033} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11520.6 \quad (\nu: 21.8)$
Ω_{Λ}	$0.703^{+0.020}_{-0.021} \quad (+0.6\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0012} \quad (+0.9\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$4.3 \quad (\nu: 4.5) \quad (-0.5\sigma)$
Ω_{m}	$0.297^{+0.021}_{-0.020} \quad (-0.6\sigma)$	z_{eq}	$3332^{+79}_{-79} \quad (-0.8\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.3) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1464^{+0.0082}_{-0.0081} \quad (+0.2\sigma)$	k_{eq}	$0.01040^{+0.00033}_{-0.00032} \quad (-0.2\sigma)$	χ_{CMB}^2	$11939.3 \quad (\nu: 20.6) \quad (+1378.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1029^{+0.0095}_{-0.0093} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.016}_{-0.015} \quad (+0.7\sigma)$		
σ_8	$0.819^{+0.028}_{-0.027} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4563^{+0.0080}_{-0.0077} \quad (+0.8\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11951.46; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9148.72; R - 1 = 0.01420$$

7.102 **base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02256^{+0.00043}_{-0.00041} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.38)$	$85.2^{+2.9}_{-2.9} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1232^{+0.0082}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.022}_{-0.022} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1485^{+57}_{-53} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.027}_{-0.026} \quad (-0.4\sigma)$	$H(0.51)$	$92.0^{+3.0}_{-3.1} \quad (+0.4\sigma)$
τ	$0.056^{+0.020}_{-0.015} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$101.0^{+2.1}_{-2.0} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1926^{+72}_{-67} \quad (-0.4\sigma)$
N_{eff}	$3.35^{+0.45}_{-0.47} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.408^{+0.063}_{-0.059} \quad (-0.6\sigma)$	$H(0.61)$	$97.6^{+3.0}_{-3.2} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.054^{+0.046}_{-0.037} \quad (-0.3\sigma)$	z_{re}	$< 9.65 \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2242^{+83}_{-76} \quad (-0.4\sigma)$
n_{s}	$0.979^{+0.016}_{-0.017} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.12^{+0.10}_{-0.077} \quad (-0.3\sigma)$	$H(2.33)$	$239.8^{+6.8}_{-6.9} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.896^{+0.043}_{-0.046} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5635^{+190}_{-170} \quad (-0.3\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1210^{+34}_{-33} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5723^{+110}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.758^{+0.026}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.023}_{-0.024} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.63 \quad (-0.8\sigma)$	D_{2000}	$228.8^{+5.2}_{-5.1} \quad (-0.7\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.31}$	$n_{\mathrm{s},0.002}$	$0.979^{+0.016}_{-0.017} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.631^{+0.022}_{-0.022} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2495^{+0.0057}_{-0.0063} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.016} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2508^{+0.0057}_{-0.0063} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.601^{+0.021}_{-0.021} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.66^{+0.14}_{-0.14} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.011} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.49^{+0.44}_{-0.39} \quad (-0.3\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.012} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.44}$	z_*	$1090.2^{+1.1}_{-1.1} \quad (+0.6\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$142.0^{+4.5}_{-4.0} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.65^{+0.42}_{-0.37} \quad (-0.3\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.6) \quad (-0.2\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	z_{drag}	$1060.8^{+1.6}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	$21.74 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	r_{drag}	$144.6^{+4.6}_{-4.2} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.4 \quad (\nu: 19.8)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	k_{D}	$0.1426^{+0.0032}_{-0.0033} \quad (+0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.1 \quad (\nu: 4.1) \quad (-0.4\sigma)$
H_0	$69.8^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0012} \quad (+0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.037 \quad (\nu: 0.0) \quad (+0.3\sigma)$
Ω_{Λ}	$0.700^{+0.015}_{-0.016} \quad (+0.4\sigma)$	z_{eq}	$3344^{+60}_{-61} \quad (-0.7\sigma)$	χ_{MGS}^2	$2.05 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_{m}	$0.300^{+0.016}_{-0.015} \quad (-0.4\sigma)$	k_{eq}	$0.01041^{+0.00032}_{-0.00030} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.84 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1464^{+0.0083}_{-0.0080} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.012}_{-0.012} \quad (+0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1023^{+0.0091}_{-0.0093} \quad (+0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4550^{+0.0060}_{-0.0059} \quad (+0.6\sigma)$	χ_{BAO}^2	$5.93 \quad (\nu: 0.4) \quad (+0.3\sigma)$
σ_8	$0.820^{+0.027}_{-0.028} \quad (-0.1\sigma)$	$H(0.15)$	$75.1^{+2.8}_{-2.8} \quad (+0.4\sigma)$	χ_{CMB}^2	$11938.2 \quad (\nu: 19.1) \quad (+1444.9\sigma)$
S_8	$0.820^{+0.035}_{-0.034} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$622^{+25}_{-23} \quad (-0.4\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.12; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.13; R - 1 = 0.01923$$

7.103 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02257^{+0.00042}_{-0.00041} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$85.2^{+2.8}_{-2.9} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1232^{+0.0082}_{-0.0080} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.022}_{-0.022} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1485^{+57}_{-52} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.027}_{-0.025} \quad (-0.4\sigma)$	$H(0.51)$	$92.0^{+2.9}_{-3.1} \quad (+0.3\sigma)$
τ	$0.056^{+0.020}_{-0.015} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$101.0^{+2.0}_{-2.0} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1925^{+72}_{-66} \quad (-0.4\sigma)$
N_{eff}	$3.36^{+0.44}_{-0.47} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.408^{+0.062}_{-0.058} \quad (-0.6\sigma)$	$H(0.61)$	$97.6^{+3.0}_{-3.2} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.054^{+0.046}_{-0.037} \quad (-0.3\sigma)$	z_{re}	$< 9.65 \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2242^{+83}_{-75} \quad (-0.4\sigma)$
n_{s}	$0.979^{+0.015}_{-0.017} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.120^{+0.099}_{-0.077} \quad (-0.3\sigma)$	$H(2.33)$	$239.8^{+6.8}_{-6.9} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.896^{+0.043}_{-0.046} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5634^{+190}_{-160} \quad (-0.3\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1210^{+34}_{-33} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5723^{+110}_{-94} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.758^{+0.026}_{-0.026} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2539^{+38}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.017} \quad (-0.2\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.023}_{-0.024} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.65 \quad (-0.8\sigma)$	D_{2000}	$228.8^{+5.2}_{-5.1} \quad (-0.7\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.017}_{-0.017} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.31}$	$n_{\mathrm{s},0.002}$	$0.979^{+0.015}_{-0.017} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.631^{+0.022}_{-0.022} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2495^{+0.0056}_{-0.0062} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.017}_{-0.016} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2508^{+0.0057}_{-0.0062} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.601^{+0.021}_{-0.021} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.66^{+0.14}_{-0.14} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.011} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.48}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.49^{+0.44}_{-0.39} \quad (-0.3\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.012} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.44}$	z_*	$1090.2^{+1.1}_{-1.1} \quad (+0.6\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$142.0^{+4.5}_{-4.0} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.65^{+0.42}_{-0.37} \quad (-0.2\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	z_{drag}	$1060.9^{+1.6}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	$21.73 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	r_{drag}	$144.6^{+4.6}_{-4.2} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.4 \quad (\nu: 19.8)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	k_{D}	$0.1426^{+0.0032}_{-0.0033} \quad (+0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$5.1 \quad (\nu: 3.9) \quad (-0.4\sigma)$
H_0	$69.9^{+2.7}_{-2.7} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0012} \quad (+0.8\sigma)$	χ_{JLA}^2	$1034.81 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.700^{+0.015}_{-0.015} \quad (+0.4\sigma)$	z_{eq}	$3344^{+58}_{-59} \quad (-0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.035 \quad (\nu: 0.0) \quad (+0.3\sigma)$
Ω_{m}	$0.300^{+0.015}_{-0.015} \quad (-0.4\sigma)$	k_{eq}	$0.01041^{+0.00031}_{-0.00030} \quad (-0.1\sigma)$	χ_{MGS}^2	$2.06 \quad (\nu: 0.1) \quad (+0.4\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1464^{+0.0083}_{-0.0080} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.011}_{-0.011} \quad (+0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$3.81 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1023^{+0.0091}_{-0.0093} \quad (+0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4550^{+0.0058}_{-0.0057} \quad (+0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.9\sigma)$
σ_8	$0.820^{+0.027}_{-0.028} \quad (-0.1\sigma)$	$H(0.15)$	$75.1^{+2.7}_{-2.8} \quad (+0.4\sigma)$	χ_{BAO}^2	$5.90 \quad (\nu: 0.4) \quad (+0.3\sigma)$
S_8	$0.820^{+0.035}_{-0.034} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$622^{+25}_{-23} \quad (-0.4\sigma)$	χ_{CMB}^2	$11938.2 \quad (\nu: 19.0) \quad (+1448.8\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12991.86; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.12; R - 1 = 0.01898$$

7.104 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02259^{+0.00047}_{-0.00046} \quad (-0.3\sigma)$	S_8	$0.820^{+0.032}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$75.2^{+3.1}_{-3.0} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1231^{+0.0078}_{-0.0076} \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.017} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$621^{+27}_{-26} \quad (-0.5\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$H(0.38)$	$85.3^{+3.1}_{-3.1} \quad (+0.5\sigma)$
τ	$0.058^{+0.020}_{-0.016} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1483^{+60}_{-57} \quad (-0.5\sigma)$
N_{eff}	$3.36^{+0.46}_{-0.47} \quad (+0.5\sigma)$	$r_{\mathrm{drag}} h$	$101.1^{+2.6}_{-2.4} \quad (+0.4\sigma)$	$H(0.51)$	$92.1^{+3.2}_{-3.1} \quad (+0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.059^{+0.044}_{-0.036} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.412^{+0.058}_{-0.057} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1923^{+76}_{-73} \quad (-0.5\sigma)$
n_{s}	$0.979^{+0.017}_{-0.018} \quad (+0.4\sigma)$	z_{re}	$< 9.87 \quad (-0.1\sigma)$	$H(0.61)$	$97.7^{+3.3}_{-3.2} \quad (+0.5\sigma)$
y_{cal}	$1.0008^{+0.0068}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.131^{+0.097}_{-0.076} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2239^{+87}_{-82} \quad (-0.5\sigma)$
A_{100}^{PS}	$247^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.897^{+0.041}_{-0.042} \quad (+0.1\sigma)$	$H(2.33)$	$239.8^{+6.6}_{-6.5} \quad (+0.3\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{40}	$1211^{+33}_{-33} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5631^{+180}_{-180} \quad (-0.4\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5731^{+100}_{-97} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2541^{+37}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.760^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.65 \quad (-0.8\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.015}_{-0.015} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	D_{2000}	$228.9^{+5.2}_{-5.1} \quad (-0.7\sigma)$	$\sigma_8(0.38)$	$0.675^{+0.022}_{-0.021} \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.979^{+0.017}_{-0.018} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2496^{+0.0059}_{-0.0062} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.632^{+0.021}_{-0.020} \quad (+0.2\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2509^{+0.0059}_{-0.0063} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.65^{+0.13}_{-0.14} \quad (+0.9\sigma)$	$\sigma_8(0.61)$	$0.602^{+0.020}_{-0.020} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.48^{+0.44}_{-0.42} \quad (-0.4\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.011}_{-0.010} \quad (+0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1090.21^{+0.96}_{-1.0} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.314^{+0.011}_{-0.011} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	r_*	$142.0^{+4.2}_{-4.0} \quad (-0.4\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.5\sigma)$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5} \quad (+0.3\sigma)$
c_{217}	$1.0013^{+0.0042}_{-0.0039} \quad (+4.9\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.64^{+0.39}_{-0.37} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
c_{TE}	$0.999^{+0.012}_{-0.013}$	z_{drag}	$1060.9^{+1.6}_{-1.7} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.90 \quad (\nu: 0.4) \quad (+0.5\sigma)$
c_{EE}	$0.996^{+0.014}_{-0.014}$	r_{drag}	$144.5^{+4.4}_{-4.1} \quad (-0.3\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.3) \quad (-0.1\sigma)$
H_0	$70.0^{+3.1}_{-3.0} \quad (+0.5\sigma)$	k_{D}	$0.1426^{+0.0032}_{-0.0032} \quad (+0.2\sigma)$	χ_{lowl}^2	$21.78 \quad (\nu: 0.3) \quad (-0.4\sigma)$
Ω_{Λ}	$0.701^{+0.019}_{-0.020} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1615^{+0.0011}_{-0.0011} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11519.4 \quad (\nu: 20.3)$
Ω_{m}	$0.299^{+0.020}_{-0.019} \quad (-0.4\sigma)$	z_{eq}	$3340^{+72}_{-74} \quad (-0.7\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$4.9 \quad (\nu: 5.0) \quad (-0.4\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1463^{+0.0081}_{-0.0078} \quad (+0.3\sigma)$	k_{eq}	$0.01041^{+0.00030}_{-0.00029} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.2) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1024^{+0.0093}_{-0.0092} \quad (+0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.015}_{-0.014} \quad (+0.6\sigma)$	χ_{CMB}^2	$11948.5 \quad (\nu: 21.3) \quad (+1364.7\sigma)$
σ_8	$0.821^{+0.025}_{-0.025} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4554^{+0.0074}_{-0.0070} \quad (+0.6\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11961.28; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.45; R - 1 = 0.02116$$

7.105 base_nnu_CamSpecHM_TTTEEE_lowl_lowE_Riess18_post_BAO_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02256^{+0.00043}_{-0.00040} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.608^{+0.018}_{-0.018} \quad (-0.1\sigma)$	$H(0.51)$	$91.8^{+2.9}_{-2.9} \quad (+0.3\sigma)$
$\Omega_{\text{c}} h^2$	$0.1230^{+0.0078}_{-0.0078} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$D_{\text{M}}(0.51)$	$1929^{+69}_{-66} \quad (-0.4\sigma)$
$100\theta_{\text{MC}}$	$1.0405^{+0.0011}_{-0.0010} \quad (-0.4\sigma)$	$r_{\text{drag}} h$	$100.9^{+1.9}_{-1.9} \quad (+0.3\sigma)$	$H(0.61)$	$97.5^{+3.0}_{-3.0} \quad (+0.3\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.415^{+0.052}_{-0.050} \quad (-0.4\sigma)$	$D_{\text{M}}(0.61)$	$2246^{+79}_{-75} \quad (-0.4\sigma)$
N_{eff}	$3.34^{+0.45}_{-0.45} \quad (+0.4\sigma)$	z_{re}	$< 9.67 \quad (-0.2\sigma)$	$H(2.33)$	$239.7^{+6.5}_{-6.6} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.057^{+0.041}_{-0.035} \quad (-0.2\sigma)$	$10^9 A_{\text{s}}$	$2.127^{+0.090}_{-0.073} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$5641^{+180}_{-170} \quad (-0.3\sigma)$
n_{s}	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.896^{+0.040}_{-0.042} \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.015} \quad (-0.2\sigma)$
y_{cal}	$1.0007^{+0.0068}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	$1213^{+32}_{-31} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.759^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.6\sigma)$	D_{220}	$5729^{+100}_{-96} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-0.6\sigma)$	D_{810}	$2540^{+37}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.021}_{-0.021} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.0^{+5.3}_{-5.1} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.632^{+0.020}_{-0.020} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.8\sigma)$	$n_{\text{s},0.002}$	$0.978^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.32}_{-0.31}$	Y_{P}	$0.2493^{+0.0057}_{-0.0060} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.601^{+0.019}_{-0.019} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2506^{+0.0057}_{-0.0060} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.3035^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.65^{+0.13}_{-0.13} \quad (+0.9\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.011} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.51^{+0.43}_{-0.39} \quad (-0.3\sigma)$	f_{2000}^{143}	$32^{+9}_{-8} \quad (+0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	z_*	$1090.23^{+0.95}_{-1.0} \quad (+0.7\sigma)$	f_{2000}^{217}	$108.2^{+5.6}_{-5.6} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	r_*	$142.1^{+4.3}_{-4.0} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.0405^{+0.0014}_{-0.0013} \quad (-0.4\sigma)$	χ_{lensing}^2	$9.77 \quad (\nu: 0.3) \quad (+0.5\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.66^{+0.39}_{-0.37} \quad (-0.3\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.9) \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	z_{drag}	$1060.8^{+1.5}_{-1.6} \quad (-0.2\sigma)$	χ_{lowl}^2	$21.89 \quad (\nu: 0.3) \quad (-0.4\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0039} \quad (+4.9\sigma)$	r_{drag}	$144.7^{+4.4}_{-4.1} \quad (-0.3\sigma)$	χ_{CamSpec}^2	$11518.7 \quad (\nu: 19.2)$
c_{TE}	$0.998^{+0.012}_{-0.013}$	k_{D}	$0.1425^{+0.0031}_{-0.0032} \quad (+0.1\sigma)$	χ_{H073p45}^2	$5.5 \quad (\nu: 4.1) \quad (-0.3\sigma)$
c_{EE}	$0.996^{+0.013}_{-0.014}$	$100\theta_{\text{D}}$	$0.1614^{+0.0011}_{-0.0011} \quad (+0.9\sigma)$	χ_{JLA}^2	$1034.81 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$69.7^{+2.7}_{-2.7} \quad (+0.4\sigma)$	z_{eq}	$3347^{+56}_{-55} \quad (-0.6\sigma)$	$\chi_{6\text{DF}}^2$	$0.029 \quad (\nu: 0.0) \quad (+0.2\sigma)$
Ω_{Λ}	$0.699^{+0.014}_{-0.015} \quad (+0.3\sigma)$	k_{eq}	$0.01041^{+0.00030}_{-0.00029} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.98 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{m}	$0.301^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.824^{+0.011}_{-0.011} \quad (+0.5\sigma)$	χ_{DR12BAO}^2	$3.78 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\text{m}} h^2$	$0.1462^{+0.0080}_{-0.0078} \quad (+0.2\sigma)$	$100\theta_{\text{s,eq}}$	$0.4547^{+0.0055}_{-0.0055} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (-0.9\sigma)$
$\Omega_{\text{m}} h^3$	$0.1020^{+0.0090}_{-0.0088} \quad (+0.3\sigma)$	$H(0.15)$	$75.0^{+2.7}_{-2.7} \quad (+0.4\sigma)$	χ_{CMB}^2	$11947.6 \quad (\nu: 19.4) \quad (+1431.2\sigma)$
σ_8	$0.821^{+0.025}_{-0.025} \quad (+0.0\sigma)$	$D_{\text{M}}(0.15)$	$623^{+24}_{-23} \quad (-0.4\sigma)$	χ_{BAO}^2	$5.79 \quad (\nu: 0.2) \quad (+0.2\sigma)$
S_8	$0.822^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$H(0.38)$	$85.1^{+2.8}_{-2.8} \quad (+0.4\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.016}_{-0.015} \quad (-0.2\sigma)$	$D_{\text{M}}(0.38)$	$1488^{+55}_{-52} \quad (-0.4\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 13001.46; \Delta\bar{\chi}_{\text{eff}}^2 = 9149.61; R - 1 = 0.02255$$

7.106 base_nnu_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02201	$0.02206^{+0.00086}_{-0.00082}$	$\sigma_8/h^{0.5}$	0.9910	$0.990^{+0.041}_{-0.043}$	$D_M(0.15)$	653	651^{+60}_{-56}
$\Omega_c h^2$	0.1196	$0.120^{+0.011}_{-0.010}$	$r_{\text{drag}} h$	98.1	$98.4^{+5.9}_{-5.6}$	$H(0.38)$	81.9	$82.2^{+6.0}_{-5.7}$
$100\theta_{\text{MC}}$	1.04091	$1.0409^{+0.0015}_{-0.0014}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.45^{+0.12}_{-0.12}$	$D_M(0.38)$	1554	1551^{+130}_{-120}
τ	0.0503	$0.052^{+0.022}_{-0.023}$	z_{re}	7.33	$7.4^{+2.2}_{-2.6}$	$H(0.51)$	88.7	$88.9^{+6.0}_{-5.6}$
N_{eff}	2.97	$2.99^{+0.79}_{-0.74}$	$10^9 A_s$	2.075	$2.08^{+0.12}_{-0.11}$	$D_M(0.51)$	2012	2007^{+160}_{-150}
$\ln(10^{10} A_s)$	3.032	$3.035^{+0.057}_{-0.057}$	$10^9 A_s e^{-2\tau}$	1.876	$1.876^{+0.058}_{-0.060}$	$H(0.61)$	94.4	$94.6^{+6.0}_{-5.7}$
n_s	0.9590	$0.960^{+0.035}_{-0.036}$	D_{40}	1236	1236^{+60}_{-56}	$D_M(0.61)$	2339	2335^{+190}_{-170}
y_{cal}	1.0003	$1.0004^{+0.0063}_{-0.0066}$	D_{220}	5703	5707^{+110}_{-110}	$H(2.33)$	235.7	$235.8^{+9.8}_{-9.4}$
A_{100}^{PS}	251	255^{+70}_{-70}	D_{810}	2531.0	2530^{+37}_{-37}	$D_M(2.33)$	5813	5805^{+350}_{-330}
A_{143}^{tSZ}	5.91	< 8.91	D_{1420}	813.0	813^{+13}_{-14}	$f\sigma_8(0.15)$	0.4625	$0.462^{+0.031}_{-0.033}$
A^{kSZ}	0.8	—	D_{2000}	229.3	$229.2^{+5.9}_{-6.3}$	$\sigma_8(0.15)$	0.7444	$0.745^{+0.036}_{-0.033}$
A_{100}^{dust}	0.998	$1.00^{+0.50}_{-0.50}$	$n_{\text{s},0.002}$	0.9590	$0.960^{+0.035}_{-0.036}$	$f\sigma_8(0.38)$	0.4781	$0.478^{+0.024}_{-0.026}$
A_{143}^{power}	11.8	$10.3^{+7.8}_{-6.1}$	Y_{P}	0.2442	$0.244^{+0.010}_{-0.011}$	$\sigma_8(0.38)$	0.6586	$0.659^{+0.034}_{-0.032}$
A_{217}^{power}	10.9	$8.2^{+8.1}_{-5.1}$	$Y_{\text{P}}^{\text{BBN}}$	0.2455	$0.246^{+0.010}_{-0.011}$	$f\sigma_8(0.51)$	0.4753	$0.475^{+0.021}_{-0.023}$
$A_{143 \times 217}^{\text{power}}$	7.2	< 11.6	$10^5 \text{D}/\text{H}$	2.626	$2.63^{+0.20}_{-0.18}$	$\sigma_8(0.51)$	0.6158	$0.617^{+0.034}_{-0.031}$
$\gamma_{143}^{\text{power}}$	1.31	> 0.360	Age/Gyr	13.91	$13.90^{+0.83}_{-0.79}$	$f\sigma_8(0.61)$	0.4694	$0.469^{+0.020}_{-0.021}$
$\gamma_{217}^{\text{power}}$	1.33	—	z_*	1090.26	$1090.2^{+1.3}_{-1.3}$	$\sigma_8(0.61)$	0.5856	$0.587^{+0.033}_{-0.030}$
$\gamma_{143 \times 217}^{\text{power}}$	1.24	—	r_*	145.2	$145.1^{+6.9}_{-6.7}$	$f\sigma_8(2.33)$	0.2948	$0.295^{+0.018}_{-0.016}$
c_{100}	0.99804	$0.9978^{+0.0027}_{-0.0028}$	$100\theta_*$	1.04117	$1.0411^{+0.0019}_{-0.0017}$	$\sigma_8(2.33)$	0.3034	$0.304^{+0.020}_{-0.018}$
c_{217}	0.99899	$0.9994^{+0.0043}_{-0.0034}$	$D_M(z_*)/\text{Gpc}$	13.95	$13.94^{+0.64}_{-0.62}$	f_{2000}^{143}	23.1	23^{+10}_{-9}
H_0	66.3	$66.6^{+6.5}_{-6.0}$	z_{drag}	1059.02	$1059.1^{+2.9}_{-3.0}$	f_{2000}^{217}	16.7	$16.7^{+6.6}_{-6.2}$
Ω_Λ	0.6764	$0.678^{+0.045}_{-0.051}$	r_{drag}	148.0	$147.9^{+7.2}_{-6.9}$	$f_{2000}^{143 \times 217}$	11.1	$10.9^{+7.4}_{-6.9}$
Ω_{m}	0.3236	$0.322^{+0.051}_{-0.045}$	k_{D}	0.1399	$0.1401^{+0.0051}_{-0.0050}$	χ_{simall}^2	395.69	$396.9 (\nu: 1.3)$
$\Omega_{\text{m}} h^2$	0.1422	$0.142^{+0.011}_{-0.011}$	$100\theta_{\text{D}}$	0.16097	$0.1610^{+0.0018}_{-0.0017}$	χ_{lowl}^2	24.2	$24.4 (\nu: 2.8)$
$\Omega_{\text{m}} h^3$	0.0943	$0.095^{+0.016}_{-0.014}$	z_{eq}	3419	3414^{+170}_{-170}	χ_{CamSpec}^2	6703.8	$6716.4 (\nu: 15.5)$
σ_8	0.8069	$0.808^{+0.037}_{-0.034}$	k_{eq}	0.010381	$0.01038^{+0.00042}_{-0.00042}$	χ_{prior}^2	1.3	$5.3 (\nu: 4.2)$
S_8	0.838	$0.837^{+0.064}_{-0.064}$	$100\theta_{\text{eq}}$	0.8092	$0.810^{+0.032}_{-0.031}$	χ_{CMB}^2	7123.7	$7137.7 (\nu: 14.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4590	$0.458^{+0.035}_{-0.035}$	$100\theta_{\text{s,eq}}$	0.4475	$0.448^{+0.017}_{-0.016}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6086	$0.608^{+0.029}_{-0.031}$	$H(0.15)$	71.7	$71.9^{+6.3}_{-5.8}$			

Best-fit $\chi_{\text{eff}}^2 = 7124.98$; $\bar{\chi}_{\text{eff}}^2 = 7142.96$; $R - 1 = 0.00706$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.69 commander_dx12_v3.2_29: 24.16 CamSpec like_10.7cleaned: 6703.83

7.107 base_nnu_lensing_lenspriors_BAO_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02186	$0.0220^{+0.0018}_{-0.0017}$	D_{1420}	859	843^{+200}_{-200}	$D_{\mathrm{M}}(0.51)$	2011	1999^{+150}_{-150}
$\Omega_{\mathrm{c}}h^2$	0.1127	$0.115^{+0.033}_{-0.028}$	D_{2000}	242	240^{+100}_{-70}	$H(0.61)$	93.6	$94.3^{+8.4}_{-7.7}$
$100\theta_{\mathrm{MC}}$	1.0384	$1.040^{+0.038}_{-0.040}$	$n_{\mathrm{s},0.002}$	0.957	$0.956^{+0.050}_{-0.051}$	$D_{\mathrm{M}}(0.61)$	2341	2328^{+180}_{-170}
N_{eff}	2.88	$2.91^{+0.70}_{-0.65}$	Y_{P}	0.2430	$0.2434^{+0.0098}_{-0.0098}$	$H(2.33)$	230.4	232^{+26}_{-24}
$\ln(10^{10}A_{\mathrm{s}})$	3.092	$3.08^{+0.27}_{-0.26}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2443	$0.2447^{+0.0098}_{-0.0098}$	$D_{\mathrm{M}}(2.33)$	5875	5838^{+540}_{-500}
n_{s}	0.957	$0.956^{+0.050}_{-0.051}$	$10^5\mathrm{D}/\mathrm{H}$	2.626	$2.61^{+0.24}_{-0.24}$	$f\sigma_8(0.15)$	0.4495	$0.452^{+0.046}_{-0.046}$
H_0	66.82	$67.2^{+4.9}_{-4.5}$	Age/Gyr	14.07	$14.0^{+1.3}_{-1.2}$	$\sigma_8(0.15)$	0.7470	$0.748^{+0.043}_{-0.044}$
Ω_{Λ}	0.6973	$0.695^{+0.042}_{-0.046}$	z_{*}	1089.75	$1089.8^{+3.1}_{-2.8}$	$f\sigma_8(0.38)$	0.4698	$0.471^{+0.039}_{-0.040}$
Ω_{m}	0.3027	$0.305^{+0.046}_{-0.042}$	r_{*}	147.6	147^{+11}_{-10}	$\sigma_8(0.38)$	0.6631	$0.664^{+0.036}_{-0.037}$
$\Omega_{\mathrm{m}}h^2$	0.1352	$0.138^{+0.033}_{-0.028}$	$100\theta_{*}$	1.0387	$1.041^{+0.038}_{-0.040}$	$f\sigma_8(0.51)$	0.4694	$0.471^{+0.035}_{-0.037}$
$\Omega_{\mathrm{m}}h^3$	0.0903	$0.093^{+0.029}_{-0.024}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	14.21	$14.1^{+1.5}_{-1.3}$	$\sigma_8(0.51)$	0.6210	$0.622^{+0.033}_{-0.035}$
σ_8	0.8074	$0.809^{+0.048}_{-0.050}$	z_{drag}	1058.1	$1058.6^{+5.4}_{-5.4}$	$f\sigma_8(0.61)$	0.4652	$0.466^{+0.033}_{-0.034}$
S_8	0.811	$0.815^{+0.090}_{-0.088}$	r_{drag}	150.5	150^{+11}_{-11}	$\sigma_8(0.61)$	0.5911	$0.592^{+0.032}_{-0.033}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4442	$0.447^{+0.049}_{-0.048}$	k_{D}	0.1376	$0.139^{+0.011}_{-0.010}$	$f\sigma_8(2.33)$	0.2984	$0.299^{+0.016}_{-0.016}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5989	$0.601^{+0.049}_{-0.049}$	$100\theta_{\mathrm{D}}$	0.1607	$0.1608^{+0.0053}_{-0.0053}$	$\sigma_8(2.33)$	0.3081	$0.308^{+0.016}_{-0.017}$
$\sigma_8/h^{0.5}$	0.988	$0.987^{+0.050}_{-0.051}$	z_{eq}	3286	3337^{+700}_{-600}	$\chi^2_{\mathrm{lensing}}$	7.8	$9.9 (\nu: 2.4)$
$r_{\mathrm{drag}}h$	100.58	$100.5^{+3.1}_{-3.1}$	k_{eq}	0.00992	$0.0101^{+0.0023}_{-0.0019}$	χ^2_{Aver15}	0.02	$0.9 (\nu: 0.8)$
$\langle d^2 \rangle^{1/2}$	2.487	$2.48^{+0.14}_{-0.13}$	$100\theta_{\mathrm{eq}}$	0.831	$0.826^{+0.10}_{-0.091}$	$\chi^2_{\mathrm{Cooke17}}$	0.01	$0.9 (\nu: 1.0)$
z_{re}	7.72	$7.73^{+0.63}_{-0.58}$	$100\theta_{\mathrm{s,eq}}$	0.4590	$0.456^{+0.052}_{-0.047}$	$\chi^2_{6\mathrm{DF}}$	0.000	$0.058 (\nu: 0.0)$
10^9A_{s}	2.20	$2.19^{+0.66}_{-0.51}$	$H(0.15)$	71.9	$72.3^{+5.5}_{-5.1}$	χ^2_{MGS}	1.75	$1.81 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	1.97	$1.96^{+0.59}_{-0.45}$	$D_{\mathrm{M}}(0.15)$	649.4	646^{+47}_{-45}	$\chi^2_{\mathrm{DR12BAO}}$	3.53	$4.4 (\nu: 1.3)$
D_{40}	1325	1318^{+400}_{-300}	$H(0.38)$	81.6	$82.2^{+6.9}_{-6.2}$	χ^2_{prior}	0.03	$1.0 (\nu: 1.0)$
D_{220}	6159	6121^{+3000}_{-2000}	$D_{\mathrm{M}}(0.38)$	1551	1543^{+120}_{-110}	χ^2_{BAO}	5.28	$6.3 (\nu: 1.4)$
D_{810}	2685	2648^{+800}_{-700}	$H(0.51)$	88.1	$88.8^{+7.7}_{-7.0}$	χ^2_{Abund}	0.03	$1.9 (\nu: 1.8)$

Best-fit $\chi^2_{\mathrm{eff}} = 13.18$; $\bar{\chi}^2_{\mathrm{eff}} = 19.03$; $R - 1 = 0.01158$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.02 D_Cooke2017: 0.01 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.53 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.84

7.108 base_nnu_lensing_lenspriors_BAO_Cooke17_Aver15_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02194	$0.0220^{+0.0018}_{-0.0016}$	D_{2000}	243	243^{+80}_{-60}	$D_{\mathrm{M}}(0.61)$	2337	2331^{+180}_{-160}
$\Omega_{\mathrm{c}}h^2$	0.1124	$0.114^{+0.029}_{-0.024}$	$n_{\mathrm{s},0.002}$	0.9561	$0.956^{+0.049}_{-0.050}$	$H(2.33)$	230.3	231^{+23}_{-21}
$100\theta_{\mathrm{MC}}$	1.0376	$1.039^{+0.033}_{-0.035}$	Y_{P}	0.2433	$0.243^{+0.010}_{-0.0099}$	$D_{\mathrm{M}}(2.33)$	5871	5853^{+480}_{-460}
N_{eff}	2.90	$2.92^{+0.74}_{-0.65}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2446	$0.245^{+0.010}_{-0.0099}$	$f\sigma_8(0.15)$	0.4487	$0.450^{+0.041}_{-0.039}$
$\ln(10^{10}A_{\mathrm{s}})$	3.100	$3.09^{+0.23}_{-0.22}$	$10^5\mathrm{D}/\mathrm{H}$	2.617	$2.61^{+0.24}_{-0.25}$	$\sigma_8(0.15)$	0.7476	$0.748^{+0.042}_{-0.044}$
n_{s}	0.9561	$0.956^{+0.049}_{-0.050}$	Age/Gyr	14.06	$14.0^{+1.2}_{-1.1}$	$f\sigma_8(0.38)$	0.4693	$0.470^{+0.035}_{-0.036}$
H_0	66.96	$67.2^{+4.8}_{-4.5}$	z_*	1089.65	$1089.7^{+2.6}_{-2.5}$	$\sigma_8(0.38)$	0.6638	$0.664^{+0.035}_{-0.039}$
Ω_{Λ}	0.6989	$0.698^{+0.034}_{-0.037}$	r_*	147.5	$147^{+10}_{-9.8}$	$f\sigma_8(0.51)$	0.4692	$0.470^{+0.032}_{-0.033}$
Ω_{m}	0.3011	$0.302^{+0.037}_{-0.034}$	$100\theta_*$	1.0380	$1.039^{+0.034}_{-0.034}$	$\sigma_8(0.51)$	0.6217	$0.622^{+0.033}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	0.1350	$0.137^{+0.029}_{-0.025}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.21	$14.2^{+1.3}_{-1.2}$	$f\sigma_8(0.61)$	0.4651	$0.466^{+0.030}_{-0.031}$
$\Omega_{\mathrm{m}}h^3$	0.0904	$0.092^{+0.026}_{-0.021}$	z_{drag}	1058.3	$1058.5^{+5.4}_{-5.4}$	$\sigma_8(0.61)$	0.5919	$0.592^{+0.031}_{-0.034}$
σ_8	0.8079	$0.808^{+0.046}_{-0.049}$	r_{drag}	150.4	150^{+11}_{-10}	$f\sigma_8(2.33)$	0.2989	$0.299^{+0.015}_{-0.017}$
S_8	0.809	$0.811^{+0.079}_{-0.076}$	k_{D}	0.1377	$0.138^{+0.010}_{-0.0094}$	$\sigma_8(2.33)$	0.3086	$0.309^{+0.016}_{-0.017}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4433	$0.444^{+0.043}_{-0.042}$	$100\theta_{\mathrm{D}}$	0.16055	$0.1606^{+0.0045}_{-0.0045}$	$\chi^2_{\mathrm{lensing}}$	7.78	$9.6 (\nu: 1.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5984	$0.599^{+0.043}_{-0.044}$	z_{eq}	3273	3303^{+600}_{-500}	χ^2_{Aver15}	0.01	$0.9 (\nu: 0.8)$
$\sigma_8/h^{0.5}$	0.987	$0.986^{+0.050}_{-0.051}$	k_{eq}	0.00989	$0.00999^{+0.0019}_{-0.0017}$	$\chi^2_{\mathrm{Cooke17}}$	0.00	$0.95 (\nu: 1.0)$
$r_{\mathrm{drag}}h$	100.71	$100.7^{+2.8}_{-2.7}$	$100\theta_{\mathrm{eq}}$	0.833	$0.831^{+0.087}_{-0.079}$	χ^2_{JLA}	1034.74	$1035.14 (\nu: 0.2)$
$\langle d^2 \rangle^{1/2}$	2.493	$2.49^{+0.13}_{-0.13}$	$100\theta_{\mathrm{s,eq}}$	0.4600	$0.459^{+0.044}_{-0.041}$	$\chi^2_{6\mathrm{DF}}$	0.002	$0.047 (\nu: 0.0)$
z_{re}	7.70	$7.71^{+0.52}_{-0.50}$	$H(0.15)$	72.0	$72.3^{+5.2}_{-4.9}$	χ^2_{MGS}	1.82	$1.87 (\nu: 0.2)$
10^9A_{s}	2.22	$2.21^{+0.56}_{-0.44}$	$D_{\mathrm{M}}(0.15)$	648.2	647^{+47}_{-44}	$\chi^2_{\mathrm{DR12BAO}}$	3.54	$4.4 (\nu: 1.1)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	1.989	$1.98^{+0.50}_{-0.40}$	$H(0.38)$	81.7	$82.1^{+6.2}_{-5.9}$	χ^2_{prior}	0.04	$0.96 (\nu: 0.9)$
D_{40}	1338	1331^{+400}_{-300}	$D_{\mathrm{M}}(0.38)$	1548	1544^{+110}_{-110}	χ^2_{BAO}	5.36	$6.3 (\nu: 1.2)$
D_{220}	6230	6202^{+2000}_{-2000}	$H(0.51)$	88.2	$88.6^{+7.0}_{-6.5}$	χ^2_{Abund}	0.01	$1.8 (\nu: 1.8)$
D_{810}	2704	2680^{+700}_{-600}	$D_{\mathrm{M}}(0.51)$	2008	2002^{+150}_{-140}			
D_{1420}	864	854^{+200}_{-200}	$H(0.61)$	93.6	$94.0^{+7.8}_{-7.1}$			

Best-fit $\chi^2_{\mathrm{eff}} = 1047.92$; $\bar{\chi}^2_{\mathrm{eff}} = 1053.81$; $R - 1 = 0.01510$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.01 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.54 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.78 SN - JLA Pantheon18: 1034.74

7.109 base_nnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02189	$0.0220^{+0.0018}_{-0.0016}$	D_{1420}	845	843^{+100}_{-100}	$D_{\mathrm{M}}(0.51)$	2003	1999^{+120}_{-120}
$\Omega_{\mathrm{c}}h^2$	0.1143	$0.115^{+0.016}_{-0.014}$	D_{2000}	238.2	237^{+40}_{-40}	$H(0.61)$	94.0	$94.3^{+5.9}_{-5.2}$
$100\theta_{\mathrm{MC}}$	1.04091	$1.0409^{+0.0015}_{-0.0016}$	$n_{\mathrm{s},0.002}$	0.9551	$0.954^{+0.048}_{-0.049}$	$D_{\mathrm{M}}(0.61)$	2332	2327^{+140}_{-140}
N_{eff}	2.88	$2.91^{+0.74}_{-0.65}$	Y_{P}	0.2429	$0.243^{+0.010}_{-0.0098}$	$H(2.33)$	231.8	232^{+14}_{-13}
$\ln(10^{10}A_{\mathrm{s}})$	3.077	$3.075^{+0.089}_{-0.10}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2442	$0.245^{+0.010}_{-0.0098}$	$D_{\mathrm{M}}(2.33)$	5847	5832^{+340}_{-340}
n_{s}	0.9551	$0.954^{+0.048}_{-0.049}$	$10^5\mathrm{D}/\mathrm{H}$	2.618	$2.62^{+0.25}_{-0.23}$	$f\sigma_8(0.15)$	0.4518	$0.452^{+0.025}_{-0.025}$
H_0	67.02	$67.2^{+4.6}_{-4.1}$	Age/Gyr	14.00	$13.96^{+0.80}_{-0.82}$	$\sigma_8(0.15)$	0.7483	$0.749^{+0.038}_{-0.040}$
Ω_{Λ}	0.6952	$0.695^{+0.023}_{-0.023}$	z_*	1089.86	$1089.9^{+1.7}_{-1.7}$	$f\sigma_8(0.38)$	0.4716	$0.472^{+0.024}_{-0.025}$
Ω_{m}	0.3048	$0.305^{+0.023}_{-0.023}$	r_*	147.2	$146.8^{+8.5}_{-8.7}$	$\sigma_8(0.38)$	0.6640	$0.664^{+0.035}_{-0.036}$
$\Omega_{\mathrm{m}}h^2$	0.1369	$0.138^{+0.018}_{-0.015}$	$100\theta_*$	1.04127	$1.0412^{+0.0016}_{-0.0017}$	$f\sigma_8(0.51)$	0.4710	$0.471^{+0.024}_{-0.024}$
$\Omega_{\mathrm{m}}h^3$	0.0917	$0.093^{+0.018}_{-0.015}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.13	$14.10^{+0.81}_{-0.83}$	$\sigma_8(0.51)$	0.6217	$0.622^{+0.033}_{-0.034}$
σ_8	0.8090	$0.809^{+0.041}_{-0.042}$	z_{drag}	1058.3	$1058.5^{+5.6}_{-5.2}$	$f\sigma_8(0.61)$	0.4666	$0.467^{+0.023}_{-0.024}$
S_8	0.8154	$0.816^{+0.047}_{-0.047}$	r_{drag}	150.0	$149.6^{+9.1}_{-9.3}$	$\sigma_8(0.61)$	0.5918	$0.592^{+0.032}_{-0.033}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4466	$0.447^{+0.026}_{-0.025}$	k_{D}	0.1381	$0.1385^{+0.0085}_{-0.0075}$	$f\sigma_8(2.33)$	0.2987	$0.299^{+0.016}_{-0.017}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6011	$0.601^{+0.031}_{-0.031}$	$100\theta_{\mathrm{D}}$	0.16097	$0.1610^{+0.0019}_{-0.0019}$	$\sigma_8(2.33)$	0.3082	$0.308^{+0.017}_{-0.018}$
$\sigma_8/h^{0.5}$	0.988	$0.987^{+0.051}_{-0.053}$	z_{eq}	3330	3336^{+130}_{-120}	$\chi^2_{\mathrm{lensing}}$	7.99	$9.2 (\nu: 1.2)$
$r_{\mathrm{drag}}h$	100.55	$100.5^{+3.0}_{-2.9}$	k_{eq}	0.01005	$0.01009^{+0.00078}_{-0.00070}$	χ^2_{Aver15}	0.03	$0.95 (\nu: 0.9)$
$\langle d^2 \rangle^{1/2}$	2.482	$2.48^{+0.10}_{-0.099}$	$100\theta_{\mathrm{eq}}$	0.8249	$0.824^{+0.020}_{-0.020}$	$\chi^2_{\mathrm{Cooke17}}$	0.00	$0.98 (\nu: 1.0)$
z_{re}	7.747	$7.74^{+0.29}_{-0.29}$	$100\theta_{\mathrm{s,eq}}$	0.4558	$0.455^{+0.011}_{-0.011}$	$\chi^2_{6\mathrm{DF}}$	0.000	$0.055 (\nu: 0.0)$
10^9A_{s}	2.168	$2.17^{+0.20}_{-0.21}$	$H(0.15)$	72.14	$72.4^{+4.8}_{-4.3}$	χ^2_{MGS}	1.75	$1.80 (\nu: 0.2)$
$10^9A_{\mathrm{s}}e^{-2\tau}$	1.943	$1.94^{+0.18}_{-0.19}$	$D_{\mathrm{M}}(0.15)$	647.4	646^{+41}_{-41}	$\chi^2_{\mathrm{DR12BAO}}$	3.37	$4.3 (\nu: 0.9)$
D_{40}	1305	1306^{+200}_{-100}	$H(0.38)$	81.98	$82.2^{+5.3}_{-4.7}$	χ^2_{prior}	0.06	$2.0 (\nu: 2.0)$
D_{220}	6027	6025^{+650}_{-600}	$D_{\mathrm{M}}(0.38)$	1546	1542^{+95}_{-96}	χ^2_{BAO}	5.12	$6.1 (\nu: 1.0)$
D_{810}	2639	2632^{+300}_{-300}	$H(0.51)$	88.5	$88.8^{+5.6}_{-5.0}$	χ^2_{Abund}	0.03	$1.9 (\nu: 1.9)$

Best-fit $\chi^2_{\mathrm{eff}} = 13.20$; $\bar{\chi}^2_{\mathrm{eff}} = 19.27$; $R - 1 = 0.00810$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.03 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.37 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.99

7.110 base_nnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02187	$0.0220^{+0.0018}_{-0.0016}$	D_{2000}	240.0	238^{+40}_{-40}	$D_M(0.61)$	2334	2324^{+150}_{-150}
$\Omega_c h^2$	0.1139	$0.115^{+0.016}_{-0.014}$	$n_{s,0.002}$	0.9557	$0.954^{+0.049}_{-0.047}$	$H(2.33)$	231.4	232^{+15}_{-13}
$100\theta_{MC}$	1.04091	$1.0409^{+0.0016}_{-0.0016}$	Y_P	0.2427	$0.243^{+0.010}_{-0.010}$	$D_M(2.33)$	5853	5829^{+350}_{-350}
N_{eff}	2.86	$2.92^{+0.74}_{-0.66}$	Y_P^{BBN}	0.2440	$0.245^{+0.010}_{-0.010}$	$f\sigma_8(0.15)$	0.4519	$0.452^{+0.025}_{-0.025}$
$\ln(10^{10} A_s)$	3.082	$3.077^{+0.091}_{-0.10}$	$10^5 D/H$	2.616	$2.61^{+0.25}_{-0.24}$	$\sigma_8(0.15)$	0.7495	$0.749^{+0.038}_{-0.038}$
n_s	0.9557	$0.954^{+0.049}_{-0.047}$	Age/Gyr	14.01	$13.96^{+0.83}_{-0.83}$	$f\sigma_8(0.38)$	0.4719	$0.472^{+0.024}_{-0.024}$
H_0	67.00	$67.3^{+4.7}_{-4.2}$	z_*	1089.83	$1089.8^{+1.6}_{-1.7}$	$\sigma_8(0.38)$	0.6652	$0.665^{+0.035}_{-0.034}$
Ω_Λ	0.6961	$0.696^{+0.021}_{-0.022}$	r_*	147.4	$146.8^{+8.9}_{-8.8}$	$f\sigma_8(0.51)$	0.4714	$0.471^{+0.024}_{-0.024}$
Ω_m	0.3039	$0.304^{+0.022}_{-0.021}$	$100\theta_*$	1.04127	$1.0412^{+0.0017}_{-0.0017}$	$\sigma_8(0.51)$	0.6229	$0.622^{+0.033}_{-0.033}$
$\Omega_m h^2$	0.1364	$0.138^{+0.018}_{-0.016}$	$D_M(z_*)/\text{Gpc}$	14.15	$14.09^{+0.83}_{-0.83}$	$f\sigma_8(0.61)$	0.4671	$0.467^{+0.024}_{-0.024}$
$\Omega_m h^3$	0.0914	$0.093^{+0.018}_{-0.015}$	z_{drag}	1058.2	$1058.6^{+5.5}_{-5.2}$	$\sigma_8(0.61)$	0.5929	$0.592^{+0.032}_{-0.031}$
σ_8	0.8102	$0.810^{+0.041}_{-0.041}$	r_{drag}	150.3	$149.6^{+9.5}_{-9.4}$	$f\sigma_8(2.33)$	0.2993	$0.299^{+0.016}_{-0.016}$
S_8	0.8155	$0.815^{+0.046}_{-0.046}$	k_D	0.1379	$0.1385^{+0.0085}_{-0.0078}$	$\sigma_8(2.33)$	0.3089	$0.309^{+0.017}_{-0.017}$
$\sigma_8 \Omega_m^{0.5}$	0.4467	$0.447^{+0.025}_{-0.025}$	$100\theta_D$	0.16095	$0.1610^{+0.0019}_{-0.0020}$	χ^2_{lensing}	7.96	$9.2 (\nu: 1.2)$
$\sigma_8 \Omega_m^{0.25}$	0.6016	$0.601^{+0.031}_{-0.030}$	z_{eq}	3326	3333^{+130}_{-110}	χ^2_{Aver15}	0.05	$0.9 (\nu: 0.9)$
$\sigma_8/h^{0.5}$	0.990	$0.987^{+0.050}_{-0.052}$	k_{eq}	0.01003	$0.01009^{+0.00078}_{-0.00073}$	χ^2_{Cooke17}	0.00	$0.98 (\nu: 1.0)$
$r_{\text{drag}} h$	100.66	$100.6^{+2.8}_{-2.7}$	$100\theta_{\text{eq}}$	0.8257	$0.825^{+0.018}_{-0.020}$	χ^2_{JLA}	1034.79	$1034.93 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	2.485	$2.48^{+0.10}_{-0.10}$	$100\theta_{s,\text{eq}}$	0.4562	$0.456^{+0.010}_{-0.011}$	$\chi^2_{6\text{DF}}$	0.001	$0.049 (\nu: 0.0)$
z_{re}	7.741	$7.74^{+0.29}_{-0.29}$	$H(0.15)$	72.11	$72.4^{+4.9}_{-4.5}$	χ^2_{MGS}	1.82	$1.86 (\nu: 0.2)$
$10^9 A_s$	2.180	$2.17^{+0.20}_{-0.21}$	$D_M(0.15)$	647.6	645^{+42}_{-42}	χ^2_{DR12BAO}	3.34	$4.1 (\nu: 0.6)$
$10^9 A_s e^{-2\tau}$	1.953	$1.94^{+0.18}_{-0.19}$	$H(0.38)$	81.9	$82.3^{+5.3}_{-4.9}$	χ^2_{prior}	0.05	$2.0 (\nu: 2.0)$
D_{40}	1311	1308^{+100}_{-100}	$D_M(0.38)$	1546	1540^{+100}_{-98}	χ^2_{BAO}	5.16	$6.0 (\nu: 0.8)$
D_{220}	6063	6038^{+610}_{-580}	$H(0.51)$	88.4	$88.9^{+5.6}_{-5.1}$	χ^2_{Abund}	0.05	$1.9 (\nu: 1.9)$
D_{810}	2656	2637^{+300}_{-300}	$D_M(0.51)$	2005	1997^{+130}_{-120}			
D_{1420}	851	844^{+100}_{-100}	$H(0.61)$	93.9	$94.3^{+5.9}_{-5.3}$			

Best-fit $\chi^2_{\text{eff}} = 1048.00$; $\bar{\chi}^2_{\text{eff}} = 1054.11$; $R - 1 = 0.00939$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.05 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.33 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.96 SN - JLA Pantheon18: 1034.79

7.111 base_nnu_BAO_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02202	$0.0221^{+0.0020}_{-0.0018}$	r_*	134.9	131^{+30}_{-20}	$H(0.51)$	98.2	103^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.165	$0.19^{+0.15}_{-0.10}$	$100\theta_*$	1.096	$1.113^{+0.085}_{-0.10}$	$D_{\text{M}}(0.51)$	1844	1787^{+300}_{-300}
$100\theta_{\text{MC}}$	1.095	$1.113^{+0.085}_{-0.10}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.32	$11.8^{+3.6}_{-2.7}$	$H(0.61)$	105.0	110^{+30}_{-20}
N_{eff}	2.94	$2.96^{+0.75}_{-0.70}$	z_{drag}	1062.1	$1063.7^{+9.8}_{-10}$	$D_{\text{M}}(0.61)$	2139	2071^{+400}_{-400}
H_0	71.2	73^{+10}_{-10}	r_{drag}	137.5	133^{+30}_{-20}	$H(2.33)$	269	286^{+90}_{-70}
Ω_{Λ}	0.630	$0.60^{+0.12}_{-0.13}$	k_{D}	0.1516	$0.157^{+0.031}_{-0.028}$	$D_{\text{M}}(2.33)$	5213	5009^{+1000}_{-1000}
Ω_{m}	0.370	$0.40^{+0.13}_{-0.12}$	$100\theta_{\text{D}}$	0.1682	$0.171^{+0.013}_{-0.013}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.187	$0.22^{+0.15}_{-0.10}$	z_{eq}	4527	5183^{+3000}_{-2000}	χ^2_{Cooke17}	0.00	$1.1 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.133	$0.159^{+0.15}_{-0.086}$	k_{eq}	0.0137	$0.0157^{+0.011}_{-0.0073}$	$\chi^2_{6\text{DF}}$	0.18	$0.44 (\nu: 0.1)$
$r_{\text{drag}}h$	97.9	$97.1^{+5.4}_{-5.1}$	$100\theta_{\text{eq}}$	0.693	$0.66^{+0.25}_{-0.17}$	χ^2_{MGS}	0.72	$0.69 (\nu: 0.2)$
Y_{P}	0.2438	$0.244^{+0.010}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.387	$0.368^{+0.13}_{-0.092}$	χ^2_{DR12BAO}	2.10	$4.0 (\nu: 1.7)$
$Y_{\text{P}}^{\text{BBN}}$	0.2452	$0.245^{+0.010}_{-0.011}$	$H(0.15)$	77.8	80^{+10}_{-10}	χ^2_{BAO}	3.00	$5.1 (\nu: 2.1)$
$10^5\text{D}/\text{H}$	2.614	$2.61^{+0.24}_{-0.25}$	$D_{\text{M}}(0.15)$	605	589^{+100}_{-90}	χ^2_{Abund}	0.01	$2.1 (\nu: 2.2)$
Age/Gyr	12.47	$12.0^{+3.0}_{-2.5}$	$H(0.38)$	90.1	94^{+20}_{-20}			
z_*	1093.9	$1095.7^{+9.6}_{-7.5}$	$D_{\text{M}}(0.38)$	1430	1387^{+300}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 3.01$; $\bar{\chi}^2_{\text{eff}} = 7.19$; $R - 1 = 0.02751$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.18 MGS: 0.72 DR12BAO: 2.10

7.112 base_nnu_BAO_Cooke17_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02197	$0.0221^{+0.0020}_{-0.0017}$	r_*	144.8	144^{+13}_{-13}	$H(0.51)$	90.3	91^{+10}_{-9}
$\Omega_{\text{c}}h^2$	0.1218	$0.125^{+0.047}_{-0.038}$	$100\theta_*$	1.0496	$1.052^{+0.049}_{-0.050}$	$D_{\text{M}}(0.51)$	1970	1956^{+190}_{-180}
$100\theta_{\text{MC}}$	1.0494	$1.052^{+0.049}_{-0.050}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.80	$13.7^{+1.9}_{-1.7}$	$H(0.61)$	95.9	97^{+10}_{-10}
N_{eff}	2.94	$2.98^{+0.71}_{-0.69}$	z_{drag}	1059.1	$1059.6^{+6.6}_{-6.1}$	$D_{\text{M}}(0.61)$	2292	2276^{+230}_{-220}
H_0	68.0	$68.5^{+6.4}_{-5.7}$	r_{drag}	147.6	147^{+14}_{-13}	$H(2.33)$	237.8	240^{+30}_{-30}
Ω_{Λ}	0.687	$0.685^{+0.050}_{-0.052}$	k_{D}	0.1404	$0.142^{+0.014}_{-0.013}$	$D_{\text{M}}(2.33)$	5726	5682^{+700}_{-600}
Ω_{m}	0.313	$0.315^{+0.052}_{-0.050}$	$100\theta_{\text{D}}$	0.1622	$0.1624^{+0.0068}_{-0.0069}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1444	$0.148^{+0.048}_{-0.039}$	z_{eq}	3486	3555^{+1000}_{-900}	χ^2_{Cooke17}	0.00	$1.1 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.0981	$0.102^{+0.043}_{-0.032}$	k_{eq}	0.01056	$0.0108^{+0.0033}_{-0.0027}$	χ^2_{JLA}	1035.11	$1036.0 (\nu: 1.4)$
$r_{\text{drag}}h$	100.32	$100.3^{+3.1}_{-3.0}$	$100\theta_{\text{eq}}$	0.804	$0.80^{+0.13}_{-0.11}$	$\chi^2_{6\text{DF}}$	0.000	$0.052 (\nu: 0.0)$
Y_{P}	0.2438	$0.2443^{+0.0098}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.445	$0.442^{+0.066}_{-0.058}$	χ^2_{MGS}	1.68	$1.76 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.2456^{+0.0098}_{-0.010}$	$H(0.15)$	73.3	$73.9^{+7.3}_{-6.5}$	χ^2_{DR12BAO}	2.97	$4.0 (\nu: 1.1)$
$10^5\text{D}/\text{H}$	2.623	$2.61^{+0.25}_{-0.25}$	$D_{\text{M}}(0.15)$	638	633^{+59}_{-56}	χ^2_{BAO}	4.65	$5.8 (\nu: 1.6)$
Age/Gyr	13.71	$13.6^{+1.6}_{-1.5}$	$H(0.38)$	83.5	$84.3^{+9.2}_{-8.1}$	χ^2_{Abund}	0.01	$2.1 (\nu: 2.1)$
z_*	1090.48	$1090.6^{+3.9}_{-3.5}$	$D_{\text{M}}(0.38)$	1521	1510^{+150}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 1039.77$; $\bar{\chi}^2_{\text{eff}} = 1043.87$; $R - 1 = 0.00775$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.97 SN - JLA Pantheon18: 1035.11

7.113 base_nnu_BAO_Cooke17_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02192	$0.0220^{+0.0018}_{-0.0018}$	r_*	146.8	$146.5^{+8.4}_{-8.4}$	$H(0.51)$	88.7	$89.0^{+5.7}_{-5.2}$
$\Omega_{\text{c}}h^2$	0.1150	$0.116^{+0.015}_{-0.014}$	$100\theta_*$	1.04123	$1.0412^{+0.0017}_{-0.0017}$	$D_{\text{M}}(0.51)$	2000	1995^{+130}_{-130}
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0015}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.10	$14.07^{+0.80}_{-0.80}$	$H(0.61)$	94.2	$94.5^{+5.9}_{-5.4}$
N_{eff}	2.91	$2.94^{+0.74}_{-0.67}$	z_{drag}	1058.4	$1058.7^{+5.4}_{-5.5}$	$D_{\text{M}}(0.61)$	2328	2323^{+150}_{-150}
H_0	67.11	$67.3^{+4.8}_{-4.5}$	r_{drag}	149.7	$149.3^{+9.0}_{-9.0}$	$H(2.33)$	232.3	233^{+14}_{-13}
Ω_{Λ}	0.6945	$0.694^{+0.024}_{-0.025}$	k_{D}	0.1384	$0.1388^{+0.0082}_{-0.0076}$	$D_{\text{M}}(2.33)$	5835	5821^{+350}_{-350}
Ω_{m}	0.3055	$0.306^{+0.025}_{-0.024}$	$100\theta_{\text{D}}$	0.16101	$0.1610^{+0.0020}_{-0.0019}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1376	$0.138^{+0.017}_{-0.015}$	z_{eq}	3336	3341^{+130}_{-120}	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.0923	$0.093^{+0.018}_{-0.015}$	k_{eq}	0.01008	$0.01012^{+0.00074}_{-0.00068}$	$\chi^2_{6\text{DF}}$	0.000	$0.059 (\nu: 0.0)$
$r_{\text{drag}}h$	100.44	$100.4^{+3.2}_{-3.0}$	$100\theta_{\text{eq}}$	0.8240	$0.823^{+0.022}_{-0.021}$	χ^2_{MGS}	1.68	$1.75 (\nu: 0.3)$
Y_{P}	0.2433	$0.244^{+0.010}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4553	$0.455^{+0.012}_{-0.012}$	χ^2_{DR12BAO}	3.43	$4.4 (\nu: 1.1)$
$Y_{\text{P}}^{\text{BBN}}$	0.2446	$0.245^{+0.010}_{-0.010}$	$H(0.15)$	72.25	$72.5^{+4.9}_{-4.6}$	χ^2_{prior}	0.00	$0.98 (\nu: 1.0)$
$10^5\text{D}/\text{H}$	2.621	$2.62^{+0.24}_{-0.25}$	$D_{\text{M}}(0.15)$	646.5	645^{+44}_{-42}	χ^2_{BAO}	5.11	$6.2 (\nu: 1.1)$
Age/Gyr	13.97	$13.94^{+0.84}_{-0.82}$	$H(0.38)$	82.1	$82.4^{+5.4}_{-5.0}$	χ^2_{Abund}	0.01	$2.0 (\nu: 2.0)$
z_*	1089.91	$1089.9^{+1.7}_{-1.7}$	$D_{\text{M}}(0.38)$	1543	1540^{+100}_{-98}			

Best-fit $\chi^2_{\text{eff}} = 5.12$; $\bar{\chi}^2_{\text{eff}} = 9.22$; $R - 1 = 0.01015$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.01 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.43

7.114 base_nnu_BAO_Cooke17_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02195	$0.0220^{+0.0019}_{-0.0017}$	r_*	146.7	$146.4^{+9.2}_{-8.0}$	$H(0.51)$	88.8	$89.1^{+5.1}_{-5.3}$
$\Omega_{\text{c}}h^2$	0.1152	$0.116^{+0.015}_{-0.014}$	$100\theta_*$	1.04125	$1.0412^{+0.0016}_{-0.0017}$	$D_{\text{M}}(0.51)$	1997	1992^{+130}_{-110}
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0015}_{-0.0015}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.09	$14.06^{+0.88}_{-0.76}$	$H(0.61)$	94.3	$94.6^{+5.4}_{-5.6}$
N_{eff}	2.92	$2.95^{+0.68}_{-0.70}$	z_{drag}	1058.5	$1058.8^{+5.6}_{-5.4}$	$D_{\text{M}}(0.61)$	2324	2319^{+150}_{-130}
H_0	67.24	$67.4^{+4.3}_{-4.3}$	r_{drag}	149.5	$149.2^{+9.9}_{-8.6}$	$H(2.33)$	232.5	233^{+13}_{-14}
Ω_{Λ}	0.6954	$0.696^{+0.022}_{-0.021}$	k_{D}	0.1385	$0.1389^{+0.0078}_{-0.0080}$	$D_{\text{M}}(2.33)$	5828	5816^{+360}_{-320}
Ω_{m}	0.3046	$0.304^{+0.021}_{-0.022}$	$100\theta_{\text{D}}$	0.16103	$0.1610^{+0.0019}_{-0.0018}$	χ^2_{Aver15}	0.00	$0.96 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1378	$0.138^{+0.016}_{-0.016}$	z_{eq}	3333	3336^{+120}_{-120}	χ^2_{Cooke17}	0.00	$0.98 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.0926	$0.093^{+0.016}_{-0.016}$	k_{eq}	0.01009	$0.01011^{+0.00072}_{-0.00071}$	χ^2_{JLA}	1034.80	$1034.93 (\nu: 0.0)$
$r_{\text{drag}}h$	100.55	$100.6^{+2.9}_{-2.6}$	$100\theta_{\text{eq}}$	0.8245	$0.824^{+0.019}_{-0.018}$	$\chi^2_{6\text{DF}}$	0.000	$0.049 (\nu: 0.0)$
Y_{P}	0.2435	$0.2438^{+0.0094}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4556	$0.455^{+0.011}_{-0.010}$	χ^2_{MGS}	1.75	$1.84 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2448	$0.2451^{+0.0094}_{-0.010}$	$H(0.15)$	72.39	$72.6^{+4.4}_{-4.5}$	χ^2_{DR12BAO}	3.38	$4.1 (\nu: 0.6)$
$10^5\text{D}/\text{H}$	2.622	$2.61^{+0.24}_{-0.23}$	$D_{\text{M}}(0.15)$	645.2	644^{+43}_{-38}	χ^2_{prior}	0.00	$0.96 (\nu: 0.9)$
Age/Gyr	13.95	$13.93^{+0.87}_{-0.75}$	$H(0.38)$	82.25	$82.5^{+4.8}_{-5.0}$	χ^2_{BAO}	5.13	$6.0 (\nu: 0.8)$
z_*	1089.90	$1089.9^{+1.6}_{-1.6}$	$D_{\text{M}}(0.38)$	1540	1537^{+100}_{-89}	χ^2_{Abund}	0.00	$1.9 (\nu: 1.9)$

Best-fit $\chi^2_{\text{eff}} = 1039.94$; $\bar{\chi}^2_{\text{eff}} = 1043.87$; $R - 1 = 0.00476$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.38 SN - JLA Pantheon18: 1034.80

7.115 base_nnu_BAO_Cooke17Marc_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02179	$0.0218^{+0.0014}_{-0.0013}$	r_*	134.4	131^{+20}_{-20}	$H(0.51)$	98.8	102^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.168	$0.19^{+0.14}_{-0.10}$	$100\theta_*$	1.099	$1.110^{+0.090}_{-0.10}$	$D_{\text{M}}(0.51)$	1837	1798^{+300}_{-300}
$100\theta_{\text{MC}}$	1.099	$1.110^{+0.090}_{-0.10}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.23	$11.9^{+3.2}_{-2.8}$	$H(0.61)$	105.6	109^{+30}_{-20}
N_{eff}	2.94	$2.97^{+0.72}_{-0.66}$	z_{drag}	1061.8	$1062.9^{+9.2}_{-7.5}$	$D_{\text{M}}(0.61)$	2131	2084^{+400}_{-400}
H_0	71.4	73^{+10}_{-9}	r_{drag}	137.0	134^{+20}_{-20}	$H(2.33)$	271	283^{+90}_{-70}
Ω_{Λ}	0.626	$0.61^{+0.12}_{-0.14}$	k_{D}	0.1519	$0.156^{+0.031}_{-0.024}$	$D_{\text{M}}(2.33)$	5183	5048^{+1000}_{-1000}
Ω_{m}	0.374	$0.39^{+0.14}_{-0.12}$	$100\theta_{\text{D}}$	0.1691	$0.171^{+0.014}_{-0.014}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$0.99 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.191	$0.21^{+0.14}_{-0.10}$	z_{eq}	4604	5067^{+4000}_{-2000}	χ^2_{Aver15}	0.00	$0.97 (\nu: 0.9)$
$\Omega_{\text{m}}h^3$	0.136	$0.155^{+0.13}_{-0.088}$	k_{eq}	0.0140	$0.0154^{+0.011}_{-0.0068}$	$\chi^2_{6\text{DF}}$	0.20	$0.42 (\nu: 0.1)$
$r_{\text{drag}}h$	97.7	$97.2^{+5.3}_{-5.4}$	$100\theta_{\text{eq}}$	0.687	$0.67^{+0.24}_{-0.18}$	χ^2_{MGS}	0.67	$0.72 (\nu: 0.2)$
Y_{P}	0.2438	$0.2441^{+0.0099}_{-0.0098}$	$100\theta_{\text{s,eq}}$	0.384	$0.372^{+0.13}_{-0.098}$	χ^2_{DR12BAO}	2.11	$3.8 (\nu: 1.5)$
$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.2454^{+0.0099}_{-0.0098}$	$H(0.15)$	78.0	80^{+10}_{-10}	χ^2_{BAO}	2.98	$5.0 (\nu: 1.8)$
$10^5\text{D}/\text{H}$	2.661	$2.66^{+0.11}_{-0.11}$	$D_{\text{M}}(0.15)$	603	592^{+80}_{-90}	χ^2_{Abund}	0.00	$2.0 (\nu: 1.9)$
Age/Gyr	12.40	$12.1^{+2.7}_{-2.5}$	$H(0.38)$	90.5	93^{+20}_{-20}			
z_*	1094.6	$1095.8^{+9.9}_{-7.9}$	$D_{\text{M}}(0.38)$	1425	1396^{+200}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 2.98$; $\bar{\chi}^2_{\text{eff}} = 6.92$; $R - 1 = 0.01290$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.20 MGS: 0.67 DR12BAO: 2.11

7.116 base_nnu_BAO_Cooke17Marc_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02178	$0.0218^{+0.0015}_{-0.0014}$	r_*	145.1	144^{+14}_{-14}	$H(0.51)$	90.0	91^{+10}_{-10}
$\Omega_{\text{c}}h^2$	0.1211	$0.125^{+0.051}_{-0.040}$	$100\theta_*$	1.049	$1.052^{+0.050}_{-0.052}$	$D_{\text{M}}(0.51)$	1975	1963^{+200}_{-190}
$100\theta_{\text{MC}}$	1.049	$1.052^{+0.050}_{-0.052}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.84	$13.7^{+2.0}_{-1.8}$	$H(0.61)$	95.7	97^{+10}_{-10}
N_{eff}	2.94	$2.97^{+0.79}_{-0.68}$	z_{drag}	1058.6	$1058.9^{+6.2}_{-5.7}$	$D_{\text{M}}(0.61)$	2298	2283^{+240}_{-230}
H_0	67.8	$68.2^{+6.6}_{-5.7}$	r_{drag}	148.0	147^{+15}_{-14}	$H(2.33)$	237.1	240^{+40}_{-30}
Ω_{Λ}	0.688	$0.684^{+0.051}_{-0.054}$	k_{D}	0.1399	$0.141^{+0.015}_{-0.014}$	$D_{\text{M}}(2.33)$	5741	5698^{+700}_{-700}
Ω_{m}	0.312	$0.316^{+0.054}_{-0.051}$	$100\theta_{\text{D}}$	0.1623	$0.1628^{+0.0067}_{-0.0071}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1435	$0.148^{+0.052}_{-0.040}$	z_{eq}	3465	3547^{+1000}_{-900}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.0973	$0.101^{+0.047}_{-0.033}$	k_{eq}	0.01050	$0.0108^{+0.0035}_{-0.0028}$	χ^2_{JLA}	1035.10	$1036.1 (\nu: 1.6)$
$r_{\text{drag}}h$	100.33	$100.2^{+3.0}_{-3.1}$	$100\theta_{\text{eq}}$	0.807	$0.80^{+0.13}_{-0.11}$	$\chi^2_{6\text{DF}}$	0.000	$0.053 (\nu: 0.0)$
Y_{P}	0.2437	$0.244^{+0.011}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.446	$0.443^{+0.068}_{-0.060}$	χ^2_{MGS}	1.68	$1.73 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.245^{+0.011}_{-0.010}$	$H(0.15)$	73.1	$73.6^{+7.7}_{-6.7}$	χ^2_{DR12BAO}	2.98	$3.9 (\nu: 1.2)$
$10^5\text{D}/\text{H}$	2.661	$2.66^{+0.11}_{-0.11}$	$D_{\text{M}}(0.15)$	639	636^{+60}_{-59}	χ^2_{BAO}	4.66	$5.7 (\nu: 1.6)$
Age/Gyr	13.74	$13.6^{+1.8}_{-1.6}$	$H(0.38)$	83.3	84^{+10}_{-8}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.1)$
z_*	1090.67	$1090.9^{+3.7}_{-3.5}$	$D_{\text{M}}(0.38)$	1525	1516^{+150}_{-150}			

Best-fit $\chi^2_{\text{eff}} = 1039.76$; $\bar{\chi}^2_{\text{eff}} = 1043.83$; $R - 1 = 0.00422$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.98 SN - JLA Pantheon18: 1035.10

7.117 base_nnu_BAO_Cooke17Marc_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02172	$0.0218^{+0.0014}_{-0.0013}$	r_*	146.9	$146.5^{+8.6}_{-8.5}$	$H(0.51)$	88.6	$88.9^{+5.7}_{-5.1}$
$\Omega_{\text{c}}h^2$	0.1150	$0.116^{+0.016}_{-0.014}$	$100\theta_*$	1.04128	$1.0412^{+0.0017}_{-0.0017}$	$D_{\text{M}}(0.51)$	2003	1998^{+130}_{-130}
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.11	$14.07^{+0.81}_{-0.82}$	$H(0.61)$	94.1	$94.4^{+5.9}_{-5.3}$
N_{eff}	2.91	$2.95^{+0.75}_{-0.66}$	z_{drag}	1057.95	$1058.2^{+5.1}_{-4.7}$	$D_{\text{M}}(0.61)$	2331	2326^{+150}_{-150}
H_0	67.01	$67.2^{+4.9}_{-4.3}$	r_{drag}	149.9	$149.4^{+9.3}_{-9.1}$	$H(2.33)$	232.2	233^{+14}_{-13}
Ω_{Λ}	0.6940	$0.693^{+0.023}_{-0.025}$	k_{D}	0.1380	$0.1385^{+0.0082}_{-0.0075}$	$D_{\text{M}}(2.33)$	5841	5826^{+340}_{-340}
Ω_{m}	0.3060	$0.307^{+0.025}_{-0.023}$	$100\theta_{\text{D}}$	0.16131	$0.16133^{+0.00093}_{-0.0010}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1374	$0.138^{+0.017}_{-0.016}$	z_{eq}	3329	3335^{+130}_{-120}	χ^2_{Aver15}	0.01	$0.98 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.0921	$0.093^{+0.018}_{-0.015}$	k_{eq}	0.01007	$0.01011^{+0.00077}_{-0.00071}$	$\chi^2_{6\text{DF}}$	0.000	$0.061 (\nu: 0.0)$
$r_{\text{drag}}h$	100.43	$100.3^{+3.1}_{-3.1}$	$100\theta_{\text{eq}}$	0.8248	$0.824^{+0.021}_{-0.020}$	χ^2_{MGS}	1.68	$1.71 (\nu: 0.3)$
Y_{P}	0.2433	$0.244^{+0.010}_{-0.0099}$	$100\theta_{\text{s,eq}}$	0.4559	$0.455^{+0.011}_{-0.011}$	χ^2_{DR12BAO}	3.40	$4.4 (\nu: 1.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2446	$0.245^{+0.010}_{-0.0099}$	$H(0.15)$	72.16	$72.4^{+5.0}_{-4.4}$	χ^2_{prior}	0.00	$0.98 (\nu: 1.1)$
$10^5\text{D}/\text{H}$	2.661	$2.66^{+0.10}_{-0.11}$	$D_{\text{M}}(0.15)$	647.3	646^{+43}_{-43}	χ^2_{BAO}	5.08	$6.2 (\nu: 1.2)$
Age/Gyr	13.98	$13.95^{+0.82}_{-0.81}$	$H(0.38)$	82.0	$82.3^{+5.4}_{-4.8}$	χ^2_{Abund}	0.01	$2.0 (\nu: 2.0)$
z_*	1090.17	$1090.20^{+0.90}_{-0.89}$	$D_{\text{M}}(0.38)$	1545	1542^{+98}_{-100}			

Best-fit $\chi^2_{\text{eff}} = 5.09$; $\bar{\chi}^2_{\text{eff}} = 9.16$; $R - 1 = 0.00593$
 χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.01 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.40

7.118 base_nnu_BAO_Cooke17Marc_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02177	$0.0218^{+0.0014}_{-0.0013}$	r_*	146.6	$146.5^{+8.9}_{-8.2}$	$H(0.51)$	88.8	$88.9^{+5.5}_{-5.2}$
$\Omega_{\text{c}}h^2$	0.1155	$0.116^{+0.015}_{-0.014}$	$100\theta_*$	1.04122	$1.0412^{+0.0017}_{-0.0017}$	$D_{\text{M}}(0.51)$	1998	1996^{+130}_{-120}
$100\theta_{\text{MC}}$	1.04089	$1.0409^{+0.0015}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.08	$14.07^{+0.85}_{-0.78}$	$H(0.61)$	94.3	$94.4^{+5.8}_{-5.5}$
N_{eff}	2.94	$2.95^{+0.73}_{-0.69}$	z_{drag}	1058.10	$1058.2^{+4.8}_{-4.7}$	$D_{\text{M}}(0.61)$	2326	2323^{+140}_{-140}
H_0	67.16	$67.3^{+4.5}_{-4.3}$	r_{drag}	149.5	$149.4^{+9.5}_{-8.7}$	$H(2.33)$	232.6	233^{+14}_{-13}
Ω_{Λ}	0.6941	$0.695^{+0.022}_{-0.021}$	k_{D}	0.1383	$0.1385^{+0.0077}_{-0.0077}$	$D_{\text{M}}(2.33)$	5829	5823^{+350}_{-330}
Ω_{m}	0.3059	$0.305^{+0.021}_{-0.022}$	$100\theta_{\text{D}}$	0.16133	$0.16133^{+0.00094}_{-0.0010}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$0.98 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1380	$0.138^{+0.017}_{-0.016}$	z_{eq}	3330	3331^{+110}_{-120}	χ^2_{Aver15}	0.00	$0.99 (\nu: 0.9)$
$\Omega_{\text{m}}h^3$	0.0927	$0.093^{+0.017}_{-0.015}$	k_{eq}	0.01009	$0.01010^{+0.00073}_{-0.00071}$	χ^2_{JLA}	1034.83	$1034.96 (\nu: 0.0)$
$r_{\text{drag}}h$	100.43	$100.5^{+2.9}_{-2.6}$	$100\theta_{\text{eq}}$	0.8246	$0.825^{+0.020}_{-0.017}$	$\chi^2_{6\text{DF}}$	0.000	$0.050 (\nu: 0.0)$
Y_{P}	0.2436	$0.244^{+0.010}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4557	$0.456^{+0.011}_{-0.0097}$	χ^2_{MGS}	1.68	$1.79 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.245^{+0.010}_{-0.010}$	$H(0.15)$	72.32	$72.5^{+4.8}_{-4.4}$	χ^2_{DR12BAO}	3.41	$4.2 (\nu: 0.7)$
$10^5\text{D}/\text{H}$	2.662	$2.66^{+0.11}_{-0.12}$	$D_{\text{M}}(0.15)$	645.9	645^{+42}_{-41}	χ^2_{prior}	0.00	$1.0 (\nu: 1.0)$
Age/Gyr	13.96	$13.94^{+0.84}_{-0.80}$	$H(0.38)$	82.2	$82.4^{+5.2}_{-4.8}$	χ^2_{BAO}	5.09	$6.0 (\nu: 0.8)$
z_*	1090.19	$1090.17^{+0.83}_{-0.91}$	$D_{\text{M}}(0.38)$	1542	1540^{+98}_{-95}	χ^2_{Abund}	0.00	$2.0 (\nu: 1.9)$

Best-fit $\chi^2_{\text{eff}} = 1039.92$; $\bar{\chi}^2_{\text{eff}} = 1043.97$; $R - 1 = 0.00670$
 χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.41 SN - JLA Pantheon18: 1034.83

7.119 base_nnu_BAO_Cooke17Adel_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02246	$0.0225^{+0.0017}_{-0.0016}$	r_*	136.5	131^{+20}_{-20}	$H(0.51)$	96.8	103^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.156	$0.191^{+0.15}_{-0.097}$	$100\theta_*$	1.087	$1.112^{+0.087}_{-0.095}$	$D_{\text{M}}(0.51)$	1864	1784^{+300}_{-300}
$100\theta_{\text{MC}}$	1.087	$1.112^{+0.086}_{-0.095}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.56	$11.8^{+3.3}_{-2.6}$	$H(0.61)$	103.4	110^{+30}_{-20}
N_{eff}	2.92	$2.95^{+0.74}_{-0.71}$	z_{drag}	1062.5	$1064.6^{+9.5}_{-8.5}$	$D_{\text{M}}(0.61)$	2164	2068^{+400}_{-300}
H_0	70.7	73^{+10}_{-10}	r_{drag}	139.0	133^{+20}_{-20}	$H(2.33)$	264	285^{+90}_{-70}
Ω_{Λ}	0.641	$0.61^{+0.11}_{-0.14}$	k_{D}	0.1504	$0.158^{+0.031}_{-0.026}$	$D_{\text{M}}(2.33)$	5296	5009^{+1000}_{-1000}
Ω_{m}	0.359	$0.39^{+0.14}_{-0.11}$	$100\theta_{\text{D}}$	0.1664	$0.170^{+0.013}_{-0.013}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.179	$0.214^{+0.15}_{-0.097}$	z_{eq}	4342	5170^{+4000}_{-2000}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.127	$0.159^{+0.14}_{-0.089}$	k_{eq}	0.0131	$0.0157^{+0.011}_{-0.0069}$	$\chi^2_{6\text{DF}}$	0.14	$0.42 (\nu: 0.1)$
$r_{\text{drag}}h$	98.3	$97.2^{+5.2}_{-5.3}$	$100\theta_{\text{eq}}$	0.710	$0.66^{+0.23}_{-0.18}$	χ^2_{MGS}	0.82	$0.72 (\nu: 0.2)$
Y_{P}	0.2437	$0.244^{+0.010}_{-0.011}$	$100\theta_{\text{s,eq}}$	0.396	$0.368^{+0.12}_{-0.095}$	χ^2_{DR12BAO}	2.18	$3.9 (\nu: 1.5)$
$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.245^{+0.010}_{-0.011}$	$H(0.15)$	77.0	81^{+10}_{-10}	χ^2_{BAO}	3.14	$5.0 (\nu: 1.8)$
$10^5\text{D}/\text{H}$	2.526	$2.52^{+0.17}_{-0.18}$	$D_{\text{M}}(0.15)$	610	587^{+100}_{-90}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.1)$
Age/Gyr	12.67	$12.0^{+2.9}_{-2.4}$	$H(0.38)$	89.0	94^{+20}_{-20}			
z_*	1092.7	$1095.0^{+9.1}_{-7.3}$	$D_{\text{M}}(0.38)$	1444	1385^{+200}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 3.14$; $\bar{\chi}^2_{\text{eff}} = 7.04$; $R - 1 = 0.00760$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.14 MGS: 0.82 DR12BAO: 2.18

7.120 base_nnu_BAO_Cooke17Adel_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02245	$0.0225^{+0.0017}_{-0.0015}$	r_*	144.4	144^{+12}_{-13}	$H(0.51)$	90.6	91^{+10}_{-9}
$\Omega_{\text{c}}h^2$	0.1223	$0.125^{+0.045}_{-0.037}$	$100\theta_*$	1.0505	$1.052^{+0.045}_{-0.050}$	$D_{\text{M}}(0.51)$	1962	1954^{+170}_{-190}
$100\theta_{\text{MC}}$	1.0503	$1.052^{+0.046}_{-0.050}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.75	$13.7^{+1.9}_{-1.7}$	$H(0.61)$	96.3	97^{+10}_{-10}
N_{eff}	2.92	$2.94^{+0.75}_{-0.67}$	z_{drag}	1060.2	$1060.5^{+6.2}_{-5.3}$	$D_{\text{M}}(0.61)$	2283	2274^{+200}_{-220}
H_0	68.2	$68.6^{+6.5}_{-5.2}$	r_{drag}	147.0	147^{+13}_{-13}	$H(2.33)$	238.6	240^{+30}_{-30}
Ω_{Λ}	0.6877	$0.686^{+0.051}_{-0.048}$	k_{D}	0.1415	$0.142^{+0.014}_{-0.012}$	$D_{\text{M}}(2.33)$	5704	5680^{+700}_{-600}
Ω_{m}	0.3123	$0.314^{+0.048}_{-0.051}$	$100\theta_{\text{D}}$	0.1615	$0.1617^{+0.0063}_{-0.0067}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$0.96 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1454	$0.148^{+0.046}_{-0.038}$	z_{eq}	3521	3570^{+1000}_{-800}	χ^2_{Aver15}	0.00	$0.97 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.0992	$0.102^{+0.043}_{-0.031}$	k_{eq}	0.01065	$0.0108^{+0.0031}_{-0.0026}$	χ^2_{JLA}	1035.10	$1035.9 (\nu: 1.1)$
$r_{\text{drag}}h$	100.33	$100.3^{+3.0}_{-2.9}$	$100\theta_{\text{eq}}$	0.800	$0.80^{+0.13}_{-0.10}$	$\chi^2_{6\text{DF}}$	0.000	$0.049 (\nu: 0.0)$
Y_{P}	0.2437	$0.244^{+0.010}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.443	$0.441^{+0.065}_{-0.053}$	χ^2_{MGS}	1.68	$1.77 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.245^{+0.010}_{-0.010}$	$H(0.15)$	73.6	$74.0^{+7.4}_{-5.9}$	χ^2_{DR12BAO}	2.98	$3.9 (\nu: 1.1)$
$10^5\text{D}/\text{H}$	2.526	$2.52^{+0.16}_{-0.17}$	$D_{\text{M}}(0.15)$	635	633^{+52}_{-57}	χ^2_{BAO}	4.66	$5.8 (\nu: 1.5)$
Age/Gyr	13.66	$13.6^{+1.6}_{-1.5}$	$H(0.38)$	83.8	$84.3^{+9.2}_{-7.4}$	χ^2_{Abund}	0.00	$1.9 (\nu: 1.9)$
z_*	1089.90	$1090.0^{+3.3}_{-3.4}$	$D_{\text{M}}(0.38)$	1515	1509^{+130}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 1039.76$; $\bar{\chi}^2_{\text{eff}} = 1043.57$; $R - 1 = 0.00588$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.98 SN - JLA Pantheon18: 1035.10

7.121 base_nnu_BAO_Cooke17Adel_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02242	$0.0225^{+0.0017}_{-0.0015}$	r_*	146.4	$146.1^{+9.4}_{-8.9}$	$H(0.51)$	89.0	$89.2^{+6.0}_{-5.5}$
$\Omega_{\text{c}}h^2$	0.1152	$0.116^{+0.017}_{-0.015}$	$100\theta_*$	1.04121	$1.0411^{+0.0018}_{-0.0018}$	$D_{\text{M}}(0.51)$	1992	1988^{+130}_{-130}
$100\theta_{\text{MC}}$	1.04094	$1.0409^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.06	$14.03^{+0.89}_{-0.85}$	$H(0.61)$	94.5	$94.8^{+6.3}_{-5.8}$
N_{eff}	2.90	$2.93^{+0.78}_{-0.73}$	z_{drag}	1059.6	$1059.8^{+5.5}_{-5.1}$	$D_{\text{M}}(0.61)$	2319	2315^{+150}_{-150}
H_0	67.39	$67.6^{+5.0}_{-4.6}$	r_{drag}	149.1	$149^{+10}_{-9.5}$	$H(2.33)$	233.0	234^{+15}_{-14}
Ω_{Λ}	0.6954	$0.695^{+0.022}_{-0.024}$	k_{D}	0.1394	$0.1398^{+0.0086}_{-0.0079}$	$D_{\text{M}}(2.33)$	5815	5804^{+370}_{-360}
Ω_{m}	0.3046	$0.305^{+0.024}_{-0.022}$	$100\theta_{\text{D}}$	0.16029	$0.1603^{+0.0014}_{-0.0014}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$0.99 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1383	$0.139^{+0.018}_{-0.016}$	z_{eq}	3355	3358^{+120}_{-120}	χ^2_{Aver15}	0.00	$1.1 (\nu: 1.2)$
$\Omega_{\text{m}}h^3$	0.0932	$0.094^{+0.019}_{-0.016}$	k_{eq}	0.01014	$0.01017^{+0.00079}_{-0.00071}$	$\chi^2_{6\text{DF}}$	0.000	$0.056 (\nu: 0.0)$
$r_{\text{drag}}h$	100.45	$100.5^{+3.0}_{-2.9}$	$100\theta_{\text{eq}}$	0.8219	$0.822^{+0.020}_{-0.019}$	χ^2_{MGS}	1.68	$1.76 (\nu: 0.3)$
Y_{P}	0.2435	$0.244^{+0.011}_{-0.011}$	$100\theta_{\text{s,eq}}$	0.4538	$0.454^{+0.011}_{-0.010}$	χ^2_{DR12BAO}	3.51	$4.4 (\nu: 1.0)$
$Y_{\text{P}}^{\text{BBN}}$	0.2448	$0.245^{+0.011}_{-0.011}$	$H(0.15)$	72.54	$72.7^{+5.2}_{-4.7}$	χ^2_{prior}	0.00	$1.0 (\nu: 1.2)$
$10^5\text{D}/\text{H}$	2.526	$2.52^{+0.17}_{-0.18}$	$D_{\text{M}}(0.15)$	643.8	643^{+45}_{-44}	χ^2_{BAO}	5.19	$6.2 (\nu: 1.0)$
Age/Gyr	13.92	$13.90^{+0.89}_{-0.86}$	$H(0.38)$	82.4	$82.6^{+5.6}_{-5.1}$	χ^2_{Abund}	0.00	$2.1 (\nu: 2.1)$
z_*	1089.30	$1089.3^{+1.2}_{-1.3}$	$D_{\text{M}}(0.38)$	1537	1534^{+100}_{-100}			

Best-fit $\chi^2_{\text{eff}} = 5.19$; $\bar{\chi}^2_{\text{eff}} = 9.33$; $R - 1 = 0.00415$
 χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.51

7.122 base_nnu_BAO_Cooke17Adel_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02241	$0.0225^{+0.0017}_{-0.0016}$	r_*	146.6	$146.0^{+9.2}_{-8.5}$	$H(0.51)$	88.9	$89.3^{+5.7}_{-5.5}$
$\Omega_{\text{c}}h^2$	0.1148	$0.116^{+0.016}_{-0.015}$	$100\theta_*$	1.04119	$1.0411^{+0.0017}_{-0.0016}$	$D_{\text{M}}(0.51)$	1993	1986^{+130}_{-120}
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.08	$14.03^{+0.88}_{-0.82}$	$H(0.61)$	94.4	$94.8^{+5.9}_{-5.8}$
N_{eff}	2.89	$2.94^{+0.77}_{-0.70}$	z_{drag}	1059.5	$1059.9^{+5.3}_{-5.3}$	$D_{\text{M}}(0.61)$	2320	2313^{+150}_{-140}
H_0	67.38	$67.6^{+4.6}_{-4.4}$	r_{drag}	149.2	$148.7^{+9.9}_{-9.0}$	$H(2.33)$	232.6	234^{+14}_{-14}
Ω_{Λ}	0.6963	$0.696^{+0.020}_{-0.021}$	k_{D}	0.1393	$0.1398^{+0.0083}_{-0.0081}$	$D_{\text{M}}(2.33)$	5821	5801^{+370}_{-340}
Ω_{m}	0.3037	$0.304^{+0.021}_{-0.020}$	$100\theta_{\text{D}}$	0.16027	$0.1603^{+0.0013}_{-0.0014}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$0.98 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1379	$0.139^{+0.018}_{-0.016}$	z_{eq}	3350	3357^{+120}_{-120}	χ^2_{Aver15}	0.01	$0.99 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.0929	$0.094^{+0.018}_{-0.016}$	k_{eq}	0.01012	$0.01017^{+0.00077}_{-0.00074}$	χ^2_{JLA}	1034.78	$1034.92 (\nu: 0.0)$
$r_{\text{drag}}h$	100.56	$100.5^{+2.8}_{-2.6}$	$100\theta_{\text{eq}}$	0.8227	$0.822^{+0.020}_{-0.019}$	$\chi^2_{6\text{DF}}$	0.000	$0.047 (\nu: 0.0)$
Y_{P}	0.2433	$0.244^{+0.010}_{-0.011}$	$100\theta_{\text{s,eq}}$	0.4543	$0.454^{+0.011}_{-0.010}$	χ^2_{MGS}	1.75	$1.80 (\nu: 0.2)$
$Y_{\text{P}}^{\text{BBN}}$	0.2446	$0.245^{+0.010}_{-0.011}$	$H(0.15)$	72.52	$72.8^{+4.8}_{-4.6}$	χ^2_{DR12BAO}	3.45	$4.2 (\nu: 0.7)$
$10^5\text{D}/\text{H}$	2.525	$2.52^{+0.17}_{-0.17}$	$D_{\text{M}}(0.15)$	644.0	642^{+44}_{-41}	χ^2_{prior}	0.00	$0.99 (\nu: 0.9)$
Age/Gyr	13.94	$13.89^{+0.89}_{-0.82}$	$H(0.38)$	82.4	$82.7^{+5.3}_{-5.2}$	χ^2_{BAO}	5.20	$6.1 (\nu: 0.7)$
z_*	1089.27	$1089.3^{+1.2}_{-1.2}$	$D_{\text{M}}(0.38)$	1538	1533^{+100}_{-95}	χ^2_{Abund}	0.01	$2.0 (\nu: 2.0)$

Best-fit $\chi^2_{\text{eff}} = 1039.99$; $\bar{\chi}^2_{\text{eff}} = 1043.96$; $R - 1 = 0.00918$
 χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.01 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.45 SN - JLA Pantheon18: 1034.78

8 nnu+meffsterile

8.1 base_nnu_meffsterile_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02223^{+0.00065}_{-0.00058}$	S_8	0.837	$0.816^{+0.069}_{-0.082}$	$100\theta_{s,eq}$	0.4490	$0.455^{+0.033}_{-0.014}$
$\Omega_c h^2$	0.1203	$0.1215^{+0.0093}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	0.4587	$0.447^{+0.038}_{-0.045}$	$H(0.15)$	72.33	$72.5^{+4.5}_{-2.6}$
$100\theta_{MC}$	1.04072	$1.0405^{+0.0013}_{-0.0014}$	$\sigma_8 \Omega_m^{0.25}$	0.610	$0.591^{+0.042}_{-0.062}$	$D_M(0.15)$	646.8	646^{+28}_{-41}
τ	0.0529	$0.053^{+0.022}_{-0.021}$	$\sigma_8/h^{0.5}$	0.992	$0.953^{+0.064}_{-0.10}$	$H(0.38)$	82.57	$83.0^{+4.2}_{-1.9}$
$m_{\nu, sterile}^{eff} [eV]$	0.01	< 1.26	$r_{drag} h$	98.6	$97.5^{+5.6}_{-5.9}$	$D_M(0.38)$	1541	1537^{+54}_{-88}
N_{eff}	3.046	< 3.67	$\langle d^2 \rangle^{1/2}$	2.451	$2.45^{+0.11}_{-0.11}$	$H(0.51)$	89.36	$90.0^{+4.0}_{-1.6}$
$\ln(10^{10} A_s)$	3.0415	$3.047^{+0.049}_{-0.046}$	z_{re}	7.59	$7.6^{+2.2}_{-2.4}$	$D_M(0.51)$	1995	1988^{+63}_{-110}
n_s	0.9637	$0.966^{+0.027}_{-0.020}$	$10^9 A_s$	2.094	$2.11^{+0.11}_{-0.094}$	$H(0.61)$	95.04	$95.8^{+3.5}_{-1.6}$
y_{cal}	1.0003	$1.0005^{+0.0067}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	1.8833	$1.895^{+0.044}_{-0.040}$	$D_M(0.61)$	2320	2311^{+68}_{-120}
A_{217}^{CIB}	48.9	49^{+20}_{-20}	D_{40}	1231.0	1228^{+47}_{-50}	$H(2.33)$	236.6	$239.8^{+7.9}_{-5.1}$
$\xi^{tSZ \times CIB}$	0.30	—	D_{220}	5712	5712^{+110}_{-100}	$D_M(2.33)$	5776	5729^{+87}_{-190}
A_{143}^{tSZ}	7.0	—	D_{810}	2537.4	2539^{+37}_{-36}	$f\sigma_8(0.15)$	0.4626	$0.451^{+0.036}_{-0.045}$
A_{100}^{PS}	254	269^{+70}_{-70}	D_{1420}	815.1	813^{+14}_{-13}	$\sigma_8(0.15)$	0.749	$0.719^{+0.053}_{-0.090}$
A_{143}^{PS}	49.4	52^{+20}_{-20}	D_{2000}	230.0	$228.2^{+5.1}_{-5.2}$	$f\sigma_8(0.38)$	0.4792	$0.465^{+0.033}_{-0.048}$
$A_{143 \times 217}^{PS}$	46.5	45^{+20}_{-20}	$n_{s,0.002}$	0.9637	$0.966^{+0.027}_{-0.020}$	$\sigma_8(0.38)$	0.663	$0.636^{+0.048}_{-0.082}$
A_{217}^{PS}	119.0	116^{+30}_{-30}	Y_P	0.24531	$0.2477^{+0.0059}_{-0.0026}$	$f\sigma_8(0.51)$	0.4769	$0.461^{+0.032}_{-0.049}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.24664	$0.2490^{+0.0059}_{-0.0026}$	$\sigma_8(0.51)$	0.620	$0.595^{+0.046}_{-0.078}$
A_{100}^{dustTT}	8.78	$9.0^{+4.7}_{-4.8}$	$10^5 D/H$	2.625	$2.67^{+0.15}_{-0.12}$	$f\sigma_8(0.61)$	0.4712	$0.455^{+0.031}_{-0.050}$
A_{143}^{dustTT}	10.77	$10.8^{+4.6}_{-4.7}$	Age/Gyr	13.826	$13.71^{+0.20}_{-0.45}$	$\sigma_8(0.61)$	0.590	$0.565^{+0.045}_{-0.074}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.4^{+8.5}_{-8.4}$	z_*	1090.22	$1090.6^{+1.3}_{-1.1}$	$f\sigma_8(2.33)$	0.2972	$0.285^{+0.023}_{-0.038}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	r_*	144.48	$142.8^{+2.4}_{-4.3}$	$\sigma_8(2.33)$	0.3060	$0.293^{+0.026}_{-0.040}$
c_{100}	0.99962	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04093	$1.0406^{+0.0013}_{-0.0015}$	f_{2000}^{143}	30.4	33^{+8}_{-8}
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	13.880	$13.72^{+0.24}_{-0.37}$	$f_{2000}^{143 \times 217}$	33.2	35^{+6}_{-6}
H_0	66.97	$67.0^{+4.8}_{-3.2}$	z_{drag}	1059.47	$1060.0^{+2.0}_{-1.5}$	f_{2000}^{217}	107.6	$109.5^{+5.7}_{-5.2}$
Ω_Λ	0.6806	$0.671^{+0.044}_{-0.053}$	r_{drag}	147.21	$145.5^{+2.6}_{-4.2}$	χ_{small}^2	395.94	$397.0 (\nu: 1.6)$
Ω_m	0.3194	$0.329^{+0.053}_{-0.044}$	k_D	0.14058	$0.1419^{+0.0034}_{-0.0022}$	χ_{lowl}^2	23.58	$23.5 (\nu: 1.2)$
$\Omega_m h^2$	0.1432	$0.147^{+0.011}_{-0.0074}$	$100\theta_D$	0.16101	$0.1614^{+0.0013}_{-0.00084}$	χ_{plik}^2	758.8	$774.5 (\nu: 17.4)$
$\Omega_\nu h^2$	0.0008	$0.0037^{+0.010}_{-0.0032}$	z_{eq}	3405	3355^{+140}_{-280}	χ_{prior}^2	1.4	$7.4 (\nu: 6.9)$
$\Omega_m h^3$	0.0959	$0.0988^{+0.0095}_{-0.0039}$	k_{eq}	0.01039	$0.01039^{+0.00046}_{-0.00075}$	χ_{CMB}^2	1178.3	$1195.0 (\nu: 17.6)$
σ_8	0.812	$0.780^{+0.056}_{-0.094}$	$100\theta_{eq}$	0.8122	$0.823^{+0.063}_{-0.028}$			

Best-fit $\chi_{eff}^2 = 1179.66$; $\bar{\chi}_{eff}^2 = 1202.36$; $R - 1 = 0.01778$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.94 commander_dx12_v3.2_29: 23.58 plik_rd12_HM_v22_TT: 758.77

8.2 base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02221^{+0.00058}_{-0.00056}$	S_8	0.831	$0.819^{+0.049}_{-0.066}$	$100\theta_{s,eq}$	0.4600	$0.454^{+0.031}_{-0.011}$
$\Omega_c h^2$	0.1160	$0.1216^{+0.0090}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	0.4552	$0.448^{+0.027}_{-0.036}$	$H(0.15)$	72.55	$72.4^{+4.1}_{-2.2}$
$100\theta_{MC}$	1.04082	$1.0405^{+0.0013}_{-0.0013}$	$\sigma_8 \Omega_m^{0.25}$	0.6073	$0.592^{+0.032}_{-0.051}$	$D_M(0.15)$	644.5	647^{+23}_{-37}
τ	0.0541	$0.053^{+0.022}_{-0.020}$	$\sigma_8/h^{0.5}$	0.988	$0.955^{+0.054}_{-0.080}$	$H(0.38)$	82.74	$82.9^{+3.8}_{-1.6}$
$m_{\nu, sterile}^{eff} [eV]$	0.36	< 1.16	$r_{drag} h$	99.0	$97.3^{+4.7}_{-5.3}$	$D_M(0.38)$	1536	1539^{+45}_{-81}
N_{eff}	3.047	< 3.62	$\langle d^2 \rangle^{1/2}$	2.444	$2.453^{+0.074}_{-0.075}$	$H(0.51)$	89.49	$89.8^{+3.2}_{-1.5}$
$\ln(10^{10} A_s)$	3.0425	$3.048^{+0.046}_{-0.041}$	z_{re}	7.70	$7.6^{+2.1}_{-2.2}$	$D_M(0.51)$	1989	1991^{+52}_{-100}
n_s	0.9653	$0.965^{+0.023}_{-0.017}$	$10^9 A_s$	2.096	$2.107^{+0.098}_{-0.086}$	$H(0.61)$	95.14	$95.7^{+3.1}_{-1.4}$
y_{cal}	1.0002	$1.0005^{+0.0066}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8808	$1.895^{+0.041}_{-0.034}$	$D_M(0.61)$	2314	2315^{+55}_{-110}
A_{217}^{CIB}	48.4	49^{+20}_{-20}	D_{40}	1227.7	1230^{+40}_{-41}	$H(2.33)$	236.3	$239.7^{+7.1}_{-4.9}$
$\xi^{tSZ \times CIB}$	0.34	—	D_{220}	5713	5714^{+110}_{-100}	$D_M(2.33)$	5771	5735^{+76}_{-170}
A_{143}^{tSZ}	7.0	—	D_{810}	2536.9	2539^{+35}_{-36}	$f\sigma_8(0.15)$	0.4595	$0.452^{+0.026}_{-0.037}$
A_{100}^{PS}	253	269^{+70}_{-70}	D_{1420}	815.6	813^{+14}_{-13}	$\sigma_8(0.15)$	0.748	$0.720^{+0.048}_{-0.074}$
A_{143}^{PS}	49.0	52^{+20}_{-20}	D_{2000}	230.2	$228.3^{+5.1}_{-5.2}$	$f\sigma_8(0.38)$	0.4768	$0.465^{+0.025}_{-0.040}$
$A_{143 \times 217}^{PS}$	47.0	45^{+20}_{-20}	$n_{s,0.002}$	0.9653	$0.965^{+0.023}_{-0.017}$	$\sigma_8(0.38)$	0.663	$0.636^{+0.046}_{-0.068}$
A_{217}^{PS}	119.3	116^{+30}_{-30}	Y_P	0.24535	$0.2475^{+0.0054}_{-0.0024}$	$f\sigma_8(0.51)$	0.4749	$0.462^{+0.026}_{-0.041}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.24667	$0.2488^{+0.0054}_{-0.0024}$	$\sigma_8(0.51)$	0.620	$0.595^{+0.044}_{-0.064}$
A_{100}^{dustTT}	8.90	$9.0^{+4.7}_{-4.9}$	$10^5 D/H$	2.616	$2.67^{+0.15}_{-0.12}$	$f\sigma_8(0.61)$	0.4696	$0.456^{+0.026}_{-0.042}$
A_{143}^{dustTT}	10.87	$10.8^{+4.5}_{-4.8}$	Age/Gyr	13.816	$13.73^{+0.18}_{-0.40}$	$\sigma_8(0.61)$	0.590	$0.565^{+0.042}_{-0.062}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.4^{+8.4}_{-8.3}$	z_*	1090.11	$1090.6^{+1.3}_{-1.1}$	$f\sigma_8(2.33)$	0.2972	$0.285^{+0.022}_{-0.032}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	r_*	144.58	$142.9^{+2.3}_{-3.8}$	$\sigma_8(2.33)$	0.3062	$0.293^{+0.024}_{-0.034}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0015}$	$100\theta_*$	1.04102	$1.0406^{+0.0013}_{-0.0014}$	f_{2000}^{143}	30.0	33^{+8}_{-8}
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	13.888	$13.73^{+0.22}_{-0.35}$	$f_{2000}^{143 \times 217}$	32.9	35^{+6}_{-6}
H_0	67.23	$66.8^{+4.4}_{-2.6}$	z_{drag}	1059.55	$1060.0^{+1.9}_{-1.4}$	f_{2000}^{217}	107.4	$109.5^{+5.6}_{-5.1}$
Ω_Λ	0.6842	$0.670^{+0.037}_{-0.048}$	r_{drag}	147.30	$145.5^{+2.4}_{-3.9}$	$\chi^2_{lensing}$	8.88	$9.27 (\nu: 0.4)$
Ω_m	0.3158	$0.330^{+0.048}_{-0.037}$	k_D	0.14052	$0.1419^{+0.0033}_{-0.0020}$	χ^2_{small}	396	$502 (\nu: 14302.6)$
$\Omega_m h^2$	0.1427	$0.147^{+0.011}_{-0.0065}$	$100\theta_D$	0.16097	$0.1613^{+0.0012}_{-0.00082}$	χ^2_{lowl}	23.29	$23.6 (\nu: 0.9)$
$\Omega_\nu h^2$	0.0045	$0.0037^{+0.0097}_{-0.0032}$	z_{eq}	3303	3362^{+110}_{-260}	χ^2_{plik}	759	$668 (\nu: 14315.7)$
$\Omega_m h^3$	0.0960	$0.0985^{+0.0081}_{-0.0036}$	k_{eq}	0.01015	$0.01041^{+0.00041}_{-0.00070}$	χ^2_{prior}	1.3	$7.3 (\nu: 6.8)$
σ_8	0.810	$0.781^{+0.050}_{-0.079}$	$100\theta_{eq}$	0.8333	$0.822^{+0.059}_{-0.022}$	χ^2_{CMB}	1187.2	$1203.6 (\nu: 17.4)$

Best-fit $\chi^2_{eff} = 1188.51$; $\bar{\chi}^2_{eff} = 1210.94$; $R - 1 = 0.01963$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.88 simall_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3.2.29: 23.29 plik_rd12_HM.v22.TT: 758.94

8.3 base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02223^{+0.00065}_{-0.00057}$	S_8	$0.817^{+0.069}_{-0.081}$	$100\theta_{s,eq}$	$0.455^{+0.034}_{-0.014}$
$\Omega_c h^2$	$0.1215^{+0.0093}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.038}_{-0.044}$	$H(0.15)$	$72.6^{+4.5}_{-2.7}$
$100\theta_{MC}$	$1.0405^{+0.0013}_{-0.0014}$	$\sigma_8 \Omega_m^{0.25}$	$0.591^{+0.042}_{-0.062}$	$D_M(0.15)$	646^{+28}_{-41}
τ	$0.054^{+0.020}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.954^{+0.064}_{-0.10}$	$H(0.38)$	$83.1^{+4.2}_{-1.9}$
$m_{\nu, sterile}^{eff} [eV]$	< 1.26	$r_{drag} h$	$97.5^{+5.6}_{-5.9}$	$D_M(0.38)$	1536^{+55}_{-88}
N_{eff}	< 3.68	$\langle d^2 \rangle^{1/2}$	$2.45^{+0.11}_{-0.11}$	$H(0.51)$	$90.0^{+4.1}_{-1.6}$
$\ln(10^{10} A_s)$	$3.049^{+0.047}_{-0.033}$	z_{re}	< 9.61	$D_M(0.51)$	1987^{+64}_{-110}
n_s	$0.966^{+0.027}_{-0.020}$	$10^9 A_s$	$2.11^{+0.10}_{-0.069}$	$H(0.61)$	$95.8^{+3.5}_{-1.6}$
y_{cal}	$1.0005^{+0.0067}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	$1.895^{+0.044}_{-0.040}$	$D_M(0.61)$	2310^{+69}_{-120}
A_{217}^{CIB}	49^{+20}_{-20}	D_{40}	1227^{+47}_{-50}	$H(2.33)$	$239.8^{+7.9}_{-5.1}$
$\xi^{tSZ \times CIB}$	—	D_{220}	5712^{+110}_{-100}	$D_M(2.33)$	5728^{+88}_{-190}
A_{143}^{tSZ}	—	D_{810}	2539^{+37}_{-36}	$f\sigma_8(0.15)$	$0.451^{+0.036}_{-0.045}$
A_{100}^{PS}	268^{+70}_{-70}	D_{1420}	813^{+14}_{-13}	$\sigma_8(0.15)$	$0.721^{+0.052}_{-0.090}$
A_{143}^{PS}	52^{+20}_{-20}	D_{2000}	$228.2^{+5.1}_{-5.2}$	$f\sigma_8(0.38)$	$0.465^{+0.033}_{-0.048}$
$A_{143 \times 217}^{PS}$	45^{+20}_{-20}	$n_{s,0.002}$	$0.966^{+0.027}_{-0.020}$	$\sigma_8(0.38)$	$0.637^{+0.048}_{-0.082}$
A_{217}^{PS}	116^{+30}_{-30}	Y_P	$0.2477^{+0.0060}_{-0.0027}$	$f\sigma_8(0.51)$	$0.462^{+0.032}_{-0.050}$
A^{kSZ}	—	Y_P^{BBN}	$0.2490^{+0.0060}_{-0.0027}$	$\sigma_8(0.51)$	$0.596^{+0.046}_{-0.078}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.8}$	$10^5 D/H$	$2.67^{+0.15}_{-0.12}$	$f\sigma_8(0.61)$	$0.456^{+0.031}_{-0.050}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.7}$	Age/Gyr	$13.71^{+0.21}_{-0.46}$	$\sigma_8(0.61)$	$0.566^{+0.044}_{-0.075}$
$A_{143 \times 217}^{dustTT}$	$18.3^{+8.6}_{-8.4}$	z_*	$1090.6^{+1.3}_{-1.1}$	$f\sigma_8(2.33)$	$0.286^{+0.023}_{-0.038}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$142.8^{+2.6}_{-4.0}$	$\sigma_8(2.33)$	$0.293^{+0.025}_{-0.041}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0406^{+0.0013}_{-0.0015}$	f_{2000}^{143}	33^{+8}_{-8}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	$13.72^{+0.24}_{-0.38}$	$f_{2000}^{143 \times 217}$	35^{+6}_{-6}
H_0	$67.1^{+4.8}_{-3.2}$	z_{drag}	$1060.0^{+2.0}_{-1.5}$	f_{2000}^{217}	$109.5^{+5.7}_{-5.2}$
Ω_Λ	$0.672^{+0.044}_{-0.053}$	r_{drag}	$145.5^{+2.6}_{-4.2}$	χ_{small}^2	$396.9 (\nu: 1.6)$
Ω_m	$0.328^{+0.053}_{-0.044}$	k_D	$0.1419^{+0.0035}_{-0.0022}$	χ_{lowl}^2	$23.4 (\nu: 1.2)$
$\Omega_m h^2$	$0.147^{+0.011}_{-0.0074}$	$100\theta_D$	$0.1614^{+0.0013}_{-0.00085}$	χ_{plik}^2	$774.4 (\nu: 17.4)$
$\Omega_\nu h^2$	$0.0037^{+0.013}_{-0.0032}$	z_{eq}	3354^{+140}_{-290}	χ_{prior}^2	$7.4 (\nu: 6.9)$
$\Omega_m h^3$	$0.0988^{+0.0094}_{-0.0039}$	k_{eq}	$0.01039^{+0.00046}_{-0.00076}$	χ_{CMB}^2	$1194.8 (\nu: 17.3)$
σ_8	$0.781^{+0.055}_{-0.094}$	$100\theta_{eq}$	$0.823^{+0.065}_{-0.028}$		

$$\bar{\chi}_{eff}^2 = 1202.13; R - 1 = 0.02055$$

8.4 base_nnu_meffsterile_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00058}_{-0.00054}$	S_8	$0.819^{+0.049}_{-0.067}$	$100\theta_{s,eq}$	$0.454^{+0.031}_{-0.011}$
$\Omega_c h^2$	$0.1215^{+0.0089}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.027}_{-0.037}$	$H(0.15)$	$72.4^{+4.1}_{-2.2}$
$100\theta_{MC}$	$1.0405^{+0.0013}_{-0.0013}$	$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.032}_{-0.051}$	$D_M(0.15)$	647^{+23}_{-37}
τ	$0.054^{+0.019}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.955^{+0.054}_{-0.080}$	$H(0.38)$	$82.9^{+3.8}_{-1.5}$
$m_{\nu, sterile}^{eff} [eV]$	< 1.16	$r_{drag} h$	$97.4^{+4.7}_{-5.3}$	$D_M(0.38)$	1538^{+45}_{-81}
N_{eff}	< 3.62	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.074}_{-0.075}$	$H(0.51)$	$89.9^{+3.2}_{-1.5}$
$\ln(10^{10} A_s)$	$3.050^{+0.044}_{-0.031}$	z_{re}	< 9.56	$D_M(0.51)$	1990^{+51}_{-100}
n_s	$0.965^{+0.023}_{-0.017}$	$10^9 A_s$	$2.111^{+0.094}_{-0.064}$	$H(0.61)$	$95.7^{+3.1}_{-1.4}$
y_{cal}	$1.0005^{+0.0066}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	$1.895^{+0.040}_{-0.034}$	$D_M(0.61)$	2313^{+54}_{-110}
A_{217}^{CIB}	49^{+20}_{-20}	D_{40}	1229^{+38}_{-41}	$H(2.33)$	$239.7^{+7.1}_{-4.9}$
$\xi^{tSZ \times CIB}$	—	D_{220}	5714^{+110}_{-100}	$D_M(2.33)$	5734^{+76}_{-170}
A_{143}^{tSZ}	—	D_{810}	2539^{+35}_{-35}	$f\sigma_8(0.15)$	$0.452^{+0.026}_{-0.037}$
A_{100}^{PS}	268^{+70}_{-70}	D_{1420}	813^{+14}_{-13}	$\sigma_8(0.15)$	$0.720^{+0.048}_{-0.075}$
A_{143}^{PS}	52^{+20}_{-20}	D_{2000}	$228.3^{+5.2}_{-5.1}$	$f\sigma_8(0.38)$	$0.466^{+0.025}_{-0.040}$
$A_{143 \times 217}^{PS}$	45^{+20}_{-20}	$n_{s,0.002}$	$0.965^{+0.023}_{-0.017}$	$\sigma_8(0.38)$	$0.637^{+0.045}_{-0.069}$
A_{217}^{PS}	116^{+30}_{-30}	Y_P	$0.2475^{+0.0054}_{-0.0025}$	$f\sigma_8(0.51)$	$0.462^{+0.026}_{-0.041}$
A^{kSZ}	—	Y_P^{BBN}	$0.2488^{+0.0055}_{-0.0025}$	$\sigma_8(0.51)$	$0.595^{+0.043}_{-0.065}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.9}$	$10^5 D/H$	$2.67^{+0.15}_{-0.12}$	$f\sigma_8(0.61)$	$0.456^{+0.026}_{-0.042}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.8}$	Age/Gyr	$13.72^{+0.18}_{-0.40}$	$\sigma_8(0.61)$	$0.566^{+0.042}_{-0.062}$
$A_{143 \times 217}^{dustTT}$	$18.4^{+8.4}_{-8.3}$	z_*	$1090.6^{+1.3}_{-1.1}$	$f\sigma_8(2.33)$	$0.285^{+0.022}_{-0.032}$
A_{217}^{dustTT}	93^{+20}_{-20}	r_*	$142.9^{+2.4}_{-3.8}$	$\sigma_8(2.33)$	$0.293^{+0.024}_{-0.034}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0407^{+0.0013}_{-0.0014}$	f_{2000}^{143}	33^{+8}_{-8}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	$13.73^{+0.22}_{-0.36}$	$f_{2000}^{143 \times 217}$	35^{+6}_{-6}
H_0	$66.9^{+4.4}_{-2.6}$	z_{drag}	$1060.0^{+1.9}_{-1.4}$	f_{2000}^{217}	$109.4^{+5.6}_{-5.1}$
Ω_Λ	$0.670^{+0.037}_{-0.048}$	r_{drag}	$145.5^{+2.4}_{-3.9}$	$\chi_{lensing}^2$	$9.25 (\nu: 0.4)$
Ω_m	$0.330^{+0.048}_{-0.037}$	k_D	$0.1419^{+0.0033}_{-0.0020}$	χ_{small}^2	$501 (\nu: 14225.2)$
$\Omega_m h^2$	$0.147^{+0.011}_{-0.0065}$	$100\theta_D$	$0.1613^{+0.0012}_{-0.00082}$	χ_{lowl}^2	$23.5 (\nu: 0.8)$
$\Omega_\nu h^2$	$0.0036^{+0.0097}_{-0.0032}$	z_{eq}	3360^{+110}_{-260}	χ_{plik}^2	$669 (\nu: 14236.6)$
$\Omega_m h^3$	$0.0986^{+0.0081}_{-0.0037}$	k_{eq}	$0.01040^{+0.00040}_{-0.00070}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.781^{+0.049}_{-0.080}$	$100\theta_{eq}$	$0.822^{+0.059}_{-0.021}$	χ_{CMB}^2	$1203.4 (\nu: 17.1)$
$\bar{\chi}_{eff}^2 = 1210.72; R - 1 = 0.02178$					

8.5 base_nnu_meffsterile_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022445	$0.02243^{+0.00047}_{-0.00039}$	$\Omega_m h^2$	0.1434	$0.1459^{+0.0085}_{-0.0050}$	k_{eq}	0.010384	$0.01035^{+0.00033}_{-0.00065}$
$\Omega_c h^2$	0.1203	$0.1199^{+0.0066}_{-0.012}$	$\Omega_\nu h^2$	0.0006	$0.0035^{+0.0091}_{-0.0031}$	$100\theta_{\text{eq}}$	0.8150	$0.824^{+0.050}_{-0.024}$
$100\theta_{\text{MC}}$	1.04088	$1.04074^{+0.00080}_{-0.00088}$	$\Omega_m h^3$	0.09713	$0.0979^{+0.0050}_{-0.0023}$	$100\theta_{\text{s,eq}}$	0.4502	$0.455^{+0.026}_{-0.012}$
τ	0.0602	$0.055^{+0.022}_{-0.021}$	σ_8	0.817	$0.783^{+0.047}_{-0.088}$	$H(0.15)$	73.05	$72.6^{+2.5}_{-1.6}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.00	< 1.12	S_8	0.834	$0.813^{+0.052}_{-0.077}$	$D_{\text{M}}(0.15)$	639.9	645^{+17}_{-23}
N_{eff}	3.084	< 3.41	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4569	$0.445^{+0.029}_{-0.042}$	$H(0.38)$	83.21	$83.0^{+2.2}_{-1.1}$
$\ln(10^{10} A_{\text{s}})$	3.0581	$3.049^{+0.045}_{-0.043}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6111	$0.590^{+0.035}_{-0.061}$	$D_{\text{M}}(0.38)$	1525.9	1535^{+33}_{-49}
n_{s}	0.9687	$0.966^{+0.016}_{-0.013}$	$\sigma_8/h^{0.5}$	0.993	$0.955^{+0.054}_{-0.10}$	$H(0.51)$	89.97	$89.9^{+2.2}_{-0.92}$
y_{cal}	1.0010	$1.0008^{+0.0065}_{-0.0064}$	$r_{\text{drag}} h$	99.40	$98.0^{+3.4}_{-4.2}$	$D_{\text{M}}(0.51)$	1976.5	1987^{+38}_{-59}
A_{217}^{CIB}	45.5	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.451	$2.448^{+0.074}_{-0.075}$	$H(0.61)$	95.61	$95.6^{+1.9}_{-0.93}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.74	—	z_{re}	8.27	$7.7^{+2.1}_{-2.3}$	$D_{\text{M}}(0.61)$	2300	2310^{+40}_{-67}
A_{143}^{tSZ}	7.03	$5.3^{+4.4}_{-4.8}$	$10^9 A_{\text{s}}$	2.129	$2.110^{+0.096}_{-0.090}$	$H(2.33)$	236.96	$238.7^{+5.9}_{-3.4}$
A_{100}^{PS}	247	261^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8872	$1.891^{+0.032}_{-0.032}$	$D_{\text{M}}(2.33)$	5745	5740^{+50}_{-100}
A_{143}^{PS}	51.8	48^{+20}_{-20}	D_{40}	1227.2	1230^{+35}_{-36}	$f\sigma_8(0.15)$	0.4615	$0.449^{+0.028}_{-0.043}$
$A_{143 \times 217}^{\text{PS}}$	55.4	43^{+20}_{-20}	D_{220}	5735	5733^{+100}_{-100}	$\sigma_8(0.15)$	0.755	$0.722^{+0.044}_{-0.083}$
A_{217}^{PS}	122.9	116^{+30}_{-30}	D_{810}	2544.6	2542^{+35}_{-35}	$f\sigma_8(0.38)$	0.4797	$0.464^{+0.027}_{-0.047}$
A^{kSZ}	0.0	—	D_{1420}	819.3	817^{+12}_{-12}	$\sigma_8(0.38)$	0.669	$0.639^{+0.041}_{-0.076}$
A_{100}^{dustTT}	8.81	$9.0^{+4.7}_{-4.6}$	D_{2000}	231.71	$230.0^{+4.2}_{-4.3}$	$f\sigma_8(0.51)$	0.4782	$0.461^{+0.026}_{-0.048}$
A_{143}^{dustTT}	11.02	$11.0^{+4.5}_{-4.6}$	$n_{\text{s}, 0.002}$	0.9687	$0.966^{+0.016}_{-0.013}$	$\sigma_8(0.51)$	0.626	$0.598^{+0.039}_{-0.071}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.8^{+8.3}_{-8.4}$	Y_{P}	0.24593	$0.2468^{+0.0035}_{-0.0016}$	$f\sigma_8(0.61)$	0.4731	$0.456^{+0.026}_{-0.048}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.24726	$0.2481^{+0.0035}_{-0.0016}$	$\sigma_8(0.61)$	0.596	$0.568^{+0.038}_{-0.068}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.094}$	10^5D/H	2.585	$2.612^{+0.093}_{-0.077}$	$f\sigma_8(2.33)$	0.3004	$0.286^{+0.019}_{-0.035}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.074}_{-0.078}$	Age/Gyr	13.753	$13.74^{+0.12}_{-0.25}$	$\sigma_8(2.33)$	0.3097	$0.295^{+0.021}_{-0.036}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	z_*	1089.89	$1090.16^{+0.90}_{-0.76}$	f_{2000}^{143}	28.5	31^{+7}_{-7}
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	r_*	144.11	$143.3^{+1.6}_{-2.6}$	$f_{2000}^{143 \times 217}$	31.9	33^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	1.04103	$1.04087^{+0.00083}_{-0.00095}$	f_{2000}^{217}	106.43	$108.0^{+4.9}_{-4.8}$
A_{217}^{dustTE}	2.08	$2.09^{+0.70}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.843	$13.77^{+0.15}_{-0.24}$	χ_{simall}^2	397.59	$397.2 (\nu: 2.0)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.16	$1060.3^{+1.4}_{-0.97}$	χ_{lowl}^2	23.02	$23.4 (\nu: 0.6)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	146.74	$146.0^{+1.7}_{-2.7}$	χ_{plik}^2	2344.4	$2362.4 (\nu: 19.5)$
H_0	67.74	$67.1^{+2.6}_{-2.0}$	k_{D}	0.14115	$0.1418^{+0.0025}_{-0.0014}$	χ_{prior}^2	1.6	$11.7 (\nu: 11.0)$
Ω_{Λ}	0.6875	$0.676^{+0.026}_{-0.037}$	$100\theta_{\text{D}}$	0.16078	$0.16090^{+0.00068}_{-0.00051}$	χ_{CMB}^2	2765.0	$2783.1 (\nu: 19.7)$
Ω_{m}	0.3125	$0.324^{+0.037}_{-0.026}$	z_{eq}	3394	3355^{+110}_{-260}			

Best-fit $\chi_{\text{eff}}^2 = 2766.68$; $\bar{\chi}_{\text{eff}}^2 = 2794.77$; $R - 1 = 0.01444$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 397.59 commander_dx12_v3.2.29: 23.02 plik_rd12_HM_v22b_TTTEE: 2344.43

8.6 base_nnu_meffsterile_plikHM_TTTEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022389	$0.02242^{+0.00049}_{-0.00038}$	$\Omega_m h^2$	0.1429	$0.1459^{+0.0076}_{-0.0049}$	k_{eq}	0.009249	$0.01035^{+0.00030}_{-0.00056}$
$\Omega_c h^2$	0.0995	$0.1200^{+0.0062}_{-0.010}$	$\Omega_\nu h^2$	0.0210	$0.0034^{+0.0076}_{-0.0031}$	$100\theta_{\text{eq}}$	0.9283	$0.823^{+0.051}_{-0.019}$
$100\theta_{\text{MC}}$	1.04094	$1.04074^{+0.00080}_{-0.00093}$	$\Omega_m h^3$	0.09635	$0.0979^{+0.0047}_{-0.0022}$	$100\theta_{\text{s,eq}}$	0.5095	$0.454^{+0.027}_{-0.0097}$
τ	0.0543	$0.055^{+0.022}_{-0.019}$	σ_8	0.806	$0.784^{+0.042}_{-0.068}$	$H(0.15)$	72.74	$72.6^{+2.4}_{-1.6}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	1.915	< 0.936	S_8	0.8256	$0.815^{+0.043}_{-0.056}$	$D_{\text{M}}(0.15)$	642.8	645^{+16}_{-23}
N_{eff}	3.054	< 3.39	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4522	$0.446^{+0.023}_{-0.031}$	$H(0.38)$	82.91	$82.9^{+2.2}_{-1.0}$
$\ln(10^{10} A_{\text{s}})$	3.0438	$3.050^{+0.044}_{-0.037}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6039	$0.591^{+0.029}_{-0.043}$	$D_{\text{M}}(0.38)$	1532.4	1536^{+32}_{-49}
n_{s}	0.9660	$0.965^{+0.016}_{-0.012}$	$\sigma_8/h^{0.5}$	0.982	$0.957^{+0.045}_{-0.074}$	$H(0.51)$	89.66	$89.8^{+1.8}_{-0.94}$
y_{cal}	1.0005	$1.0009^{+0.0064}_{-0.0066}$	$r_{\text{drag}} h$	99.18	$98.0^{+3.5}_{-3.9}$	$D_{\text{M}}(0.51)$	1984.6	1987^{+36}_{-59}
A_{217}^{CIB}	47.7	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.444	$2.451^{+0.058}_{-0.058}$	$H(0.61)$	95.30	$95.6^{+1.8}_{-0.85}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.33	—	z_{re}	7.68	$7.8^{+2.1}_{-2.0}$	$D_{\text{M}}(0.61)$	2309	2311^{+38}_{-66}
A_{143}^{tSZ}	7.30	$5.3^{+4.5}_{-4.8}$	$10^9 A_{\text{s}}$	2.098	$2.112^{+0.094}_{-0.077}$	$H(2.33)$	236.50	$238.6^{+5.4}_{-3.3}$
A_{100}^{PS}	251	262^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8823	$1.891^{+0.031}_{-0.030}$	$D_{\text{M}}(2.33)$	5762	5742^{+46}_{-100}
A_{143}^{PS}	45.9	48^{+20}_{-20}	D_{40}	1228.4	1231^{+33}_{-32}	$f\sigma_8(0.15)$	0.4565	$0.450^{+0.023}_{-0.031}$
$A_{143 \times 217}^{\text{PS}}$	44.8	43^{+20}_{-20}	D_{220}	5730	5734^{+99}_{-100}	$\sigma_8(0.15)$	0.745	$0.723^{+0.040}_{-0.064}$
A_{217}^{PS}	118.6	116^{+30}_{-30}	D_{810}	2539.8	2542^{+35}_{-35}	$f\sigma_8(0.38)$	0.4741	$0.465^{+0.023}_{-0.034}$
A^{kSZ}	0.0	—	D_{1420}	817.6	817^{+12}_{-12}	$\sigma_8(0.38)$	0.6600	$0.640^{+0.037}_{-0.060}$
A_{100}^{dustTT}	8.90	$9.0^{+4.6}_{-4.7}$	D_{2000}	231.22	$230.1^{+4.2}_{-4.3}$	$f\sigma_8(0.51)$	0.4724	$0.462^{+0.023}_{-0.034}$
A_{143}^{dustTT}	11.04	$11.0^{+4.4}_{-4.5}$	$n_{\text{s}, 0.002}$	0.9660	$0.965^{+0.016}_{-0.012}$	$\sigma_8(0.51)$	0.6175	$0.598^{+0.035}_{-0.057}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.8^{+8.0}_{-8.2}$	Y_{P}	0.24551	$0.2468^{+0.0036}_{-0.0015}$	$f\sigma_8(0.61)$	0.4672	$0.456^{+0.022}_{-0.035}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.24683	$0.2481^{+0.0036}_{-0.0016}$	$\sigma_8(0.61)$	0.5875	$0.569^{+0.034}_{-0.054}$
A_{100}^{dustTE}	0.114	$0.115^{+0.095}_{-0.094}$	$10^5 \text{D}/\text{H}$	2.585	$2.611^{+0.091}_{-0.080}$	$f\sigma_8(2.33)$	0.2961	$0.287^{+0.018}_{-0.028}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.074}_{-0.079}$	Age/Gyr	13.794	$13.74^{+0.11}_{-0.24}$	$\sigma_8(2.33)$	0.3052	$0.295^{+0.019}_{-0.030}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.89	$1090.16^{+0.87}_{-0.78}$	f_{2000}^{143}	28.9	31^{+7}_{-7}
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	r_*	144.45	$143.4^{+1.6}_{-2.4}$	$f_{2000}^{143 \times 217}$	32.0	33^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.20}$	$100\theta_*$	1.04111	$1.04087^{+0.00083}_{-0.00098}$	f_{2000}^{217}	106.62	$108.0^{+4.9}_{-4.6}$
A_{217}^{dustTE}	2.08	$2.08^{+0.71}_{-0.71}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.874	$13.78^{+0.15}_{-0.23}$	χ_{lensing}^2	8.96	$9.03 (\nu: 0.2)$
c_{100}	0.99972	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	1059.97	$1060.3^{+1.4}_{-0.95}$	χ_{small}^2	396	$1646 (\nu: 447059.2)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.10	$146.0^{+1.6}_{-2.5}$	χ_{lowl}^2	23.22	$23.5 (\nu: 0.5)$
H_0	67.42	$67.1^{+2.6}_{-1.9}$	k_{D}	0.14087	$0.1418^{+0.0023}_{-0.0014}$	χ_{plik}^2	2344	$1113 (\nu: 446893.7)$
Ω_{Λ}	0.6856	$0.676^{+0.028}_{-0.033}$	$100\theta_{\text{D}}$	0.16074	$0.16089^{+0.00070}_{-0.00054}$	χ_{prior}^2	1.8	$11.6 (\nu: 10.9)$
Ω_{m}	0.3144	$0.324^{+0.033}_{-0.028}$	z_{eq}	2910	3359^{+95}_{-230}	χ_{CMB}^2	2772.3	$2791.6 (\nu: 19.6)$

Best-fit $\chi_{\text{eff}}^2 = 2774.15$; $\bar{\chi}_{\text{eff}}^2 = 2803.21$; $R - 1 = 0.04894$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.96 simall_100x143_offlike5_EE_Aplanck_B: 396.02 commander_dx12_v3_2_29: 23.22 plik_rd12_HM_v22b_TTTEE: 2344.13

8.7 base_nnu_meffsterile_plikHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02243^{+0.00048}_{-0.00038}$	$\Omega_{\text{m}}h^2$	$0.1459^{+0.0086}_{-0.0049}$	k_{eq}	$0.01035^{+0.00033}_{-0.00067}$
$\Omega_{\text{c}}h^2$	$0.1200^{+0.0066}_{-0.012}$	$\Omega_{\nu}h^2$	$0.0035^{+0.0091}_{-0.0030}$	$100\theta_{\text{eq}}$	$0.824^{+0.050}_{-0.024}$
$100\theta_{\text{MC}}$	$1.04074^{+0.00081}_{-0.00088}$	$\Omega_{\text{m}}h^3$	$0.0980^{+0.0050}_{-0.0023}$	$100\theta_{\text{s,eq}}$	$0.455^{+0.026}_{-0.012}$
τ	$0.056^{+0.019}_{-0.014}$	σ_8	$0.784^{+0.046}_{-0.090}$	$H(0.15)$	$72.6^{+2.5}_{-1.6}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 1.12	S_8	$0.814^{+0.052}_{-0.078}$	$D_{\text{M}}(0.15)$	645^{+17}_{-23}
N_{eff}	< 3.41	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.446^{+0.028}_{-0.043}$	$H(0.38)$	$83.0^{+2.3}_{-1.1}$
$\ln(10^{10}A_{\text{s}})$	$3.051^{+0.043}_{-0.032}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.591^{+0.034}_{-0.061}$	$D_{\text{M}}(0.38)$	1535^{+33}_{-49}
n_{s}	$0.966^{+0.016}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.956^{+0.054}_{-0.10}$	$H(0.51)$	$89.9^{+2.2}_{-0.93}$
y_{cal}	$1.0008^{+0.0065}_{-0.0064}$	$r_{\text{drag}}h$	$98.0^{+3.3}_{-4.2}$	$D_{\text{M}}(0.51)$	1986^{+37}_{-60}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.072}_{-0.069}$	$H(0.61)$	$95.6^{+1.9}_{-0.93}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.64	$D_{\text{M}}(0.61)$	2310^{+40}_{-67}
A_{143}^{tSZ}	$5.3^{+4.4}_{-4.8}$	$10^9 A_{\text{s}}$	$2.113^{+0.093}_{-0.066}$	$H(2.33)$	$238.7^{+6.0}_{-3.4}$
A_{100}^{PS}	261^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.891^{+0.033}_{-0.032}$	$D_{\text{M}}(2.33)$	5740^{+50}_{-110}
A_{143}^{PS}	48^{+20}_{-20}	D_{40}	1230^{+35}_{-36}	$f\sigma_8(0.15)$	$0.449^{+0.028}_{-0.044}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{220}	5732^{+100}_{-100}	$\sigma_8(0.15)$	$0.723^{+0.044}_{-0.084}$
A_{217}^{PS}	116^{+30}_{-30}	D_{810}	2542^{+35}_{-35}	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.048}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.640^{+0.040}_{-0.076}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	D_{2000}	$230.0^{+4.2}_{-4.3}$	$f\sigma_8(0.51)$	$0.462^{+0.026}_{-0.048}$
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.6}$	$n_{\text{s}, 0.002}$	$0.966^{+0.016}_{-0.013}$	$\sigma_8(0.51)$	$0.598^{+0.038}_{-0.072}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.7^{+8.4}_{-8.4}$	Y_{P}	$0.2468^{+0.0035}_{-0.0016}$	$f\sigma_8(0.61)$	$0.456^{+0.026}_{-0.049}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2482^{+0.0035}_{-0.0016}$	$\sigma_8(0.61)$	$0.569^{+0.037}_{-0.069}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	10^5D/H	$2.611^{+0.093}_{-0.077}$	$f\sigma_8(2.33)$	$0.287^{+0.019}_{-0.035}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.074}_{-0.078}$	Age/Gyr	$13.74^{+0.12}_{-0.25}$	$\sigma_8(2.33)$	$0.295^{+0.020}_{-0.037}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	z_*	$1090.16^{+0.90}_{-0.76}$	f_{2000}^{143}	31^{+7}_{-7}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$143.3^{+1.6}_{-2.6}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	$100\theta_*$	$1.04087^{+0.00083}_{-0.00095}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.8}$
A_{217}^{dustTE}	$2.09^{+0.70}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.77^{+0.15}_{-0.25}$	χ_{small}^2	$397.2 (\nu: 2.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1060.3^{+1.4}_{-0.94}$	χ_{lowl}^2	$23.4 (\nu: 0.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$146.0^{+1.7}_{-2.7}$	χ_{plik}^2	$2362.2 (\nu: 19.3)$
H_0	$67.2^{+2.6}_{-2.0}$	k_{D}	$0.1418^{+0.0025}_{-0.0014}$	χ_{prior}^2	$11.7 (\nu: 11.0)$
Ω_{Λ}	$0.676^{+0.026}_{-0.037}$	$100\theta_{\text{D}}$	$0.16089^{+0.00068}_{-0.00051}$	χ_{CMB}^2	$2782.9 (\nu: 19.3)$
Ω_{m}	$0.324^{+0.037}_{-0.026}$	z_{eq}	3355^{+110}_{-270}		

$$\bar{\chi}_{\text{eff}}^2 = 2794.57; R - 1 = 0.01250$$

8.8 base_nnu_meffsterile_plikHM_TTTEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00050}_{-0.00038}$	$\Omega_m h^2$	$0.1458^{+0.0076}_{-0.0049}$	k_{eq}	$0.01035^{+0.00030}_{-0.00057}$
$\Omega_c h^2$	$0.1200^{+0.0062}_{-0.010}$	$\Omega_\nu h^2$	$0.0034^{+0.0076}_{-0.0031}$	$100\theta_{\text{eq}}$	$0.823^{+0.051}_{-0.019}$
$100\theta_{\text{MC}}$	$1.04075^{+0.00080}_{-0.00092}$	$\Omega_m h^3$	$0.0979^{+0.0047}_{-0.0022}$	$100\theta_{\text{s,eq}}$	$0.455^{+0.027}_{-0.0096}$
τ	$0.056^{+0.020}_{-0.015}$	σ_8	$0.784^{+0.042}_{-0.068}$	$H(0.15)$	$72.6^{+2.5}_{-1.6}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.948	S_8	$0.815^{+0.043}_{-0.056}$	$D_{\text{M}}(0.15)$	645^{+16}_{-23}
N_{eff}	< 3.40	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.446^{+0.023}_{-0.031}$	$H(0.38)$	$83.0^{+2.2}_{-1.0}$
$\ln(10^{10} A_{\text{s}})$	$3.051^{+0.043}_{-0.030}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.592^{+0.029}_{-0.043}$	$D_{\text{M}}(0.38)$	1535^{+32}_{-50}
n_{s}	$0.965^{+0.016}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.957^{+0.045}_{-0.075}$	$H(0.51)$	$89.8^{+1.8}_{-0.94}$
y_{cal}	$1.0009^{+0.0065}_{-0.0066}$	$r_{\text{drag}} h$	$98.0^{+3.5}_{-3.9}$	$D_{\text{M}}(0.51)$	1987^{+37}_{-61}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.057}_{-0.056}$	$H(0.61)$	$95.6^{+2.3}_{-0.77}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.68	$D_{\text{M}}(0.61)$	2311^{+38}_{-67}
A_{143}^{tSZ}	$5.3^{+4.4}_{-4.8}$	$10^9 A_{\text{s}}$	$2.115^{+0.092}_{-0.062}$	$H(2.33)$	$238.6^{+5.4}_{-3.3}$
A_{100}^{PS}	262^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.891^{+0.031}_{-0.030}$	$D_{\text{M}}(2.33)$	5741^{+47}_{-100}
A_{143}^{PS}	48^{+20}_{-20}	D_{40}	1231^{+33}_{-31}	$f\sigma_8(0.15)$	$0.450^{+0.023}_{-0.031}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{220}	5734^{+100}_{-100}	$\sigma_8(0.15)$	$0.724^{+0.040}_{-0.065}$
A_{217}^{PS}	116^{+30}_{-30}	D_{810}	2542^{+35}_{-35}	$f\sigma_8(0.38)$	$0.465^{+0.023}_{-0.034}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.640^{+0.037}_{-0.060}$
A_{100}^{dustTT}	$9.0^{+4.6}_{-4.8}$	D_{2000}	$230.1^{+4.2}_{-4.3}$	$f\sigma_8(0.51)$	$0.462^{+0.023}_{-0.034}$
A_{143}^{dustTT}	$11.0^{+4.5}_{-4.5}$	$n_{\text{s}, 0.002}$	$0.965^{+0.016}_{-0.013}$	$\sigma_8(0.51)$	$0.599^{+0.036}_{-0.057}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.8^{+8.1}_{-8.2}$	Y_{P}	$0.2468^{+0.0036}_{-0.0016}$	$f\sigma_8(0.61)$	$0.457^{+0.023}_{-0.035}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2481^{+0.0036}_{-0.0016}$	$\sigma_8(0.61)$	$0.569^{+0.034}_{-0.055}$
A_{100}^{dustTE}	$0.115^{+0.093}_{-0.093}$	$10^5 \text{D}/\text{H}$	$2.611^{+0.091}_{-0.081}$	$f\sigma_8(2.33)$	$0.287^{+0.018}_{-0.028}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.075}_{-0.079}$	Age/Gyr	$13.74^{+0.11}_{-0.24}$	$\sigma_8(2.33)$	$0.295^{+0.019}_{-0.030}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1090.16^{+0.87}_{-0.79}$	f_{2000}^{143}	31^{+7}_{-7}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$143.4^{+1.6}_{-2.5}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$100\theta_*$	$1.04088^{+0.00083}_{-0.00098}$	f_{2000}^{217}	$108.0^{+4.9}_{-4.6}$
A_{217}^{dustTE}	$2.08^{+0.71}_{-0.71}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.77^{+0.15}_{-0.23}$	χ_{lensing}^2	$9.01 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	$1060.3^{+1.4}_{-0.96}$	χ_{small}^2	$1645 (\nu: 447270.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$146.0^{+1.6}_{-2.5}$	χ_{lowl}^2	$23.5 (\nu: 0.5)$
H_0	$67.1^{+2.7}_{-1.9}$	k_{D}	$0.1418^{+0.0023}_{-0.0014}$	χ_{plik}^2	$1114 (\nu: 447092.4)$
Ω_{Λ}	$0.676^{+0.028}_{-0.034}$	$100\theta_{\text{D}}$	$0.16089^{+0.00070}_{-0.00054}$	χ_{prior}^2	$11.6 (\nu: 11.0)$
Ω_{m}	$0.324^{+0.034}_{-0.028}$	z_{eq}	3358^{+94}_{-230}	χ_{CMB}^2	$2791.5 (\nu: 19.4)$

$$\bar{\chi}_{\text{eff}}^2 = 2803.10; R - 1 = 0.04623$$

8.9 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022298	$0.02237^{+0.00046}_{-0.00045} \quad (-0.4\sigma)$	$\Omega_m h^3$	0.09691	$0.0981^{+0.0064}_{-0.0027} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	0.8160	$0.827^{+0.059}_{-0.021} \quad (+0.2\sigma)$
$\Omega_c h^2$	0.1202	$0.1198^{+0.0078}_{-0.012} \quad (-0.0\sigma)$	σ_8	0.811	$0.778^{+0.050}_{-0.086} \quad (-0.2\sigma)$	$100\theta_{\text{s,eq}}$	0.4508	$0.456^{+0.031}_{-0.011} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	1.04084	$1.04068^{+0.00088}_{-0.0010} \quad (-0.2\sigma)$	S_8	0.828	$0.805^{+0.053}_{-0.076} \quad (-0.3\sigma)$	$H(0.15)$	73.00	$72.8^{+2.8}_{-1.7} \quad (+0.3\sigma)$
τ	0.0547	$0.053^{+0.023}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.441^{+0.029}_{-0.042} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	640.4	$643^{+18}_{-26} \quad (-0.3\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.00	$< 1.04 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6067	$0.586^{+0.035}_{-0.056} \quad (-0.3\sigma)$	$H(0.38)$	83.15	$83.1^{+2.7}_{-1.3} \quad (+0.3\sigma)$
N_{eff}	3.089	$< 3.50 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.986	$0.948^{+0.054}_{-0.098} \quad (-0.2\sigma)$	$D_{\text{M}}(0.38)$	1527.0	$1531^{+35}_{-55} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.0445	$3.043^{+0.050}_{-0.045} \quad (-0.4\sigma)$	$r_{\text{drag}} h$	99.44	$98.3^{+3.5}_{-4.4} \quad (+0.2\sigma)$	$H(0.51)$	89.90	$90.0^{+2.6}_{-1.1} \quad (+0.3\sigma)$
n_{s}	0.9671	$0.967^{+0.018}_{-0.014} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.437	$2.430^{+0.076}_{-0.074} \quad (-0.6\sigma)$	$D_{\text{M}}(0.51)$	1978	$1982^{+41}_{-69} \quad (-0.3\sigma)$
y_{cal}	1.0006	$1.0005^{+0.0065}_{-0.0067} \quad (-0.1\sigma)$	z_{re}	7.75	$7.6^{+2.3}_{-2.3} \quad (-0.2\sigma)$	$H(0.61)$	95.54	$95.7^{+2.3}_{-1.1} \quad (+0.2\sigma)$
A_{100}^{PS}	239	$244^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	2.100	$2.10^{+0.11}_{-0.093} \quad (-0.4\sigma)$	$D_{\text{M}}(0.61)$	2302	$2305^{+44}_{-77} \quad (-0.3\sigma)$
A_{143}^{PS}	44.7	$42^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8822	$1.886^{+0.038}_{-0.034} \quad (-0.4\sigma)$	$H(2.33)$	236.8	$238.6^{+6.1}_{-4.0} \quad (-0.1\sigma)$
A_{217}^{PS}	102.0	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{40}	1225.7	$1222^{+37}_{-39} \quad (-0.6\sigma)$	$D_{\text{M}}(2.33)$	5749	$5734^{+58}_{-130} \quad (-0.2\sigma)$
A_{217}^{CIB}	42.1	$41^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	5719	$5717^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4581	$0.445^{+0.028}_{-0.042} \quad (-0.3\sigma)$
A_{143}^{tSZ}	4.79	$< 8.82 \quad (-0.8\sigma)$	D_{810}	2536.7	$2536^{+37}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.750	$0.718^{+0.047}_{-0.081} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.682	$0.65^{+0.31}_{-0.31}$	D_{1420}	815.3	$814^{+13}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	0.4762	$0.460^{+0.028}_{-0.044} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.70	—	D_{2000}	229.99	$229.0^{+4.6}_{-4.9} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	0.664	$0.636^{+0.042}_{-0.074} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.55	—	$n_{\text{s}, 0.002}$	0.9671	$0.967^{+0.018}_{-0.014} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	0.4747	$0.458^{+0.028}_{-0.045} \quad (-0.2\sigma)$
A^{kSZ}	3.0	—	Y_{P}	0.24594	$0.2471^{+0.0044}_{-0.0019} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	0.622	$0.595^{+0.040}_{-0.070} \quad (-0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.52}_{-0.51}$	$Y_{\text{P}}^{\text{BBN}}$	0.24727	$0.2484^{+0.0044}_{-0.0019} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	0.4697	$0.453^{+0.027}_{-0.045} \quad (-0.2\sigma)$
A_{143}^{dust}	0.969	$0.97^{+0.44}_{-0.45}$	$10^5 \text{D}/\text{H}$	2.614	$2.63^{+0.12}_{-0.094} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	0.592	$0.566^{+0.038}_{-0.067} \quad (-0.1\sigma)$
A_{217}^{dust}	0.966	$0.97^{+0.27}_{-0.27}$	Age/Gyr	13.763	$13.73^{+0.14}_{-0.30} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2983	$0.285^{+0.020}_{-0.034} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.021	$1.03^{+0.42}_{-0.41}$	z_*	1090.07	$1090.2^{+1.0}_{-0.88} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3075	$0.293^{+0.022}_{-0.037} \quad (-0.1\sigma)$
c_{100}	0.99762	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.22	$143.3^{+1.9}_{-3.2} \quad (-0.0\sigma)$	f_{2000}^{143}	30.6	$31^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	1.00124	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_*$	1.04101	$1.04080^{+0.00091}_{-0.0011} \quad (-0.2\sigma)$	f_{2000}^{217}	107.2	$108.0^{+5.5}_{-5.2} \quad (+0.0\sigma)$
c_{TE}	0.9969	$0.997^{+0.013}_{-0.012}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.853	$13.77^{+0.18}_{-0.30} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	32.8	$34^{+6}_{-6} \quad (+0.2\sigma)$
c_{EE}	0.9933	$0.993^{+0.014}_{-0.013}$	z_{drag}	1059.82	$1060.2^{+1.5}_{-1.1} \quad (-0.3\sigma)$	χ_{small}^2	396.18	$397.0 (\nu: 1.6) \quad (-0.1\sigma)$
H_0	67.69	$67.4^{+3.0}_{-2.1} \quad (+0.3\sigma)$	r_{drag}	146.90	$146.0^{+1.9}_{-3.3} \quad (+0.0\sigma)$	χ_{lowl}^2	23.00	$22.9 (\nu: 0.6) \quad (-0.5\sigma)$
Ω_{Λ}	0.6876	$0.679^{+0.027}_{-0.038} \quad (+0.2\sigma)$	k_{D}	0.14085	$0.1416^{+0.0028}_{-0.0016} \quad (-0.2\sigma)$	χ_{CamSpec}^2	11500.0	$11517.5 (\nu: 18.9)$
Ω_{m}	0.3124	$0.321^{+0.038}_{-0.027} \quad (-0.2\sigma)$	$100\theta_{\text{D}}$	0.16101	$0.16107^{+0.00099}_{-0.00064} \quad (+0.8\sigma)$	χ_{prior}^2	2.2	$7.9 (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^2$	0.1432	$0.1457^{+0.0091}_{-0.0054} \quad (-0.1\sigma)$	z_{eq}	3386	$3339^{+110}_{-260} \quad (-0.2\sigma)$	χ_{CMB}^2	11919.1	$11937.4 (\nu: 19.1) \quad (+1460.0\sigma)$
$\Omega_{\nu} h^2$	0.0007	$0.0035^{+0.0083}_{-0.0030} \quad (-0.0\sigma)$	k_{eq}	0.01036	$0.01031^{+0.00035}_{-0.00067} \quad (-0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11921.37$; $\Delta\chi_{\text{eff}}^2 = 9154.70$; $\bar{\chi}_{\text{eff}}^2 = 11945.34$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.57$; $R - 1 = 0.02481$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.18 (Δ -1.41) commander_dx12.v3.2.29: 23.00 (Δ -0.01) CamSpec like_10.7HM_1400.unified: 11499.96

8.10 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02234^{+0.00045}_{-0.00043} \quad (-0.5\sigma)$	$\Omega_m h^3$	$0.0980^{+0.0060}_{-0.0026} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	$0.824^{+0.051}_{-0.018} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1201^{+0.0073}_{-0.011} \quad (+0.0\sigma)$	σ_8	$0.783^{+0.042}_{-0.066} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.455^{+0.027}_{-0.0096} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04066^{+0.00080}_{-0.00099} \quad (-0.3\sigma)$	S_8	$0.812^{+0.042}_{-0.058} \quad (-0.1\sigma)$	$H(0.15)$	$72.7^{+2.8}_{-1.6} \quad (+0.1\sigma)$
τ	$0.054^{+0.022}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.445^{+0.023}_{-0.032} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$644^{+17}_{-25} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.963 \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.590^{+0.028}_{-0.044} \quad (-0.1\sigma)$	$H(0.38)$	$83.0^{+2.6}_{-1.1} \quad (+0.1\sigma)$
N_{eff}	$< 3.48 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.955^{+0.044}_{-0.074} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1534^{+32}_{-55} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.047^{+0.046}_{-0.040} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$98.1^{+3.3}_{-4.0} \quad (+0.1\sigma)$	$H(0.51)$	$89.9^{+2.5}_{-0.97} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.018}_{-0.013} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.059}_{-0.061} \quad (-0.4\sigma)$	$D_{\text{M}}(0.51)$	$1985^{+37}_{-68} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0066}_{-0.0066} \quad (-0.1\sigma)$	z_{re}	$7.7^{+2.1}_{-2.1} \quad (-0.1\sigma)$	$H(0.61)$	$95.6^{+2.5}_{-1.0} \quad (+0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}$	$2.105^{+0.099}_{-0.083} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2309^{+40}_{-77} \quad (-0.1\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.888^{+0.036}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$238.6^{+5.7}_{-3.7} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1226^{+34}_{-34} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5739^{+48}_{-140} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5720^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.022}_{-0.032} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{810}	$2538^{+37}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.723^{+0.041}_{-0.063} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.32}$	D_{1420}	$815^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.022}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$229.2^{+4.6}_{-4.5} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.639^{+0.038}_{-0.057} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s}, 0.002}$	$0.966^{+0.018}_{-0.013} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.461^{+0.022}_{-0.035} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_{P}	$0.2470^{+0.0043}_{-0.0018} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.598^{+0.036}_{-0.054} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2483^{+0.0043}_{-0.0018} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.022}_{-0.036} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	$10^5 \text{D}/\text{H}$	$2.63^{+0.12}_{-0.088} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.569^{+0.035}_{-0.053} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	Age/Gyr	$13.74^{+0.13}_{-0.31} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.287^{+0.018}_{-0.027} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.40}$	z_*	$1090.28^{+0.98}_{-0.78} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.295^{+0.019}_{-0.029} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	r_*	$143.4^{+1.8}_{-3.0} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_*$	$1.04079^{+0.00083}_{-0.0011} \quad (-0.3\sigma)$	f_{2000}^{217}	$108.0^{+5.4}_{-5.2} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.77^{+0.16}_{-0.28} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (+0.1\sigma)$
c_{EE}	$0.993^{+0.014}_{-0.014}$	z_{drag}	$1060.1^{+1.4}_{-1.1} \quad (-0.4\sigma)$	χ_{lensing}^2	$9.25 \quad (\nu: 0.4) \quad (+0.3\sigma)$
H_0	$67.2^{+2.9}_{-1.9} \quad (+0.1\sigma)$	r_{drag}	$146.0^{+1.8}_{-3.1} \quad (+0.0\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.8) \quad (-1.3\sigma)$
Ω_{Λ}	$0.677^{+0.026}_{-0.035} \quad (+0.1\sigma)$	k_{D}	$0.1416^{+0.0026}_{-0.0015} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.5) \quad (-0.3\sigma)$
Ω_{m}	$0.323^{+0.035}_{-0.026} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16106^{+0.00097}_{-0.00062} \quad (+0.7\sigma)$	χ_{CamSpec}^2	$11516.6 \quad (\nu: 17.1)$
$\Omega_{\text{m}} h^2$	$0.1458^{+0.0084}_{-0.0049} \quad (-0.0\sigma)$	z_{eq}	$3351^{+93}_{-230} \quad (-0.2\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\nu} h^2$	$0.0033^{+0.0080}_{-0.0029} \quad (-0.0\sigma)$	k_{eq}	$0.01034^{+0.00032}_{-0.00060} \quad (-0.1\sigma)$	χ_{CMB}^2	$11946.1 \quad (\nu: 18.6) \quad (+1460.7\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11954.00; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.80; R - 1 = 0.02353$$

8.11 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00046}_{-0.00044} \quad (-0.4\sigma)$	$\Omega_{\mathrm{m}} h^3$	$0.0982^{+0.0063}_{-0.0027} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.060}_{-0.021} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1198^{+0.0077}_{-0.012} \quad (-0.0\sigma)$	σ_8	$0.779^{+0.049}_{-0.085} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.031}_{-0.011} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04068^{+0.00087}_{-0.0010} \quad (-0.2\sigma)$	S_8	$0.806^{+0.053}_{-0.076} \quad (-0.3\sigma)$	$H(0.15)$	$72.8^{+2.8}_{-1.7} \quad (+0.3\sigma)$
τ	$0.054^{+0.020}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.029}_{-0.042} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+18}_{-26} \quad (-0.3\sigma)$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	$< 1.04 \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.586^{+0.035}_{-0.056} \quad (-0.3\sigma)$	$H(0.38)$	$83.2^{+2.7}_{-1.2} \quad (+0.3\sigma)$
N_{eff}	$< 3.51 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.949^{+0.054}_{-0.096} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1531^{+35}_{-56} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.048}_{-0.031} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$98.4^{+3.5}_{-4.4} \quad (+0.3\sigma)$	$H(0.51)$	$90.0^{+2.6}_{-1.0} \quad (+0.3\sigma)$
n_{s}	$0.968^{+0.018}_{-0.014} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.074}_{-0.072} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+41}_{-70} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0067} \quad (-0.1\sigma)$	z_{re}	$< 9.62 \quad (-0.2\sigma)$	$H(0.61)$	$95.7^{+2.3}_{-1.1} \quad (+0.2\sigma)$
A_{100}^{PS}	$244^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.065} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+43}_{-78} \quad (-0.3\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.038}_{-0.034} \quad (-0.4\sigma)$	$H(2.33)$	$238.6^{+6.1}_{-4.1} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{40}	$1222^{+37}_{-39} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5733^{+58}_{-130} \quad (-0.2\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5717^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.445^{+0.028}_{-0.042} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.8\sigma)$	D_{810}	$2536^{+37}_{-37} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.719^{+0.046}_{-0.081} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.31}$	D_{1420}	$814^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.461^{+0.028}_{-0.043} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$229.1^{+4.6}_{-4.8} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	$0.637^{+0.042}_{-0.074} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s}, 0.002}$	$0.968^{+0.018}_{-0.014} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.459^{+0.027}_{-0.044} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_{P}	$0.2471^{+0.0044}_{-0.0020} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.595^{+0.040}_{-0.070} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2485^{+0.0044}_{-0.0020} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.453^{+0.027}_{-0.045} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.12}_{-0.094} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.566^{+0.038}_{-0.067} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.14}_{-0.31} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.286^{+0.020}_{-0.034} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_*	$1090.2^{+1.0}_{-0.88} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.294^{+0.021}_{-0.037} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$143.3^{+1.9}_{-3.2} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_*$	$1.04080^{+0.00089}_{-0.0011} \quad (-0.2\sigma)$	f_{2000}^{217}	$108.0^{+5.5}_{-5.2} \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.77^{+0.18}_{-0.30} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (+0.1\sigma)$
c_{EE}	$0.993^{+0.014}_{-0.013}$	z_{drag}	$1060.2^{+1.5}_{-1.1} \quad (-0.3\sigma)$	χ_{simall}^2	$396.9 \quad (\nu: 1.7) \quad (-0.2\sigma)$
H_0	$67.4^{+3.0}_{-2.1} \quad (+0.3\sigma)$	r_{drag}	$146.0^{+2.0}_{-3.3} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 0.6) \quad (-0.5\sigma)$
Ω_{Λ}	$0.679^{+0.027}_{-0.038} \quad (+0.2\sigma)$	k_{D}	$0.1416^{+0.0026}_{-0.0018} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11517.4 \quad (\nu: 18.8)$
Ω_{m}	$0.321^{+0.038}_{-0.027} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16107^{+0.00099}_{-0.00064} \quad (+0.8\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1457^{+0.0091}_{-0.0054} \quad (-0.1\sigma)$	z_{eq}	$3339^{+110}_{-260} \quad (-0.3\sigma)$	χ_{CMB}^2	$11937.2 \quad (\nu: 18.7) \quad (+1474.0\sigma)$
$\Omega_{\nu} h^2$	$0.0035^{+0.0083}_{-0.0030} \quad (-0.0\sigma)$	k_{eq}	$0.01031^{+0.00035}_{-0.00067} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11945.16; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.59; R - 1 = 0.02558$$

8.12 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02235^{+0.00045}_{-0.00042} \quad (-0.5\sigma)$	$\Omega_{\text{m}}h^3$	$0.0980^{+0.0061}_{-0.0026} \quad (+0.1\sigma)$	$100\theta_{\text{eq}}$	$0.824^{+0.052}_{-0.018} \quad (+0.1\sigma)$
$\Omega_{\text{c}}h^2$	$0.1201^{+0.0074}_{-0.011} \quad (+0.0\sigma)$	σ_8	$0.784^{+0.042}_{-0.067} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.455^{+0.027}_{-0.0095} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04066^{+0.00080}_{-0.00099} \quad (-0.3\sigma)$	S_8	$0.812^{+0.042}_{-0.059} \quad (-0.1\sigma)$	$H(0.15)$	$72.7^{+2.8}_{-1.6} \quad (+0.1\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.445^{+0.023}_{-0.032} \quad (-0.1\sigma)$	$D_{\text{M}}(0.15)$	$644^{+16}_{-25} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.967 \quad (-0.0\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.590^{+0.028}_{-0.045} \quad (-0.1\sigma)$	$H(0.38)$	$83.0^{+2.6}_{-1.1} \quad (+0.1\sigma)$
N_{eff}	$< 3.49 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.955^{+0.047}_{-0.070} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1533^{+32}_{-56} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.049^{+0.045}_{-0.031} \quad (-0.2\sigma)$	$r_{\text{drag}}h$	$98.2^{+3.3}_{-4.1} \quad (+0.1\sigma)$	$H(0.51)$	$89.9^{+2.6}_{-0.94} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.018}_{-0.013} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.058}_{-0.060} \quad (-0.4\sigma)$	$D_{\text{M}}(0.51)$	$1985^{+37}_{-69} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0066}_{-0.0066} \quad (-0.1\sigma)$	z_{re}	$< 9.67 \quad (-0.1\sigma)$	$H(0.61)$	$95.6^{+2.5}_{-0.98} \quad (+0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	$2.109^{+0.096}_{-0.064} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	$2308^{+40}_{-77} \quad (-0.1\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.888^{+0.037}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$238.6^{+5.7}_{-3.7} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1226^{+34}_{-34} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5738^{+53}_{-130} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5720^{+110}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.022}_{-0.032} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{810}	$2538^{+37}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.723^{+0.040}_{-0.063} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.32}$	D_{1420}	$815^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.464^{+0.022}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$229.2^{+4.6}_{-4.5} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.640^{+0.037}_{-0.058} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s}, 0.002}$	$0.967^{+0.018}_{-0.013} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.462^{+0.022}_{-0.036} \quad (-0.1\sigma)$
A^{kSZ}	—	Y_{P}	$0.2470^{+0.0043}_{-0.0018} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.598^{+0.036}_{-0.055} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2483^{+0.0043}_{-0.0018} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.022}_{-0.036} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	$10^5 \text{D}/\text{H}$	$2.63^{+0.12}_{-0.088} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.569^{+0.034}_{-0.053} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	Age/Gyr	$13.74^{+0.13}_{-0.31} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.287^{+0.018}_{-0.027} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.40}$	z_*	$1090.27^{+0.99}_{-0.79} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.295^{+0.019}_{-0.029} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	r_*	$143.4^{+1.8}_{-3.0} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.9\sigma)$	$100\theta_*$	$1.04079^{+0.00083}_{-0.0011} \quad (-0.3\sigma)$	f_{2000}^{217}	$107.9^{+5.4}_{-5.2} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.77^{+0.17}_{-0.28} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (+0.1\sigma)$
c_{EE}	$0.993^{+0.014}_{-0.014}$	z_{drag}	$1060.1^{+1.3}_{-1.1} \quad (-0.4\sigma)$	χ_{lensing}^2	$9.21 \quad (\nu: 0.4) \quad (+0.3\sigma)$
H_0	$67.2^{+2.9}_{-1.9} \quad (+0.1\sigma)$	r_{drag}	$146.0^{+1.8}_{-3.1} \quad (+0.0\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.9) \quad (-1.3\sigma)$
Ω_{Λ}	$0.677^{+0.026}_{-0.035} \quad (+0.1\sigma)$	k_{D}	$0.1416^{+0.0026}_{-0.0015} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 0.5) \quad (-0.3\sigma)$
Ω_{m}	$0.323^{+0.035}_{-0.026} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16106^{+0.00098}_{-0.00062} \quad (+0.7\sigma)$	χ_{CamSpec}^2	$11516.5 \quad (\nu: 17.1)$
$\Omega_{\text{m}}h^2$	$0.1457^{+0.0084}_{-0.0049} \quad (-0.0\sigma)$	z_{eq}	$3350^{+92}_{-230} \quad (-0.2\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\nu}h^2$	$0.0033^{+0.0079}_{-0.0029} \quad (-0.0\sigma)$	k_{eq}	$0.01034^{+0.00032}_{-0.00061} \quad (-0.1\sigma)$	χ_{CMB}^2	$11946.0 \quad (\nu: 18.3) \quad (+1471.3\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11953.86; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.76; R - 1 = 0.02344$$

8.13 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02231	$0.02235^{+0.00058}_{-0.00053}$	$\sigma_8 \Omega_m^{0.5}$	0.4502	$0.441^{+0.028}_{-0.040}$	$D_M(0.15)$	636.1	633^{+18}_{-30}
$\Omega_c h^2$	0.1199	$0.120^{+0.010}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	0.6047	$0.591^{+0.035}_{-0.054}$	$H(0.38)$	83.52	$84.0^{+3.4}_{-1.8}$
$100\theta_{MC}$	1.04093	$1.0407^{+0.0012}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.984	$0.957^{+0.048}_{-0.086}$	$D_M(0.38)$	1518	1511^{+38}_{-68}
τ	0.0557	$0.055^{+0.022}_{-0.022}$	$r_{drag} h$	100.10	$99.8^{+2.6}_{-2.5}$	$H(0.51)$	90.23	$90.7^{+3.5}_{-1.7}$
$m_{\nu, sterile}^{eff} [eV]$	0.00	< 1.07	$\langle d^2 \rangle^{1/2}$	2.428	$2.412^{+0.075}_{-0.083}$	$D_M(0.51)$	1967	1958^{+46}_{-87}
N_{eff}	3.118	< 3.75	z_{re}	7.85	$7.8^{+2.1}_{-2.4}$	$H(0.61)$	95.84	$96.4^{+3.5}_{-1.7}$
$\ln(10^{10} A_s)$	3.0484	$3.048^{+0.050}_{-0.048}$	$10^9 A_s$	2.108	$2.11^{+0.11}_{-0.098}$	$D_M(0.61)$	2290	2279^{+51}_{-99}
n_s	0.9701	$0.973^{+0.023}_{-0.016}$	$10^9 A_s e^{-2\tau}$	1.8858	$1.888^{+0.050}_{-0.036}$	$H(2.33)$	236.7	$238.5^{+7.5}_{-4.4}$
y_{cal}	1.0013	$1.0006^{+0.0062}_{-0.0064}$	D_{40}	1223.1	1215^{+38}_{-42}	$D_M(2.33)$	5734	5699^{+95}_{-200}
A_{217}^{CIB}	49.8	49^{+20}_{-20}	D_{220}	5731	5720^{+100}_{-100}	$f\sigma_8(0.15)$	0.4552	$0.446^{+0.028}_{-0.040}$
$\xi^{tSZ \times CIB}$	0.20	—	D_{810}	2543.0	2538^{+35}_{-35}	$\sigma_8(0.15)$	0.751	$0.732^{+0.044}_{-0.070}$
A_{143}^{tSZ}	7.1	—	D_{1420}	817.5	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4745	$0.464^{+0.027}_{-0.042}$
A_{100}^{PS}	256	267^{+70}_{-70}	D_{2000}	230.5	$228.7^{+4.8}_{-5.3}$	$\sigma_8(0.38)$	0.666	$0.649^{+0.040}_{-0.063}$
A_{143}^{PS}	48.0	51^{+20}_{-20}	$n_{s,0.002}$	0.9701	$0.973^{+0.023}_{-0.016}$	$f\sigma_8(0.51)$	0.4736	$0.463^{+0.027}_{-0.043}$
$A_{143 \times 217}^{PS}$	43.9	44^{+20}_{-20}	Y_P	0.24634	$0.2480^{+0.0066}_{-0.0028}$	$\sigma_8(0.51)$	0.6235	$0.607^{+0.038}_{-0.059}$
A_{217}^{PS}	118.0	115^{+30}_{-30}	Y_P^{BBN}	0.24767	$0.2493^{+0.0066}_{-0.0028}$	$f\sigma_8(0.61)$	0.4689	$0.458^{+0.027}_{-0.043}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.621	$2.66^{+0.16}_{-0.12}$	$\sigma_8(0.61)$	0.5934	$0.578^{+0.036}_{-0.056}$
A_{100}^{dustTT}	8.89	$9.1^{+4.8}_{-4.8}$	Age/Gyr	13.728	$13.64^{+0.22}_{-0.47}$	$f\sigma_8(2.33)$	0.2993	$0.292^{+0.019}_{-0.029}$
A_{143}^{dustTT}	10.79	$10.8^{+4.6}_{-4.7}$	z_*	1090.05	$1090.3^{+1.2}_{-0.90}$	$\sigma_8(2.33)$	0.3088	$0.301^{+0.020}_{-0.030}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.4^{+8.5}_{-8.5}$	r_*	144.14	$143.1^{+2.4}_{-4.6}$	f_{2000}^{143}	30.6	33^{+8}_{-8}
A_{217}^{dustTT}	94.2	93^{+20}_{-20}	$100\theta_*$	1.04108	$1.0408^{+0.0013}_{-0.0016}$	$f_{2000}^{143 \times 217}$	33.3	35^{+6}_{-6}
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	13.845	$13.75^{+0.23}_{-0.43}$	f_{2000}^{217}	107.9	$109.1^{+5.5}_{-5.4}$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.86	$1060.2^{+2.0}_{-1.5}$	χ_{small}^2	396.28	$397.2 (\nu: 2.0)$
H_0	68.18	$68.5^{+3.5}_{-2.0}$	r_{drag}	146.82	$145.8^{+2.5}_{-4.8}$	χ_{lowl}^2	22.61	$22.3 (\nu: 0.6)$
Ω_Λ	0.6927	$0.690^{+0.020}_{-0.021}$	k_D	0.14084	$0.1416^{+0.0039}_{-0.0020}$	χ_{plik}^2	760.1	$775.2 (\nu: 17.7)$
Ω_m	0.3073	$0.310^{+0.021}_{-0.020}$	$100\theta_D$	0.16112	$0.1614^{+0.0014}_{-0.00096}$	χ_{6DF}^2	0.006	$0.063 (\nu: 0.0)$
$\Omega_m h^2$	0.1429	$0.1451^{+0.0099}_{-0.0054}$	z_{eq}	3366	3321^{+98}_{-250}	χ_{MGS}^2	1.47	$1.36 (\nu: 0.2)$
$\Omega_\nu h^2$	0.0007	$0.0025^{+0.0098}_{-0.0023}$	k_{eq}	0.01032	$0.01029^{+0.00042}_{-0.00067}$	$\chi_{DR12BAO}^2$	3.79	$4.9 (\nu: 1.5)$
$\Omega_m h^3$	0.0974	$0.0994^{+0.010}_{-0.0045}$	$100\theta_{eq}$	0.8197	$0.829^{+0.056}_{-0.019}$	χ_{prior}^2	1.7	$7.4 (\nu: 6.9)$
σ_8	0.812	$0.792^{+0.047}_{-0.075}$	$100\theta_{s,eq}$	0.4528	$0.458^{+0.029}_{-0.010}$	χ_{BAO}^2	5.27	$6.3 (\nu: 1.1)$
S_8	0.822	$0.804^{+0.052}_{-0.073}$	$H(0.15)$	73.44	$73.8^{+3.5}_{-1.9}$	χ_{CMB}^2	1179.0	$1194.7 (\nu: 17.0)$

Best-fit $\chi_{eff}^2 = 1185.94$; $\bar{\chi}_{eff}^2 = 1208.40$; $R - 1 = 0.03028$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.79 CMB - small_100x143.offlike5_EE_Aplanck_B: 396.28 commander_dx12_v3.2.29: 22.61 plik_rd12_HM_v22.TT: 760.13

8.14 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02225	$0.02236^{+0.00057}_{-0.00053}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4472	$0.440^{+0.027}_{-0.039}$	$D_{\mathrm{M}}(0.15)$	639.5	632^{+17}_{-30}
$\Omega_{\mathrm{c}} h^2$	0.1189	$0.120^{+0.010}_{-0.013}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6002	$0.591^{+0.034}_{-0.052}$	$H(0.38)$	83.12	$84.1^{+3.4}_{-1.8}$
$100\theta_{\mathrm{MC}}$	1.04093	$1.0407^{+0.0012}_{-0.0013}$	$\sigma_8/h^{0.5}$	0.978	$0.957^{+0.047}_{-0.083}$	$D_{\mathrm{M}}(0.38)$	1526	1509^{+37}_{-68}
τ	0.0525	$0.055^{+0.022}_{-0.023}$	$r_{\mathrm{drag}} h$	99.98	$99.9^{+2.5}_{-2.4}$	$H(0.51)$	89.81	$90.8^{+3.5}_{-1.8}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	0.00	< 1.03	$\langle d^2 \rangle^{1/2}$	2.418	$2.409^{+0.075}_{-0.082}$	$D_{\mathrm{M}}(0.51)$	1977	1955^{+46}_{-85}
N_{eff}	3.062	< 3.77	z_{re}	7.51	$7.8^{+2.1}_{-2.5}$	$H(0.61)$	95.40	$96.5^{+3.5}_{-1.7}$
$\ln(10^{10} A_{\mathrm{s}})$	3.0364	$3.048^{+0.050}_{-0.048}$	$10^9 A_{\mathrm{s}}$	2.083	$2.11^{+0.11}_{-0.098}$	$D_{\mathrm{M}}(0.61)$	2301	2275^{+55}_{-93}
n_{s}	0.9679	$0.974^{+0.022}_{-0.016}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8754	$1.888^{+0.050}_{-0.037}$	$H(2.33)$	235.8	$238.5^{+7.6}_{-4.4}$
y_{cal}	1.0001	$1.0006^{+0.0063}_{-0.0064}$	D_{40}	1220.8	1214^{+37}_{-41}	$D_{\mathrm{M}}(2.33)$	5759	5694^{+98}_{-200}
A_{217}^{CIB}	50.4	49^{+20}_{-20}	D_{220}	5713	5721^{+100}_{-100}	$f\sigma_8(0.15)$	0.4521	$0.445^{+0.027}_{-0.039}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.12	—	D_{810}	2534.2	2538^{+36}_{-35}	$\sigma_8(0.15)$	0.744	$0.733^{+0.043}_{-0.068}$
A_{143}^{tSZ}	7.1	—	D_{1420}	815.0	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4710	$0.464^{+0.027}_{-0.041}$
A_{100}^{PS}	256	267^{+70}_{-70}	D_{2000}	229.8	$228.7^{+4.8}_{-5.4}$	$\sigma_8(0.38)$	0.660	$0.650^{+0.039}_{-0.061}$
A_{143}^{PS}	46.1	51^{+20}_{-20}	$n_{\mathrm{s}, 0.002}$	0.9679	$0.974^{+0.022}_{-0.016}$	$f\sigma_8(0.51)$	0.4699	$0.463^{+0.027}_{-0.041}$
$A_{143 \times 217}^{\mathrm{PS}}$	41.3	44^{+20}_{-20}	Y_{P}	0.24556	$0.2481^{+0.0066}_{-0.0030}$	$\sigma_8(0.51)$	0.6180	$0.609^{+0.037}_{-0.057}$
A_{217}^{PS}	116.1	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24689	$0.2494^{+0.0067}_{-0.0030}$	$f\sigma_8(0.61)$	0.4652	$0.459^{+0.026}_{-0.041}$
A^{kSZ}	0.1	—	$10^5 \mathrm{D}/\mathrm{H}$	2.615	$2.66^{+0.17}_{-0.12}$	$\sigma_8(0.61)$	0.5882	$0.579^{+0.035}_{-0.055}$
$A_{100}^{\mathrm{dustTT}}$	8.88	$9.1^{+4.9}_{-4.8}$	Age/Gyr	13.788	$13.63^{+0.23}_{-0.47}$	$f\sigma_8(2.33)$	0.2967	$0.293^{+0.018}_{-0.028}$
$A_{143}^{\mathrm{dustTT}}$	10.81	$10.8^{+4.7}_{-4.7}$	z_*	1090.00	$1090.3^{+1.2}_{-0.90}$	$\sigma_8(2.33)$	0.3060	$0.302^{+0.019}_{-0.029}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	19.1	$18.4^{+8.5}_{-8.5}$	r_*	144.72	$143.1^{+2.4}_{-4.7}$	χ_{small}^2	396	$312 (\nu: 12353.2)$
$A_{217}^{\mathrm{dustTT}}$	93.9	93^{+20}_{-20}	$100\theta_*$	1.04112	$1.0408^{+0.0013}_{-0.0016}$	χ_{lowl}^2	23	$107 (\nu: 12350.7)$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.900	$13.74^{+0.23}_{-0.43}$	χ_{plik}^2	760.5	$775.3 (\nu: 17.6)$
c_{217}	0.99829	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.59	$1060.2^{+2.0}_{-1.5}$	χ_{JLA}^2	1034.92	$1035.04 (\nu: 0.1)$
H_0	67.81	$68.6^{+3.5}_{-2.0}$	r_{drag}	147.43	$145.7^{+2.6}_{-4.8}$	$\chi_{6\mathrm{DF}}^2$	0.01	$0.36 (\nu: 0.2)$
Ω_{Λ}	0.6916	$0.691^{+0.019}_{-0.019}$	k_{D}	0.14035	$0.1416^{+0.0039}_{-0.0021}$	χ_{MGS}^2	1.41	$1.13 (\nu: 0.3)$
Ω_{m}	0.3084	$0.309^{+0.019}_{-0.019}$	$100\theta_{\mathrm{D}}$	0.16103	$0.1614^{+0.0015}_{-0.00097}$	$\chi_{\mathrm{DR12BAO}}^2$	3.91	$4.6 (\nu: 1.1)$
$\Omega_{\mathrm{m}} h^2$	0.1418	$0.1451^{+0.0099}_{-0.0055}$	z_{eq}	3367	3320^{+95}_{-240}	χ_{prior}^2	1.5	$7.4 (\nu: 6.9)$
$\Omega_{\nu} h^2$	0.0006	$0.0024^{+0.0093}_{-0.0021}$	k_{eq}	0.01029	$0.01029^{+0.00041}_{-0.00066}$	χ_{BAO}^2	5.33	$6.1 (\nu: 0.7)$
$\Omega_{\mathrm{m}} h^3$	0.0962	$0.0996^{+0.010}_{-0.0047}$	$100\theta_{\mathrm{eq}}$	0.8194	$0.829^{+0.054}_{-0.019}$	χ_{CMB}^2	1179.0	$1194.7 (\nu: 16.8)$
σ_8	0.805	$0.793^{+0.046}_{-0.072}$	$100\theta_{\mathrm{s}, \mathrm{eq}}$	0.4527	$0.458^{+0.029}_{-0.0096}$			
S_8	0.817	$0.804^{+0.050}_{-0.071}$	$H(0.15)$	73.06	$73.9^{+3.5}_{-1.9}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 2220.73$; $\bar{\chi}_{\mathrm{eff}}^2 = 2243.31$; $R - 1 = 0.02477$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.91 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.81 commander_dx12_v3.2.29: 22.70 plik_rd12_HM_v22.TT: 760.48
SN - JLA Pantheon18: 1034.92

8.15 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00054}_{-0.00051}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.588^{+0.034}_{-0.051}$	$D_{\mathrm{M}}(0.38)$	1520^{+31}_{-52}
$\Omega_{\mathrm{c}} h^2$	$0.1187^{+0.0087}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.955^{+0.049}_{-0.083}$	$H(0.51)$	$90.3^{+2.5}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0013}$	$r_{\mathrm{drag}} h$	$99.7^{+2.5}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1969^{+37}_{-65}
τ	$0.054^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.075}_{-0.075}$	$H(0.61)$	$95.9^{+2.5}_{-1.2}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 1.10	z_{re}	$7.7^{+2.1}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2292^{+40}_{-74}
N_{eff}	< 3.53	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.093}$	$H(2.33)$	$237.4^{+6.1}_{-3.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.047}_{-0.045}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.041}_{-0.032}$	$D_{\mathrm{M}}(2.33)$	5729^{+67}_{-140}
n_{s}	$0.970^{+0.018}_{-0.014}$	D_{40}	1219^{+35}_{-37}	$f\sigma_8(0.15)$	$0.444^{+0.027}_{-0.038}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5720^{+100}_{-100}	$\sigma_8(0.15)$	$0.728^{+0.040}_{-0.067}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-34}	$f\sigma_8(0.38)$	$0.462^{+0.027}_{-0.040}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.645^{+0.036}_{-0.059}$
A_{143}^{tSZ}	—	D_{2000}	$229.1^{+4.5}_{-4.9}$	$f\sigma_8(0.51)$	$0.461^{+0.026}_{-0.040}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.970^{+0.018}_{-0.014}$	$\sigma_8(0.51)$	$0.604^{+0.034}_{-0.056}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2469^{+0.0048}_{-0.0018}$	$f\sigma_8(0.61)$	$0.456^{+0.025}_{-0.040}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2483^{+0.0048}_{-0.0018}$	$\sigma_8(0.61)$	$0.575^{+0.033}_{-0.054}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.13}_{-0.10}$	$f\sigma_8(2.33)$	$0.290^{+0.016}_{-0.027}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.16}_{-0.34}$	$\sigma_8(2.33)$	$0.299^{+0.017}_{-0.029}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.9}_{-4.7}$	z_*	$1090.17^{+0.98}_{-0.81}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.7}_{-4.7}$	r_*	$143.8^{+1.7}_{-3.4}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.5}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0014}$	f_{2000}^{217}	$108.7^{+5.1}_{-5.2}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.81^{+0.16}_{-0.32}$	χ_{small}^2	$310 (\nu: 12476.4)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.3}$	χ_{lowl}^2	$109 (\nu: 12480.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.5^{+1.8}_{-3.6}$	χ_{plik}^2	$774.3 (\nu: 16.3)$
H_0	$68.0^{+2.6}_{-1.7}$	k_{D}	$0.1411^{+0.0029}_{-0.0016}$	χ_{Aver15}^2	$0.84 (\nu: 0.3)$
Ω_{Λ}	$0.689^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0011}_{-0.00080}$	$\chi_{6\mathrm{DF}}^2$	$0.34 (\nu: 0.2)$
Ω_{m}	$0.311^{+0.020}_{-0.019}$	z_{eq}	3317^{+100}_{-250}	χ_{MGS}^2	$1.02 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1439^{+0.0075}_{-0.0043}$	k_{eq}	$0.01023^{+0.00038}_{-0.00062}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.7)$
$\Omega_{\nu} h^2$	$0.0028^{+0.010}_{-0.0023}$	$100\theta_{\mathrm{eq}}$	$0.830^{+0.056}_{-0.021}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
$\Omega_{\mathrm{m}} h^3$	$0.0979^{+0.0073}_{-0.0031}$	$100\theta_{\mathrm{s,eq}}$	$0.458^{+0.029}_{-0.011}$	χ_{BAO}^2	$6.4 (\nu: 1.2)$
σ_8	$0.787^{+0.043}_{-0.071}$	$H(0.15)$	$73.3^{+2.6}_{-1.5}$	χ_{CMB}^2	$1194.1 (\nu: 16.0)$
S_8	$0.802^{+0.051}_{-0.069}$	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-23}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.439^{+0.028}_{-0.038}$	$H(0.38)$	$83.5^{+2.7}_{-1.3}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1208.67; R - 1 = 0.03995$$

8.16 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02231^{+0.00052}_{-0.00048}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.587^{+0.033}_{-0.051}$	$D_{\mathrm{M}}(0.38)$	1521^{+29}_{-49}
$\Omega_{\mathrm{c}} h^2$	$0.1185^{+0.0081}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.954^{+0.048}_{-0.083}$	$H(0.51)$	$90.2^{+2.5}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0012}$	$r_{\mathrm{drag}} h$	$99.7^{+2.5}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1970^{+35}_{-61}
τ	$0.054^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.076}_{-0.074}$	$H(0.61)$	$95.8^{+2.6}_{-1.0}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 1.11	z_{re}	$7.7^{+2.1}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2293^{+39}_{-70}
N_{eff}	< 3.48	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.093}$	$H(2.33)$	$237.2^{+5.6}_{-3.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.047}_{-0.045}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.039}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5732^{+57}_{-150}
n_{s}	$0.970^{+0.017}_{-0.013}$	D_{40}	1220^{+35}_{-36}	$f\sigma_8(0.15)$	$0.443^{+0.027}_{-0.038}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5721^{+100}_{-100}	$\sigma_8(0.15)$	$0.727^{+0.039}_{-0.066}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-34}	$f\sigma_8(0.38)$	$0.461^{+0.026}_{-0.040}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+12}_{-12}	$\sigma_8(0.38)$	$0.645^{+0.035}_{-0.060}$
A_{143}^{tSZ}	—	D_{2000}	$229.2^{+4.4}_{-4.5}$	$f\sigma_8(0.51)$	$0.460^{+0.026}_{-0.040}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.970^{+0.017}_{-0.013}$	$\sigma_8(0.51)$	$0.603^{+0.033}_{-0.056}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2468^{+0.0043}_{-0.0017}$	$f\sigma_8(0.61)$	$0.455^{+0.025}_{-0.040}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2481^{+0.0044}_{-0.0017}$	$\sigma_8(0.61)$	$0.574^{+0.032}_{-0.054}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.12}_{-0.093}$	$f\sigma_8(2.33)$	$0.290^{+0.016}_{-0.027}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.14}_{-0.35}$	$\sigma_8(2.33)$	$0.299^{+0.017}_{-0.029}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.9}_{-4.7}$	z_*	$1090.14^{+0.86}_{-0.74}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.7}_{-4.7}$	r_*	$143.9^{+1.5}_{-3.5}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.5}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0013}$	f_{2000}^{217}	$108.6^{+4.8}_{-5.0}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.14}_{-0.32}$	χ_{small}^2	$313 (\nu: 12224.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.2}$	χ_{lowl}^2	$107 (\nu: 12231.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.6^{+1.7}_{-3.3}$	χ_{plik}^2	$774.2 (\nu: 16.0)$
H_0	$68.0^{+2.5}_{-1.6}$	k_{D}	$0.1410^{+0.0028}_{-0.0015}$	χ_{Aver15}^2	$0.76 (\nu: 0.3)$
Ω_{Λ}	$0.689^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16118^{+0.00099}_{-0.00073}$	$\chi_{\mathrm{Cooke17}}^2$	$0.22 (\nu: 0.1)$
Ω_{m}	$0.311^{+0.020}_{-0.019}$	z_{eq}	3316^{+100}_{-250}	$\chi_{6\mathrm{DF}}^2$	$0.33 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1437^{+0.0069}_{-0.0041}$	k_{eq}	$0.01022^{+0.00037}_{-0.00062}$	χ_{MGS}^2	$1.03 (\nu: 0.2)$
$\Omega_{\nu} h^2$	$0.0029^{+0.010}_{-0.0024}$	$100\theta_{\mathrm{eq}}$	$0.831^{+0.053}_{-0.023}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.6)$
$\Omega_{\mathrm{m}} h^3$	$0.0977^{+0.0067}_{-0.0029}$	$100\theta_{\mathrm{s,eq}}$	$0.459^{+0.028}_{-0.012}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
σ_8	$0.787^{+0.043}_{-0.071}$	$H(0.15)$	$73.3^{+2.5}_{-1.5}$	χ_{BAO}^2	$6.4 (\nu: 1.1)$
S_8	$0.801^{+0.051}_{-0.070}$	$D_{\mathrm{M}}(0.15)$	638^{+14}_{-22}	χ_{CMB}^2	$1194.0 (\nu: 15.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.438^{+0.028}_{-0.038}$	$H(0.38)$	$83.5^{+2.5}_{-1.2}$	χ_{Abund}^2	$0.98 (\nu: 0.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1208.67; R - 1 = 0.03900$$

8.17 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02235^{+0.00058}_{-0.00053}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.441^{+0.028}_{-0.040}$	$D_{\text{M}}(0.15)$	633^{+18}_{-30}
$\Omega_{\text{c}}h^2$	$0.120^{+0.010}_{-0.013}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.591^{+0.034}_{-0.054}$	$H(0.38)$	$84.0^{+3.4}_{-1.8}$
$100\theta_{\text{MC}}$	$1.0407^{+0.0012}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.958^{+0.048}_{-0.087}$	$D_{\text{M}}(0.38)$	1511^{+38}_{-69}
τ	$0.056^{+0.020}_{-0.015}$	$r_{\text{drag}}h$	$99.8^{+2.6}_{-2.5}$	$H(0.51)$	$90.8^{+3.5}_{-1.7}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 1.08	$\langle d^2 \rangle^{1/2}$	$2.414^{+0.075}_{-0.079}$	$D_{\text{M}}(0.51)$	1957^{+46}_{-87}
N_{eff}	< 3.76	z_{re}	< 9.72	$H(0.61)$	$96.4^{+3.5}_{-1.7}$
$\ln(10^{10}A_{\text{s}})$	$3.050^{+0.048}_{-0.035}$	10^9A_{s}	$2.11^{+0.10}_{-0.073}$	$D_{\text{M}}(0.61)$	2278^{+51}_{-99}
n_{s}	$0.973^{+0.022}_{-0.016}$	$10^9A_{\text{s}}e^{-2\tau}$	$1.888^{+0.050}_{-0.037}$	$H(2.33)$	$238.5^{+7.6}_{-4.4}$
y_{cal}	$1.0006^{+0.0063}_{-0.0064}$	D_{40}	1215^{+38}_{-43}	$D_{\text{M}}(2.33)$	5698^{+95}_{-200}
A_{217}^{CIB}	49^{+20}_{-20}	D_{220}	5720^{+100}_{-100}	$f\sigma_8(0.15)$	$0.446^{+0.028}_{-0.041}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2538^{+35}_{-35}	$\sigma_8(0.15)$	$0.733^{+0.044}_{-0.070}$
A_{143}^{tSZ}	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.043}$
A_{100}^{PS}	267^{+70}_{-70}	D_{2000}	$228.7^{+4.7}_{-5.3}$	$\sigma_8(0.38)$	$0.650^{+0.040}_{-0.063}$
A_{143}^{PS}	51^{+20}_{-20}	$n_{\text{s}, 0.002}$	$0.973^{+0.022}_{-0.016}$	$f\sigma_8(0.51)$	$0.463^{+0.027}_{-0.043}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	Y_{P}	$0.2480^{+0.0066}_{-0.0029}$	$\sigma_8(0.51)$	$0.608^{+0.038}_{-0.059}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.2493^{+0.0067}_{-0.0029}$	$f\sigma_8(0.61)$	$0.459^{+0.026}_{-0.043}$
A^{kSZ}	—	$10^5\text{D}/\text{H}$	$2.66^{+0.16}_{-0.12}$	$\sigma_8(0.61)$	$0.579^{+0.036}_{-0.057}$
A_{100}^{dustTT}	$9.1^{+4.8}_{-4.7}$	Age/Gyr	$13.64^{+0.22}_{-0.47}$	$f\sigma_8(2.33)$	$0.292^{+0.018}_{-0.029}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.7}$	z_*	$1090.3^{+1.2}_{-0.90}$	$\sigma_8(2.33)$	$0.301^{+0.020}_{-0.030}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.5}_{-8.5}$	r_*	$143.1^{+2.4}_{-4.6}$	f_{2000}^{143}	33^{+8}_{-8}
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0408^{+0.0013}_{-0.0016}$	$f_{2000}^{143 \times 217}$	35^{+6}_{-6}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.75^{+0.23}_{-0.43}$	f_{2000}^{217}	$109.1^{+5.5}_{-5.4}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1060.2^{+2.0}_{-1.5}$	χ_{small}^2	$397.2 (\nu: 2.0)$
H_0	$68.5^{+3.5}_{-2.0}$	r_{drag}	$145.7^{+2.5}_{-4.8}$	χ_{lowl}^2	$22.3 (\nu: 0.6)$
Ω_{Λ}	$0.690^{+0.020}_{-0.021}$	k_{D}	$0.1416^{+0.0039}_{-0.0021}$	χ_{plik}^2	$775.0 (\nu: 17.6)$
Ω_{m}	$0.310^{+0.021}_{-0.020}$	$100\theta_{\text{D}}$	$0.1614^{+0.0014}_{-0.00097}$	$\chi_{6\text{DF}}^2$	$0.062 (\nu: 0.0)$
$\Omega_{\text{m}}h^2$	$0.1452^{+0.0099}_{-0.0054}$	z_{eq}	3320^{+99}_{-250}	χ_{MGS}^2	$1.37 (\nu: 0.2)$
$\Omega_{\nu}h^2$	$0.0025^{+0.0099}_{-0.0023}$	k_{eq}	$0.01029^{+0.00042}_{-0.00067}$	χ_{DR12BAO}^2	$4.9 (\nu: 1.5)$
$\Omega_{\text{m}}h^3$	$0.0994^{+0.010}_{-0.0046}$	$100\theta_{\text{eq}}$	$0.829^{+0.056}_{-0.019}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
σ_8	$0.793^{+0.047}_{-0.075}$	$100\theta_{\text{s,eq}}$	$0.458^{+0.030}_{-0.010}$	χ_{BAO}^2	$6.3 (\nu: 1.0)$
S_8	$0.805^{+0.052}_{-0.074}$	$H(0.15)$	$73.8^{+3.6}_{-1.9}$	χ_{CMB}^2	$1194.5 (\nu: 16.6)$

$$\bar{\chi}_{\text{eff}}^2 = 1208.20; R - 1 = 0.02851$$

8.18 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02237^{+0.00057}_{-0.00053}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.591^{+0.034}_{-0.053}$	$D_{\text{M}}(0.38)$	1509^{+37}_{-67}
$\Omega_{\text{c}} h^2$	$0.120^{+0.010}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.958^{+0.047}_{-0.084}$	$H(0.51)$	$90.9^{+3.5}_{-1.8}$
$100\theta_{\text{MC}}$	$1.0407^{+0.0012}_{-0.0013}$	$r_{\text{drag}} h$	$99.9^{+2.5}_{-2.4}$	$D_{\text{M}}(0.51)$	1955^{+46}_{-85}
τ	$0.056^{+0.020}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.411^{+0.074}_{-0.078}$	$H(0.61)$	$96.5^{+3.5}_{-1.7}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 1.04	z_{re}	< 9.74	$D_{\text{M}}(0.61)$	2275^{+55}_{-93}
N_{eff}	< 3.77	$10^9 A_{\text{s}}$	$2.11^{+0.10}_{-0.074}$	$H(2.33)$	$238.5^{+7.6}_{-4.5}$
$\ln(10^{10} A_{\text{s}})$	$3.050^{+0.049}_{-0.035}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.888^{+0.051}_{-0.037}$	$D_{\text{M}}(2.33)$	5693^{+98}_{-200}
n_{s}	$0.974^{+0.022}_{-0.016}$	D_{40}	1214^{+37}_{-42}	$f\sigma_8(0.15)$	$0.446^{+0.027}_{-0.040}$
y_{cal}	$1.0006^{+0.0063}_{-0.0064}$	D_{220}	5721^{+100}_{-100}	$\sigma_8(0.15)$	$0.734^{+0.043}_{-0.068}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{810}	2538^{+36}_{-35}	$f\sigma_8(0.38)$	$0.465^{+0.027}_{-0.041}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.38)$	$0.651^{+0.039}_{-0.061}$
A_{143}^{tSZ}	—	D_{2000}	$228.7^{+4.7}_{-5.4}$	$f\sigma_8(0.51)$	$0.464^{+0.026}_{-0.042}$
A_{100}^{PS}	267^{+70}_{-70}	$n_{\text{s}, 0.002}$	$0.974^{+0.022}_{-0.016}$	$\sigma_8(0.51)$	$0.609^{+0.037}_{-0.058}$
A_{143}^{PS}	51^{+20}_{-20}	Y_{P}	$0.2481^{+0.0067}_{-0.0030}$	$f\sigma_8(0.61)$	$0.459^{+0.026}_{-0.042}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2494^{+0.0067}_{-0.0030}$	$\sigma_8(0.61)$	$0.580^{+0.035}_{-0.055}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.66^{+0.17}_{-0.12}$	$f\sigma_8(2.33)$	$0.293^{+0.018}_{-0.028}$
A^{kSZ}	—	Age/Gyr	$13.63^{+0.23}_{-0.47}$	$\sigma_8(2.33)$	$0.302^{+0.019}_{-0.029}$
A_{100}^{dustTT}	$9.1^{+4.9}_{-4.7}$	z_*	$1090.3^{+1.2}_{-0.91}$	f_{2000}^{143}	33^{+9}_{-8}
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.7}$	r_*	$143.0^{+2.5}_{-4.7}$	$f_{2000}^{143 \times 217}$	35^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.5}$	$100\theta_*$	$1.0408^{+0.0013}_{-0.0016}$	f_{2000}^{217}	$109.1^{+5.6}_{-5.4}$
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.74^{+0.23}_{-0.43}$	χ_{small}^2	$312 (\nu: 12352.2)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1060.2^{+2.0}_{-1.5}$	χ_{lowl}^2	$107 (\nu: 12349.9)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$145.7^{+2.6}_{-4.8}$	χ_{plik}^2	$775.2 (\nu: 17.4)$
H_0	$68.6^{+3.5}_{-2.0}$	k_{D}	$0.1416^{+0.0039}_{-0.0021}$	χ_{JLA}^2	$1035.03 (\nu: 0.1)$
Ω_{Λ}	$0.692^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	$0.1614^{+0.0015}_{-0.00098}$	χ_{6DF}^2	$0.36 (\nu: 0.2)$
Ω_{m}	$0.308^{+0.019}_{-0.019}$	z_{eq}	3320^{+95}_{-240}	χ_{MGS}^2	$1.13 (\nu: 0.3)$
$\Omega_{\text{m}} h^2$	$0.1452^{+0.0093}_{-0.0059}$	k_{eq}	$0.01029^{+0.00041}_{-0.00067}$	χ_{DR12BAO}^2	$4.6 (\nu: 1.1)$
$\Omega_{\nu} h^2$	$0.0024^{+0.0094}_{-0.0021}$	$100\theta_{\text{eq}}$	$0.829^{+0.055}_{-0.019}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
$\Omega_{\text{m}} h^3$	$0.0996^{+0.010}_{-0.0048}$	$100\theta_{\text{s,eq}}$	$0.458^{+0.029}_{-0.0096}$	χ_{BAO}^2	$6.1 (\nu: 0.7)$
σ_8	$0.794^{+0.046}_{-0.073}$	$H(0.15)$	$73.9^{+3.5}_{-1.8}$	χ_{CMB}^2	$1194.6 (\nu: 16.4)$
S_8	$0.805^{+0.050}_{-0.071}$	$D_{\text{M}}(0.15)$	632^{+17}_{-30}		
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.441^{+0.027}_{-0.039}$	$H(0.38)$	$84.1^{+3.4}_{-1.8}$		

$$\bar{\chi}_{\text{eff}}^2 = 2243.12; R - 1 = 0.02260$$

8.19 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02231^{+0.00054}_{-0.00051}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.589^{+0.034}_{-0.052}$	$D_{\mathrm{M}}(0.38)$	1520^{+31}_{-52}
$\Omega_{\mathrm{c}} h^2$	$0.1187^{+0.0087}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.956^{+0.048}_{-0.083}$	$H(0.51)$	$90.3^{+2.5}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0013}$	$r_{\mathrm{drag}} h$	$99.7^{+2.5}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1969^{+37}_{-65}
τ	$0.056^{+0.020}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.075}_{-0.070}$	$H(0.61)$	$95.9^{+2.5}_{-1.2}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 1.11	z_{re}	< 9.65	$D_{\mathrm{M}}(0.61)$	2291^{+40}_{-74}
N_{eff}	< 3.53	$10^9 A_{\mathrm{s}}$	$2.104^{+0.097}_{-0.068}$	$H(2.33)$	$237.4^{+6.1}_{-3.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.045}_{-0.033}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.041}_{-0.032}$	$D_{\mathrm{M}}(2.33)$	5728^{+66}_{-140}
n_{s}	$0.970^{+0.018}_{-0.014}$	D_{40}	1219^{+35}_{-37}	$f\sigma_8(0.15)$	$0.444^{+0.027}_{-0.039}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5720^{+100}_{-100}	$\sigma_8(0.15)$	$0.729^{+0.040}_{-0.067}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-34}	$f\sigma_8(0.38)$	$0.462^{+0.026}_{-0.041}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.646^{+0.036}_{-0.060}$
A_{143}^{tSZ}	—	D_{2000}	$229.1^{+4.5}_{-4.9}$	$f\sigma_8(0.51)$	$0.461^{+0.026}_{-0.041}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.970^{+0.018}_{-0.014}$	$\sigma_8(0.51)$	$0.605^{+0.034}_{-0.056}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2470^{+0.0048}_{-0.0018}$	$f\sigma_8(0.61)$	$0.456^{+0.025}_{-0.040}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2483^{+0.0048}_{-0.0018}$	$\sigma_8(0.61)$	$0.575^{+0.032}_{-0.054}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.13}_{-0.10}$	$f\sigma_8(2.33)$	$0.290^{+0.016}_{-0.027}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.71^{+0.16}_{-0.34}$	$\sigma_8(2.33)$	$0.299^{+0.017}_{-0.029}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.9}_{-4.7}$	z_*	$1090.17^{+0.99}_{-0.81}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.7}$	r_*	$143.8^{+1.7}_{-3.4}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.5}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0014}$	f_{2000}^{217}	$108.7^{+5.1}_{-5.2}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.81^{+0.17}_{-0.32}$	χ_{small}^2	$311 (\nu: 12436.7)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.3}$	χ_{lowl}^2	$109 (\nu: 12440.3)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.5^{+1.9}_{-3.6}$	χ_{plik}^2	$774.2 (\nu: 16.1)$
H_0	$68.1^{+2.6}_{-1.7}$	k_{D}	$0.1411^{+0.0029}_{-0.0016}$	χ_{Aver15}^2	$0.85 (\nu: 0.4)$
Ω_{Λ}	$0.689^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0011}_{-0.00080}$	$\chi_{6\mathrm{DF}}^2$	$0.35 (\nu: 0.2)$
Ω_{m}	$0.311^{+0.020}_{-0.019}$	z_{eq}	3316^{+100}_{-250}	χ_{MGS}^2	$1.02 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1439^{+0.0075}_{-0.0043}$	k_{eq}	$0.01023^{+0.00038}_{-0.00063}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.6)$
$\Omega_{\nu} h^2$	$0.0028^{+0.010}_{-0.0023}$	$100\theta_{\mathrm{eq}}$	$0.830^{+0.057}_{-0.021}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
$\Omega_{\mathrm{m}} h^3$	$0.0979^{+0.0073}_{-0.0031}$	$100\theta_{\mathrm{s}, \mathrm{eq}}$	$0.458^{+0.030}_{-0.011}$	χ_{BAO}^2	$6.4 (\nu: 1.1)$
σ_8	$0.788^{+0.043}_{-0.072}$	$H(0.15)$	$73.4^{+2.6}_{-1.5}$	χ_{CMB}^2	$1193.9 (\nu: 15.7)$
S_8	$0.802^{+0.051}_{-0.070}$	$D_{\mathrm{M}}(0.15)$	637^{+15}_{-23}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.439^{+0.028}_{-0.038}$	$H(0.38)$	$83.5^{+2.7}_{-1.3}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1208.49; R - 1 = 0.03891$$

8.20 base_nnu_meffsterile_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00052}_{-0.00048}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.588^{+0.033}_{-0.051}$	$D_{\mathrm{M}}(0.38)$	1521^{+30}_{-49}
$\Omega_{\mathrm{c}} h^2$	$0.1185^{+0.0081}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.955^{+0.048}_{-0.084}$	$H(0.51)$	$90.2^{+2.3}_{-1.2}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0012}$	$r_{\mathrm{drag}} h$	$99.7^{+2.5}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1970^{+35}_{-61}
τ	$0.056^{+0.020}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.076}_{-0.070}$	$H(0.61)$	$95.9^{+2.3}_{-1.1}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 1.11	z_{re}	< 9.66	$D_{\mathrm{M}}(0.61)$	2292^{+39}_{-70}
N_{eff}	< 3.48	$10^9 A_{\mathrm{s}}$	$2.103^{+0.097}_{-0.068}$	$H(2.33)$	$237.2^{+5.6}_{-3.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.045}_{-0.033}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.039}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5731^{+62}_{-130}
n_{s}	$0.970^{+0.017}_{-0.013}$	D_{40}	1220^{+35}_{-36}	$f\sigma_8(0.15)$	$0.444^{+0.027}_{-0.039}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5721^{+100}_{-100}	$\sigma_8(0.15)$	$0.728^{+0.039}_{-0.067}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-34}	$f\sigma_8(0.38)$	$0.462^{+0.026}_{-0.040}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+12}_{-12}	$\sigma_8(0.38)$	$0.645^{+0.035}_{-0.060}$
A_{143}^{tSZ}	—	D_{2000}	$229.2^{+4.4}_{-4.5}$	$f\sigma_8(0.51)$	$0.460^{+0.025}_{-0.041}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.970^{+0.017}_{-0.013}$	$\sigma_8(0.51)$	$0.604^{+0.033}_{-0.057}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2468^{+0.0043}_{-0.0017}$	$f\sigma_8(0.61)$	$0.456^{+0.025}_{-0.040}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2482^{+0.0044}_{-0.0017}$	$\sigma_8(0.61)$	$0.575^{+0.031}_{-0.054}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.12}_{-0.093}$	$f\sigma_8(2.33)$	$0.290^{+0.016}_{-0.027}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.15}_{-0.32}$	$\sigma_8(2.33)$	$0.299^{+0.017}_{-0.029}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.9}_{-4.7}$	z_*	$1090.13^{+0.86}_{-0.74}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.7}$	r_*	$143.9^{+1.5}_{-3.5}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.5}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0013}$	f_{2000}^{217}	$108.6^{+4.8}_{-5.0}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.16}_{-0.29}$	χ_{small}^2	$313 (\nu: 12200.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.2}$	χ_{lowl}^2	$107 (\nu: 12207.3)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.6^{+1.8}_{-3.3}$	χ_{plik}^2	$774.0 (\nu: 15.9)$
H_0	$68.0^{+2.5}_{-1.7}$	k_{D}	$0.1410^{+0.0028}_{-0.0016}$	χ_{Aver15}^2	$0.77 (\nu: 0.3)$
Ω_{Λ}	$0.689^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16118^{+0.00099}_{-0.00073}$	$\chi_{\mathrm{Cooke17}}^2$	$0.22 (\nu: 0.1)$
Ω_{m}	$0.311^{+0.020}_{-0.019}$	z_{eq}	3315^{+100}_{-250}	$\chi_{6\mathrm{DF}}^2$	$0.34 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1437^{+0.0069}_{-0.0041}$	k_{eq}	$0.01022^{+0.00037}_{-0.00063}$	χ_{MGS}^2	$1.03 (\nu: 0.2)$
$\Omega_{\nu} h^2$	$0.0029^{+0.010}_{-0.0023}$	$100\theta_{\mathrm{eq}}$	$0.831^{+0.058}_{-0.021}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.6)$
$\Omega_{\mathrm{m}} h^3$	$0.0977^{+0.0067}_{-0.0029}$	$100\theta_{\mathrm{s,eq}}$	$0.459^{+0.030}_{-0.011}$	χ_{prior}^2	$7.4 (\nu: 6.8)$
σ_8	$0.787^{+0.042}_{-0.072}$	$H(0.15)$	$73.3^{+2.4}_{-1.5}$	χ_{BAO}^2	$6.3 (\nu: 1.1)$
S_8	$0.801^{+0.051}_{-0.070}$	$D_{\mathrm{M}}(0.15)$	638^{+14}_{-22}	χ_{CMB}^2	$1193.8 (\nu: 15.5)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.439^{+0.028}_{-0.038}$	$H(0.38)$	$83.5^{+2.5}_{-1.2}$	χ_{Abund}^2	$0.99 (\nu: 0.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1208.48; R - 1 = 0.03789$$

8.21 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022412	$0.02250^{+0.00041}_{-0.00038}$	$\Omega_\nu h^2$	0.0039	$0.0027^{+0.0083}_{-0.0026}$	$100\theta_{s,eq}$	0.4595	$0.456^{+0.025}_{-0.0095}$
$\Omega_c h^2$	0.1161	$0.1187^{+0.0075}_{-0.0097}$	$\Omega_m h^3$	0.09632	$0.0977^{+0.0060}_{-0.0021}$	$H(0.15)$	72.95	$73.2^{+2.3}_{-1.2}$
$100\theta_{MC}$	1.04101	$1.04091^{+0.00079}_{-0.00086}$	σ_8	0.809	$0.792^{+0.039}_{-0.061}$	$D_M(0.15)$	640.7	639^{+12}_{-20}
τ	0.0546	$0.056^{+0.022}_{-0.020}$	S_8	0.823	$0.808^{+0.044}_{-0.062}$	$H(0.38)$	83.06	$83.4^{+2.3}_{-0.99}$
$m_{\nu, sterile}^{eff} [eV]$	0.302	< 0.947	$\sigma_8 \Omega_m^{0.5}$	0.4507	$0.443^{+0.024}_{-0.034}$	$D_M(0.38)$	1528.1	1523^{+25}_{-45}
N_{eff}	3.047	< 3.42	$\sigma_8 \Omega_m^{0.25}$	0.6037	$0.592^{+0.029}_{-0.045}$	$H(0.51)$	89.77	$90.2^{+2.4}_{-0.89}$
$\ln(10^{10} A_s)$	3.0434	$3.049^{+0.047}_{-0.042}$	$\sigma_8/h^{0.5}$	0.983	$0.961^{+0.043}_{-0.072}$	$D_M(0.51)$	1979.7	1972^{+29}_{-57}
n_s	0.9678	$0.969^{+0.016}_{-0.012}$	$r_{drag} h$	99.64	$99.4^{+2.2}_{-2.1}$	$H(0.61)$	95.39	$95.8^{+2.5}_{-0.82}$
y_{cal}	1.0007	$1.0008^{+0.0064}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.432	$2.430^{+0.066}_{-0.062}$	$D_M(0.61)$	2303.7	2295^{+32}_{-65}
A_{217}^{CIB}	47.9	47^{+20}_{-20}	z_{re}	7.69	$7.9^{+2.1}_{-2.2}$	$H(2.33)$	236.13	$237.4^{+5.1}_{-2.4}$
$\xi^{tSZ \times CIB}$	0.33	—	$10^9 A_s$	2.098	$2.11^{+0.10}_{-0.088}$	$D_M(2.33)$	5759	5733^{+50}_{-120}
A_{143}^{tSZ}	7.17	$5.4^{+4.5}_{-4.6}$	$10^9 A_s e^{-2\tau}$	1.8806	$1.885^{+0.034}_{-0.031}$	$f\sigma_8(0.15)$	0.4554	$0.447^{+0.024}_{-0.034}$
A_{100}^{PS}	251	260^{+70}_{-70}	D_{40}	1225.0	1225^{+33}_{-33}	$\sigma_8(0.15)$	0.7472	$0.732^{+0.036}_{-0.057}$
A_{143}^{PS}	45.9	47^{+20}_{-20}	D_{220}	5732	5738^{+100}_{-98}	$f\sigma_8(0.38)$	0.4738	$0.465^{+0.023}_{-0.035}$
$A_{143 \times 217}^{PS}$	44.5	43^{+20}_{-20}	D_{810}	2541.0	2541^{+34}_{-36}	$\sigma_8(0.38)$	0.6624	$0.648^{+0.032}_{-0.050}$
A_{217}^{PS}	118.3	115^{+30}_{-30}	D_{1420}	818.6	817^{+13}_{-12}	$f\sigma_8(0.51)$	0.4725	$0.463^{+0.022}_{-0.035}$
A^{kSZ}	0.0	—	D_{2000}	231.47	$230.6^{+4.3}_{-4.2}$	$\sigma_8(0.51)$	0.6199	$0.607^{+0.031}_{-0.047}$
A_{100}^{dustTT}	8.91	$9.0^{+4.7}_{-4.6}$	$n_{s,0.002}$	0.9678	$0.969^{+0.016}_{-0.012}$	$f\sigma_8(0.61)$	0.4676	$0.459^{+0.022}_{-0.035}$
A_{143}^{dustTT}	10.97	$11.0^{+4.6}_{-4.6}$	Y_P	0.24543	$0.2466^{+0.0039}_{-0.0013}$	$\sigma_8(0.61)$	0.5899	$0.577^{+0.029}_{-0.045}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.7^{+8.1}_{-8.5}$	Y_P^{BBN}	0.24675	$0.2479^{+0.0039}_{-0.0013}$	$f\sigma_8(2.33)$	0.2974	$0.291^{+0.015}_{-0.023}$
A_{217}^{dustTT}	94.6	94^{+20}_{-20}	$10^5 D/H$	2.578	$2.591^{+0.089}_{-0.069}$	$\sigma_8(2.33)$	0.3067	$0.300^{+0.016}_{-0.024}$
A_{100}^{dustTE}	0.112	$0.114^{+0.099}_{-0.095}$	Age/Gyr	13.787	$13.73^{+0.12}_{-0.29}$	f_{2000}^{143}	28.8	30^{+7}_{-7}
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.077}_{-0.076}$	z_*	1089.80	$1089.89^{+0.67}_{-0.60}$	$f_{2000}^{143 \times 217}$	31.88	33^{+5}_{-5}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	r_*	144.59	$143.8^{+1.3}_{-2.8}$	f_{2000}^{217}	106.57	$107.4^{+4.7}_{-4.7}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04119	$1.04104^{+0.00081}_{-0.00099}$	χ_{simall}^2	396.1	$397.4 (\nu: 2.5)$
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/Gpc$	13.887	$13.82^{+0.12}_{-0.26}$	χ_{lowl}^2	22.87	$22.90 (\nu: 0.4)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.68}$	z_{drag}	1059.97	$1060.3^{+1.4}_{-0.94}$	χ_{plik}^2	2345.2	$2362.0 (\nu: 19.2)$
c_{100}	0.99971	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	147.24	$146.4^{+1.2}_{-3.4}$	χ_{6DF}^2	0.030	$0.077 (\nu: 0.0)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14074	$0.1414^{+0.0025}_{-0.0012}$	χ_{MGS}^2	1.22	$1.15 (\nu: 0.1)$
H_0	67.67	$67.9^{+2.3}_{-1.4}$	$100\theta_D$	0.16074	$0.16084^{+0.00081}_{-0.00051}$	$\chi_{DR12BAO}^2$	4.44	$5.4 (\nu: 1.6)$
Ω_Λ	0.6892	$0.688^{+0.017}_{-0.017}$	z_{eq}	3309	3337^{+92}_{-220}	χ_{prior}^2	1.8	$11.7 (\nu: 10.5)$
Ω_m	0.3108	$0.312^{+0.017}_{-0.017}$	k_{eq}	0.010157	$0.01027^{+0.00033}_{-0.00054}$	χ_{BAO}^2	5.68	$6.6 (\nu: 1.1)$
$\Omega_m h^2$	0.14233	$0.1440^{+0.0061}_{-0.0034}$	$100\theta_{eq}$	0.8326	$0.827^{+0.048}_{-0.018}$	χ_{CMB}^2	2764.1	$2782.3 (\nu: 18.5)$

Best-fit $\chi_{eff}^2 = 2771.63$; $\bar{\chi}_{eff}^2 = 2800.57$; $R - 1 = 0.01553$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.44 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3_2_29: 22.87 plik_rd12_HM_v22b_TTTEEE: 2345.20

8.22 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022440	$0.02251^{+0.00041}_{-0.00037}$	$\Omega_m h^3$	0.09635	$0.0978^{+0.0074}_{-0.0022}$	$D_M(0.15)$	640.0	638^{+12}_{-20}
$\Omega_c h^2$	0.1189	$0.1187^{+0.0079}_{-0.0098}$	σ_8	0.811	$0.792^{+0.039}_{-0.061}$	$H(0.38)$	83.11	$83.5^{+2.4}_{-0.99}$
$100\theta_{MC}$	1.04102	$1.04092^{+0.00081}_{-0.00086}$	S_8	0.824	$0.807^{+0.044}_{-0.061}$	$D_M(0.38)$	1526.8	1521^{+24}_{-47}
τ	0.0585	$0.057^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4515	$0.442^{+0.024}_{-0.033}$	$H(0.51)$	89.81	$90.2^{+2.2}_{-1.0}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.025	< 0.964	$\sigma_8 \Omega_m^{0.25}$	0.6051	$0.592^{+0.029}_{-0.044}$	$D_M(0.51)$	1978.0	1970^{+29}_{-59}
N_{eff}	3.046	< 3.44	$\sigma_8/h^{0.5}$	0.985	$0.961^{+0.042}_{-0.072}$	$H(0.61)$	95.42	$95.9^{+2.3}_{-0.93}$
$\ln(10^{10} A_s)$	3.0505	$3.049^{+0.046}_{-0.042}$	$r_{\text{drag}} h$	99.76	$99.6^{+2.1}_{-2.1}$	$D_M(0.61)$	2302	2293^{+32}_{-68}
n_s	0.9672	$0.969^{+0.016}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	2.440	$2.428^{+0.065}_{-0.060}$	$H(2.33)$	236.07	$237.4^{+5.3}_{-2.4}$
y_{cal}	1.0005	$1.0007^{+0.0066}_{-0.0065}$	z_{re}	8.07	$7.9^{+2.1}_{-2.1}$	$D_M(2.33)$	5757	5730^{+50}_{-140}
A_{217}^{CIB}	48.2	47^{+20}_{-20}	$10^9 A_s$	2.113	$2.11^{+0.10}_{-0.088}$	$f\sigma_8(0.15)$	0.4562	$0.447^{+0.024}_{-0.034}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.34	—	$10^9 A_s e^{-2\tau}$	1.8796	$1.884^{+0.035}_{-0.031}$	$\sigma_8(0.15)$	0.7497	$0.732^{+0.036}_{-0.057}$
A_{143}^{tSZ}	7.23	$5.4^{+4.6}_{-4.6}$	D_{40}	1227.8	1224^{+33}_{-33}	$f\sigma_8(0.38)$	0.4749	$0.465^{+0.023}_{-0.035}$
A_{100}^{PS}	251	260^{+70}_{-70}	D_{220}	5738	5739^{+98}_{-100}	$\sigma_8(0.38)$	0.6647	$0.649^{+0.033}_{-0.051}$
A_{143}^{PS}	46.4	47^{+20}_{-20}	D_{810}	2539.4	2540^{+35}_{-36}	$f\sigma_8(0.51)$	0.4737	$0.463^{+0.023}_{-0.035}$
$A_{143 \times 217}^{\text{PS}}$	44.9	43^{+20}_{-20}	D_{1420}	817.8	817^{+12}_{-13}	$\sigma_8(0.51)$	0.6221	$0.607^{+0.031}_{-0.047}$
A_{217}^{PS}	118.0	115^{+30}_{-30}	D_{2000}	231.26	$230.6^{+4.2}_{-4.3}$	$f\sigma_8(0.61)$	0.4689	$0.458^{+0.022}_{-0.035}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9672	$0.969^{+0.016}_{-0.012}$	$\sigma_8(0.61)$	0.5920	$0.578^{+0.030}_{-0.045}$
A_{100}^{dustTT}	8.79	$9.0^{+4.7}_{-4.6}$	Y_P	0.24542	$0.2466^{+0.0042}_{-0.0013}$	$f\sigma_8(2.33)$	0.2986	$0.292^{+0.015}_{-0.023}$
A_{143}^{dustTT}	11.04	$11.0^{+4.6}_{-4.6}$	Y_P^{BBN}	0.24675	$0.2479^{+0.0042}_{-0.0013}$	$\sigma_8(2.33)$	0.3079	$0.301^{+0.016}_{-0.024}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.2}_{-8.5}$	$10^5 D/H$	2.573	$2.590^{+0.092}_{-0.068}$	f_{2000}^{143}	29.0	30^{+7}_{-7}
A_{217}^{dustTT}	94.7	94^{+20}_{-20}	Age/Gyr	13.784	$13.72^{+0.12}_{-0.33}$	$f_{2000}^{143 \times 217}$	32.0	33^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.113^{+0.099}_{-0.094}$	z_*	1089.76	$1089.87^{+0.69}_{-0.58}$	f_{2000}^{217}	106.65	$107.4^{+4.8}_{-4.8}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.079}_{-0.075}$	r_*	144.60	$143.8^{+1.2}_{-3.4}$	χ_{simall}^2	397	291 (ν : 14275.5)
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04120	$1.04105^{+0.00084}_{-0.0010}$	χ_{lowl}^2	23	129 (ν : 14277.5)
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.888	$13.82^{+0.11}_{-0.31}$	χ_{plik}^2	2344.6	2362.3 (ν : 19.5)
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.05	$1060.4^{+1.4}_{-0.93}$	χ_{JLA}^2	1034.98	1035.12 (ν : 0.1)
A_{217}^{dustTE}	2.07	$2.07^{+0.68}_{-0.67}$	r_{drag}	147.24	$146.4^{+1.3}_{-3.5}$	$\chi_{6\text{DF}}^2$	0.02	0.40 (ν : 0.2)
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14076	$0.1414^{+0.0026}_{-0.0012}$	χ_{MGS}^2	1.28	0.89 (ν : 0.2)
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16071	$0.16084^{+0.00084}_{-0.00051}$	χ_{DR12BAO}^2	4.25	5.0 (ν : 1.2)
H_0	67.75	$68.0^{+2.3}_{-1.3}$	z_{eq}	3377	3335^{+88}_{-220}	χ_{prior}^2	1.8	11.7 (ν : 10.6)
Ω_Λ	0.6902	$0.689^{+0.017}_{-0.017}$	k_{eq}	0.010311	$0.01026^{+0.00034}_{-0.00055}$	χ_{BAO}^2	5.56	6.3 (ν : 0.8)
Ω_m	0.3098	$0.311^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8183	$0.827^{+0.049}_{-0.018}$	χ_{CMB}^2	2764.7	2782.5 (ν : 18.6)
$\Omega_m h^2$	0.14222	$0.1438^{+0.0065}_{-0.0034}$	$100\theta_{s,\text{eq}}$	0.4520	$0.457^{+0.026}_{-0.0092}$			
$\Omega_\nu h^2$	0.0009	$0.0027^{+0.0088}_{-0.0025}$	$H(0.15)$	73.02	$73.3^{+2.3}_{-1.2}$			

Best-fit $\chi_{\text{eff}}^2 = 3806.99$; $\bar{\chi}_{\text{eff}}^2 = 3835.68$; $R - 1 = 0.01641$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.25 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.96 commander_dx12_v3_2_29: 23.15 plik_rd12_HM_v22b_TTTEEE: 2344.56 SN - JLA Pantheon18: 1034.98

8.23 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02249^{+0.00039}_{-0.00036}$	$\Omega_m h^3$	$0.0974^{+0.0048}_{-0.0018}$	$D_M(0.15)$	639^{+11}_{-17}
$\Omega_c h^2$	$0.1183^{+0.0066}_{-0.0095}$	σ_8	$0.790^{+0.037}_{-0.060}$	$H(0.38)$	$83.3^{+1.9}_{-0.91}$
$100\theta_{MC}$	$1.04094^{+0.00079}_{-0.00081}$	S_8	$0.807^{+0.045}_{-0.061}$	$D_M(0.38)$	1524^{+23}_{-39}
τ	$0.056^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.024}_{-0.033}$	$H(0.51)$	$90.1^{+1.9}_{-0.80}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.988	$\sigma_8 \Omega_m^{0.25}$	$0.591^{+0.029}_{-0.044}$	$D_M(0.51)$	1974^{+27}_{-48}
N_{eff}	< 3.35	$\sigma_8/h^{0.5}$	$0.960^{+0.043}_{-0.071}$	$H(0.61)$	$95.7^{+2.0}_{-0.72}$
$\ln(10^{10} A_s)$	$3.048^{+0.045}_{-0.042}$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1}$	$D_M(0.61)$	2297^{+30}_{-54}
n_s	$0.968^{+0.014}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.065}_{-0.062}$	$H(2.33)$	$237.2^{+4.3}_{-2.2}$
y_{cal}	$1.0007^{+0.0067}_{-0.0065}$	z_{re}	$7.8^{+2.0}_{-2.1}$	$D_M(2.33)$	5739^{+43}_{-98}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.108^{+0.097}_{-0.086}$	$f\sigma_8(0.15)$	$0.446^{+0.024}_{-0.033}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.032}_{-0.030}$	$\sigma_8(0.15)$	$0.730^{+0.035}_{-0.055}$
A_{143}^{tSZ}	$5.4^{+4.5}_{-4.6}$	D_{40}	1225^{+32}_{-33}	$f\sigma_8(0.38)$	$0.464^{+0.023}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5738^{+98}_{-100}	$\sigma_8(0.38)$	$0.647^{+0.031}_{-0.049}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2540^{+35}_{-36}	$f\sigma_8(0.51)$	$0.463^{+0.022}_{-0.035}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.606^{+0.029}_{-0.046}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.6^{+4.1}_{-4.3}$	$f\sigma_8(0.61)$	$0.458^{+0.021}_{-0.034}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.014}_{-0.011}$	$\sigma_8(0.61)$	$0.576^{+0.028}_{-0.044}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	Y_P	$0.2463^{+0.0032}_{-0.0011}$	$f\sigma_8(2.33)$	$0.291^{+0.014}_{-0.022}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.6}$	Y_P^{BBN}	$0.2477^{+0.0032}_{-0.0011}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.023}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.4}$	$10^5 D/H$	$2.588^{+0.081}_{-0.066}$	f_{2000}^{143}	30^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.739^{+0.099}_{-0.23}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.095}$	z_*	$1089.87^{+0.64}_{-0.58}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.7}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.079}_{-0.075}$	r_*	$144.0^{+1.0}_{-2.6}$	χ_{small}^2	$292 (\nu: 14191.0)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04108^{+0.00081}_{-0.00090}$	χ_{lowl}^2	$129 (\nu: 14191.3)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.830^{+0.099}_{-0.24}$	χ_{plik}^2	$2361.8 (\nu: 18.8)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.3^{+1.2}_{-0.84}$	χ_{Aver15}^2	$0.53 (\nu: 0.1)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.67}$	r_{drag}	$146.6^{+1.1}_{-2.7}$	$\chi_{6\text{DF}}^2$	$0.39 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1413^{+0.0021}_{-0.0011}$	χ_{MGS}^2	$0.84 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16081^{+0.00070}_{-0.00048}$	χ_{DR12BAO}^2	$5.3 (\nu: 1.6)$
H_0	$67.8^{+2.0}_{-1.3}$	z_{eq}	3334^{+94}_{-220}	χ_{prior}^2	$11.7 (\nu: 10.5)$
Ω_Λ	$0.688^{+0.016}_{-0.017}$	k_{eq}	$0.01025^{+0.00031}_{-0.00053}$	χ_{BAO}^2	$6.6 (\nu: 1.1)$
Ω_m	$0.312^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.828^{+0.046}_{-0.021}$	χ_{CMB}^2	$2782.1 (\nu: 18.1)$
$\Omega_m h^2$	$0.1437^{+0.0053}_{-0.0032}$	$100\theta_{s,\text{eq}}$	$0.457^{+0.024}_{-0.011}$		
$\Omega_\nu h^2$	$0.0029^{+0.0086}_{-0.0027}$	$H(0.15)$	$73.1^{+1.9}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2800.91; R - 1 = 0.01503$$

8.24 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02248^{+0.00039}_{-0.00035}$	$\Omega_m h^3$	$0.0974^{+0.0048}_{-0.0018}$	$D_M(0.15)$	639^{+11}_{-18}
$\Omega_c h^2$	$0.1184^{+0.0065}_{-0.0096}$	σ_8	$0.791^{+0.037}_{-0.060}$	$H(0.38)$	$83.3^{+1.9}_{-0.91}$
$100\theta_{MC}$	$1.04093^{+0.00079}_{-0.00080}$	S_8	$0.807^{+0.044}_{-0.061}$	$D_M(0.38)$	1525^{+23}_{-39}
τ	$0.056^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.024}_{-0.033}$	$H(0.51)$	$90.1^{+1.9}_{-0.80}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.991	$\sigma_8 \Omega_m^{0.25}$	$0.591^{+0.028}_{-0.044}$	$D_M(0.51)$	1975^{+27}_{-48}
N_{eff}	< 3.35	$\sigma_8/h^{0.5}$	$0.960^{+0.043}_{-0.072}$	$H(0.61)$	$95.7^{+2.0}_{-0.72}$
$\ln(10^{10} A_s)$	$3.048^{+0.045}_{-0.042}$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1}$	$D_M(0.61)$	2298^{+30}_{-55}
n_s	$0.968^{+0.014}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.066}_{-0.062}$	$H(2.33)$	$237.2^{+4.2}_{-2.3}$
y_{cal}	$1.0007^{+0.0066}_{-0.0065}$	z_{re}	$7.8^{+2.1}_{-2.1}$	$D_M(2.33)$	5739^{+43}_{-99}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.107^{+0.097}_{-0.086}$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.034}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.032}_{-0.030}$	$\sigma_8(0.15)$	$0.730^{+0.035}_{-0.056}$
A_{143}^{tSZ}	$5.4^{+4.6}_{-4.6}$	D_{40}	1225^{+32}_{-33}	$f\sigma_8(0.38)$	$0.464^{+0.023}_{-0.035}$
A_{100}^{PS}	260^{+70}_{-70}	D_{220}	5737^{+98}_{-99}	$\sigma_8(0.38)$	$0.647^{+0.031}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2540^{+35}_{-36}	$f\sigma_8(0.51)$	$0.463^{+0.022}_{-0.035}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.606^{+0.029}_{-0.047}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.5^{+4.1}_{-4.2}$	$f\sigma_8(0.61)$	$0.458^{+0.021}_{-0.035}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.014}_{-0.012}$	$\sigma_8(0.61)$	$0.576^{+0.028}_{-0.044}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	Y_P	$0.2464^{+0.0032}_{-0.0011}$	$f\sigma_8(2.33)$	$0.291^{+0.014}_{-0.022}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2477^{+0.0032}_{-0.0011}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.024}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.4}$	$10^5 D/H$	$2.590^{+0.076}_{-0.063}$	f_{2000}^{143}	30^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.739^{+0.099}_{-0.23}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.094}$	z_*	$1089.89^{+0.61}_{-0.57}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.7}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.079}_{-0.074}$	r_*	$144.0^{+1.1}_{-2.6}$	χ_{small}^2	$290 (\nu: 14344.0)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04107^{+0.00081}_{-0.00089}$	χ_{lowl}^2	$130 (\nu: 14345.4)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.83^{+0.10}_{-0.24}$	χ_{plik}^2	$2361.7 (\nu: 18.7)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.3^{+1.2}_{-0.87}$	χ_{Aver15}^2	$0.54 (\nu: 0.1)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.67}$	r_{drag}	$146.6^{+1.1}_{-2.7}$	χ_{Cooke17}^2	$0.17 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1413^{+0.0021}_{-0.0011}$	$\chi_{6\text{DF}}^2$	$0.39 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16082^{+0.00066}_{-0.00047}$	χ_{MGS}^2	$0.82 (\nu: 0.2)$
H_0	$67.8^{+2.0}_{-1.3}$	z_{eq}	3335^{+94}_{-220}	χ_{DR12BAO}^2	$5.4 (\nu: 1.6)$
Ω_Λ	$0.687^{+0.016}_{-0.017}$	k_{eq}	$0.01026^{+0.00030}_{-0.00054}$	χ_{prior}^2	$11.7 (\nu: 10.5)$
Ω_m	$0.313^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.828^{+0.046}_{-0.020}$	χ_{BAO}^2	$6.6 (\nu: 1.1)$
$\Omega_m h^2$	$0.1437^{+0.0052}_{-0.0032}$	$100\theta_{s,\text{eq}}$	$0.457^{+0.024}_{-0.011}$	χ_{CMB}^2	$2782.0 (\nu: 18.0)$
$\Omega_\nu h^2$	$0.0029^{+0.0087}_{-0.0027}$	$H(0.15)$	$73.1^{+2.0}_{-1.1}$	χ_{Abund}^2	$0.70 (\nu: 0.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2801.05; R - 1 = 0.01420$$

8.25 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02250^{+0.00041}_{-0.00038}$	$\Omega_{\nu}h^2$	$0.0027^{+0.0083}_{-0.0026}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.025}_{-0.0095}$
$\Omega_{\mathrm{c}}h^2$	$0.1187^{+0.0075}_{-0.0097}$	$\Omega_{\mathrm{m}}h^3$	$0.0977^{+0.0060}_{-0.0022}$	$H(0.15)$	$73.2^{+2.3}_{-1.2}$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00079}_{-0.00086}$	σ_8	$0.792^{+0.038}_{-0.061}$	$D_{\mathrm{M}}(0.15)$	638^{+12}_{-20}
τ	$0.057^{+0.020}_{-0.015}$	S_8	$0.808^{+0.044}_{-0.062}$	$H(0.38)$	$83.4^{+2.3}_{-1.0}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.949	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.443^{+0.024}_{-0.034}$	$D_{\mathrm{M}}(0.38)$	1523^{+24}_{-45}
N_{eff}	< 3.42	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.029}_{-0.045}$	$H(0.51)$	$90.2^{+2.4}_{-0.90}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.046}_{-0.034}$	$\sigma_8/h^{0.5}$	$0.961^{+0.043}_{-0.073}$	$D_{\mathrm{M}}(0.51)$	1972^{+29}_{-57}
n_{s}	$0.969^{+0.016}_{-0.012}$	$r_{\mathrm{drag}}h$	$99.4^{+2.2}_{-2.1}$	$H(0.61)$	$95.8^{+2.5}_{-0.82}$
y_{cal}	$1.0008^{+0.0064}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.065}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2295^{+32}_{-65}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.76	$H(2.33)$	$237.4^{+5.1}_{-2.4}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.112^{+0.098}_{-0.070}$	$D_{\mathrm{M}}(2.33)$	5733^{+50}_{-120}
A_{143}^{tSZ}	$5.4^{+4.5}_{-4.6}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.033}_{-0.031}$	$f\sigma_8(0.15)$	$0.447^{+0.023}_{-0.034}$
A_{100}^{PS}	260^{+70}_{-70}	D_{40}	1225^{+33}_{-33}	$\sigma_8(0.15)$	$0.732^{+0.036}_{-0.057}$
A_{143}^{PS}	47^{+20}_{-20}	D_{220}	5738^{+100}_{-99}	$f\sigma_8(0.38)$	$0.465^{+0.023}_{-0.035}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{810}	2541^{+35}_{-36}	$\sigma_8(0.38)$	$0.649^{+0.032}_{-0.050}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.51)$	$0.464^{+0.022}_{-0.035}$
A^{kSZ}	—	D_{2000}	$230.6^{+4.3}_{-4.2}$	$\sigma_8(0.51)$	$0.607^{+0.030}_{-0.047}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.969^{+0.016}_{-0.012}$	$f\sigma_8(0.61)$	$0.459^{+0.022}_{-0.035}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.6}$	Y_{P}	$0.2466^{+0.0039}_{-0.0013}$	$\sigma_8(0.61)$	$0.578^{+0.029}_{-0.045}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.7^{+8.1}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2479^{+0.0039}_{-0.0013}$	$f\sigma_8(2.33)$	$0.292^{+0.015}_{-0.023}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.591^{+0.090}_{-0.069}$	$\sigma_8(2.33)$	$0.300^{+0.016}_{-0.024}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.099}_{-0.095}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.12}_{-0.29}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.076}$	z_*	$1089.89^{+0.67}_{-0.60}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_*	$143.8^{+1.3}_{-2.9}$	f_{2000}^{217}	$107.4^{+4.7}_{-4.7}$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04104^{+0.00081}_{-0.0010}$	χ_{small}^2	$397.4 (\nu: 2.6)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.12}_{-0.26}$	χ_{lowl}^2	$22.90 (\nu: 0.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.68}$	z_{drag}	$1060.3^{+1.4}_{-0.90}$	χ_{plik}^2	$2361.9 (\nu: 19.2)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	$146.4^{+1.4}_{-3.0}$	$\chi_{6\mathrm{DF}}^2$	$0.076 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1414^{+0.0025}_{-0.0012}$	χ_{MGS}^2	$1.15 (\nu: 0.1)$
H_0	$67.9^{+2.3}_{-1.4}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00081}_{-0.00051}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.3 (\nu: 1.6)$
Ω_{Λ}	$0.688^{+0.017}_{-0.017}$	z_{eq}	3337^{+92}_{-220}	χ_{prior}^2	$11.7 (\nu: 10.6)$
Ω_{m}	$0.312^{+0.017}_{-0.017}$	k_{eq}	$0.01027^{+0.00033}_{-0.00054}$	χ_{BAO}^2	$6.6 (\nu: 1.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1440^{+0.0061}_{-0.0034}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.048}_{-0.018}$	χ_{CMB}^2	$2782.2 (\nu: 18.4)$

$\bar{\chi}_{\mathrm{eff}}^2 = 2800.45; R - 1 = 0.01583$

8.26 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00041}_{-0.00037}$	$\Omega_{\mathrm{m}}h^3$	$0.0978^{+0.0074}_{-0.0022}$	$D_{\mathrm{M}}(0.15)$	638^{+12}_{-21}
$\Omega_{\mathrm{c}}h^2$	$0.1187^{+0.0079}_{-0.0099}$	σ_8	$0.793^{+0.039}_{-0.061}$	$H(0.38)$	$83.5^{+2.5}_{-1.0}$
$100\theta_{\mathrm{MC}}$	$1.04092^{+0.00081}_{-0.00087}$	S_8	$0.807^{+0.044}_{-0.061}$	$D_{\mathrm{M}}(0.38)$	1521^{+24}_{-47}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.024}_{-0.034}$	$H(0.51)$	$90.2^{+2.2}_{-1.0}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.973	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.029}_{-0.045}$	$D_{\mathrm{M}}(0.51)$	1970^{+29}_{-59}
N_{eff}	< 3.44	$\sigma_8/h^{0.5}$	$0.961^{+0.042}_{-0.072}$	$H(0.61)$	$95.9^{+2.3}_{-0.94}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.046}_{-0.034}$	$r_{\mathrm{drag}}h$	$99.6^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2292^{+32}_{-68}
n_{s}	$0.969^{+0.016}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.064}_{-0.059}$	$H(2.33)$	$237.4^{+5.3}_{-2.4}$
y_{cal}	$1.0007^{+0.0066}_{-0.0065}$	z_{re}	< 9.78	$D_{\mathrm{M}}(2.33)$	5730^{+50}_{-130}
A_{217}^{CIB}	47^{+20}_{-20}	10^9A_{s}	$2.112^{+0.098}_{-0.071}$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.034}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.035}_{-0.031}$	$\sigma_8(0.15)$	$0.732^{+0.036}_{-0.057}$
A_{143}^{tSZ}	$5.4^{+4.6}_{-4.6}$	D_{40}	1224^{+33}_{-33}	$f\sigma_8(0.38)$	$0.465^{+0.023}_{-0.035}$
A_{100}^{PS}	260^{+70}_{-70}	D_{220}	5739^{+98}_{-100}	$\sigma_8(0.38)$	$0.649^{+0.033}_{-0.051}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2540^{+35}_{-36}	$f\sigma_8(0.51)$	$0.464^{+0.022}_{-0.035}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.608^{+0.031}_{-0.048}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.6^{+4.2}_{-4.3}$	$f\sigma_8(0.61)$	$0.459^{+0.022}_{-0.035}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.969^{+0.016}_{-0.012}$	$\sigma_8(0.61)$	$0.578^{+0.030}_{-0.045}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.6}$	Y_{P}	$0.2466^{+0.0042}_{-0.0013}$	$f\sigma_8(2.33)$	$0.292^{+0.015}_{-0.023}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2479^{+0.0042}_{-0.0014}$	$\sigma_8(2.33)$	$0.301^{+0.016}_{-0.024}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.590^{+0.092}_{-0.069}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.12}_{-0.31}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.113^{+0.099}_{-0.095}$	z_*	$1089.87^{+0.70}_{-0.58}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.8}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.079}_{-0.075}$	r_*	$143.8^{+1.2}_{-3.4}$	χ_{small}^2	$291 (\nu: 14232.5)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04104^{+0.00084}_{-0.0010}$	χ_{lowl}^2	$129 (\nu: 14235.3)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.13}_{-0.29}$	χ_{plik}^2	$2362.2 (\nu: 19.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.4^{+1.4}_{-0.93}$	χ_{JLA}^2	$1035.12 (\nu: 0.1)$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.68}_{-0.67}$	r_{drag}	$146.4^{+1.4}_{-3.2}$	$\chi_{6\mathrm{DF}}^2$	$0.40 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1414^{+0.0026}_{-0.0012}$	χ_{MGS}^2	$0.89 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00085}_{-0.00051}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.2)$
H_0	$68.0^{+2.4}_{-1.4}$	z_{eq}	3334^{+88}_{-220}	χ_{prior}^2	$11.7 (\nu: 10.6)$
Ω_{Λ}	$0.689^{+0.017}_{-0.017}$	k_{eq}	$0.01026^{+0.00034}_{-0.00055}$	χ_{BAO}^2	$6.3 (\nu: 0.8)$
Ω_{m}	$0.311^{+0.017}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.050}_{-0.018}$	χ_{CMB}^2	$2782.4 (\nu: 18.6)$
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0066}_{-0.0034}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.024}_{-0.010}$		
$\Omega_{\nu}h^2$	$0.0027^{+0.0089}_{-0.0026}$	$H(0.15)$	$73.3^{+2.3}_{-1.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3835.56; R - 1 = 0.01701$$

8.27 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00039}_{-0.00036}$	$\Omega_{\mathrm{m}}h^3$	$0.0974^{+0.0049}_{-0.0018}$	$D_{\mathrm{M}}(0.15)$	639^{+11}_{-17}
$\Omega_{\mathrm{c}}h^2$	$0.1183^{+0.0067}_{-0.0095}$	σ_8	$0.791^{+0.037}_{-0.060}$	$H(0.38)$	$83.3^{+1.9}_{-0.91}$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00079}_{-0.00081}$	S_8	$0.807^{+0.044}_{-0.061}$	$D_{\mathrm{M}}(0.38)$	1524^{+23}_{-39}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.024}_{-0.034}$	$H(0.51)$	$90.1^{+1.9}_{-0.80}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.991	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.591^{+0.028}_{-0.044}$	$D_{\mathrm{M}}(0.51)$	1974^{+28}_{-48}
N_{eff}	< 3.35	$\sigma_8/h^{0.5}$	$0.960^{+0.043}_{-0.072}$	$H(0.61)$	$95.7^{+2.0}_{-0.72}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.049^{+0.044}_{-0.033}$	$r_{\mathrm{drag}}h$	$99.4^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2297^{+30}_{-55}
n_{s}	$0.968^{+0.014}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.065}_{-0.060}$	$H(2.33)$	$237.2^{+4.3}_{-2.2}$
y_{cal}	$1.0007^{+0.0066}_{-0.0065}$	z_{re}	< 9.71	$D_{\mathrm{M}}(2.33)$	5739^{+43}_{-99}
A_{217}^{CIB}	47^{+20}_{-20}	10^9A_{s}	$2.110^{+0.095}_{-0.070}$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.034}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.032}_{-0.030}$	$\sigma_8(0.15)$	$0.731^{+0.034}_{-0.056}$
A_{143}^{tSZ}	$5.4^{+4.6}_{-4.6}$	D_{40}	1225^{+32}_{-33}	$f\sigma_8(0.38)$	$0.464^{+0.023}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5738^{+98}_{-100}	$\sigma_8(0.38)$	$0.648^{+0.031}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2540^{+35}_{-36}	$f\sigma_8(0.51)$	$0.463^{+0.022}_{-0.035}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.606^{+0.029}_{-0.047}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.6^{+4.1}_{-4.3}$	$f\sigma_8(0.61)$	$0.458^{+0.021}_{-0.035}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.968^{+0.014}_{-0.012}$	$\sigma_8(0.61)$	$0.577^{+0.028}_{-0.044}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.6}$	Y_{P}	$0.2464^{+0.0032}_{-0.0011}$	$f\sigma_8(2.33)$	$0.291^{+0.014}_{-0.022}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2477^{+0.0032}_{-0.0011}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.023}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.4}$	$10^5\mathrm{D}/\mathrm{H}$	$2.588^{+0.081}_{-0.066}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.74^{+0.10}_{-0.23}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.099}_{-0.095}$	z_*	$1089.87^{+0.65}_{-0.58}$	f_{2000}^{217}	$107.3^{+4.8}_{-4.8}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.079}_{-0.075}$	r_*	$144.0^{+1.0}_{-2.6}$	χ_{small}^2	$292 (\nu: 14138.5)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04108^{+0.00081}_{-0.00090}$	χ_{lowl}^2	$128 (\nu: 14139.9)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.830^{+0.098}_{-0.24}$	χ_{plik}^2	$2361.7 (\nu: 18.7)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.3^{+1.2}_{-0.85}$	χ_{Aver15}^2	$0.53 (\nu: 0.1)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.68}$	r_{drag}	$146.6^{+1.1}_{-2.7}$	$\chi_{6\mathrm{DF}}^2$	$0.39 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1413^{+0.0021}_{-0.0011}$	χ_{MGS}^2	$0.84 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16080^{+0.00070}_{-0.00048}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.3 (\nu: 1.6)$
H_0	$67.8^{+2.0}_{-1.3}$	z_{eq}	3333^{+93}_{-220}	χ_{prior}^2	$11.7 (\nu: 10.5)$
Ω_{Λ}	$0.688^{+0.016}_{-0.017}$	k_{eq}	$0.01025^{+0.00031}_{-0.00053}$	χ_{BAO}^2	$6.6 (\nu: 1.1)$
Ω_{m}	$0.312^{+0.017}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.046}_{-0.021}$	χ_{CMB}^2	$2782.0 (\nu: 18.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1437^{+0.0053}_{-0.0032}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.024}_{-0.011}$		
$\Omega_{\nu}h^2$	$0.0029^{+0.0086}_{-0.0027}$	$H(0.15)$	$73.1^{+1.9}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2800.77; R - 1 = 0.01526$$

8.28 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02248^{+0.00039}_{-0.00035}$	$\Omega_m h^3$	$0.0974^{+0.0049}_{-0.0018}$	$D_M(0.15)$	639^{+11}_{-18}
$\Omega_c h^2$	$0.1184^{+0.0065}_{-0.0096}$	σ_8	$0.791^{+0.037}_{-0.061}$	$H(0.38)$	$83.3^{+1.9}_{-0.91}$
$100\theta_{MC}$	$1.04093^{+0.00079}_{-0.00081}$	S_8	$0.807^{+0.044}_{-0.061}$	$D_M(0.38)$	1524^{+23}_{-39}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.5}$	$0.442^{+0.024}_{-0.034}$	$H(0.51)$	$90.1^{+1.9}_{-0.80}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.993	$\sigma_8 \Omega_m^{0.25}$	$0.591^{+0.028}_{-0.044}$	$D_M(0.51)$	1975^{+27}_{-48}
N_{eff}	< 3.35	$\sigma_8/h^{0.5}$	$0.961^{+0.043}_{-0.072}$	$H(0.61)$	$95.7^{+2.0}_{-0.72}$
$\ln(10^{10} A_s)$	$3.049^{+0.044}_{-0.033}$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1}$	$D_M(0.61)$	2298^{+30}_{-55}
n_s	$0.968^{+0.014}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.065}_{-0.060}$	$H(2.33)$	$237.2^{+4.2}_{-2.3}$
y_{cal}	$1.0007^{+0.0065}_{-0.0065}$	z_{re}	< 9.71	$D_M(2.33)$	5739^{+43}_{-99}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.110^{+0.095}_{-0.070}$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.034}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.032}_{-0.030}$	$\sigma_8(0.15)$	$0.731^{+0.034}_{-0.056}$
A_{143}^{tSZ}	$5.4^{+4.6}_{-4.6}$	D_{40}	1225^{+32}_{-33}	$f\sigma_8(0.38)$	$0.464^{+0.022}_{-0.035}$
A_{100}^{PS}	260^{+70}_{-70}	D_{220}	5737^{+98}_{-99}	$\sigma_8(0.38)$	$0.648^{+0.031}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2540^{+35}_{-36}	$f\sigma_8(0.51)$	$0.463^{+0.022}_{-0.035}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.606^{+0.029}_{-0.047}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.5^{+4.1}_{-4.2}$	$f\sigma_8(0.61)$	$0.458^{+0.021}_{-0.035}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.014}_{-0.012}$	$\sigma_8(0.61)$	$0.577^{+0.028}_{-0.044}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	Y_P	$0.2464^{+0.0032}_{-0.0011}$	$f\sigma_8(2.33)$	$0.291^{+0.014}_{-0.023}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2477^{+0.0032}_{-0.0011}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.023}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.4}$	$10^5 D/H$	$2.590^{+0.077}_{-0.063}$	f_{2000}^{143}	30^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.74^{+0.10}_{-0.23}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.095}$	z_*	$1089.89^{+0.62}_{-0.57}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.7}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.079}_{-0.075}$	r_*	$144.0^{+1.1}_{-2.6}$	χ_{small}^2	$290 (\nu: 14295.5)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04107^{+0.00080}_{-0.00089}$	χ_{lowl}^2	$130 (\nu: 14298.0)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.83^{+0.10}_{-0.24}$	χ_{plik}^2	$2361.6 (\nu: 18.7)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.3^{+1.2}_{-0.87}$	χ_{Aver15}^2	$0.54 (\nu: 0.1)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.67}$	r_{drag}	$146.6^{+1.1}_{-2.7}$	χ_{Cooke17}^2	$0.17 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1413^{+0.0021}_{-0.0011}$	$\chi_{6\text{DF}}^2$	$0.39 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16082^{+0.00067}_{-0.00047}$	χ_{MGS}^2	$0.83 (\nu: 0.2)$
H_0	$67.8^{+2.0}_{-1.3}$	z_{eq}	3334^{+92}_{-220}	χ_{DR12BAO}^2	$5.4 (\nu: 1.6)$
Ω_Λ	$0.687^{+0.016}_{-0.017}$	k_{eq}	$0.01026^{+0.00030}_{-0.00054}$	χ_{prior}^2	$11.7 (\nu: 10.5)$
Ω_m	$0.313^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.828^{+0.046}_{-0.020}$	χ_{BAO}^2	$6.6 (\nu: 1.1)$
$\Omega_m h^2$	$0.1437^{+0.0052}_{-0.0032}$	$100\theta_{s,\text{eq}}$	$0.457^{+0.024}_{-0.011}$	χ_{CMB}^2	$2781.9 (\nu: 17.9)$
$\Omega_\nu h^2$	$0.0029^{+0.0087}_{-0.0027}$	$H(0.15)$	$73.1^{+2.0}_{-1.1}$	χ_{Abund}^2	$0.71 (\nu: 0.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2800.91; R - 1 = 0.01453$$

8.29 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022350	$0.02243^{+0.00042}_{-0.00039} \quad (-0.5\sigma)$	σ_8	0.806	$0.788^{+0.043}_{-0.073} \quad (-0.2\sigma)$	$H(0.15)$	73.00	$73.4^{+2.6}_{-1.3} \quad (+0.3\sigma)$
$\Omega_c h^2$	0.1148	$0.1187^{+0.0087}_{-0.013} \quad (-0.0\sigma)$	S_8	0.818	$0.801^{+0.047}_{-0.073} \quad (-0.3\sigma)$	$D_M(0.15)$	640.1	$637^{+13}_{-23} \quad (-0.3\sigma)$
$100\theta_{MC}$	1.04097	$1.04082^{+0.00086}_{-0.0010} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4483	$0.439^{+0.026}_{-0.040} \quad (-0.3\sigma)$	$H(0.38)$	83.07	$83.6^{+2.4}_{-1.2} \quad (+0.3\sigma)$
τ	0.0538	$0.055^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6012	$0.588^{+0.032}_{-0.053} \quad (-0.3\sigma)$	$D_M(0.38)$	1527.2	$1519^{+27}_{-52} \quad (-0.3\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.38	$< 1.15 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.980	$0.955^{+0.046}_{-0.085} \quad (-0.3\sigma)$	$H(0.51)$	89.76	$90.3^{+2.5}_{-1.1} \quad (+0.3\sigma)$
N_{eff}	3.047	$< 3.53 \quad (+0.4\sigma)$	$r_{\text{drag}} h$	99.86	$99.7^{+2.3}_{-2.2} \quad (+0.3\sigma)$	$D_M(0.51)$	1978.7	$1967^{+32}_{-65} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	3.0404	$3.044^{+0.047}_{-0.045} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.425	$2.415^{+0.066}_{-0.068} \quad (-0.6\sigma)$	$H(0.61)$	95.36	$96.0^{+2.5}_{-1.1} \quad (+0.3\sigma)$
n_s	0.9680	$0.970^{+0.017}_{-0.013} \quad (+0.3\sigma)$	z_{re}	7.62	$7.7^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$D_M(0.61)$	2303	$2290^{+35}_{-75} \quad (-0.3\sigma)$
y_{cal}	1.0009	$1.0006^{+0.0064}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_s$	2.091	$2.10^{+0.10}_{-0.092} \quad (-0.3\sigma)$	$H(2.33)$	235.81	$237.5^{+5.6}_{-3.0} \quad (+0.0\sigma)$
A_{100}^{PS}	235	$243^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_s e^{-2\tau}$	1.8778	$1.881^{+0.040}_{-0.031} \quad (-0.3\sigma)$	$D_M(2.33)$	5761	$5725^{+58}_{-140} \quad (-0.2\sigma)$
A_{143}^{PS}	43.8	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{40}	1222.9	$1218^{+34}_{-35} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4530	$0.444^{+0.025}_{-0.040} \quad (-0.3\sigma)$
A_{217}^{PS}	104.5	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{220}	5726	$5723^{+99}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.745	$0.728^{+0.040}_{-0.067} \quad (-0.2\sigma)$
A_{217}^{CIB}	41.8	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2538.5	$2536^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4718	$0.462^{+0.025}_{-0.042} \quad (-0.3\sigma)$
A_{143}^{tSZ}	5.70	$< 8.78 \quad (-0.8\sigma)$	D_{1420}	817.4	$815^{+12}_{-13} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6609	$0.646^{+0.036}_{-0.060} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.693	$0.65^{+0.31}_{-0.33}$	D_{2000}	230.94	$229.5^{+4.3}_{-4.5} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	0.4707	$0.461^{+0.025}_{-0.042} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.71	—	$n_{s,0.002}$	0.9680	$0.970^{+0.017}_{-0.013} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	0.6186	$0.604^{+0.034}_{-0.057} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.48	—	Y_P	0.24540	$0.2469^{+0.0049}_{-0.0017} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	0.4659	$0.456^{+0.024}_{-0.041} \quad (-0.2\sigma)$
A^{kSZ}	1.2	—	Y_P^{BBN}	0.24673	$0.2483^{+0.0049}_{-0.0017} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	0.5886	$0.575^{+0.032}_{-0.054} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.02^{+0.50}_{-0.51}$	10^5D/H	2.590	$2.62^{+0.13}_{-0.084} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	0.2969	$0.290^{+0.016}_{-0.028} \quad (-0.1\sigma)$
A_{143}^{dust}	0.958	$0.97^{+0.45}_{-0.44}$	Age/Gyr	13.793	$13.71^{+0.14}_{-0.34} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	0.3062	$0.299^{+0.017}_{-0.029} \quad (-0.1\sigma)$
A_{217}^{dust}	0.975	$0.97^{+0.27}_{-0.27}$	z_*	1089.85	$1090.01^{+0.92}_{-0.68} \quad (+0.5\sigma)$	f_{2000}^{143}	29.4	$31^{+8}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.030	$1.03^{+0.42}_{-0.43}$	r_*	144.74	$143.7^{+1.5}_{-3.4} \quad (-0.1\sigma)$	f_{2000}^{217}	106.5	$107.6^{+5.1}_{-5.1} \quad (+0.1\sigma)$
c_{100}	0.99777	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$100\theta_*$	1.04116	$1.04094^{+0.00089}_{-0.0012} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$33^{+6}_{-5} \quad (+0.2\sigma)$
c_{217}	1.00120	$1.0012^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	$D_M(z_*)/\text{Gpc}$	13.901	$13.81^{+0.14}_{-0.32} \quad (-0.1\sigma)$	χ_{small}^2	395.95	$397.1 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{TE}	0.9969	$0.997^{+0.013}_{-0.013}$	z_{drag}	1059.82	$1060.2^{+1.5}_{-0.99} \quad (-0.3\sigma)$	χ_{lowl}^2	22.71	$22.47 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{EE}	0.9925	$0.994^{+0.014}_{-0.013}$	r_{drag}	147.41	$146.4^{+1.6}_{-3.6} \quad (-0.1\sigma)$	χ_{CamSpec}^2	11500.3	$11517.3 \quad (\nu: 18.6)$
H_0	67.75	$68.1^{+2.6}_{-1.5} \quad (+0.3\sigma)$	k_D	0.14051	$0.1413^{+0.0026}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{6\text{DF}}^2$	0.016	$0.058 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_Λ	0.6909	$0.690^{+0.018}_{-0.018} \quad (+0.3\sigma)$	$100\theta_D$	0.16083	$0.1610^{+0.0011}_{-0.00065} \quad (+0.8\sigma)$	χ_{MGS}^2	1.34	$1.30 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_m	0.3091	$0.310^{+0.018}_{-0.018} \quad (-0.3\sigma)$	z_{eq}	3278	$3321^{+93}_{-280} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	4.08	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
$\Omega_m h^2$	0.1419	$0.1439^{+0.0075}_{-0.0038} \quad (-0.0\sigma)$	k_{eq}	0.01008	$0.01024^{+0.00036}_{-0.00070} \quad (-0.2\sigma)$	χ_{prior}^2	2.1	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.0047	$0.0028^{+0.012}_{-0.0023} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8388	$0.830^{+0.065}_{-0.019} \quad (+0.2\sigma)$	χ_{BAO}^2	5.44	$6.2 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_m h^3$	0.0961	$0.0980^{+0.0074}_{-0.0026} \quad (+0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4628	$0.458^{+0.034}_{-0.0098} \quad (+0.2\sigma)$	χ_{CMB}^2	11919.0	$11936.9 \quad (\nu: 18.4) \quad (+1505.3\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11926.47$; $\Delta\chi_{\text{eff}}^2 = 9154.84$; $\bar{\chi}_{\text{eff}}^2 = 11950.99$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.42$; $R - 1 = 0.01562$
 χ_{eff}^2 : BAO - 6DF: 0.02 (Δ -0.01) MGS: 1.34 (Δ 0.13) DR12BAO: 4.08 (Δ -0.35) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.95 (Δ -0.10) commander_dx12_v3_2_29: 22.71 (Δ -0.16) CamSpec like_10.7HM_1400_unified: 11500.30

8.30 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00043}_{-0.00038} \quad (-0.5\sigma)$	S_8	$0.801^{+0.047}_{-0.073} \quad (-0.3\sigma)$	$H(0.38)$	$83.6^{+2.5}_{-1.2} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1186^{+0.0089}_{-0.013} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.026}_{-0.040} \quad (-0.3\sigma)$	$D_M(0.38)$	$1517^{+27}_{-51} \quad (-0.3\sigma)$
$100\theta_{MC}$	$1.04083^{+0.00086}_{-0.0010} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.588^{+0.031}_{-0.053} \quad (-0.3\sigma)$	$H(0.51)$	$90.4^{+2.5}_{-1.1} \quad (+0.2\sigma)$
τ	$0.055^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.955^{+0.046}_{-0.085} \quad (-0.3\sigma)$	$D_M(0.51)$	$1966^{+32}_{-64} \quad (-0.3\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.15 \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$99.8^{+2.2}_{-2.1} \quad (+0.3\sigma)$	$H(0.61)$	$96.0^{+2.6}_{-1.1} \quad (+0.2\sigma)$
N_{eff}	$< 3.54 \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.413^{+0.065}_{-0.066} \quad (-0.6\sigma)$	$D_M(0.61)$	$2288^{+35}_{-73} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.044^{+0.047}_{-0.045} \quad (-0.3\sigma)$	z_{re}	$7.7^{+2.0}_{-2.2} \quad (-0.2\sigma)$	$H(2.33)$	$237.4^{+5.7}_{-3.0} \quad (+0.0\sigma)$
n_s	$0.971^{+0.017}_{-0.013} \quad (+0.3\sigma)$	$10^9 A_s$	$2.10^{+0.10}_{-0.092} \quad (-0.3\sigma)$	$D_M(2.33)$	$5723^{+59}_{-150} \quad (-0.2\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.040}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.025}_{-0.040} \quad (-0.3\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1218^{+34}_{-35} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.729^{+0.040}_{-0.068} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5724^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.462^{+0.025}_{-0.042} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2536^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.646^{+0.036}_{-0.061} \quad (-0.2\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.461^{+0.024}_{-0.042} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	$229.6^{+4.3}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.605^{+0.033}_{-0.057} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.971^{+0.017}_{-0.013} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.042} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2470^{+0.0049}_{-0.0017} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.576^{+0.032}_{-0.054} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2483^{+0.0050}_{-0.0017} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.291^{+0.016}_{-0.028} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.61^{+0.13}_{-0.085} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.017}_{-0.029} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	Age/Gyr	$13.70^{+0.14}_{-0.35} \quad (-0.2\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (+0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	z_*	$1090.00^{+0.93}_{-0.68} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.6^{+5.1}_{-5.2} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$143.7^{+1.5}_{-3.5} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.43}$	$100\theta_*$	$1.04095^{+0.00091}_{-0.0012} \quad (-0.3\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.6) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.81^{+0.15}_{-0.33} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.41 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	$1060.2^{+1.5}_{-1.0} \quad (-0.4\sigma)$	χ_{CamSpec}^2	$11517.4 \quad (\nu: 18.5)$
c_{TE}	$0.998^{+0.013}_{-0.013}$	r_{drag}	$146.4^{+1.6}_{-3.6} \quad (-0.1\sigma)$	χ_{JLA}^2	$1035.04 \quad (\nu: 0.0) \quad (-0.2\sigma)$
c_{EE}	$0.994^{+0.014}_{-0.013}$	k_D	$0.1413^{+0.0027}_{-0.0015} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.6\sigma)$
H_0	$68.2^{+2.5}_{-1.4} \quad (+0.3\sigma)$	$100\theta_D$	$0.1610^{+0.0011}_{-0.00065} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_Λ	$0.691^{+0.017}_{-0.017} \quad (+0.3\sigma)$	z_{eq}	$3319^{+90}_{-280} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 1.0) \quad (-0.3\sigma)$
Ω_m	$0.309^{+0.017}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01024^{+0.00036}_{-0.00070} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1438^{+0.0078}_{-0.0038} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.830^{+0.065}_{-0.018} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_\nu h^2$	$0.0027^{+0.012}_{-0.0022} \quad (+0.0\sigma)$	$100\theta_{s,\text{eq}}$	$0.458^{+0.033}_{-0.011} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.9 \quad (\nu: 18.4) \quad (+1499.8\sigma)$
$\Omega_m h^3$	$0.0981^{+0.0075}_{-0.0027} \quad (+0.2\sigma)$	$H(0.15)$	$73.5^{+2.6}_{-1.3} \quad (+0.3\sigma)$		
σ_8	$0.788^{+0.043}_{-0.073} \quad (-0.2\sigma)$	$D_M(0.15)$	$636^{+13}_{-22} \quad (-0.3\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12985.86; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.18; R - 1 = 0.01581$$

8.31 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00041}_{-0.00037} \quad (-0.6\sigma)$	S_8	$0.799^{+0.047}_{-0.072} \quad (-0.4\sigma)$	$H(0.38)$	$83.4^{+2.0}_{-1.0} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1179^{+0.0076}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.026}_{-0.039} \quad (-0.4\sigma)$	$D_M(0.38)$	$1522^{+24}_{-44} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04087^{+0.00082}_{-0.00091} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.587^{+0.031}_{-0.053} \quad (-0.3\sigma)$	$H(0.51)$	$90.1^{+2.0}_{-0.94} \quad (+0.1\sigma)$
τ	$0.054^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.953^{+0.047}_{-0.084} \quad (-0.3\sigma)$	$D_M(0.51)$	$1972^{+28}_{-55} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.18 \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.2}_{-2.2} \quad (+0.3\sigma)$	$H(0.61)$	$95.8^{+2.0}_{-0.86} \quad (+0.1\sigma)$
N_{eff}	$< 3.41 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.066}_{-0.066} \quad (-0.6\sigma)$	$D_M(0.61)$	$2295^{+30}_{-62} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.042^{+0.046}_{-0.044} \quad (-0.4\sigma)$	z_{re}	$7.7^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(2.33)$	$237.0^{+4.9}_{-2.3} \quad (-0.2\sigma)$
n_s	$0.969^{+0.015}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.095^{+0.098}_{-0.091} \quad (-0.4\sigma)$	$D_M(2.33)$	$5737^{+46}_{-120} \quad (-0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.035}_{-0.029} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.025}_{-0.040} \quad (-0.3\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1220^{+33}_{-33} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.726^{+0.038}_{-0.066} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5723^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.461^{+0.025}_{-0.041} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.644^{+0.034}_{-0.059} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.459^{+0.024}_{-0.041} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	$229.7^{+4.2}_{-4.2} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.603^{+0.032}_{-0.055} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{s,0.002}$	$0.969^{+0.015}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.455^{+0.024}_{-0.041} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2465^{+0.0038}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.573^{+0.031}_{-0.053} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2478^{+0.0038}_{-0.0013} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.289^{+0.016}_{-0.027} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.61^{+0.10}_{-0.080} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.298^{+0.016}_{-0.028} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	Age/Gyr	$13.74^{+0.11}_{-0.27} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+7}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.96^{+0.77}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.1} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.0^{+1.3}_{-2.7} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.43}$	$100\theta_*$	$1.04101^{+0.00084}_{-0.0010} \quad (-0.2\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.6) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.12}_{-0.25} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.60 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.92} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11516.9 \quad (\nu: 17.8)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.8} \quad (+0.1\sigma)$	χ_{Aver15}^2	$0.61 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0023}_{-0.0011} \quad (-0.4\sigma)$	$\chi_{6\text{DF}}^2$	$0.058 \quad (\nu: 0.0) \quad (-0.6\sigma)$
H_0	$68.0^{+2.2}_{-1.3} \quad (+0.2\sigma)$	$100\theta_D$	$0.16097^{+0.00088}_{-0.00059} \quad (+0.7\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.7\sigma)$
Ω_Λ	$0.689^{+0.017}_{-0.018} \quad (+0.3\sigma)$	z_{eq}	$3316^{+98}_{-280} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
Ω_m	$0.311^{+0.018}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01021^{+0.00034}_{-0.00069} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1434^{+0.0061}_{-0.0033} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.831^{+0.064}_{-0.020} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_\nu h^2$	$0.0030^{+0.012}_{-0.0025} \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.459^{+0.034}_{-0.010} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.5 \quad (\nu: 17.9) \quad (+1522.0\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0057}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.2^{+2.2}_{-1.2} \quad (+0.2\sigma)$		
σ_8	$0.786^{+0.041}_{-0.071} \quad (-0.2\sigma)$	$D_M(0.15)$	$638^{+12}_{-19} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11951.21; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.31; R - 1 = 0.01810$$

8.32 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00040}_{-0.00037} \quad (-0.5\sigma)$	S_8	$0.799^{+0.047}_{-0.072} \quad (-0.4\sigma)$	$H(0.38)$	$83.4^{+1.9}_{-1.0} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1179^{+0.0071}_{-0.012} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.026}_{-0.039} \quad (-0.4\sigma)$	$D_M(0.38)$	$1522^{+23}_{-43} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04087^{+0.00081}_{-0.00089} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.587^{+0.031}_{-0.053} \quad (-0.3\sigma)$	$H(0.51)$	$90.1^{+1.9}_{-0.92} \quad (+0.1\sigma)$
τ	$0.054^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.953^{+0.046}_{-0.084} \quad (-0.3\sigma)$	$D_M(0.51)$	$1972^{+28}_{-54} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.18 \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.2}_{-2.2} \quad (+0.3\sigma)$	$H(0.61)$	$95.7^{+2.0}_{-0.85} \quad (+0.1\sigma)$
N_{eff}	$< 3.39 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.066}_{-0.066} \quad (-0.6\sigma)$	$D_M(0.61)$	$2295^{+30}_{-61} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.042^{+0.046}_{-0.044} \quad (-0.4\sigma)$	z_{re}	$7.7^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(2.33)$	$237.0^{+4.6}_{-2.3} \quad (-0.2\sigma)$
n_s	$0.969^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.095^{+0.098}_{-0.091} \quad (-0.4\sigma)$	$D_M(2.33)$	$5738^{+45}_{-110} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.035}_{-0.029} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.025}_{-0.040} \quad (-0.4\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1220^{+33}_{-33} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.726^{+0.038}_{-0.066} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5722^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.461^{+0.024}_{-0.041} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.644^{+0.034}_{-0.059} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.459^{+0.024}_{-0.041} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	$229.7^{+4.2}_{-4.1} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.603^{+0.032}_{-0.055} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{s,0.002}$	$0.969^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.455^{+0.023}_{-0.041} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2465^{+0.0036}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.573^{+0.031}_{-0.053} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2478^{+0.0036}_{-0.0013} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.289^{+0.016}_{-0.027} \quad (-0.2\sigma)$
A^{kSZ}	—	10^5D/H	$2.609^{+0.092}_{-0.075} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.298^{+0.016}_{-0.028} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	Age/Gyr	$13.74^{+0.11}_{-0.26} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+7}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.97^{+0.71}_{-0.62} \quad (+0.3\sigma)$	f_{2000}^{217}	$107.5^{+5.0}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.0^{+1.2}_{-2.6} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.43}$	$100\theta_*$	$1.04102^{+0.00084}_{-0.00099} \quad (-0.2\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.6) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.12}_{-0.24} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.61 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.91} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11516.8 \quad (\nu: 17.6)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.7} \quad (+0.2\sigma)$	χ_{Aver15}^2	$0.60 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0022}_{-0.0011} \quad (-0.4\sigma)$	χ_{Cooke17}^2	$0.12 \quad (\nu: 0.0) \quad (-0.3\sigma)$
H_0	$67.9^{+2.2}_{-1.3} \quad (+0.2\sigma)$	$100\theta_D$	$0.16097^{+0.00080}_{-0.00056} \quad (+0.7\sigma)$	$\chi_{6\text{DF}}^2$	$0.058 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_Λ	$0.689^{+0.017}_{-0.017} \quad (+0.3\sigma)$	z_{eq}	$3317^{+98}_{-280} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.28 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_m	$0.311^{+0.017}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01021^{+0.00033}_{-0.00069} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
$\Omega_m h^2$	$0.1434^{+0.0056}_{-0.0033} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.831^{+0.065}_{-0.020} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$0.0030^{+0.012}_{-0.0025} \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.459^{+0.034}_{-0.010} \quad (+0.3\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0054}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.2^{+2.2}_{-1.2} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.5 \quad (\nu: 17.7) \quad (+1526.3\sigma)$
σ_8	$0.786^{+0.041}_{-0.072} \quad (-0.3\sigma)$	$D_M(0.15)$	$638^{+11}_{-19} \quad (-0.2\sigma)$	χ_{Abund}^2	$0.72 \quad (\nu: 0.2) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11951.25; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.20; R - 1 = 0.01822$$

8.33 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00042}_{-0.00038} \quad (-0.5\sigma)$	σ_8	$0.789^{+0.042}_{-0.070} \quad (-0.2\sigma)$	$H(0.15)$	$73.4^{+2.6}_{-1.3} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1187^{+0.0088}_{-0.012} \quad (-0.0\sigma)$	S_8	$0.802^{+0.047}_{-0.070} \quad (-0.3\sigma)$	$D_M(0.15)$	$637^{+13}_{-23} \quad (-0.3\sigma)$
$100\theta_{MC}$	$1.04082^{+0.00086}_{-0.0010} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.439^{+0.026}_{-0.038} \quad (-0.3\sigma)$	$H(0.38)$	$83.6^{+2.5}_{-1.2} \quad (+0.3\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.589^{+0.032}_{-0.051} \quad (-0.3\sigma)$	$D_M(0.38)$	$1518^{+27}_{-52} \quad (-0.3\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.11 \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.956^{+0.046}_{-0.082} \quad (-0.3\sigma)$	$H(0.51)$	$90.3^{+2.5}_{-1.1} \quad (+0.3\sigma)$
N_{eff}	$< 3.54 \quad (+0.4\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.3}_{-2.2} \quad (+0.3\sigma)$	$D_M(0.51)$	$1967^{+32}_{-65} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.046^{+0.042}_{-0.033} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.064}_{-0.063} \quad (-0.6\sigma)$	$H(0.61)$	$96.0^{+2.6}_{-1.1} \quad (+0.3\sigma)$
n_s	$0.971^{+0.017}_{-0.013} \quad (+0.3\sigma)$	z_{re}	$< 9.52 \quad (-0.2\sigma)$	$D_M(0.61)$	$2289^{+35}_{-75} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_s$	$2.103^{+0.091}_{-0.069} \quad (-0.3\sigma)$	$H(2.33)$	$237.5^{+5.6}_{-3.0} \quad (+0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.040}_{-0.031} \quad (-0.3\sigma)$	$D_M(2.33)$	$5725^{+58}_{-150} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{40}	$1218^{+34}_{-35} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.444^{+0.025}_{-0.039} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{220}	$5723^{+99}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.729^{+0.039}_{-0.066} \quad (-0.2\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2536^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.462^{+0.025}_{-0.040} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.646^{+0.035}_{-0.059} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.32}_{-0.33}$	D_{2000}	$229.6^{+4.3}_{-4.6} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.461^{+0.025}_{-0.040} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$n_{s,0.002}$	$0.971^{+0.017}_{-0.013} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.605^{+0.033}_{-0.055} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P	$0.2470^{+0.0049}_{-0.0017} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.040} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.2483^{+0.0049}_{-0.0017} \quad (+0.4\sigma)$	$\sigma_8(0.61)$	$0.576^{+0.032}_{-0.053} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	$10^5 \text{D}/\text{H}$	$2.62^{+0.13}_{-0.085} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	$0.291^{+0.016}_{-0.027} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.44}$	Age/Gyr	$13.71^{+0.14}_{-0.35} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.017}_{-0.028} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	z_*	$1090.01^{+0.92}_{-0.69} \quad (+0.5\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.43}$	r_*	$143.7^{+1.5}_{-3.5} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.6^{+5.1}_{-5.1} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$100\theta_*$	$1.04094^{+0.00090}_{-0.0012} \quad (-0.3\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.81^{+0.15}_{-0.32} \quad (-0.1\sigma)$	χ_{simall}^2	$397.0 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1060.2^{+1.4}_{-0.99} \quad (-0.3\sigma)$	χ_{lowl}^2	$22.48 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{EE}	$0.994^{+0.014}_{-0.013}$	r_{drag}	$146.4^{+1.6}_{-3.6} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$11517.2 \quad (\nu: 18.1)$
H_0	$68.1^{+2.6}_{-1.5} \quad (+0.3\sigma)$	k_D	$0.1413^{+0.0026}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{6\text{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_Λ	$0.690^{+0.018}_{-0.018} \quad (+0.3\sigma)$	$100\theta_D$	$0.1610^{+0.0011}_{-0.00064} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.31 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_m	$0.310^{+0.018}_{-0.018} \quad (-0.3\sigma)$	z_{eq}	$3321^{+93}_{-270} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
$\Omega_m h^2$	$0.1439^{+0.0076}_{-0.0038} \quad (-0.0\sigma)$	k_{eq}	$0.01024^{+0.00036}_{-0.00069} \quad (-0.2\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$0.0028^{+0.012}_{-0.0027} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	$0.830^{+0.063}_{-0.019} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_m h^3$	$0.0981^{+0.0074}_{-0.0027} \quad (+0.2\sigma)$	$100\theta_{s,\text{eq}}$	$0.458^{+0.033}_{-0.0098} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.7 \quad (\nu: 17.9) \quad (+1509.3\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11950.77; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.32; R - 1 = 0.01713$$

8.34 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02244^{+0.00043}_{-0.00038} \quad (-0.5\sigma)$	S_8	$0.801^{+0.047}_{-0.070} \quad (-0.3\sigma)$	$H(0.38)$	$83.6^{+2.5}_{-1.2} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1187^{+0.0089}_{-0.013} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.439^{+0.026}_{-0.038} \quad (-0.3\sigma)$	$D_M(0.38)$	$1517^{+27}_{-51} \quad (-0.3\sigma)$
$100\theta_{MC}$	$1.04083^{+0.00086}_{-0.0010} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.589^{+0.031}_{-0.051} \quad (-0.2\sigma)$	$H(0.51)$	$90.4^{+2.5}_{-1.1} \quad (+0.2\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.956^{+0.045}_{-0.082} \quad (-0.2\sigma)$	$D_M(0.51)$	$1965^{+32}_{-64} \quad (-0.3\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.10 \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$99.8^{+2.2}_{-2.1} \quad (+0.3\sigma)$	$H(0.61)$	$96.0^{+2.6}_{-1.1} \quad (+0.2\sigma)$
N_{eff}	$< 3.54 \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.415^{+0.064}_{-0.062} \quad (-0.6\sigma)$	$D_M(0.61)$	$2287^{+36}_{-73} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.046^{+0.045}_{-0.031} \quad (-0.3\sigma)$	z_{re}	$< 9.52 \quad (-0.2\sigma)$	$H(2.33)$	$237.4^{+5.8}_{-3.0} \quad (+0.0\sigma)$
n_s	$0.971^{+0.017}_{-0.012} \quad (+0.3\sigma)$	$10^9 A_s$	$2.103^{+0.096}_{-0.064} \quad (-0.3\sigma)$	$D_M(2.33)$	$5723^{+59}_{-150} \quad (-0.2\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.040}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.444^{+0.025}_{-0.039} \quad (-0.3\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1218^{+34}_{-35} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.730^{+0.039}_{-0.066} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5724^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.462^{+0.025}_{-0.040} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2536^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.647^{+0.035}_{-0.059} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+12}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.461^{+0.024}_{-0.040} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	$229.6^{+4.3}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.606^{+0.033}_{-0.055} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.971^{+0.017}_{-0.012} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.456^{+0.024}_{-0.040} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2470^{+0.0050}_{-0.0017} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.576^{+0.032}_{-0.053} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2483^{+0.0050}_{-0.0017} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.291^{+0.016}_{-0.027} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.61^{+0.13}_{-0.085} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.017}_{-0.028} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.51}$	Age/Gyr	$13.70^{+0.14}_{-0.35} \quad (-0.2\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (+0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.99^{+0.93}_{-0.68} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.6^{+5.1}_{-5.2} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$143.7^{+1.6}_{-3.5} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.43}$	$100\theta_*$	$1.04095^{+0.00091}_{-0.0012} \quad (-0.3\sigma)$	χ_{simall}^2	$397.0 \quad (\nu: 1.7) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.81^{+0.15}_{-0.33} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.42 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1060.2^{+1.5}_{-0.97} \quad (-0.4\sigma)$	χ_{CamSpec}^2	$11517.3 \quad (\nu: 18.1)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.4^{+1.6}_{-3.7} \quad (-0.1\sigma)$	χ_{JLA}^2	$1035.04 \quad (\nu: 0.0) \quad (-0.2\sigma)$
c_{EE}	$0.994^{+0.014}_{-0.013}$	k_D	$0.1413^{+0.0027}_{-0.0015} \quad (-0.2\sigma)$	χ_{6DF}^2	$0.047 \quad (\nu: 0.0) \quad (-0.6\sigma)$
H_0	$68.2^{+2.5}_{-1.5} \quad (+0.3\sigma)$	$100\theta_D$	$0.1610^{+0.0011}_{-0.00066} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_Λ	$0.691^{+0.017}_{-0.017} \quad (+0.3\sigma)$	z_{eq}	$3319^{+90}_{-270} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 0.9) \quad (-0.3\sigma)$
Ω_m	$0.309^{+0.017}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01024^{+0.00036}_{-0.00069} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1438^{+0.0078}_{-0.0038} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.830^{+0.063}_{-0.018} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_\nu h^2$	$0.0027^{+0.012}_{-0.0026} \quad (+0.0\sigma)$	$100\theta_{s,\text{eq}}$	$0.458^{+0.033}_{-0.0094} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.7 \quad (\nu: 17.9) \quad (+1502.4\sigma)$
$\Omega_m h^3$	$0.0981^{+0.0076}_{-0.0027} \quad (+0.2\sigma)$	$H(0.15)$	$73.5^{+2.6}_{-1.3} \quad (+0.3\sigma)$		
σ_8	$0.789^{+0.042}_{-0.071} \quad (-0.2\sigma)$	$D_M(0.15)$	$636^{+13}_{-22} \quad (-0.3\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12985.64; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.08; R - 1 = 0.01787$$

8.35 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00040}_{-0.00037} \quad (-0.5\sigma)$	S_8	$0.800^{+0.047}_{-0.069} \quad (-0.3\sigma)$	$H(0.38)$	$83.4^{+2.2}_{-0.93} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1179^{+0.0076}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.026}_{-0.038} \quad (-0.3\sigma)$	$D_M(0.38)$	$1522^{+24}_{-43} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04087^{+0.00082}_{-0.00091} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.587^{+0.031}_{-0.050} \quad (-0.3\sigma)$	$H(0.51)$	$90.1^{+2.0}_{-0.93} \quad (+0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.954^{+0.046}_{-0.081} \quad (-0.3\sigma)$	$D_M(0.51)$	$1972^{+28}_{-54} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.16 \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.2}_{-2.2} \quad (+0.3\sigma)$	$H(0.61)$	$95.8^{+2.0}_{-0.86} \quad (+0.1\sigma)$
N_{eff}	$< 3.41 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.065}_{-0.060} \quad (-0.5\sigma)$	$D_M(0.61)$	$2294^{+31}_{-62} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.044^{+0.044}_{-0.030} \quad (-0.3\sigma)$	z_{re}	$< 9.52 \quad (-0.2\sigma)$	$H(2.33)$	$237.0^{+4.9}_{-2.3} \quad (-0.2\sigma)$
n_s	$0.969^{+0.015}_{-0.012} \quad (+0.3\sigma)$	$10^9 A_s$	$2.100^{+0.088}_{-0.067} \quad (-0.3\sigma)$	$D_M(2.33)$	$5737^{+46}_{-110} \quad (-0.1\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.036}_{-0.029} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.025}_{-0.038} \quad (-0.3\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1220^{+33}_{-33} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.727^{+0.038}_{-0.064} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5722^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.461^{+0.024}_{-0.040} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.645^{+0.034}_{-0.057} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.460^{+0.024}_{-0.039} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{2000}	$229.7^{+4.2}_{-4.3} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.603^{+0.032}_{-0.054} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{s,0.002}$	$0.969^{+0.015}_{-0.012} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.455^{+0.023}_{-0.039} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2465^{+0.0038}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.574^{+0.030}_{-0.051} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2479^{+0.0038}_{-0.0013} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.290^{+0.015}_{-0.026} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.61^{+0.10}_{-0.081} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.299^{+0.016}_{-0.027} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.50}$	Age/Gyr	$13.73^{+0.11}_{-0.27} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+7}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.96^{+0.77}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.1} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.0^{+1.3}_{-2.7} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.43}$	$100\theta_*$	$1.04101^{+0.00084}_{-0.0010} \quad (-0.2\sigma)$	χ_{simall}^2	$397.0 \quad (\nu: 1.7) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.12}_{-0.26} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.61 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0038} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.89} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11516.7 \quad (\nu: 17.4)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.8} \quad (+0.1\sigma)$	χ_{Aver15}^2	$0.62 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0023}_{-0.0011} \quad (-0.4\sigma)$	$\chi_{6\text{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (-0.6\sigma)$
H_0	$68.0^{+2.2}_{-1.3} \quad (+0.2\sigma)$	$100\theta_D$	$0.16097^{+0.00089}_{-0.00059} \quad (+0.7\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_Λ	$0.690^{+0.017}_{-0.018} \quad (+0.3\sigma)$	z_{eq}	$3316^{+97}_{-280} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
Ω_m	$0.310^{+0.018}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01021^{+0.00034}_{-0.00066} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1434^{+0.0061}_{-0.0033} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.831^{+0.063}_{-0.020} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.2\sigma)$
$\Omega_\nu h^2$	$0.0030^{+0.012}_{-0.0025} \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.459^{+0.033}_{-0.010} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.3 \quad (\nu: 17.4) \quad (+1527.2\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0057}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.3^{+2.2}_{-1.2} \quad (+0.2\sigma)$		
σ_8	$0.787^{+0.041}_{-0.069} \quad (-0.2\sigma)$	$D_M(0.15)$	$638^{+12}_{-19} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11950.98; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.21; R - 1 = 0.01936$$

8.36 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00040}_{-0.00036} \quad (-0.5\sigma)$	S_8	$0.800^{+0.046}_{-0.069} \quad (-0.4\sigma)$	$H(0.38)$	$83.4^{+2.1}_{-0.92} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1179^{+0.0071}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.438^{+0.025}_{-0.038} \quad (-0.4\sigma)$	$D_M(0.38)$	$1522^{+23}_{-43} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04087^{+0.00082}_{-0.00089} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.587^{+0.030}_{-0.050} \quad (-0.3\sigma)$	$H(0.51)$	$90.1^{+1.9}_{-0.92} \quad (+0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.954^{+0.046}_{-0.081} \quad (-0.3\sigma)$	$D_M(0.51)$	$1972^{+28}_{-53} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 1.17 \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$99.7^{+2.2}_{-2.1} \quad (+0.3\sigma)$	$H(0.61)$	$95.8^{+2.0}_{-0.84} \quad (+0.1\sigma)$
N_{eff}	$< 3.39 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.065}_{-0.060} \quad (-0.5\sigma)$	$D_M(0.61)$	$2295^{+30}_{-60} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.044^{+0.044}_{-0.030} \quad (-0.3\sigma)$	z_{re}	$< 9.52 \quad (-0.2\sigma)$	$H(2.33)$	$237.0^{+4.6}_{-2.3} \quad (-0.2\sigma)$
n_s	$0.969^{+0.015}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.100^{+0.088}_{-0.067} \quad (-0.3\sigma)$	$D_M(2.33)$	$5737^{+45}_{-110} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.879^{+0.035}_{-0.029} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.443^{+0.025}_{-0.039} \quad (-0.3\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1220^{+33}_{-32} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.727^{+0.038}_{-0.065} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5722^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.461^{+0.024}_{-0.040} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.645^{+0.034}_{-0.057} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.460^{+0.023}_{-0.039} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{2000}	$229.7^{+4.2}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.603^{+0.032}_{-0.054} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{s,0.002}$	$0.969^{+0.015}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.455^{+0.023}_{-0.039} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2465^{+0.0036}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.574^{+0.030}_{-0.051} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2478^{+0.0036}_{-0.0013} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.290^{+0.015}_{-0.026} \quad (-0.2\sigma)$
A^{kSZ}	—	10^5D/H	$2.608^{+0.092}_{-0.075} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.299^{+0.016}_{-0.027} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.50}$	Age/Gyr	$13.74^{+0.10}_{-0.26} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+7}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.96^{+0.71}_{-0.62} \quad (+0.3\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.0^{+1.3}_{-2.6} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.41}_{-0.43}$	$100\theta_*$	$1.04101^{+0.00084}_{-0.00099} \quad (-0.2\sigma)$	χ_{simall}^2	$397.0 \quad (\nu: 1.7) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.12}_{-0.24} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.62 \quad (\nu: 0.4) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0038} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.88} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11516.6 \quad (\nu: 17.3)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.7} \quad (+0.2\sigma)$	χ_{Aver15}^2	$0.61 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0022}_{-0.0011} \quad (-0.4\sigma)$	χ_{Cooke17}^2	$0.12 \quad (\nu: 0.0) \quad (-0.3\sigma)$
H_0	$67.9^{+2.2}_{-1.3} \quad (+0.2\sigma)$	$100\theta_D$	$0.16097^{+0.00080}_{-0.00056} \quad (+0.7\sigma)$	χ_{6DF}^2	$0.057 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_Λ	$0.689^{+0.017}_{-0.018} \quad (+0.3\sigma)$	z_{eq}	$3317^{+98}_{-280} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_m	$0.311^{+0.018}_{-0.017} \quad (-0.3\sigma)$	k_{eq}	$0.01021^{+0.00033}_{-0.00067} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
$\Omega_m h^2$	$0.1434^{+0.0057}_{-0.0033} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.831^{+0.064}_{-0.020} \quad (+0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$0.0030^{+0.012}_{-0.0025} \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.459^{+0.033}_{-0.010} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.3\sigma)$
$\Omega_m h^3$	$0.0974^{+0.0054}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.2^{+2.2}_{-1.2} \quad (+0.2\sigma)$	χ_{CMB}^2	$11936.2 \quad (\nu: 17.3) \quad (+1531.5\sigma)$
σ_8	$0.787^{+0.040}_{-0.069} \quad (-0.2\sigma)$	$D_M(0.15)$	$638^{+11}_{-19} \quad (-0.2\sigma)$	χ_{Abund}^2	$0.73 \quad (\nu: 0.2) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11951.02; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.10; R - 1 = 0.01932$$

8.37 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02226	$0.02232^{+0.00055}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6054	$0.596^{+0.027}_{-0.042}$	$D_M(0.38)$	1526.2	1516^{+36}_{-62}
$\Omega_c h^2$	0.1196	$0.1204^{+0.0096}_{-0.011}$	$\sigma_8/h^{0.5}$	0.985	$0.966^{+0.037}_{-0.065}$	$H(0.51)$	89.86	$90.5^{+3.1}_{-1.6}$
$100\theta_{MC}$	1.04091	$1.0408^{+0.0012}_{-0.0013}$	$r_{drag} h$	99.73	$99.5^{+2.4}_{-2.4}$	$D_M(0.51)$	1977	1964^{+43}_{-78}
τ	0.0558	$0.057^{+0.021}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.427^{+0.058}_{-0.059}$	$H(0.61)$	95.48	$96.2^{+3.2}_{-1.5}$
$m_{\nu, sterile}^{eff} [eV]$	0.000	< 0.801	z_{re}	7.85	$8.0^{+2.0}_{-2.1}$	$D_M(0.61)$	2301	2285^{+48}_{-90}
N_{eff}	3.077	< 3.68	$10^9 A_s$	2.105	$2.116^{+0.097}_{-0.086}$	$H(2.33)$	236.3	$238.3^{+7.6}_{-3.7}$
$\ln(10^{10} A_s)$	3.0467	$3.052^{+0.045}_{-0.041}$	$10^9 A_s e^{-2\tau}$	1.8825	$1.890^{+0.045}_{-0.034}$	$D_M(2.33)$	5754	5710^{+85}_{-180}
n_s	0.9679	$0.971^{+0.020}_{-0.015}$	D_{40}	1225.4	1221^{+35}_{-36}	$f\sigma_8(0.15)$	0.4565	$0.450^{+0.021}_{-0.032}$
y_{cal}	1.0010	$1.0008^{+0.0065}_{-0.0062}$	D_{220}	5725	5724^{+110}_{-100}	$\sigma_8(0.15)$	0.7496	$0.737^{+0.037}_{-0.052}$
A_{217}^{CIB}	48.8	49^{+20}_{-20}	D_{810}	2540.4	2540^{+37}_{-35}	$f\sigma_8(0.38)$	0.4751	$0.468^{+0.021}_{-0.033}$
$\xi^{tSZ \times CIB}$	0.30	—	D_{1420}	816.8	815^{+14}_{-13}	$\sigma_8(0.38)$	0.6646	$0.653^{+0.034}_{-0.047}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.4	$229.1^{+4.9}_{-5.0}$	$f\sigma_8(0.51)$	0.4739	$0.467^{+0.021}_{-0.033}$
A_{100}^{PS}	255	267^{+70}_{-70}	$n_{s,0.002}$	0.9679	$0.971^{+0.020}_{-0.015}$	$\sigma_8(0.51)$	0.6220	$0.612^{+0.032}_{-0.044}$
A_{143}^{PS}	49.2	51^{+20}_{-20}	Y_P	0.24576	$0.2476^{+0.0061}_{-0.0024}$	$f\sigma_8(0.61)$	0.4690	$0.462^{+0.021}_{-0.033}$
$A_{143 \times 217}^{PS}$	46.2	44^{+20}_{-20}	Y_P^{BBN}	0.24709	$0.2489^{+0.0061}_{-0.0024}$	$\sigma_8(0.61)$	0.5919	$0.582^{+0.031}_{-0.042}$
A_{217}^{PS}	119.1	115^{+30}_{-30}	$10^5 D/H$	2.616	$2.65^{+0.16}_{-0.11}$	$f\sigma_8(2.33)$	0.2985	$0.294^{+0.016}_{-0.022}$
A^{kSZ}	0.0	—	Age/Gyr	13.775	$13.67^{+0.20}_{-0.43}$	$\sigma_8(2.33)$	0.3078	$0.303^{+0.017}_{-0.022}$
A_{100}^{dustTT}	8.86	$9.0^{+4.7}_{-4.7}$	z_*	1090.05	$1090.3^{+1.1}_{-0.84}$	f_{2000}^{143}	30.4	32^{+8}_{-8}
A_{143}^{dustTT}	10.78	$10.7^{+4.7}_{-4.7}$	r_*	144.47	$143.3^{+2.0}_{-4.7}$	$f_{2000}^{143 \times 217}$	33.2	34^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.6}_{-8.6}$	$100\theta_*$	1.04109	$1.0409^{+0.0013}_{-0.0015}$	f_{2000}^{217}	107.7	$108.9^{+5.4}_{-5.1}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$D_M(z_*)/Gpc$	13.877	$13.76^{+0.20}_{-0.40}$	$\chi_{lensing}^2$	8.84	9.5 ($\nu: 0.5$)
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.67	$1060.1^{+1.9}_{-1.4}$	χ_{small}^2	396.3	397.5 ($\nu: 2.4$)
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.17	$145.9^{+2.2}_{-4.5}$	χ_{lowl}^2	22.91	22.6 ($\nu: 0.5$)
H_0	67.77	$68.2^{+3.2}_{-1.9}$	k_D	0.14059	$0.1415^{+0.0036}_{-0.0019}$	χ_{plik}^2	759.6	773.6 ($\nu: 15.5$)
Ω_Λ	0.6897	$0.688^{+0.019}_{-0.019}$	$100\theta_D$	0.16103	$0.1613^{+0.0014}_{-0.00089}$	χ_{6DF}^2	0.024	0.076 ($\nu: 0.0$)
Ω_m	0.3103	$0.312^{+0.019}_{-0.019}$	z_{eq}	3376	3337^{+85}_{-210}	χ_{MGS}^2	1.28	1.21 ($\nu: 0.1$)
$\Omega_m h^2$	0.1425	$0.1450^{+0.0093}_{-0.0049}$	k_{eq}	0.010324	$0.01032^{+0.00037}_{-0.00059}$	$\chi_{DR12BAO}^2$	4.25	5.3 ($\nu: 1.8$)
$\Omega_\nu h^2$	0.00065	$0.0022^{+0.0082}_{-0.0017}$	$100\theta_{eq}$	0.8178	$0.826^{+0.047}_{-0.017}$	χ_{prior}^2	1.5	7.3 ($\nu: 6.9$)
$\Omega_m h^3$	0.0966	$0.0989^{+0.0095}_{-0.0040}$	$100\theta_{s,eq}$	0.4518	$0.456^{+0.025}_{-0.0086}$	χ_{CMB}^2	1187.7	1203.3 ($\nu: 17.0$)
σ_8	0.8111	$0.798^{+0.039}_{-0.057}$	$H(0.15)$	73.04	$73.5^{+3.2}_{-1.8}$	χ_{BAO}^2	5.56	6.5 ($\nu: 1.3$)
S_8	0.8249	$0.813^{+0.040}_{-0.059}$	$D_M(0.15)$	639.8	636^{+17}_{-27}			
$\sigma_8 \Omega_m^{0.5}$	0.4518	$0.445^{+0.022}_{-0.033}$	$H(0.38)$	83.15	$83.7^{+3.3}_{-1.6}$			

Best-fit $\chi_{eff}^2 = 1194.69$; $\bar{\chi}_{eff}^2 = 1217.17$; $R - 1 = 0.01959$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.25 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.84 small_100x143_offlike5_EE_Aplanck_B: 396.34 commander_dx12.v3.2.29: 22.91 plik_rd12_HM_v22_TT: 759.57

8.38 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02234^{+0.00055}_{-0.00052}$	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.596^{+0.027}_{-0.042}$	$D_M(0.38)$	1530.2	1514^{+35}_{-64}
$\Omega_c h^2$	0.1171	$0.1205^{+0.0096}_{-0.011}$	$\sigma_8/h^{0.5}$	0.984	$0.966^{+0.036}_{-0.065}$	$H(0.51)$	89.66	$90.6^{+3.2}_{-1.6}$
$100\theta_{MC}$	1.04102	$1.0408^{+0.0012}_{-0.0013}$	$r_{drag}h$	99.65	$99.7^{+2.3}_{-2.3}$	$D_M(0.51)$	1982	1961^{+46}_{-75}
τ	0.0567	$0.057^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.438	$2.426^{+0.057}_{-0.057}$	$H(0.61)$	95.27	$96.3^{+3.2}_{-1.6}$
$m_{\nu, sterile}^{eff} [eV]$	0.193	< 0.821	z_{re}	7.94	$8.0^{+2.0}_{-2.0}$	$D_M(0.61)$	2307	2282^{+52}_{-85}
N_{eff}	3.047	< 3.69	$10^9 A_s$	2.102	$2.119^{+0.093}_{-0.087}$	$H(2.33)$	235.9	$238.3^{+7.6}_{-3.8}$
$\ln(10^{10} A_s)$	3.0456	$3.053^{+0.043}_{-0.042}$	$10^9 A_s e^{-2\tau}$	1.8768	$1.890^{+0.046}_{-0.034}$	$D_M(2.33)$	5766	5706^{+89}_{-180}
n_s	0.9661	$0.972^{+0.020}_{-0.015}$	D_{40}	1226.6	1220^{+36}_{-36}	$f\sigma_8(0.15)$	0.4558	$0.450^{+0.021}_{-0.032}$
y_{cal}	1.0001	$1.0008^{+0.0065}_{-0.0063}$	D_{220}	5717	5725^{+110}_{-100}	$\sigma_8(0.15)$	0.7477	$0.738^{+0.036}_{-0.052}$
A_{217}^{CIB}	50.1	49^{+20}_{-20}	D_{810}	2534.5	2540^{+38}_{-35}	$f\sigma_8(0.38)$	0.4742	$0.468^{+0.021}_{-0.033}$
$\xi^{tSZ \times CIB}$	0.18	—	D_{1420}	814.9	815^{+14}_{-13}	$\sigma_8(0.38)$	0.6628	$0.654^{+0.033}_{-0.047}$
A_{143}^{tSZ}	7.2	—	D_{2000}	230.0	$229.1^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	0.4729	$0.467^{+0.021}_{-0.033}$
A_{100}^{PS}	256	267^{+70}_{-70}	$n_{s,0.002}$	0.9661	$0.972^{+0.020}_{-0.015}$	$\sigma_8(0.51)$	0.6203	$0.613^{+0.031}_{-0.044}$
A_{143}^{PS}	47.4	51^{+20}_{-20}	Y_P	0.24536	$0.2477^{+0.0063}_{-0.0026}$	$f\sigma_8(0.61)$	0.4680	$0.462^{+0.021}_{-0.033}$
$A_{143 \times 217}^{PS}$	42.9	44^{+20}_{-20}	Y_P^{BBN}	0.24668	$0.2490^{+0.0064}_{-0.0026}$	$\sigma_8(0.61)$	0.5902	$0.583^{+0.030}_{-0.042}$
A_{217}^{PS}	116.7	115^{+30}_{-30}	$10^5 D/H$	2.611	$2.65^{+0.16}_{-0.11}$	$f\sigma_8(2.33)$	0.2976	$0.294^{+0.016}_{-0.022}$
A^{kSZ}	0.0	—	Age/Gyr	13.804	$13.66^{+0.21}_{-0.43}$	$\sigma_8(2.33)$	0.3068	$0.303^{+0.017}_{-0.022}$
A_{100}^{dustTT}	8.84	$9.0^{+4.5}_{-4.7}$	z_*	1090.01	$1090.3^{+1.1}_{-0.84}$	f_{2000}^{143}	30.6	32^{+8}_{-8}
A_{143}^{dustTT}	10.87	$10.7^{+4.7}_{-4.7}$	r_*	144.75	$143.2^{+2.2}_{-4.4}$	$f_{2000}^{143 \times 217}$	33.3	34^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.5}_{-8.7}$	$100\theta_*$	1.04122	$1.0409^{+0.0013}_{-0.0015}$	f_{2000}^{217}	107.6	$108.9^{+5.4}_{-5.2}$
A_{217}^{dustTT}	94.2	93^{+20}_{-20}	$D_M(z_*)/Gpc$	13.902	$13.76^{+0.20}_{-0.41}$	$\chi_{lensing}^2$	8.78	$9.6 (\nu: 0.5)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.59	$1060.1^{+1.9}_{-1.4}$	χ_{simall}^2	397	$290 (\nu: 14417.7)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.46	$145.9^{+2.3}_{-4.5}$	χ_{lowl}^2	23	$131 (\nu: 14415.5)$
H_0	67.58	$68.3^{+3.2}_{-1.9}$	k_D	0.14038	$0.1415^{+0.0034}_{-0.0021}$	χ_{plik}^2	759.1	$773.8 (\nu: 15.6)$
Ω_Λ	0.6890	$0.689^{+0.018}_{-0.018}$	$100\theta_D$	0.16098	$0.1614^{+0.0014}_{-0.00090}$	χ_{JLA}^2	1035.03	$1035.12 (\nu: 0.1)$
Ω_m	0.3110	$0.311^{+0.018}_{-0.018}$	z_{eq}	3329	3334^{+83}_{-210}	χ_{6DF}^2	0.03	$0.41 (\nu: 0.2)$
$\Omega_m h^2$	0.1420	$0.1450^{+0.0092}_{-0.0049}$	k_{eq}	0.010199	$0.01031^{+0.00038}_{-0.00060}$	χ_{MGS}^2	1.22	$0.93 (\nu: 0.2)$
$\Omega_\nu h^2$	0.00269	$0.0022^{+0.0082}_{-0.0016}$	$100\theta_{eq}$	0.8275	$0.827^{+0.048}_{-0.016}$	$\chi_{DR12BAO}^2$	4.37	$5.0 (\nu: 1.4)$
$\Omega_m h^3$	0.0960	$0.0991^{+0.0096}_{-0.0042}$	$100\theta_{s,eq}$	0.4570	$0.456^{+0.025}_{-0.0084}$	χ_{prior}^2	1.5	$7.3 (\nu: 7.0)$
σ_8	0.8091	$0.799^{+0.038}_{-0.057}$	$H(0.15)$	72.85	$73.6^{+3.3}_{-1.7}$	χ_{CMB}^2	1187.7	$1203.5 (\nu: 17.2)$
S_8	0.8238	$0.813^{+0.039}_{-0.060}$	$D_M(0.15)$	641.6	635^{+16}_{-28}	χ_{BAO}^2	5.62	$6.3 (\nu: 0.9)$
$\sigma_8 \Omega_m^{0.5}$	0.4512	$0.445^{+0.021}_{-0.033}$	$H(0.38)$	82.95	$83.8^{+3.1}_{-1.7}$			

Best-fit $\chi_{eff}^2 = 2229.80$; $\bar{\chi}_{eff}^2 = 2252.23$; $R - 1 = 0.01841$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.37 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.78 simall_100x143_offlike5_EE_Aplanck_B: 396.58 comman-
der_dx12.v3.2.29: 23.22 plik_rd12_HM.v22_TT: 759.08 SN - JLA Pantheon18: 1035.03

8.39 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00051}_{-0.00049}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.026}_{-0.041}$	$D_{\mathrm{M}}(0.38)$	1524^{+29}_{-51}
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0079}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.964^{+0.038}_{-0.064}$	$H(0.51)$	$90.1^{+2.6}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	$99.4^{+2.4}_{-2.3}$	$D_{\mathrm{M}}(0.51)$	1973^{+35}_{-64}
τ	$0.056^{+0.021}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.058}_{-0.056}$	$H(0.61)$	$95.8^{+2.7}_{-1.1}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.868	z_{re}	$7.9^{+2.0}_{-2.2}$	$D_{\mathrm{M}}(0.61)$	2296^{+39}_{-73}
N_{eff}	< 3.49	$10^9 A_{\mathrm{s}}$	$2.111^{+0.090}_{-0.086}$	$H(2.33)$	$237.5^{+5.7}_{-3.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.050^{+0.042}_{-0.041}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.039}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5734^{+63}_{-140}
n_{s}	$0.969^{+0.016}_{-0.013}$	D_{40}	1224^{+33}_{-34}	$f\sigma_8(0.15)$	$0.449^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0064}_{-0.0063}$	D_{220}	5724^{+100}_{-100}	$\sigma_8(0.15)$	$0.733^{+0.034}_{-0.050}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2539^{+36}_{-35}	$f\sigma_8(0.38)$	$0.466^{+0.021}_{-0.032}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.650^{+0.031}_{-0.045}$
A_{143}^{tSZ}	—	D_{2000}	$229.4^{+4.8}_{-4.7}$	$f\sigma_8(0.51)$	$0.465^{+0.021}_{-0.032}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.969^{+0.016}_{-0.013}$	$\sigma_8(0.51)$	$0.608^{+0.029}_{-0.042}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2468^{+0.0045}_{-0.0016}$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.031}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2481^{+0.0045}_{-0.0016}$	$\sigma_8(0.61)$	$0.579^{+0.028}_{-0.040}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.13}_{-0.098}$	$f\sigma_8(2.33)$	$0.292^{+0.014}_{-0.020}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.73^{+0.15}_{-0.33}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.021}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.5}_{-4.8}$	z_*	$1090.20^{+0.91}_{-0.76}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.8}$	r_*	$143.8^{+1.5}_{-3.5}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.7}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0013}$	f_{2000}^{217}	$108.6^{+5.1}_{-5.0}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.14}_{-0.33}$	$\chi_{\mathrm{lensing}}^2$	$9.42 (\nu: 0.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.3}$	χ_{small}^2	$291 (\nu: 14275.1)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.5^{+1.5}_{-3.7}$	χ_{lowl}^2	$129 (\nu: 14271.6)$
H_0	$67.8^{+2.6}_{-1.6}$	k_{D}	$0.1411^{+0.0027}_{-0.0015}$	χ_{plik}^2	$773.1 (\nu: 14.9)$
Ω_{Λ}	$0.687^{+0.018}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0011}_{-0.00076}$	χ_{Aver15}^2	$0.75 (\nu: 0.3)$
Ω_{m}	$0.313^{+0.019}_{-0.018}$	z_{eq}	3332^{+91}_{-210}	$\chi_{6\mathrm{DF}}^2$	$0.39 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1440^{+0.0069}_{-0.0042}$	k_{eq}	$0.01027^{+0.00034}_{-0.00057}$	χ_{MGS}^2	$0.84 (\nu: 0.2)$
$\Omega_{\nu} h^2$	$0.0026^{+0.0079}_{-0.0020}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.047}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.4 (\nu: 1.9)$
$\Omega_{\mathrm{m}} h^3$	$0.0977^{+0.0069}_{-0.0028}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.025}_{-0.0093}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.794^{+0.036}_{-0.054}$	$H(0.15)$	$73.2^{+2.6}_{-1.4}$	χ_{CMB}^2	$1202.9 (\nu: 16.7)$
S_8	$0.811^{+0.040}_{-0.058}$	$D_{\mathrm{M}}(0.15)$	639^{+14}_{-23}	χ_{BAO}^2	$6.7 (\nu: 1.4)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.022}_{-0.032}$	$H(0.38)$	$83.4^{+2.6}_{-1.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1217.61; R - 1 = 0.02031$$

8.40 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02229^{+0.00050}_{-0.00048}$	$\sigma_8/h^{0.5}$	$0.963^{+0.038}_{-0.064}$	$D_{\mathrm{M}}(0.51)$	1974^{+34}_{-61}
$\Omega_{\mathrm{c}}h^2$	$0.1189^{+0.0075}_{-0.0099}$	$r_{\mathrm{drag}}h$	$99.4^{+2.4}_{-2.3}$	$H(0.61)$	$95.7^{+2.5}_{-0.98}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.058}_{-0.056}$	$D_{\mathrm{M}}(0.61)$	2297^{+37}_{-70}
τ	$0.056^{+0.021}_{-0.020}$	z_{re}	$7.9^{+2.0}_{-2.1}$	$H(2.33)$	$237.3^{+5.3}_{-2.9}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.873	$10^9 A_{\mathrm{s}}$	$2.110^{+0.090}_{-0.085}$	$D_{\mathrm{M}}(2.33)$	5737^{+58}_{-130}
N_{eff}	< 3.45	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.037}_{-0.030}$	$f\sigma_8(0.15)$	$0.448^{+0.021}_{-0.032}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.049^{+0.042}_{-0.041}$	D_{40}	1225^{+33}_{-33}	$\sigma_8(0.15)$	$0.733^{+0.033}_{-0.049}$
n_{s}	$0.968^{+0.016}_{-0.012}$	D_{220}	5726^{+100}_{-100}	$f\sigma_8(0.38)$	$0.466^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0063}_{-0.0063}$	D_{810}	2539^{+35}_{-35}	$\sigma_8(0.38)$	$0.649^{+0.030}_{-0.044}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.51)$	$0.464^{+0.020}_{-0.032}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.5^{+4.7}_{-4.4}$	$\sigma_8(0.51)$	$0.608^{+0.029}_{-0.042}$
A_{143}^{tSZ}	—	$n_{\mathrm{s}, 0.002}$	$0.968^{+0.016}_{-0.012}$	$f\sigma_8(0.61)$	$0.459^{+0.020}_{-0.031}$
A_{100}^{PS}	265^{+70}_{-70}	Y_{P}	$0.2466^{+0.0042}_{-0.0015}$	$\sigma_8(0.61)$	$0.578^{+0.028}_{-0.039}$
A_{143}^{PS}	50^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2480^{+0.0042}_{-0.0015}$	$f\sigma_8(2.33)$	$0.292^{+0.014}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.091}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.73^{+0.14}_{-0.31}$	f_{2000}^{143}	32^{+8}_{-8}
A^{kSZ}	—	z_*	$1090.17^{+0.79}_{-0.72}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.5}_{-4.7}$	r_*	$143.9^{+1.4}_{-3.3}$	f_{2000}^{217}	$108.5^{+5.1}_{-4.9}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.7}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{lensing}}^2$	$9.40 (\nu: 0.5)$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.3}_{-8.7}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.13}_{-0.31}$	χ_{simall}^2	$289 (\nu: 14462.9)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.9^{+1.5}_{-1.2}$	χ_{lowl}^2	$132 (\nu: 14458.1)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$146.6^{+1.5}_{-3.4}$	χ_{plik}^2	$772.9 (\nu: 14.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1410^{+0.0026}_{-0.0015}$	χ_{Aver15}^2	$0.68 (\nu: 0.2)$
H_0	$67.8^{+2.5}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.16116^{+0.00094}_{-0.00071}$	$\chi_{\mathrm{Cooke17}}^2$	$0.21 (\nu: 0.0)$
Ω_{Λ}	$0.687^{+0.018}_{-0.018}$	z_{eq}	3331^{+92}_{-210}	$\chi_{6\mathrm{DF}}^2$	$0.39 (\nu: 0.2)$
Ω_{m}	$0.313^{+0.018}_{-0.018}$	k_{eq}	$0.01026^{+0.00033}_{-0.00056}$	χ_{MGS}^2	$0.83 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0064}_{-0.0041}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.047}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.4 (\nu: 1.9)$
$\Omega_{\nu}h^2$	$0.0027^{+0.0079}_{-0.0021}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.024}_{-0.0095}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
$\Omega_{\mathrm{m}}h^3$	$0.0976^{+0.0065}_{-0.0026}$	$H(0.15)$	$73.1^{+2.5}_{-1.4}$	χ_{CMB}^2	$1202.7 (\nu: 16.5)$
σ_8	$0.793^{+0.036}_{-0.053}$	$D_{\mathrm{M}}(0.15)$	639^{+13}_{-22}	χ_{BAO}^2	$6.7 (\nu: 1.4)$
S_8	$0.810^{+0.040}_{-0.058}$	$H(0.38)$	$83.3^{+2.5}_{-1.2}$	χ_{Abund}^2	$0.89 (\nu: 0.4)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.022}_{-0.032}$	$D_{\mathrm{M}}(0.38)$	1524^{+28}_{-49}		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.593^{+0.026}_{-0.041}$	$H(0.51)$	$90.1^{+2.5}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1217.59; R - 1 = 0.02034$$

8.41 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00055}_{-0.00051}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.596^{+0.027}_{-0.042}$	$D_{\mathrm{M}}(0.38)$	1516^{+35}_{-62}
$\Omega_{\mathrm{c}} h^2$	$0.1204^{+0.0097}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.966^{+0.037}_{-0.066}$	$H(0.51)$	$90.5^{+3.1}_{-1.6}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0013}$	$r_{\mathrm{drag}} h$	$99.5^{+2.4}_{-2.3}$	$D_{\mathrm{M}}(0.51)$	1964^{+42}_{-78}
τ	$0.057^{+0.020}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.057}_{-0.058}$	$H(0.61)$	$96.2^{+3.2}_{-1.5}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.805	z_{re}	< 9.82	$D_{\mathrm{M}}(0.61)$	2285^{+47}_{-90}
N_{eff}	< 3.68	$10^9 A_{\mathrm{s}}$	$2.118^{+0.096}_{-0.071}$	$H(2.33)$	$238.3^{+7.6}_{-3.7}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.053^{+0.044}_{-0.034}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.890^{+0.045}_{-0.034}$	$D_{\mathrm{M}}(2.33)$	5710^{+85}_{-180}
n_{s}	$0.971^{+0.020}_{-0.014}$	D_{40}	1221^{+35}_{-36}	$f\sigma_8(0.15)$	$0.450^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0065}_{-0.0062}$	D_{220}	5724^{+110}_{-100}	$\sigma_8(0.15)$	$0.737^{+0.037}_{-0.053}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{810}	2540^{+37}_{-35}	$f\sigma_8(0.38)$	$0.468^{+0.021}_{-0.033}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.654^{+0.034}_{-0.047}$
A_{143}^{tSZ}	—	D_{2000}	$229.1^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	$0.467^{+0.021}_{-0.033}$
A_{100}^{PS}	267^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.971^{+0.020}_{-0.014}$	$\sigma_8(0.51)$	$0.612^{+0.032}_{-0.044}$
A_{143}^{PS}	51^{+20}_{-20}	Y_{P}	$0.2476^{+0.0061}_{-0.0024}$	$f\sigma_8(0.61)$	$0.462^{+0.021}_{-0.033}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2489^{+0.0061}_{-0.0025}$	$\sigma_8(0.61)$	$0.582^{+0.031}_{-0.042}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.65^{+0.16}_{-0.11}$	$f\sigma_8(2.33)$	$0.294^{+0.016}_{-0.022}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.67^{+0.20}_{-0.43}$	$\sigma_8(2.33)$	$0.303^{+0.017}_{-0.022}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	z_*	$1090.3^{+1.1}_{-0.84}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.7}$	r_*	$143.3^{+2.1}_{-4.3}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.6}_{-8.6}$	$100\theta_*$	$1.0409^{+0.0013}_{-0.0015}$	f_{2000}^{217}	$108.9^{+5.4}_{-5.1}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.76^{+0.20}_{-0.40}$	$\chi_{\mathrm{lensing}}^2$	$9.52 (\nu: 0.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1060.1^{+1.9}_{-1.4}$	χ_{small}^2	$397.5 (\nu: 2.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$145.9^{+2.2}_{-4.5}$	χ_{lowl}^2	$22.6 (\nu: 0.5)$
H_0	$68.2^{+3.2}_{-1.8}$	k_{D}	$0.1415^{+0.0036}_{-0.0019}$	χ_{plik}^2	$773.6 (\nu: 15.4)$
Ω_{Λ}	$0.688^{+0.019}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0014}_{-0.00089}$	$\chi_{6\mathrm{DF}}^2$	$0.074 (\nu: 0.0)$
Ω_{m}	$0.312^{+0.019}_{-0.019}$	z_{eq}	3336^{+84}_{-210}	χ_{MGS}^2	$1.22 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1450^{+0.0093}_{-0.0049}$	k_{eq}	$0.01031^{+0.00037}_{-0.00059}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 (\nu: 1.7)$
$\Omega_{\nu} h^2$	$0.0023^{+0.0082}_{-0.0017}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.047}_{-0.016}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
$\Omega_{\mathrm{m}} h^3$	$0.0989^{+0.0095}_{-0.0040}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.025}_{-0.0085}$	χ_{CMB}^2	$1203.2 (\nu: 16.9)$
σ_8	$0.798^{+0.039}_{-0.057}$	$H(0.15)$	$73.5^{+3.2}_{-1.7}$	χ_{BAO}^2	$6.5 (\nu: 1.2)$
S_8	$0.813^{+0.040}_{-0.060}$	$D_{\mathrm{M}}(0.15)$	636^{+16}_{-27}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.022}_{-0.033}$	$H(0.38)$	$83.8^{+3.0}_{-1.6}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1217.05; R - 1 = 0.01947$$

8.42 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00055}_{-0.00052}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.596^{+0.027}_{-0.042}$	$D_{\mathrm{M}}(0.38)$	1514^{+35}_{-64}
$\Omega_{\mathrm{c}} h^2$	$0.1205^{+0.0096}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.966^{+0.036}_{-0.065}$	$H(0.51)$	$90.6^{+3.2}_{-1.6}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0013}$	$r_{\mathrm{drag}} h$	$99.7^{+2.3}_{-2.2}$	$D_{\mathrm{M}}(0.51)$	1961^{+46}_{-75}
τ	$0.058^{+0.019}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.057}_{-0.057}$	$H(0.61)$	$96.3^{+3.2}_{-1.6}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.831	z_{re}	< 9.83	$D_{\mathrm{M}}(0.61)$	2282^{+51}_{-85}
N_{eff}	< 3.69	$10^9 A_{\mathrm{s}}$	$2.121^{+0.092}_{-0.073}$	$H(2.33)$	$238.3^{+7.5}_{-3.8}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.054^{+0.042}_{-0.035}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.890^{+0.046}_{-0.034}$	$D_{\mathrm{M}}(2.33)$	5705^{+89}_{-180}
n_{s}	$0.972^{+0.020}_{-0.015}$	D_{40}	1220^{+36}_{-36}	$f\sigma_8(0.15)$	$0.450^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0065}_{-0.0063}$	D_{220}	5725^{+110}_{-100}	$\sigma_8(0.15)$	$0.738^{+0.036}_{-0.053}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{810}	2540^{+38}_{-35}	$f\sigma_8(0.38)$	$0.468^{+0.021}_{-0.033}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.655^{+0.033}_{-0.047}$
A_{143}^{tSZ}	—	D_{2000}	$229.1^{+5.0}_{-5.1}$	$f\sigma_8(0.51)$	$0.467^{+0.021}_{-0.034}$
A_{100}^{PS}	267^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.972^{+0.020}_{-0.015}$	$\sigma_8(0.51)$	$0.613^{+0.031}_{-0.045}$
A_{143}^{PS}	51^{+20}_{-20}	Y_{P}	$0.2477^{+0.0063}_{-0.0026}$	$f\sigma_8(0.61)$	$0.462^{+0.021}_{-0.033}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2490^{+0.0064}_{-0.0026}$	$\sigma_8(0.61)$	$0.583^{+0.030}_{-0.043}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.65^{+0.16}_{-0.11}$	$f\sigma_8(2.33)$	$0.294^{+0.015}_{-0.022}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.66^{+0.21}_{-0.43}$	$\sigma_8(2.33)$	$0.303^{+0.017}_{-0.023}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.5}_{-4.7}$	z_*	$1090.3^{+1.1}_{-0.83}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.7}$	r_*	$143.2^{+2.2}_{-4.4}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.5}_{-8.7}$	$100\theta_*$	$1.0409^{+0.0013}_{-0.0015}$	f_{2000}^{217}	$108.9^{+5.4}_{-5.2}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.76^{+0.20}_{-0.41}$	$\chi_{\mathrm{lensing}}^2$	$9.6 (\nu: 0.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1060.1^{+1.9}_{-1.4}$	χ_{small}^2	$290 (\nu: 14384.6)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$145.9^{+2.3}_{-4.5}$	χ_{lowl}^2	$130 (\nu: 14382.1)$
H_0	$68.3^{+3.2}_{-1.8}$	k_{D}	$0.1415^{+0.0034}_{-0.0021}$	χ_{plik}^2	$773.7 (\nu: 15.5)$
Ω_{Λ}	$0.689^{+0.018}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.1614^{+0.0014}_{-0.00090}$	χ_{JLA}^2	$1035.11 (\nu: 0.1)$
Ω_{m}	$0.311^{+0.018}_{-0.018}$	z_{eq}	3333^{+82}_{-210}	$\chi_{6\mathrm{DF}}^2$	$0.41 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1450^{+0.0093}_{-0.0049}$	k_{eq}	$0.01031^{+0.00037}_{-0.00060}$	χ_{MGS}^2	$0.94 (\nu: 0.2)$
$\Omega_{\nu} h^2$	$0.0022^{+0.0082}_{-0.0016}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.047}_{-0.016}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0991^{+0.0096}_{-0.0042}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.025}_{-0.0084}$	χ_{prior}^2	$7.3 (\nu: 7.0)$
σ_8	$0.799^{+0.038}_{-0.057}$	$H(0.15)$	$73.7^{+3.0}_{-1.8}$	χ_{CMB}^2	$1203.4 (\nu: 17.1)$
S_8	$0.813^{+0.039}_{-0.060}$	$D_{\mathrm{M}}(0.15)$	635^{+16}_{-28}	χ_{BAO}^2	$6.3 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.445^{+0.021}_{-0.033}$	$H(0.38)$	$83.9^{+3.1}_{-1.7}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2252.12; R - 1 = 0.01798$$

8.43 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00050}_{-0.00049}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.027}_{-0.041}$	$D_{\mathrm{M}}(0.38)$	1523^{+28}_{-51}
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0079}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.964^{+0.038}_{-0.064}$	$H(0.51)$	$90.1^{+2.6}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}} h$	$99.4^{+2.4}_{-2.2}$	$D_{\mathrm{M}}(0.51)$	1973^{+34}_{-64}
τ	$0.057^{+0.019}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.058}_{-0.056}$	$H(0.61)$	$95.8^{+2.4}_{-1.1}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.870	z_{re}	< 9.74	$D_{\mathrm{M}}(0.61)$	2296^{+38}_{-72}
N_{eff}	< 3.49	$10^9 A_{\mathrm{s}}$	$2.113^{+0.088}_{-0.068}$	$H(2.33)$	$237.5^{+5.7}_{-3.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.051^{+0.041}_{-0.032}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.039}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5734^{+63}_{-140}
n_{s}	$0.969^{+0.016}_{-0.012}$	D_{40}	1224^{+33}_{-34}	$f\sigma_8(0.15)$	$0.449^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0064}_{-0.0063}$	D_{220}	5724^{+110}_{-100}	$\sigma_8(0.15)$	$0.734^{+0.034}_{-0.050}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2539^{+36}_{-35}	$f\sigma_8(0.38)$	$0.466^{+0.021}_{-0.033}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.650^{+0.031}_{-0.045}$
A_{143}^{tSZ}	—	D_{2000}	$229.4^{+4.8}_{-4.7}$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.032}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s}, 0.002}$	$0.969^{+0.016}_{-0.012}$	$\sigma_8(0.51)$	$0.608^{+0.029}_{-0.042}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2468^{+0.0045}_{-0.0016}$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.032}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2481^{+0.0045}_{-0.0016}$	$\sigma_8(0.61)$	$0.579^{+0.028}_{-0.040}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.13}_{-0.097}$	$f\sigma_8(2.33)$	$0.292^{+0.014}_{-0.021}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.73^{+0.15}_{-0.33}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.021}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.5}_{-4.8}$	z_*	$1090.20^{+0.91}_{-0.76}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.8}$	r_*	$143.8^{+1.5}_{-3.5}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.7}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0013}$	f_{2000}^{217}	$108.6^{+5.1}_{-5.0}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.14}_{-0.33}$	$\chi_{\mathrm{lensing}}^2$	$9.38 (\nu: 0.4)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+1.6}_{-1.3}$	χ_{simall}^2	$292 (\nu: 14223.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.5^{+1.5}_{-3.7}$	χ_{lowl}^2	$129 (\nu: 14219.7)$
H_0	$67.9^{+2.6}_{-1.5}$	k_{D}	$0.1411^{+0.0027}_{-0.0015}$	χ_{plik}^2	$773.1 (\nu: 14.9)$
Ω_{Λ}	$0.687^{+0.018}_{-0.018}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0011}_{-0.00076}$	χ_{Aver15}^2	$0.75 (\nu: 0.3)$
Ω_{m}	$0.313^{+0.018}_{-0.018}$	z_{eq}	3331^{+89}_{-210}	$\chi_{6\mathrm{DF}}^2$	$0.39 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1440^{+0.0069}_{-0.0042}$	k_{eq}	$0.01027^{+0.00034}_{-0.00057}$	χ_{MGS}^2	$0.85 (\nu: 0.2)$
$\Omega_{\nu} h^2$	$0.0026^{+0.0079}_{-0.0021}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.047}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.4 (\nu: 1.8)$
$\Omega_{\mathrm{m}} h^3$	$0.0977^{+0.0069}_{-0.0028}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.025}_{-0.0093}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.794^{+0.036}_{-0.054}$	$H(0.15)$	$73.2^{+2.6}_{-1.4}$	χ_{CMB}^2	$1202.8 (\nu: 16.6)$
S_8	$0.811^{+0.040}_{-0.058}$	$D_{\mathrm{M}}(0.15)$	639^{+14}_{-23}	χ_{BAO}^2	$6.6 (\nu: 1.3)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.022}_{-0.032}$	$H(0.38)$	$83.4^{+2.6}_{-1.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1217.49; R - 1 = 0.01945$$

8.44 base_nnu_meffsterile_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02230^{+0.00049}_{-0.00048}$	$\sigma_8/h^{0.5}$	$0.963^{+0.038}_{-0.064}$	$D_{\mathrm{M}}(0.51)$	1974^{+33}_{-61}
$\Omega_{\mathrm{c}}h^2$	$0.1189^{+0.0075}_{-0.0099}$	$r_{\mathrm{drag}}h$	$99.4^{+2.4}_{-2.2}$	$H(0.61)$	$95.7^{+2.3}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.057}_{-0.056}$	$D_{\mathrm{M}}(0.61)$	2297^{+36}_{-70}
τ	$0.057^{+0.019}_{-0.015}$	z_{re}	< 9.74	$H(2.33)$	$237.3^{+5.3}_{-2.8}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.873	$10^9 A_{\mathrm{s}}$	$2.113^{+0.088}_{-0.067}$	$D_{\mathrm{M}}(2.33)$	5737^{+58}_{-130}
N_{eff}	< 3.46	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.037}_{-0.030}$	$f\sigma_8(0.15)$	$0.448^{+0.021}_{-0.032}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.050^{+0.041}_{-0.032}$	D_{40}	1224^{+33}_{-33}	$\sigma_8(0.15)$	$0.733^{+0.033}_{-0.050}$
n_{s}	$0.968^{+0.016}_{-0.012}$	D_{220}	5725^{+110}_{-100}	$f\sigma_8(0.38)$	$0.466^{+0.021}_{-0.032}$
y_{cal}	$1.0008^{+0.0063}_{-0.0063}$	D_{810}	2539^{+35}_{-35}	$\sigma_8(0.38)$	$0.649^{+0.030}_{-0.044}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.51)$	$0.464^{+0.020}_{-0.032}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.5^{+4.7}_{-4.5}$	$\sigma_8(0.51)$	$0.608^{+0.029}_{-0.042}$
A_{143}^{tSZ}	—	$n_{\mathrm{s}, 0.002}$	$0.968^{+0.016}_{-0.012}$	$f\sigma_8(0.61)$	$0.459^{+0.020}_{-0.031}$
A_{100}^{PS}	265^{+70}_{-70}	Y_{P}	$0.2466^{+0.0042}_{-0.0015}$	$\sigma_8(0.61)$	$0.578^{+0.028}_{-0.040}$
A_{143}^{PS}	50^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2480^{+0.0042}_{-0.0015}$	$f\sigma_8(2.33)$	$0.292^{+0.014}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.091}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.73^{+0.14}_{-0.31}$	f_{2000}^{143}	32^{+8}_{-8}
A^{kSZ}	—	z_*	$1090.17^{+0.80}_{-0.72}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.5}_{-4.8}$	r_*	$143.9^{+1.4}_{-3.3}$	f_{2000}^{217}	$108.5^{+5.1}_{-4.8}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.7}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0013}$	$\chi_{\mathrm{lensing}}^2$	$9.36 (\nu: 0.4)$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.7}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.13}_{-0.31}$	χ_{simall}^2	$289 (\nu: 14410.8)$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.9^{+1.5}_{-1.2}$	χ_{lowl}^2	$131 (\nu: 14405.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$146.6^{+1.5}_{-3.4}$	χ_{plik}^2	$772.9 (\nu: 14.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1410^{+0.0026}_{-0.0015}$	χ_{Aver15}^2	$0.69 (\nu: 0.2)$
H_0	$67.8^{+2.5}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.16116^{+0.00095}_{-0.00071}$	$\chi_{\mathrm{Cooke17}}^2$	$0.21 (\nu: 0.0)$
Ω_{Λ}	$0.687^{+0.018}_{-0.018}$	z_{eq}	3330^{+91}_{-210}	$\chi_{6\mathrm{DF}}^2$	$0.39 (\nu: 0.2)$
Ω_{m}	$0.313^{+0.018}_{-0.018}$	k_{eq}	$0.01026^{+0.00033}_{-0.00056}$	χ_{MGS}^2	$0.84 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0064}_{-0.0041}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.047}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.4 (\nu: 1.8)$
$\Omega_{\nu}h^2$	$0.0027^{+0.0079}_{-0.0022}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.024}_{-0.0094}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
$\Omega_{\mathrm{m}}h^3$	$0.0976^{+0.0065}_{-0.0026}$	$H(0.15)$	$73.1^{+2.5}_{-1.3}$	χ_{CMB}^2	$1202.6 (\nu: 16.5)$
σ_8	$0.793^{+0.036}_{-0.054}$	$D_{\mathrm{M}}(0.15)$	639^{+13}_{-22}	χ_{BAO}^2	$6.6 (\nu: 1.3)$
S_8	$0.810^{+0.040}_{-0.058}$	$H(0.38)$	$83.3^{+2.4}_{-1.1}$	χ_{Abund}^2	$0.89 (\nu: 0.4)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.022}_{-0.032}$	$D_{\mathrm{M}}(0.38)$	1524^{+27}_{-49}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.593^{+0.026}_{-0.041}$	$H(0.51)$	$90.1^{+2.3}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1217.47; R - 1 = 0.01988$$

8.45 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022461	$0.02249^{+0.00043}_{-0.00037}$	$\Omega_m h^3$	0.09644	$0.0976^{+0.0063}_{-0.0021}$	$D_M(0.15)$	640.3	639^{+11}_{-23}
$\Omega_c h^2$	0.1134	$0.1187^{+0.0078}_{-0.010}$	σ_8	0.8100	$0.793^{+0.035}_{-0.062}$	$H(0.38)$	83.10	$83.3^{+2.6}_{-0.93}$
$100\theta_{MC}$	1.04106	$1.04091^{+0.00075}_{-0.00089}$	S_8	0.824	$0.810^{+0.038}_{-0.063}$	$D_M(0.38)$	1527.3	1524^{+23}_{-51}
τ	0.0564	$0.058^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	0.4514	$0.444^{+0.021}_{-0.035}$	$H(0.51)$	89.81	$90.1^{+2.2}_{-0.97}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.555	< 0.956	$\sigma_8 \Omega_m^{0.25}$	0.6047	$0.593^{+0.025}_{-0.046}$	$D_M(0.51)$	1978.6	1974^{+28}_{-64}
N_{eff}	3.048	< 3.44	$\sigma_8/h^{0.5}$	0.984	$0.963^{+0.041}_{-0.066}$	$H(0.61)$	95.43	$95.8^{+2.2}_{-0.88}$
$\ln(10^{10} A_s)$	3.0481	$3.052^{+0.044}_{-0.037}$	$r_{\text{drag}} h$	99.65	$99.3^{+2.1}_{-2.2}$	$D_M(0.61)$	2302	2297^{+30}_{-74}
n_s	0.9674	$0.968^{+0.017}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.437^{+0.056}_{-0.055}$	$H(2.33)$	236.22	$237.4^{+5.6}_{-2.3}$
y_{cal}	1.0011	$1.0009^{+0.0063}_{-0.0063}$	z_{re}	7.86	$8.0^{+2.0}_{-1.9}$	$D_M(2.33)$	5756	5735^{+47}_{-130}
A_{217}^{CIB}	47.2	47^{+20}_{-20}	$10^9 A_s$	2.107	$2.116^{+0.095}_{-0.078}$	$f\sigma_8(0.15)$	0.4561	$0.448^{+0.020}_{-0.035}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.46	—	$10^9 A_s e^{-2\tau}$	1.8828	$1.886^{+0.035}_{-0.028}$	$\sigma_8(0.15)$	0.7485	$0.733^{+0.034}_{-0.058}$
A_{143}^{tSZ}	7.20	$5.4^{+4.3}_{-4.8}$	D_{40}	1228.2	1227^{+31}_{-32}	$f\sigma_8(0.38)$	0.4746	$0.466^{+0.020}_{-0.036}$
A_{100}^{PS}	250	260^{+70}_{-70}	D_{220}	5743	5741^{+98}_{-94}	$\sigma_8(0.38)$	0.6636	$0.650^{+0.031}_{-0.052}$
A_{143}^{PS}	47.6	47^{+20}_{-20}	D_{810}	2543.4	2542^{+34}_{-33}	$f\sigma_8(0.51)$	0.4733	$0.465^{+0.020}_{-0.036}$
$A_{143 \times 217}^{\text{PS}}$	48.0	43^{+20}_{-20}	D_{1420}	819.4	818^{+12}_{-12}	$\sigma_8(0.51)$	0.6211	$0.608^{+0.029}_{-0.049}$
A_{217}^{PS}	119.4	115^{+30}_{-30}	D_{2000}	231.83	$230.7^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	0.4684	$0.460^{+0.020}_{-0.036}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9674	$0.968^{+0.017}_{-0.012}$	$\sigma_8(0.61)$	0.5910	$0.578^{+0.028}_{-0.046}$
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.6}$	Y_P	0.24546	$0.2465^{+0.0044}_{-0.0012}$	$f\sigma_8(2.33)$	0.2980	$0.292^{+0.015}_{-0.023}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	0.24678	$0.2478^{+0.0044}_{-0.0012}$	$\sigma_8(2.33)$	0.3073	$0.301^{+0.016}_{-0.024}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.7^{+8.4}_{-8.4}$	$10^5 D/H$	2.569	$2.591^{+0.096}_{-0.068}$	f_{2000}^{143}	28.6	30^{+7}_{-7}
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	Age/Gyr	13.781	$13.73^{+0.11}_{-0.30}$	$f_{2000}^{143 \times 217}$	31.82	33^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.095}$	z_*	1089.75	$1089.90^{+0.71}_{-0.58}$	f_{2000}^{217}	106.47	$107.4^{+4.7}_{-4.8}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.076}$	r_*	144.54	$143.8^{+1.3}_{-3.5}$	χ_{lensing}^2	8.75	$9.14 (\nu: 0.3)$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04123	$1.04104^{+0.00078}_{-0.0011}$	χ_{small}^2	396.4	$397.6 (\nu: 2.7)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.82^{+0.12}_{-0.32}$	χ_{lowl}^2	23.05	$23.03 (\nu: 0.4)$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.09	$1060.3^{+1.5}_{-0.92}$	χ_{plik}^2	2344.6	$2361.3 (\nu: 18.3)$
A_{217}^{dustTE}	2.07	$2.08^{+0.70}_{-0.68}$	r_{drag}	147.17	$146.5^{+1.3}_{-3.6}$	$\chi_{6\text{DF}}^2$	0.029	$0.084 (\nu: 0.0)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14085	$0.1414^{+0.0028}_{-0.0011}$	χ_{MGS}^2	1.22	$1.10 (\nu: 0.1)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16068	$0.16083^{+0.00086}_{-0.00051}$	χ_{DR12BAO}^2	4.42	$5.5 (\nu: 1.7)$
H_0	67.71	$67.8^{+2.6}_{-1.3}$	z_{eq}	3246	3339^{+87}_{-230}	χ_{prior}^2	1.9	$11.6 (\nu: 10.4)$
Ω_Λ	0.6894	$0.687^{+0.016}_{-0.018}$	k_{eq}	0.010016	$0.01027^{+0.00032}_{-0.00057}$	χ_{CMB}^2	2772.9	$2791.1 (\nu: 19.5)$
Ω_m	0.3106	$0.313^{+0.018}_{-0.016}$	$100\theta_{\text{eq}}$	0.8464	$0.827^{+0.049}_{-0.020}$	χ_{BAO}^2	5.67	$6.7 (\nu: 1.3)$
$\Omega_m h^2$	0.1424	$0.1440^{+0.0067}_{-0.0033}$	$100\theta_{s,\text{eq}}$	0.4667	$0.456^{+0.026}_{-0.010}$			
$\Omega_\nu h^2$	0.0065	$0.0028^{+0.0090}_{-0.0022}$	$H(0.15)$	72.99	$73.1^{+2.5}_{-1.1}$			

Best-fit $\chi_{\text{eff}}^2 = 2780.39$; $\bar{\chi}_{\text{eff}}^2 = 2809.48$; $R - 1 = 0.02379$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.42 CMB - smicadx12_Dec5.ftl.mv2.ndclpp.p.teb.consext8: 8.75 small_100x143.offlike5_EE_Aplanck_B: 396.43 comman-
der_dx12.v3.2.29: 23.05 plik_rd12_HM.v22b_TTTEEE: 2344.63

8.46 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02250^{+0.00041}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.0977^{+0.0073}_{-0.0022}$	$D_{\mathrm{M}}(0.15)$	638^{+11}_{-22}
$\Omega_{\mathrm{c}}h^2$	$0.1188^{+0.0079}_{-0.0099}$	σ_8	$0.795^{+0.036}_{-0.060}$	$H(0.38)$	$83.4^{+2.6}_{-0.92}$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00075}_{-0.00091}$	S_8	$0.811^{+0.037}_{-0.061}$	$D_{\mathrm{M}}(0.38)$	1522^{+22}_{-49}
τ	$0.058^{+0.021}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.020}_{-0.033}$	$H(0.51)$	$90.2^{+2.6}_{-0.84}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.884	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.026}_{-0.045}$	$D_{\mathrm{M}}(0.51)$	1972^{+27}_{-62}
N_{eff}	< 3.46	$\sigma_8/h^{0.5}$	$0.964^{+0.037}_{-0.072}$	$H(0.61)$	$95.8^{+2.7}_{-0.79}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.052^{+0.043}_{-0.039}$	$r_{\mathrm{drag}}h$	$99.5^{+2.0}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2295^{+30}_{-72}
n_{s}	$0.969^{+0.017}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.054}_{-0.055}$	$H(2.33)$	$237.4^{+5.8}_{-2.3}$
y_{cal}	$1.0009^{+0.0064}_{-0.0061}$	z_{re}	$8.0^{+2.0}_{-2.0}$	$D_{\mathrm{M}}(2.33)$	5733^{+48}_{-130}
A_{217}^{CIB}	47^{+20}_{-20}	10^9A_{s}	$2.116^{+0.092}_{-0.081}$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.034}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.034}_{-0.028}$	$\sigma_8(0.15)$	$0.734^{+0.033}_{-0.056}$
A_{143}^{tSZ}	—	D_{40}	1226^{+32}_{-32}	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
A_{100}^{PS}	260^{+70}_{-70}	D_{220}	5741^{+98}_{-93}	$\sigma_8(0.38)$	$0.651^{+0.030}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2542^{+36}_{-32}	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.035}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.609^{+0.029}_{-0.047}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$230.7^{+3.9}_{-4.1}$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.035}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.969^{+0.017}_{-0.011}$	$\sigma_8(0.61)$	$0.580^{+0.027}_{-0.045}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+5.0}_{-4.7}$	Y_{P}	$0.2465^{+0.0052}_{-0.0013}$	$f\sigma_8(2.33)$	$0.292^{+0.014}_{-0.023}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2479^{+0.0052}_{-0.0013}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.023}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.7^{+8.2}_{-8.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.59^{+0.10}_{-0.069}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.11}_{-0.30}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.095}$	z_*	$1089.89^{+0.73}_{-0.59}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.7}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$143.8^{+1.1}_{-3.6}$	$\chi_{\mathrm{lensing}}^2$	$9.18 (\nu: 0.3)$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04104^{+0.00078}_{-0.0011}$	χ_{small}^2	$262 (\nu: 16193.5)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.11}_{-0.34}$	χ_{lowl}^2	$158 (\nu: 16184.7)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.22}$	z_{drag}	$1060.3^{+1.5}_{-0.91}$	χ_{plik}^2	$2361.5 (\nu: 18.3)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.68}_{-0.69}$	r_{drag}	$146.4^{+1.2}_{-3.8}$	χ_{JLA}^2	$1035.16 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_{D}	$0.1414^{+0.0028}_{-0.0011}$	$\chi_{6\mathrm{DF}}^2$	$0.47 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00089}_{-0.00052}$	χ_{MGS}^2	$0.76 (\nu: 0.2)$
H_0	$67.9^{+2.5}_{-1.2}$	z_{eq}	3340^{+92}_{-200}	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 (\nu: 1.3)$
Ω_{Λ}	$0.688^{+0.016}_{-0.016}$	k_{eq}	$0.01028^{+0.00032}_{-0.00055}$	χ_{prior}^2	$11.7 (\nu: 10.3)$
Ω_{m}	$0.312^{+0.016}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.044}_{-0.019}$	χ_{CMB}^2	$2791.2 (\nu: 19.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0070}_{-0.0032}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.023}_{-0.0097}$	χ_{BAO}^2	$6.5 (\nu: 0.9)$
$\Omega_{\nu}h^2$	$0.0026^{+0.0091}_{-0.0021}$	$H(0.15)$	$73.2^{+2.5}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3844.44; R - 1 = 0.02316$$

8.47 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02248^{+0.00039}_{-0.00036}$	$\Omega_m h^3$	$0.0974^{+0.0054}_{-0.0015}$	$D_M(0.15)$	640^{+11}_{-17}
$\Omega_c h^2$	$0.1185^{+0.0063}_{-0.0095}$	σ_8	$0.793^{+0.033}_{-0.060}$	$H(0.38)$	$83.2^{+1.9}_{-0.83}$
$100\theta_{MC}$	$1.04093^{+0.00073}_{-0.00084}$	S_8	$0.810^{+0.038}_{-0.060}$	$D_M(0.38)$	1526^{+21}_{-39}
τ	$0.057^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.021}_{-0.033}$	$H(0.51)$	$90.0^{+1.9}_{-0.73}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.917	$\sigma_8 \Omega_m^{0.25}$	$0.593^{+0.025}_{-0.044}$	$D_M(0.51)$	1976^{+25}_{-48}
N_{eff}	< 3.34	$\sigma_8/h^{0.5}$	$0.963^{+0.037}_{-0.071}$	$H(0.61)$	$95.7^{+2.0}_{-0.66}$
$\ln(10^{10} A_s)$	$3.051^{+0.042}_{-0.039}$	$r_{\text{drag}} h$	$99.3^{+2.1}_{-2.1}$	$D_M(0.61)$	2299^{+28}_{-55}
n_s	$0.968^{+0.014}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.055}_{-0.055}$	$H(2.33)$	$237.2^{+4.0}_{-2.1}$
y_{cal}	$1.0009^{+0.0064}_{-0.0060}$	z_{re}	$7.9^{+2.0}_{-1.9}$	$D_M(2.33)$	5741^{+36}_{-110}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.113^{+0.090}_{-0.080}$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.033}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.885^{+0.031}_{-0.027}$	$\sigma_8(0.15)$	$0.733^{+0.032}_{-0.056}$
A_{143}^{tSZ}	—	D_{40}	1227^{+31}_{-31}	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5740^{+99}_{-92}	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2541^{+35}_{-32}	$f\sigma_8(0.51)$	$0.464^{+0.019}_{-0.034}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.607^{+0.027}_{-0.046}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$230.7^{+3.9}_{-4.0}$	$f\sigma_8(0.61)$	$0.459^{+0.019}_{-0.034}$
A^{kSZ}	—	$n_{s,0.002}$	$0.968^{+0.014}_{-0.011}$	$\sigma_8(0.61)$	$0.578^{+0.026}_{-0.043}$
A_{100}^{dustTT}	$8.9^{+5.0}_{-4.6}$	Y_P	$0.2463^{+0.0031}_{-0.00099}$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.022}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.2476^{+0.0031}_{-0.0010}$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.023}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.7^{+8.3}_{-8.6}$	$10^5 D/H$	$2.589^{+0.085}_{-0.067}$	f_{2000}^{143}	30^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.745^{+0.083}_{-0.26}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.095}$	z_*	$1089.89^{+0.64}_{-0.58}$	f_{2000}^{217}	$107.3^{+4.6}_{-4.7}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.077}$	r_*	$143.98^{+0.99}_{-2.5}$	χ_{lensing}^2	$9.13 (\nu: 0.3)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04107^{+0.00075}_{-0.00091}$	χ_{small}^2	$269 (\nu: 15818.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.830^{+0.093}_{-0.23}$	χ_{lowl}^2	$152 (\nu: 15816.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1060.3^{+1.1}_{-0.86}$	χ_{plik}^2	$2361.0 (\nu: 17.3)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.68}$	r_{drag}	$146.6^{+1.0}_{-2.6}$	χ_{Aver15}^2	$0.50 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.1413^{+0.0019}_{-0.0010}$	$\chi_{6\text{DF}}^2$	$0.44 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16080^{+0.00072}_{-0.00049}$	χ_{MGS}^2	$0.73 (\nu: 0.2)$
H_0	$67.7^{+2.0}_{-1.2}$	z_{eq}	3340^{+96}_{-200}	χ_{DR12BAO}^2	$5.5 (\nu: 1.7)$
Ω_Λ	$0.687^{+0.016}_{-0.017}$	k_{eq}	$0.01027^{+0.00029}_{-0.00054}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_m	$0.313^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.826^{+0.044}_{-0.019}$	χ_{CMB}^2	$2790.7 (\nu: 18.0)$
$\Omega_m h^2$	$0.1437^{+0.0049}_{-0.0030}$	$100\theta_{s,\text{eq}}$	$0.456^{+0.023}_{-0.010}$	χ_{BAO}^2	$6.7 (\nu: 1.2)$
$\Omega_\nu h^2$	$0.0028^{+0.0089}_{-0.0023}$	$H(0.15)$	$73.1^{+1.9}_{-1.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2809.56; R - 1 = 0.02106$$

8.48 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02247^{+0.00038}_{-0.00035}$	σ_8	$0.793^{+0.033}_{-0.060}$	$D_M(0.38)$	1526^{+21}_{-39}
$\Omega_c h^2$	$0.1185^{+0.0061}_{-0.0096}$	S_8	$0.811^{+0.038}_{-0.060}$	$H(0.51)$	$90.0^{+1.9}_{-0.73}$
$100\theta_{MC}$	$1.04092^{+0.00074}_{-0.00084}$	$\sigma_8 \Omega_m^{0.5}$	$0.444^{+0.021}_{-0.033}$	$D_M(0.51)$	1977^{+25}_{-49}
τ	$0.057^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	$0.593^{+0.025}_{-0.044}$	$H(0.61)$	$95.7^{+2.0}_{-0.67}$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	< 0.928	$\sigma_8/h^{0.5}$	$0.964^{+0.037}_{-0.071}$	$D_M(0.61)$	2300^{+28}_{-55}
N_{eff}	< 3.34	$r_{\text{drag}} h$	$99.3^{+2.1}_{-2.1}$	$H(2.33)$	$237.2^{+3.9}_{-2.1}$
$\ln(10^{10} A_s)$	$3.051^{+0.042}_{-0.039}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.054}_{-0.055}$	$D_M(2.33)$	5741^{+36}_{-110}
n_s	$0.968^{+0.014}_{-0.011}$	z_{re}	$7.9^{+2.0}_{-1.9}$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.034}$
y_{cal}	$1.0009^{+0.0064}_{-0.0060}$	$10^9 A_s$	$2.113^{+0.091}_{-0.080}$	$\sigma_8(0.15)$	$0.733^{+0.032}_{-0.056}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.885^{+0.031}_{-0.027}$	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1227^{+31}_{-31}	$\sigma_8(0.38)$	$0.649^{+0.029}_{-0.050}$
A_{143}^{tSZ}	—	D_{220}	5739^{+98}_{-92}	$f\sigma_8(0.51)$	$0.464^{+0.019}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{810}	2541^{+35}_{-32}	$\sigma_8(0.51)$	$0.607^{+0.027}_{-0.046}$
A_{143}^{PS}	47^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.61)$	$0.459^{+0.019}_{-0.034}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{2000}	$230.7^{+3.8}_{-3.9}$	$\sigma_8(0.61)$	$0.578^{+0.026}_{-0.043}$
A_{217}^{PS}	115^{+20}_{-30}	$n_{s,0.002}$	$0.968^{+0.014}_{-0.011}$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.022}$
A^{kSZ}	—	Y_P	$0.2463^{+0.0031}_{-0.0010}$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.023}$
$A_{100}^{\text{dust}TT}$	$8.9^{+5.0}_{-4.6}$	Y_P^{BBN}	$0.2476^{+0.0031}_{-0.0010}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143}^{\text{dust}TT}$	$10.9^{+4.6}_{-4.6}$	$10^5 \text{D}/\text{H}$	$2.590^{+0.078}_{-0.064}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\text{dust}TT}$	$18.7^{+8.3}_{-8.6}$	Age/Gyr	$13.745^{+0.083}_{-0.26}$	f_{2000}^{217}	$107.4^{+4.6}_{-4.7}$
$A_{217}^{\text{dust}TT}$	94^{+20}_{-20}	z_*	$1089.90^{+0.61}_{-0.55}$	χ_{lensing}^2	$9.14 (\nu: 0.3)$
$A_{100}^{\text{dust}TE}$	$0.114^{+0.10}_{-0.095}$	r_*	$144.0^{+1.0}_{-2.5}$	χ_{simall}^2	$270 (\nu: 15754.2)$
$A_{100 \times 143}^{\text{dust}TE}$	$0.135^{+0.077}_{-0.076}$	$100\theta_*$	$1.04107^{+0.00075}_{-0.00090}$	χ_{lowl}^2	$151 (\nu: 15753.4)$
$A_{100 \times 217}^{\text{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.829^{+0.093}_{-0.23}$	χ_{plik}^2	$2360.9 (\nu: 17.2)$
$A_{143}^{\text{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.2^{+1.1}_{-0.88}$	χ_{Aver15}^2	$0.51 (\nu: 0.1)$
$A_{143 \times 217}^{\text{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$146.6^{+1.0}_{-2.5}$	χ_{Cooke17}^2	$0.16 (\nu: 0.0)$
$A_{217}^{\text{dust}TE}$	$2.08^{+0.69}_{-0.69}$	k_D	$0.1413^{+0.0019}_{-0.0010}$	$\chi_{6\text{DF}}^2$	$0.43 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16081^{+0.00069}_{-0.00048}$	χ_{MGS}^2	$0.73 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	z_{eq}	3340^{+85}_{-220}	χ_{DR12BAO}^2	$5.6 (\nu: 1.7)$
H_0	$67.7^{+2.0}_{-1.2}$	k_{eq}	$0.01027^{+0.00029}_{-0.00054}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_Λ	$0.686^{+0.016}_{-0.017}$	$100\theta_{\text{eq}}$	$0.826^{+0.044}_{-0.019}$	χ_{CMB}^2	$2790.7 (\nu: 18.0)$
Ω_m	$0.314^{+0.017}_{-0.016}$	$100\theta_{s,\text{eq}}$	$0.456^{+0.023}_{-0.010}$	χ_{BAO}^2	$6.8 (\nu: 1.3)$
$\Omega_m h^2$	$0.1438^{+0.0049}_{-0.0030}$	$H(0.15)$	$73.0^{+2.0}_{-1.1}$	χ_{Abund}^2	$0.67 (\nu: 0.1)$
$\Omega_\nu h^2$	$0.0028^{+0.0089}_{-0.0023}$	$D_M(0.15)$	640^{+11}_{-18}		
$\Omega_m h^3$	$0.0974^{+0.0048}_{-0.0017}$	$H(0.38)$	$83.2^{+1.9}_{-0.84}$		

$$\bar{\chi}_{\text{eff}}^2 = 2809.72; R - 1 = 0.02079$$

8.49 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00043}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.0977^{+0.0064}_{-0.0021}$	$D_{\mathrm{M}}(0.15)$	639^{+11}_{-22}
$\Omega_{\mathrm{c}}h^2$	$0.1187^{+0.0079}_{-0.010}$	σ_8	$0.794^{+0.035}_{-0.061}$	$H(0.38)$	$83.3^{+2.6}_{-0.92}$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00075}_{-0.00089}$	S_8	$0.811^{+0.038}_{-0.062}$	$D_{\mathrm{M}}(0.38)$	1524^{+23}_{-51}
τ	$0.058^{+0.020}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.021}_{-0.034}$	$H(0.51)$	$90.1^{+2.2}_{-0.96}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.948	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.025}_{-0.045}$	$D_{\mathrm{M}}(0.51)$	1974^{+27}_{-65}
N_{eff}	< 3.44	$\sigma_8/h^{0.5}$	$0.964^{+0.040}_{-0.066}$	$H(0.61)$	$95.8^{+2.2}_{-0.88}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.053^{+0.043}_{-0.032}$	$r_{\mathrm{drag}}h$	$99.3^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2297^{+30}_{-74}
n_{s}	$0.968^{+0.017}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.056}_{-0.053}$	$H(2.33)$	$237.4^{+5.6}_{-2.3}$
y_{cal}	$1.0009^{+0.0063}_{-0.0062}$	z_{re}	< 9.83	$D_{\mathrm{M}}(2.33)$	5735^{+47}_{-130}
A_{217}^{CIB}	47^{+20}_{-20}	10^9A_{s}	$2.118^{+0.093}_{-0.067}$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.034}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.035}_{-0.028}$	$\sigma_8(0.15)$	$0.733^{+0.033}_{-0.057}$
A_{143}^{tSZ}	$5.4^{+4.3}_{-4.8}$	D_{40}	1226^{+31}_{-32}	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
A_{100}^{PS}	260^{+70}_{-70}	D_{220}	5740^{+97}_{-94}	$\sigma_8(0.38)$	$0.650^{+0.031}_{-0.051}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2542^{+34}_{-33}	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.035}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.608^{+0.029}_{-0.048}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.7^{+4.0}_{-4.1}$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.035}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.968^{+0.017}_{-0.012}$	$\sigma_8(0.61)$	$0.579^{+0.028}_{-0.045}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.6}$	Y_{P}	$0.2465^{+0.0043}_{-0.0012}$	$f\sigma_8(2.33)$	$0.292^{+0.015}_{-0.023}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2478^{+0.0044}_{-0.0012}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.024}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.6^{+8.3}_{-8.4}$	$10^5\mathrm{D}/\mathrm{H}$	$2.591^{+0.097}_{-0.068}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.73^{+0.11}_{-0.30}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.098}_{-0.095}$	z_*	$1089.90^{+0.71}_{-0.58}$	f_{2000}^{217}	$107.4^{+4.7}_{-4.8}$
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$143.8^{+1.3}_{-3.5}$	$\chi_{\mathrm{lensing}}^2$	$9.12 (\nu: 0.3)$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04104^{+0.00078}_{-0.0011}$	χ_{small}^2	$397.6 (\nu: 2.7)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.12}_{-0.32}$	χ_{lowl}^2	$23.03 (\nu: 0.4)$
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.3^{+1.5}_{-0.92}$	χ_{plik}^2	$2361.3 (\nu: 18.3)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.69}_{-0.68}$	r_{drag}	$146.5^{+1.3}_{-3.6}$	$\chi_{6\mathrm{DF}}^2$	$0.084 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1414^{+0.0028}_{-0.0011}$	χ_{MGS}^2	$1.10 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00086}_{-0.00051}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.5 (\nu: 1.7)$
H_0	$67.8^{+2.6}_{-1.3}$	z_{eq}	3339^{+87}_{-230}	χ_{prior}^2	$11.6 (\nu: 10.4)$
Ω_{Λ}	$0.687^{+0.016}_{-0.017}$	k_{eq}	$0.01027^{+0.00032}_{-0.00057}$	χ_{CMB}^2	$2791.1 (\nu: 19.4)$
Ω_{m}	$0.313^{+0.017}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.051}_{-0.017}$	χ_{BAO}^2	$6.7 (\nu: 1.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1440^{+0.0067}_{-0.0033}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.027}_{-0.0090}$		
$\Omega_{\nu}h^2$	$0.0028^{+0.0089}_{-0.0022}$	$H(0.15)$	$73.1^{+2.6}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2809.40; R - 1 = 0.02345$$

8.50 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02250^{+0.00041}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.0978^{+0.0074}_{-0.0022}$	$D_{\mathrm{M}}(0.15)$	638^{+11}_{-22}
$\Omega_{\mathrm{c}}h^2$	$0.1188^{+0.0079}_{-0.0099}$	σ_8	$0.795^{+0.035}_{-0.060}$	$H(0.38)$	$83.4^{+2.6}_{-0.92}$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00075}_{-0.00091}$	S_8	$0.811^{+0.037}_{-0.061}$	$D_{\mathrm{M}}(0.38)$	1522^{+22}_{-49}
τ	$0.058^{+0.020}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.020}_{-0.033}$	$H(0.51)$	$90.2^{+2.2}_{-0.95}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.884	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.026}_{-0.045}$	$D_{\mathrm{M}}(0.51)$	1972^{+27}_{-63}
N_{eff}	< 3.46	$\sigma_8/h^{0.5}$	$0.965^{+0.037}_{-0.071}$	$H(0.61)$	$95.8^{+2.2}_{-0.89}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.053^{+0.042}_{-0.032}$	$r_{\mathrm{drag}}h$	$99.5^{+2.0}_{-1.9}$	$D_{\mathrm{M}}(0.61)$	2294^{+30}_{-72}
n_{s}	$0.969^{+0.017}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.054}_{-0.052}$	$H(2.33)$	$237.4^{+5.8}_{-2.4}$
y_{cal}	$1.0009^{+0.0064}_{-0.0060}$	z_{re}	< 9.82	$D_{\mathrm{M}}(2.33)$	5732^{+48}_{-130}
A_{217}^{CIB}	47^{+20}_{-20}	10^9A_{s}	$2.117^{+0.091}_{-0.068}$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.034}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.034}_{-0.028}$	$\sigma_8(0.15)$	$0.735^{+0.033}_{-0.056}$
A_{143}^{tSZ}	—	D_{40}	1226^{+32}_{-32}	$f\sigma_8(0.38)$	$0.467^{+0.020}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5741^{+98}_{-92}	$\sigma_8(0.38)$	$0.651^{+0.030}_{-0.050}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2542^{+35}_{-32}	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.035}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.609^{+0.029}_{-0.047}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$230.7^{+3.9}_{-4.1}$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.035}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.969^{+0.017}_{-0.011}$	$\sigma_8(0.61)$	$0.580^{+0.027}_{-0.044}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+5.0}_{-4.7}$	Y_{P}	$0.2465^{+0.0052}_{-0.0013}$	$f\sigma_8(2.33)$	$0.293^{+0.014}_{-0.023}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2479^{+0.0052}_{-0.0013}$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.023}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.7^{+8.2}_{-8.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.59^{+0.10}_{-0.069}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.72^{+0.11}_{-0.31}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.095}$	z_*	$1089.89^{+0.74}_{-0.59}$	f_{2000}^{217}	$107.4^{+4.8}_{-4.7}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$143.8^{+1.1}_{-3.6}$	$\chi_{\mathrm{lensing}}^2$	$9.16 (\nu: 0.3)$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04104^{+0.00078}_{-0.0011}$	χ_{small}^2	$262 (\nu: 16204.5)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.82^{+0.11}_{-0.34}$	χ_{lowl}^2	$158 (\nu: 16195.0)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.22}$	z_{drag}	$1060.3^{+1.5}_{-0.91}$	χ_{plik}^2	$2361.4 (\nu: 18.3)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.68}_{-0.68}$	r_{drag}	$146.4^{+1.2}_{-3.8}$	χ_{JLA}^2	$1035.16 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_{D}	$0.1414^{+0.0029}_{-0.0011}$	$\chi_{6\mathrm{DF}}^2$	$0.47 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00089}_{-0.00052}$	χ_{MGS}^2	$0.76 (\nu: 0.2)$
H_0	$67.9^{+2.4}_{-1.2}$	z_{eq}	3340^{+92}_{-200}	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 (\nu: 1.3)$
Ω_{Λ}	$0.688^{+0.016}_{-0.016}$	k_{eq}	$0.01028^{+0.00032}_{-0.00055}$	χ_{prior}^2	$11.7 (\nu: 10.3)$
Ω_{m}	$0.312^{+0.016}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.044}_{-0.019}$	χ_{CMB}^2	$2791.1 (\nu: 18.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0070}_{-0.0032}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.023}_{-0.0097}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
$\Omega_{\nu}h^2$	$0.0026^{+0.0091}_{-0.0021}$	$H(0.15)$	$73.2^{+2.5}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3844.37; R - 1 = 0.02468$$

8.51 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02248^{+0.00038}_{-0.00036}$	$\Omega_{\mathrm{m}}h^3$	$0.0974^{+0.0048}_{-0.0017}$	$D_{\mathrm{M}}(0.15)$	640^{+10}_{-17}
$\Omega_{\mathrm{c}}h^2$	$0.1185^{+0.0063}_{-0.0095}$	σ_8	$0.793^{+0.033}_{-0.058}$	$H(0.38)$	$83.2^{+1.9}_{-0.82}$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00073}_{-0.00084}$	S_8	$0.810^{+0.038}_{-0.060}$	$D_{\mathrm{M}}(0.38)$	1526^{+21}_{-39}
τ	$0.058^{+0.019}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.021}_{-0.033}$	$H(0.51)$	$90.0^{+1.9}_{-0.72}$
$m_{\nu,\mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.898	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.593^{+0.025}_{-0.044}$	$D_{\mathrm{M}}(0.51)$	1976^{+25}_{-48}
N_{eff}	< 3.34	$\sigma_8/h^{0.5}$	$0.964^{+0.037}_{-0.070}$	$H(0.61)$	$95.7^{+2.0}_{-0.66}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.051^{+0.041}_{-0.031}$	$r_{\mathrm{drag}}h$	$99.3^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2299^{+27}_{-55}
n_{s}	$0.968^{+0.014}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.054}_{-0.052}$	$H(2.33)$	$237.2^{+4.0}_{-2.1}$
y_{cal}	$1.0009^{+0.0064}_{-0.0059}$	z_{re}	< 9.77	$D_{\mathrm{M}}(2.33)$	5741^{+36}_{-110}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.115^{+0.089}_{-0.066}$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.033}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.031}_{-0.027}$	$\sigma_8(0.15)$	$0.733^{+0.031}_{-0.054}$
A_{143}^{tSZ}	—	D_{40}	1227^{+31}_{-30}	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5740^{+98}_{-92}	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.048}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2541^{+36}_{-32}	$f\sigma_8(0.51)$	$0.464^{+0.019}_{-0.034}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.608^{+0.027}_{-0.045}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$230.7^{+3.9}_{-3.9}$	$f\sigma_8(0.61)$	$0.459^{+0.019}_{-0.034}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.968^{+0.014}_{-0.011}$	$\sigma_8(0.61)$	$0.578^{+0.026}_{-0.043}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+5.0}_{-4.6}$	Y_{P}	$0.2463^{+0.0031}_{-0.0010}$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.022}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2476^{+0.0031}_{-0.0010}$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.023}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.7^{+8.3}_{-8.6}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.588^{+0.085}_{-0.067}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.744^{+0.083}_{-0.26}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.095}$	z_*	$1089.89^{+0.64}_{-0.58}$	f_{2000}^{217}	$107.3^{+4.6}_{-4.7}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$143.98^{+0.99}_{-2.5}$	$\chi_{\mathrm{lensing}}^2$	$9.11 (\nu: 0.3)$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04107^{+0.00075}_{-0.00091}$	χ_{small}^2	$268 (\nu: 15831.7)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.830^{+0.093}_{-0.23}$	χ_{lowl}^2	$152 (\nu: 15829.2)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1060.3^{+1.1}_{-0.86}$	χ_{plik}^2	$2360.9 (\nu: 17.2)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.69}_{-0.68}$	r_{drag}	$146.6^{+1.0}_{-2.6}$	χ_{Aver15}^2	$0.51 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_{D}	$0.1413^{+0.0019}_{-0.0010}$	$\chi_{6\mathrm{DF}}^2$	$0.44 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16080^{+0.00073}_{-0.00049}$	χ_{MGS}^2	$0.73 (\nu: 0.2)$
H_0	$67.7^{+2.0}_{-1.2}$	z_{eq}	3339^{+86}_{-220}	$\chi_{\mathrm{DR12BAO}}^2$	$5.5 (\nu: 1.6)$
Ω_{Λ}	$0.687^{+0.016}_{-0.017}$	k_{eq}	$0.01027^{+0.00029}_{-0.00054}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{m}	$0.313^{+0.017}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.827^{+0.044}_{-0.019}$	χ_{CMB}^2	$2790.6 (\nu: 17.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1437^{+0.0049}_{-0.0030}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.023}_{-0.010}$	χ_{BAO}^2	$6.7 (\nu: 1.2)$
$\Omega_{\nu}h^2$	$0.0028^{+0.0089}_{-0.0023}$	$H(0.15)$	$73.1^{+1.9}_{-1.0}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2809.47; R - 1 = 0.02226$$

8.52 base_nnu_meffsterile_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02247^{+0.00038}_{-0.00036}$	σ_8	$0.793^{+0.033}_{-0.058}$	$D_{\mathrm{M}}(0.38)$	1526^{+21}_{-39}
$\Omega_{\mathrm{c}} h^2$	$0.1185^{+0.0062}_{-0.0095}$	S_8	$0.811^{+0.037}_{-0.060}$	$H(0.51)$	$90.0^{+1.9}_{-0.73}$
$100\theta_{\mathrm{MC}}$	$1.04092^{+0.00074}_{-0.00084}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.021}_{-0.033}$	$D_{\mathrm{M}}(0.51)$	1976^{+25}_{-49}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.025}_{-0.044}$	$H(0.61)$	$95.7^{+2.0}_{-0.66}$
$m_{\nu, \mathrm{sterile}}^{\mathrm{eff}} [\mathrm{eV}]$	< 0.910	$\sigma_8/h^{0.5}$	$0.964^{+0.037}_{-0.071}$	$D_{\mathrm{M}}(0.61)$	2300^{+27}_{-55}
N_{eff}	< 3.34	$r_{\mathrm{drag}} h$	$99.3^{+2.1}_{-2.1}$	$H(2.33)$	$237.2^{+3.9}_{-2.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.051^{+0.042}_{-0.031}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.054}_{-0.052}$	$D_{\mathrm{M}}(2.33)$	5741^{+36}_{-110}
n_{s}	$0.968^{+0.014}_{-0.011}$	z_{re}	< 9.77	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.033}$
y_{cal}	$1.0009^{+0.0064}_{-0.0060}$	$10^9 A_{\mathrm{s}}$	$2.114^{+0.090}_{-0.066}$	$\sigma_8(0.15)$	$0.733^{+0.031}_{-0.054}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.030}_{-0.027}$	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.035}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{40}	1227^{+31}_{-31}	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.048}$
A_{143}^{tSZ}	—	D_{220}	5739^{+98}_{-91}	$f\sigma_8(0.51)$	$0.465^{+0.019}_{-0.034}$
A_{100}^{PS}	259^{+70}_{-70}	D_{810}	2541^{+35}_{-32}	$\sigma_8(0.51)$	$0.608^{+0.027}_{-0.045}$
A_{143}^{PS}	47^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.61)$	$0.460^{+0.019}_{-0.034}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{2000}	$230.7^{+3.8}_{-3.9}$	$\sigma_8(0.61)$	$0.578^{+0.026}_{-0.043}$
A_{217}^{PS}	115^{+20}_{-30}	$n_{\mathrm{s}, 0.002}$	$0.968^{+0.014}_{-0.011}$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.022}$
A^{kSZ}	—	Y_{P}	$0.2463^{+0.0031}_{-0.0010}$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.023}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2476^{+0.0031}_{-0.0010}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.6}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.590^{+0.079}_{-0.064}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.7^{+8.3}_{-8.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.744^{+0.083}_{-0.26}$	f_{2000}^{217}	$107.4^{+4.6}_{-4.7}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.90^{+0.61}_{-0.55}$	$\chi_{\mathrm{lensing}}^2$	$9.11 (\nu: 0.3)$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.095}$	r_*	$144.0^{+1.0}_{-2.5}$	χ_{simall}^2	$270 (\nu: 15765.9)$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.076}$	$100\theta_*$	$1.04107^{+0.00075}_{-0.00090}$	χ_{lowl}^2	$151 (\nu: 15764.5)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.829^{+0.094}_{-0.23}$	χ_{plik}^2	$2360.9 (\nu: 17.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.2^{+1.1}_{-0.89}$	χ_{Aver15}^2	$0.51 (\nu: 0.1)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$146.6^{+1.0}_{-2.5}$	$\chi_{\mathrm{Cooke17}}^2$	$0.16 (\nu: 0.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.68}$	k_{D}	$0.1413^{+0.0019}_{-0.0010}$	$\chi_{6\mathrm{DF}}^2$	$0.43 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00069}_{-0.00048}$	χ_{MGS}^2	$0.73 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	z_{eq}	3340^{+86}_{-220}	$\chi_{\mathrm{DR12BAO}}^2$	$5.6 (\nu: 1.6)$
H_0	$67.7^{+2.0}_{-1.2}$	k_{eq}	$0.01027^{+0.00029}_{-0.00054}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{Λ}	$0.686^{+0.016}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.044}_{-0.019}$	χ_{CMB}^2	$2790.6 (\nu: 17.8)$
Ω_{m}	$0.314^{+0.017}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.023}_{-0.010}$	χ_{BAO}^2	$6.7 (\nu: 1.2)$
$\Omega_{\mathrm{m}} h^2$	$0.1438^{+0.0049}_{-0.0030}$	$H(0.15)$	$73.0^{+2.0}_{-1.1}$	χ_{Abund}^2	$0.67 (\nu: 0.1)$
$\Omega_{\nu} h^2$	$0.0028^{+0.0089}_{-0.0023}$	$D_{\mathrm{M}}(0.15)$	640^{+11}_{-18}		
$\Omega_{\mathrm{m}} h^3$	$0.0974^{+0.0054}_{-0.0015}$	$H(0.38)$	$83.2^{+1.9}_{-0.82}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2809.63; R - 1 = 0.02220$$

8.53 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022343	$0.02241^{+0.00042}_{-0.00039} \quad (-0.6\sigma)$	S_8	0.8223	$0.809^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	83.00	$83.4^{+3.0}_{-1.1} \quad (+0.2\sigma)$
$\Omega_c h^2$	0.1191	$0.1192^{+0.0081}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4504	$0.443^{+0.020}_{-0.034} \quad (-0.1\sigma)$	$D_M(0.38)$	1529.1	$1522^{+25}_{-58} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04094	$1.04081^{+0.00080}_{-0.00096} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6032	$0.593^{+0.025}_{-0.045} \quad (-0.0\sigma)$	$H(0.51)$	89.71	$90.2^{+3.1}_{-0.96} \quad (+0.2\sigma)$
τ	0.0546	$0.056^{+0.021}_{-0.018} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.982	$0.963^{+0.036}_{-0.072} \quad (-0.0\sigma)$	$D_M(0.51)$	1981	$1971^{+30}_{-73} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.011	$< 0.972 \quad (-0.2\sigma)$	$r_{\text{drag}} h$	99.64	$99.5^{+2.1}_{-2.2} \quad (+0.2\sigma)$	$H(0.61)$	95.33	$95.9^{+3.2}_{-0.91} \quad (+0.2\sigma)$
N_{eff}	3.046	$< 3.52 \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.429	$2.427^{+0.053}_{-0.055} \quad (-0.4\sigma)$	$D_M(0.61)$	2305	$2294^{+34}_{-83} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0410	$3.048^{+0.042}_{-0.039} \quad (-0.2\sigma)$	z_{re}	7.70	$7.9^{+1.9}_{-1.9} \quad (-0.1\sigma)$	$H(2.33)$	235.99	$237.5^{+5.5}_{-2.9} \quad (+0.0\sigma)$
n_s	0.9673	$0.969^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	2.093	$2.109^{+0.089}_{-0.080} \quad (-0.2\sigma)$	$D_M(2.33)$	5763	$5731^{+57}_{-150} \quad (-0.1\sigma)$
y_{cal}	1.0002	$1.0008^{+0.0062}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8762	$1.883^{+0.038}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4550	$0.448^{+0.020}_{-0.034} \quad (-0.0\sigma)$
A_{100}^{PS}	236	$243^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	1223.1	$1222^{+32}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7466	$0.733^{+0.034}_{-0.058} \quad (+0.0\sigma)$
A_{143}^{PS}	47.5	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	5717	$5726^{+99}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4735	$0.466^{+0.020}_{-0.035} \quad (-0.0\sigma)$
A_{217}^{PS}	103.5	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2535.0	$2538^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6619	$0.650^{+0.031}_{-0.052} \quad (+0.0\sigma)$
A_{217}^{CIB}	39.8	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	816.1	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4722	$0.465^{+0.020}_{-0.035} \quad (-0.0\sigma)$
A_{143}^{tSZ}	4.40	$< 8.67 \quad (-0.8\sigma)$	D_{2000}	230.54	$229.8^{+4.1}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6194	$0.608^{+0.030}_{-0.049} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.725	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	0.9673	$0.969^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4672	$0.460^{+0.020}_{-0.035} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.73	—	Y_P	0.24539	$0.2467^{+0.0049}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.5894	$0.579^{+0.028}_{-0.047} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.94	—	Y_P^{BBN}	0.24671	$0.2481^{+0.0049}_{-0.0015} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	0.2972	$0.292^{+0.015}_{-0.024} \quad (+0.1\sigma)$
A^{kSZ}	3.4	—	$10^5 D/H$	2.591	$2.61^{+0.11}_{-0.078} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	0.3064	$0.301^{+0.016}_{-0.025} \quad (+0.1\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.796	$13.72^{+0.13}_{-0.35} \quad (-0.1\sigma)$	f_{2000}^{143}	29.7	$31^{+8}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	0.975	$0.96^{+0.45}_{-0.46}$	z_*	1089.88	$1090.04^{+0.81}_{-0.63} \quad (+0.6\sigma)$	f_{2000}^{217}	106.4	$107.5^{+5.3}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	0.982	$0.97^{+0.26}_{-0.26}$	r_*	144.66	$143.8^{+1.5}_{-3.5} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.0	$33^{+6}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.019	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	1.04113	$1.04094^{+0.00083}_{-0.0012} \quad (-0.3\sigma)$	χ_{lensing}^2	8.94	$9.5 \quad (\nu: 0.5) \quad (+0.5\sigma)$
c_{100}	0.99765	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	13.895	$13.81^{+0.14}_{-0.32} \quad (-0.1\sigma)$	χ_{small}^2	396.07	$397.3 \quad (\nu: 2.1) \quad (-0.1\sigma)$
c_{217}	1.00128	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	1059.82	$1060.1^{+1.5}_{-0.98} \quad (-0.4\sigma)$	χ_{lowl}^2	22.86	$22.72 \quad (\nu: 0.4) \quad (-0.3\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.013}$	r_{drag}	147.34	$146.4^{+1.5}_{-3.6} \quad (-0.1\sigma)$	χ_{CamSpec}^2	11500.0	$11516.1 \quad (\nu: 16.9)$
c_{EE}	0.9920	$0.993^{+0.013}_{-0.013}$	k_D	0.14058	$0.1413^{+0.0027}_{-0.0014} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.030	$0.073 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	67.63	$67.9^{+2.9}_{-1.4} \quad (+0.2\sigma)$	$100\theta_D$	0.16083	$0.1610^{+0.0010}_{-0.00059} \quad (+0.8\sigma)$	χ_{MGS}^2	1.22	$1.18 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_Λ	0.6892	$0.688^{+0.017}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	3379	$3338^{+83}_{-240} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	4.42	$5.2 \quad (\nu: 1.5) \quad (-0.2\sigma)$
Ω_m	0.3108	$0.312^{+0.017}_{-0.017} \quad (-0.2\sigma)$	k_{eq}	0.010315	$0.01028^{+0.00031}_{-0.00060} \quad (+0.0\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.1422	$0.1440^{+0.0072}_{-0.0036} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8175	$0.826^{+0.054}_{-0.016} \quad (-0.0\sigma)$	χ_{CMB}^2	11927.8	$11945.6 \quad (\nu: 18.3) \quad (+1466.2\sigma)$
$\Omega_\nu h^2$	0.0008	$0.0024^{+0.0092}_{-0.0022} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4516	$0.456^{+0.028}_{-0.0085} \quad (-0.0\sigma)$	χ_{BAO}^2	5.67	$6.5 \quad (\nu: 1.1) \quad (-0.1\sigma)$
$\Omega_m h^3$	0.0961	$0.0978^{+0.0075}_{-0.0025} \quad (+0.1\sigma)$	$H(0.15)$	72.90	$73.3^{+2.9}_{-1.2} \quad (+0.2\sigma)$			
σ_8	0.8079	$0.794^{+0.036}_{-0.062} \quad (+0.0\sigma)$	$D_M(0.15)$	641.1	$638^{+12}_{-25} \quad (-0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11935.63$; $\Delta\chi_{\text{eff}}^2 = 9155.23$; $\bar{\chi}_{\text{eff}}^2 = 11959.89$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.41$; $R - 1 = 0.03604$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ 0.00) MGS: 1.22 (Δ 0.00) DR12BAO: 4.42 (Δ -0.00) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.94 (Δ 0.19) small_100x143_offlike5_EE_Aplanck: 396.07 (Δ -0.36) commander_dx12_v3.2.29: 22.86 (Δ -0.19) CamSpec like_10.7HM_1400_unified: 11499.95

8.54 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022368	$0.02241^{+0.00043}_{-0.00038} \quad (-0.6\sigma)$	S_8	0.8213	$0.809^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	83.34	$83.5^{+3.0}_{-1.0} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.1197	$0.1192^{+0.0084}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4499	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$D_M(0.38)$	1522.2	$1520^{+25}_{-58} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04086	$1.04082^{+0.00080}_{-0.00097} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6034	$0.593^{+0.025}_{-0.045} \quad (-0.0\sigma)$	$H(0.51)$	90.05	$90.3^{+3.1}_{-0.97} \quad (+0.1\sigma)$
τ	0.0548	$0.057^{+0.021}_{-0.018} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.982	$0.964^{+0.035}_{-0.072} \quad (-0.0\sigma)$	$D_M(0.51)$	1972	$1969^{+30}_{-73} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	0.000	$< 0.962 \quad (-0.1\sigma)$	$r_{\text{drag}} h$	99.87	$99.6^{+2.0}_{-2.1} \quad (+0.2\sigma)$	$H(0.61)$	95.67	$95.9^{+2.7}_{-1.1} \quad (+0.1\sigma)$
N_{eff}	3.093	$< 3.53 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.428	$2.426^{+0.054}_{-0.054} \quad (-0.4\sigma)$	$D_M(0.61)$	2295	$2292^{+34}_{-84} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0433	$3.049^{+0.041}_{-0.038} \quad (-0.2\sigma)$	z_{re}	7.73	$7.9^{+2.0}_{-1.9} \quad (-0.1\sigma)$	$H(2.33)$	236.54	$237.4^{+5.7}_{-2.9} \quad (+0.0\sigma)$
n_s	0.9679	$0.970^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	2.097	$2.110^{+0.089}_{-0.079} \quad (-0.2\sigma)$	$D_M(2.33)$	5743	$5729^{+58}_{-150} \quad (-0.1\sigma)$
y_{cal}	1.0005	$1.0008^{+0.0062}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8796	$1.883^{+0.038}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4547	$0.448^{+0.020}_{-0.034} \quad (-0.1\sigma)$
A_{100}^{PS}	240	$243^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	1224.1	$1221^{+32}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7481	$0.734^{+0.034}_{-0.059} \quad (+0.0\sigma)$
A_{143}^{PS}	40.6	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5725	$5727^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4735	$0.466^{+0.019}_{-0.036} \quad (-0.0\sigma)$
A_{217}^{PS}	100.4	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	2535.3	$2538^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6634	$0.651^{+0.031}_{-0.052} \quad (+0.0\sigma)$
A_{217}^{CIB}	44.6	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	815.2	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4724	$0.465^{+0.020}_{-0.036} \quad (-0.0\sigma)$
A_{143}^{tSZ}	5.93	$< 8.64 \quad (-0.9\sigma)$	D_{2000}	229.98	$229.8^{+4.0}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	0.6209	$0.609^{+0.030}_{-0.049} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.577	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	0.9679	$0.970^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4677	$0.460^{+0.020}_{-0.035} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.78	—	Y_P	0.24602	$0.2468^{+0.0051}_{-0.0016} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.5909	$0.580^{+0.028}_{-0.047} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.11	—	Y_P^{BBN}	0.24735	$0.2481^{+0.0051}_{-0.0016} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	0.2980	$0.293^{+0.014}_{-0.024} \quad (+0.0\sigma)$
A^{kSZ}	1.1	—	$10^5 D/H$	2.602	$2.61^{+0.11}_{-0.077} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	0.3074	$0.302^{+0.015}_{-0.025} \quad (+0.0\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.750	$13.71^{+0.14}_{-0.36} \quad (-0.1\sigma)$	f_{2000}^{143}	30.9	$31^{+8}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	0.980	$0.96^{+0.45}_{-0.45}$	z_*	1089.95	$1090.02^{+0.82}_{-0.62} \quad (+0.5\sigma)$	f_{2000}^{217}	107.3	$107.5^{+5.4}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	0.974	$0.97^{+0.26}_{-0.26}$	r_*	144.27	$143.8^{+1.5}_{-3.6} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.6	$33^{+6}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.006	$1.03^{+0.42}_{-0.40}$	$100\theta_*$	1.04102	$1.04094^{+0.00083}_{-0.0012} \quad (-0.3\sigma)$	χ_{lensing}^2	9.02	$9.5 \quad (\nu: 0.5) \quad (+0.4\sigma)$
c_{100}	0.99761	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	13.858	$13.81^{+0.14}_{-0.33} \quad (-0.0\sigma)$	χ_{small}^2	396.12	$397.4 \quad (\nu: 2.2) \quad (+0.8\sigma)$
c_{217}	1.00143	$1.0012^{+0.0040}_{-0.0041} \quad (+4.9\sigma)$	z_{drag}	1059.93	$1060.2^{+1.6}_{-0.99} \quad (-0.4\sigma)$	χ_{lowl}^2	22.86	$22.66 \quad (\nu: 0.4) \quad (-0.8\sigma)$
c_{TE}	0.9965	$0.997^{+0.013}_{-0.013}$	r_{drag}	146.93	$146.4^{+1.6}_{-3.7} \quad (-0.0\sigma)$	χ_{CamSpec}^2	11500.0	$11516.2 \quad (\nu: 17.0)$
c_{EE}	0.9929	$0.993^{+0.013}_{-0.013}$	k_D	0.14086	$0.1413^{+0.0028}_{-0.0015} \quad (-0.2\sigma)$	χ_{JLA}^2	1034.94	$1035.11 \quad (\nu: 0.1) \quad (-0.1\sigma)$
H_0	67.97	$68.0^{+2.9}_{-1.4} \quad (+0.2\sigma)$	$100\theta_D$	0.16094	$0.1610^{+0.0010}_{-0.00060} \quad (+0.7\sigma)$	$\chi_{6\text{DF}}^2$	0.016	$0.060 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_Λ	0.6910	$0.689^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	3375	$3337^{+80}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	1.34	$1.25 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_m	0.3090	$0.311^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	0.010332	$0.01028^{+0.00032}_{-0.00060} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	4.09	$5.0 \quad (\nu: 1.2) \quad (-0.2\sigma)$
$\Omega_m h^2$	0.1428	$0.1439^{+0.0076}_{-0.0035} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	0.8182	$0.826^{+0.054}_{-0.016} \quad (+0.0\sigma)$	χ_{prior}^2	2.3	$7.8 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_\nu h^2$	0.0006	$0.0023^{+0.0093}_{-0.0021} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	0.4520	$0.456^{+0.028}_{-0.0083} \quad (+0.0\sigma)$	χ_{CMB}^2	11928.1	$11945.8 \quad (\nu: 18.5) \quad (+1483.2\sigma)$
$\Omega_m h^3$	0.0970	$0.0979^{+0.0077}_{-0.0026} \quad (+0.1\sigma)$	$H(0.15)$	73.24	$73.3^{+2.9}_{-1.2} \quad (+0.2\sigma)$	χ_{BAO}^2	5.45	$6.3 \quad (\nu: 0.8) \quad (-0.1\sigma)$
σ_8	0.8093	$0.795^{+0.036}_{-0.062} \quad (-0.0\sigma)$	$D_M(0.15)$	638.0	$637^{+12}_{-25} \quad (-0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 12970.74$; $\bar{\chi}_{\text{eff}}^2 = 12994.91$; $\Delta\chi_{\text{eff}}^2 = 9150.47$; $R - 1 = 0.03797$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.09 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.02 small_100x143.offlike5_EE_Aplanck_B: 396.12 commander_dx12_v3_2_29: 22.86 CamSpec like_10.7HM.1400_unified: 11500.05 SN - JLA Pantheon18: 1034.94

8.55 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	S_8	$0.808^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+2.1}_{-0.92} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1186^{+0.0066}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$D_M(0.38)$	$1525^{+22}_{-41} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04085^{+0.00077}_{-0.00086} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.024}_{-0.044} \quad (-0.1\sigma)$	$H(0.51)$	$90.0^{+2.1}_{-0.83} \quad (+0.1\sigma)$
τ	$0.056^{+0.021}_{-0.018} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.962^{+0.035}_{-0.072} \quad (-0.1\sigma)$	$D_M(0.51)$	$1975^{+27}_{-51} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.989 \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1} \quad (+0.2\sigma)$	$H(0.61)$	$95.7^{+2.2}_{-0.78} \quad (+0.0\sigma)$
N_{eff}	$< 3.39 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$D_M(0.61)$	$2298^{+30}_{-59} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.047^{+0.040}_{-0.038} \quad (-0.2\sigma)$	z_{re}	$7.9^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	$237.1^{+4.5}_{-2.2} \quad (-0.1\sigma)$
n_s	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.106^{+0.087}_{-0.078} \quad (-0.2\sigma)$	$D_M(2.33)$	$5741^{+42}_{-120} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.020}_{-0.034} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1223^{+31}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.732^{+0.031}_{-0.057} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5726^{+97}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2537^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.051} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.9\sigma)$	D_{2000}	$229.9^{+4.0}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.607^{+0.026}_{-0.048} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.459^{+0.019}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2464^{+0.0035}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.578^{+0.025}_{-0.046} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2477^{+0.0035}_{-0.0012} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.023} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.609^{+0.099}_{-0.072} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.024} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.743^{+0.097}_{-0.29} \quad (-0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	z_*	$1090.00^{+0.74}_{-0.60} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.3^{+5.0}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.0^{+1.2}_{-2.5} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$100\theta_*$	$1.04100^{+0.00078}_{-0.00097} \quad (-0.2\sigma)$	χ_{lensing}^2	$9.4 \quad (\nu: 0.5) \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.83^{+0.12}_{-0.24} \quad (+0.1\sigma)$	χ_{simall}^2	$397.3 \quad (\nu: 2.0) \quad (+0.7\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.93} \quad (-0.5\sigma)$	χ_{lowl}^2	$22.83 \quad (\nu: 0.4) \quad (-0.7\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.6} \quad (+0.1\sigma)$	χ_{CamSpec}^2	$11515.7 \quad (\nu: 16.2)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0022}_{-0.0011} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.56 \quad (\nu: 0.1) \quad (+0.2\sigma)$
H_0	$67.8^{+2.1}_{-1.2} \quad (+0.1\sigma)$	$100\theta_D$	$0.16096^{+0.00084}_{-0.00054} \quad (+0.7\sigma)$	χ_{6DF}^2	$0.074 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_Λ	$0.688^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	$3336^{+85}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.16 \quad (\nu: 0.1) \quad (+0.7\sigma)$
Ω_m	$0.312^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00029}_{-0.00059} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$5.3 \quad (\nu: 1.5) \quad (-0.2\sigma)$
$\Omega_m h^2$	$0.1436^{+0.0056}_{-0.0032} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.827^{+0.054}_{-0.017} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$0.0025^{+0.011}_{-0.0020} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.029}_{-0.0088} \quad (+0.0\sigma)$	χ_{CMB}^2	$11945.3 \quad (\nu: 17.7) \quad (+1525.3\sigma)$
$\Omega_m h^3$	$0.0973^{+0.0052}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.1^{+2.1}_{-1.1} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 1.1) \quad (-0.1\sigma)$
σ_8	$0.792^{+0.033}_{-0.061} \quad (-0.0\sigma)$	$D_M(0.15)$	$639^{+11}_{-18} \quad (-0.1\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 11960.11; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.55; R - 1 = 0.03672$

8.56 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00039}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$H(0.51)$	$90.0^{+2.0}_{-0.81} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1186^{+0.0064}_{-0.010} \quad (+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.024}_{-0.044} \quad (-0.1\sigma)$	$D_M(0.51)$	$1975^{+26}_{-50} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04085^{+0.00076}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.962^{+0.035}_{-0.072} \quad (-0.1\sigma)$	$H(0.61)$	$95.7^{+2.1}_{-0.75} \quad (+0.0\sigma)$
τ	$0.056^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1} \quad (+0.2\sigma)$	$D_M(0.61)$	$2298^{+29}_{-57} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.991 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$H(2.33)$	$237.1^{+4.3}_{-2.2} \quad (-0.1\sigma)$
N_{eff}	$< 3.37 \quad (+0.2\sigma)$	z_{re}	$7.9^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$D_M(2.33)$	$5741^{+41}_{-120} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.047^{+0.040}_{-0.038} \quad (-0.2\sigma)$	$10^9 A_s$	$2.105^{+0.086}_{-0.078} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.020}_{-0.034} \quad (-0.1\sigma)$
n_s	$0.968^{+0.014}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.031}_{-0.030} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.732^{+0.031}_{-0.057} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	D_{40}	$1223^{+31}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.6\sigma)$	D_{220}	$5725^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.051} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2537^{+33}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.018}_{-0.035} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.607^{+0.026}_{-0.048} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+3.9}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.459^{+0.018}_{-0.035} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.9\sigma)$	$n_{s,0.002}$	$0.968^{+0.014}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.578^{+0.025}_{-0.046} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_P	$0.2464^{+0.0034}_{-0.0012} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.291^{+0.013}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P^{BBN}	$0.2477^{+0.0034}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.024} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.609^{+0.091}_{-0.069} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.745^{+0.095}_{-0.28} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-4.9} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_*	$1090.00^{+0.69}_{-0.59} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	r_*	$144.0^{+1.2}_{-2.4} \quad (+0.1\sigma)$	χ_{lensing}^2	$9.4 \quad (\nu: 0.5) \quad (+0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	$1.04100^{+0.00077}_{-0.00094} \quad (-0.2\sigma)$	χ_{simall}^2	$397.3 \quad (\nu: 2.0) \quad (+0.7\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.11}_{-0.22} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.84 \quad (\nu: 0.4) \quad (-0.7\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.88} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11515.6 \quad (\nu: 16.1)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	r_{drag}	$146.7^{+1.3}_{-2.5} \quad (+0.1\sigma)$	χ_{Aver15}^2	$0.55 \quad (\nu: 0.1) \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0021}_{-0.0011} \quad (-0.3\sigma)$	χ_{Cooke17}^2	$0.12 \quad (\nu: 0.0) \quad (-0.3\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	$100\theta_D$	$0.16096^{+0.00078}_{-0.00052} \quad (+0.7\sigma)$	$\chi_{6\text{DF}}^2$	$0.074 \quad (\nu: 0.0) \quad (-0.7\sigma)$
H_0	$67.8^{+2.1}_{-1.2} \quad (+0.1\sigma)$	z_{eq}	$3336^{+85}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.16 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_Λ	$0.688^{+0.016}_{-0.017} \quad (+0.2\sigma)$	k_{eq}	$0.01026^{+0.00028}_{-0.00059} \quad (-0.1\sigma)$	χ_{DR12BAO}^2	$5.3 \quad (\nu: 1.5) \quad (-0.2\sigma)$
Ω_m	$0.312^{+0.017}_{-0.016} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.827^{+0.054}_{-0.017} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1435^{+0.0053}_{-0.0031} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.029}_{-0.0088} \quad (+0.0\sigma)$	χ_{CMB}^2	$11945.2 \quad (\nu: 17.6) \quad (+1526.0\sigma)$
$\Omega_\nu h^2$	$0.0025^{+0.011}_{-0.0020} \quad (-0.1\sigma)$	$H(0.15)$	$73.1^{+2.0}_{-1.1} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 1.0) \quad (-0.2\sigma)$
$\Omega_m h^3$	$0.0973^{+0.0051}_{-0.0020} \quad (-0.0\sigma)$	$D_M(0.15)$	$640^{+11}_{-18} \quad (-0.1\sigma)$	χ_{Abund}^2	$0.67 \quad (\nu: 0.1) \quad (-0.0\sigma)$
σ_8	$0.792^{+0.033}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+2.0}_{-0.90} \quad (+0.1\sigma)$		
S_8	$0.808^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$D_M(0.38)$	$1525^{+22}_{-40} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11960.15; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.43; R - 1 = 0.03562$$

8.57 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00043}_{-0.00039} \quad (-0.6\sigma)$	S_8	$0.810^{+0.037}_{-0.062} \quad (-0.1\sigma)$	$H(0.38)$	$83.4^{+3.0}_{-1.1} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1192^{+0.0082}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.034} \quad (-0.1\sigma)$	$D_M(0.38)$	$1522^{+25}_{-58} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04081^{+0.00079}_{-0.00096} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.593^{+0.025}_{-0.045} \quad (-0.0\sigma)$	$H(0.51)$	$90.2^{+3.1}_{-0.97} \quad (+0.2\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.963^{+0.036}_{-0.072} \quad (-0.0\sigma)$	$D_M(0.51)$	$1971^{+30}_{-73} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.972 \quad (-0.2\sigma)$	$r_{\text{drag}} h$	$99.5^{+2.1}_{-2.2} \quad (+0.2\sigma)$	$H(0.61)$	$95.9^{+3.2}_{-0.92} \quad (+0.2\sigma)$
N_{eff}	$< 3.52 \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$D_M(0.61)$	$2293^{+33}_{-84} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.049^{+0.041}_{-0.033} \quad (-0.2\sigma)$	z_{re}	$< 9.67 \quad (-0.1\sigma)$	$H(2.33)$	$237.5^{+5.5}_{-2.9} \quad (+0.0\sigma)$
n_s	$0.969^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.110^{+0.088}_{-0.068} \quad (-0.2\sigma)$	$D_M(2.33)$	$5730^{+51}_{-180} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.883^{+0.038}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.034} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1222^{+32}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.734^{+0.034}_{-0.058} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.7\sigma)$	D_{220}	$5726^{+99}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.020}_{-0.036} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2538^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.650^{+0.031}_{-0.052} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.035} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.8\sigma)$	D_{2000}	$229.8^{+4.1}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.609^{+0.029}_{-0.049} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.969^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.035} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2468^{+0.0049}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.579^{+0.028}_{-0.047} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2481^{+0.0050}_{-0.0016} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.292^{+0.015}_{-0.024} \quad (+0.1\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.61^{+0.11}_{-0.078} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	$0.301^{+0.015}_{-0.025} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.72^{+0.13}_{-0.35} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	z_*	$1090.04^{+0.81}_{-0.63} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$143.8^{+1.5}_{-3.5} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.04094^{+0.00082}_{-0.0012} \quad (-0.3\sigma)$	χ_{lensing}^2	$9.46 \quad (\nu: 0.5) \quad (+0.5\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.81^{+0.14}_{-0.32} \quad (-0.1\sigma)$	χ_{simall}^2	$397.3 \quad (\nu: 2.1) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1060.2^{+1.5}_{-0.98} \quad (-0.4\sigma)$	χ_{lowl}^2	$22.72 \quad (\nu: 0.4) \quad (-0.3\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.4^{+1.5}_{-3.6} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$11516.0 \quad (\nu: 16.9)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1413^{+0.0027}_{-0.0014} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.071 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$67.9^{+2.9}_{-1.4} \quad (+0.2\sigma)$	$100\theta_D$	$0.1610^{+0.0010}_{-0.00059} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.19 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_Λ	$0.688^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	$3338^{+82}_{-240} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$5.2 \quad (\nu: 1.5) \quad (-0.2\sigma)$
Ω_m	$0.312^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	$0.01028^{+0.00032}_{-0.00061} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1440^{+0.0073}_{-0.0036} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	$0.826^{+0.054}_{-0.016} \quad (-0.0\sigma)$	χ_{CMB}^2	$11945.5 \quad (\nu: 18.3) \quad (+1469.8\sigma)$
$\Omega_\nu h^2$	$0.0024^{+0.0091}_{-0.0022} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.029}_{-0.0085} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 1.0) \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.0979^{+0.0075}_{-0.0025} \quad (+0.1\sigma)$	$H(0.15)$	$73.3^{+2.9}_{-1.2} \quad (+0.2\sigma)$		
σ_8	$0.794^{+0.036}_{-0.063} \quad (+0.0\sigma)$	$D_M(0.15)$	$638^{+12}_{-25} \quad (-0.2\sigma)$		

$\bar{\chi}_{\text{eff}}^2 = 11959.80; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.40; R - 1 = 0.03599$

8.58 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02242^{+0.00043}_{-0.00039} \quad (-0.6\sigma)$	S_8	$0.809^{+0.036}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	$83.5^{+3.0}_{-1.1} \quad (+0.2\sigma)$
$\Omega_c h^2$	$0.1192^{+0.0085}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$D_M(0.38)$	$1520^{+25}_{-58} \quad (-0.2\sigma)$
$100\theta_{MC}$	$1.04082^{+0.00079}_{-0.00098} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.594^{+0.025}_{-0.045} \quad (-0.0\sigma)$	$H(0.51)$	$90.3^{+3.1}_{-0.98} \quad (+0.1\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.964^{+0.035}_{-0.072} \quad (-0.0\sigma)$	$D_M(0.51)$	$1969^{+30}_{-73} \quad (-0.2\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.963 \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.6^{+2.0}_{-2.1} \quad (+0.2\sigma)$	$H(0.61)$	$95.9^{+2.7}_{-1.1} \quad (+0.1\sigma)$
N_{eff}	$< 3.54 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$D_M(0.61)$	$2291^{+33}_{-84} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	$3.050^{+0.041}_{-0.033} \quad (-0.2\sigma)$	z_{re}	$< 9.68 \quad (-0.1\sigma)$	$H(2.33)$	$237.4^{+5.7}_{-2.9} \quad (+0.0\sigma)$
n_s	$0.970^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.111^{+0.087}_{-0.068} \quad (-0.2\sigma)$	$D_M(2.33)$	$5728^{+59}_{-150} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.883^{+0.038}_{-0.031} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.020}_{-0.034} \quad (-0.1\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1221^{+32}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.735^{+0.034}_{-0.059} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5727^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.466^{+0.019}_{-0.036} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2538^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.651^{+0.031}_{-0.053} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.036} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.9\sigma)$	D_{2000}	$229.8^{+4.0}_{-4.5} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.610^{+0.029}_{-0.049} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.970^{+0.017}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.460^{+0.020}_{-0.036} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2468^{+0.0051}_{-0.0016} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.580^{+0.028}_{-0.047} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2481^{+0.0051}_{-0.0016} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.293^{+0.014}_{-0.024} \quad (+0.0\sigma)$
A^{kSZ}	—	10^5D/H	$2.61^{+0.11}_{-0.077} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.015}_{-0.025} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.71^{+0.14}_{-0.36} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	z_*	$1090.02^{+0.82}_{-0.62} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.4^{+5.4}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$143.8^{+1.5}_{-3.6} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.40}$	$100\theta_*$	$1.04094^{+0.00082}_{-0.0012} \quad (-0.3\sigma)$	χ_{lensing}^2	$9.5 \quad (\nu: 0.5) \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.81^{+0.14}_{-0.33} \quad (-0.0\sigma)$	χ_{simall}^2	$397.4 \quad (\nu: 2.2) \quad (+0.8\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.9\sigma)$	z_{drag}	$1060.2^{+1.6}_{-1.0} \quad (-0.4\sigma)$	χ_{lowl}^2	$22.66 \quad (\nu: 0.4) \quad (-0.8\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.4^{+1.6}_{-3.7} \quad (-0.0\sigma)$	χ_{CamSpec}^2	$11516.1 \quad (\nu: 17.0)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1413^{+0.0028}_{-0.0015} \quad (-0.2\sigma)$	χ_{JLA}^2	$1035.11 \quad (\nu: 0.1) \quad (-0.2\sigma)$
H_0	$68.0^{+2.9}_{-1.4} \quad (+0.2\sigma)$	$100\theta_D$	$0.1610^{+0.0010}_{-0.00060} \quad (+0.7\sigma)$	χ_{6DF}^2	$0.059 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_Λ	$0.689^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	$3337^{+79}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.25 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_m	$0.311^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	$0.01028^{+0.00032}_{-0.00060} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$4.9 \quad (\nu: 1.2) \quad (-0.2\sigma)$
$\Omega_m h^2$	$0.1439^{+0.0076}_{-0.0036} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.826^{+0.054}_{-0.016} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_\nu h^2$	$0.0023^{+0.0092}_{-0.0021} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.028}_{-0.0082} \quad (+0.0\sigma)$	χ_{CMB}^2	$11945.7 \quad (\nu: 18.5) \quad (+1488.1\sigma)$
$\Omega_m h^3$	$0.0979^{+0.0077}_{-0.0026} \quad (+0.1\sigma)$	$H(0.15)$	$73.3^{+2.9}_{-1.2} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.8) \quad (-0.1\sigma)$
σ_8	$0.795^{+0.036}_{-0.063} \quad (+0.0\sigma)$	$D_M(0.15)$	$637^{+12}_{-25} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12994.82; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.45; R - 1 = 0.03782$$

8.59 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	S_8	$0.809^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+2.1}_{-0.92} \quad (+0.1\sigma)$
$\Omega_c h^2$	$0.1186^{+0.0066}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$D_M(0.38)$	$1525^{+22}_{-41} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04085^{+0.00076}_{-0.00086} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.024}_{-0.045} \quad (-0.1\sigma)$	$H(0.51)$	$90.0^{+2.1}_{-0.83} \quad (+0.1\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.962^{+0.035}_{-0.072} \quad (-0.1\sigma)$	$D_M(0.51)$	$1975^{+27}_{-51} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.991 \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.5^{+2.1}_{-2.1} \quad (+0.2\sigma)$	$H(0.61)$	$95.7^{+2.2}_{-0.79} \quad (+0.0\sigma)$
N_{eff}	$< 3.39 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.053}_{-0.052} \quad (-0.4\sigma)$	$D_M(0.61)$	$2298^{+30}_{-59} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.048^{+0.040}_{-0.031} \quad (-0.2\sigma)$	z_{re}	$< 9.64 \quad (-0.1\sigma)$	$H(2.33)$	$237.1^{+4.5}_{-2.2} \quad (-0.1\sigma)$
n_s	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	$2.108^{+0.085}_{-0.065} \quad (-0.2\sigma)$	$D_M(2.33)$	$5740^{+42}_{-120} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.020}_{-0.034} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1223^{+31}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.732^{+0.031}_{-0.058} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5726^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2537^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.051} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+11}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.9\sigma)$	D_{2000}	$229.9^{+3.9}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.607^{+0.026}_{-0.048} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.459^{+0.018}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2464^{+0.0035}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.578^{+0.025}_{-0.046} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2477^{+0.0036}_{-0.0012} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.024} \quad (+0.0\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.61^{+0.10}_{-0.072} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.301^{+0.014}_{-0.024} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.743^{+0.097}_{-0.29} \quad (-0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	z_*	$1090.00^{+0.74}_{-0.60} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.3^{+5.0}_{-5.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.0^{+1.2}_{-2.5} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$100\theta_*$	$1.04099^{+0.00078}_{-0.00097} \quad (-0.2\sigma)$	χ_{lensing}^2	$9.41 \quad (\nu: 0.5) \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.83^{+0.12}_{-0.24} \quad (+0.1\sigma)$	χ_{simall}^2	$397.3 \quad (\nu: 2.1) \quad (+0.7\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.93} \quad (-0.5\sigma)$	χ_{lowl}^2	$22.83 \quad (\nu: 0.4) \quad (-0.7\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$146.7^{+1.3}_{-2.6} \quad (+0.1\sigma)$	χ_{CamSpec}^2	$11515.7 \quad (\nu: 16.2)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0022}_{-0.0011} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.57 \quad (\nu: 0.1) \quad (+0.2\sigma)$
H_0	$67.8^{+2.1}_{-1.2} \quad (+0.1\sigma)$	$100\theta_D$	$0.16096^{+0.00085}_{-0.00054} \quad (+0.7\sigma)$	χ_{6DF}^2	$0.072 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_Λ	$0.688^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	$3336^{+85}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.17 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_m	$0.312^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	$0.01026^{+0.00028}_{-0.00059} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$5.2 \quad (\nu: 1.5) \quad (-0.2\sigma)$
$\Omega_m h^2$	$0.1436^{+0.0056}_{-0.0032} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.827^{+0.054}_{-0.017} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$0.0025^{+0.011}_{-0.0020} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.029}_{-0.0088} \quad (+0.0\sigma)$	χ_{CMB}^2	$11945.2 \quad (\nu: 17.6) \quad (+1532.1\sigma)$
$\Omega_m h^3$	$0.0973^{+0.0053}_{-0.0020} \quad (-0.0\sigma)$	$H(0.15)$	$73.1^{+2.1}_{-1.1} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 1.0) \quad (-0.1\sigma)$
σ_8	$0.793^{+0.033}_{-0.062} \quad (-0.0\sigma)$	$D_M(0.15)$	$639^{+11}_{-18} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11960.01; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.54; R - 1 = 0.03614$$

8.60 base_nnu_meffsterile_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00039}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.443^{+0.020}_{-0.033} \quad (-0.1\sigma)$	$H(0.51)$	$90.0^{+2.0}_{-0.82} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1186^{+0.0063}_{-0.010} \quad (+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.592^{+0.024}_{-0.045} \quad (-0.1\sigma)$	$D_M(0.51)$	$1975^{+27}_{-50} \quad (-0.1\sigma)$
$100\theta_{MC}$	$1.04085^{+0.00076}_{-0.00084} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.962^{+0.035}_{-0.072} \quad (-0.1\sigma)$	$H(0.61)$	$95.7^{+2.1}_{-0.76} \quad (+0.0\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.4^{+2.1}_{-2.1} \quad (+0.2\sigma)$	$D_M(0.61)$	$2298^{+29}_{-57} \quad (-0.1\sigma)$
$m_{\nu, \text{sterile}}^{\text{eff}} [\text{eV}]$	$< 0.994 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.053}_{-0.052} \quad (-0.4\sigma)$	$H(2.33)$	$237.1^{+4.3}_{-2.2} \quad (-0.1\sigma)$
N_{eff}	$< 3.37 \quad (+0.2\sigma)$	z_{re}	$< 9.63 \quad (-0.1\sigma)$	$D_M(2.33)$	$5741^{+41}_{-120} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.048^{+0.040}_{-0.031} \quad (-0.2\sigma)$	$10^9 A_s$	$2.107^{+0.085}_{-0.065} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.019}_{-0.034} \quad (-0.1\sigma)$
n_s	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.031}_{-0.030} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.732^{+0.030}_{-0.058} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	D_{40}	$1223^{+31}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.465^{+0.019}_{-0.035} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.6\sigma)$	D_{220}	$5725^{+97}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.649^{+0.028}_{-0.051} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2537^{+33}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.464^{+0.018}_{-0.035} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$816^{+11}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.607^{+0.026}_{-0.048} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+3.9}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.459^{+0.018}_{-0.035} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.9\sigma)$	$n_{s,0.002}$	$0.968^{+0.014}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.578^{+0.025}_{-0.046} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_P	$0.2464^{+0.0034}_{-0.0012} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.024} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P^{BBN}	$0.2477^{+0.0034}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.025} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.609^{+0.091}_{-0.069} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-7} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.744^{+0.096}_{-0.28} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.3^{+5.0}_{-4.9} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_*	$1090.00^{+0.69}_{-0.58} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	r_*	$144.0^{+1.2}_{-2.4} \quad (+0.1\sigma)$	χ_{lensing}^2	$9.40 \quad (\nu: 0.5) \quad (+0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	$1.04100^{+0.00077}_{-0.00094} \quad (-0.2\sigma)$	χ_{simall}^2	$397.3 \quad (\nu: 2.1) \quad (+0.7\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.42}_{-0.40}$	$D_M(z_*)/\text{Gpc}$	$13.84^{+0.11}_{-0.23} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.84 \quad (\nu: 0.4) \quad (-0.7\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0026} \quad (-3.4\sigma)$	z_{drag}	$1060.1^{+1.2}_{-0.92} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11515.6 \quad (\nu: 16.1)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	r_{drag}	$146.7^{+1.3}_{-2.5} \quad (+0.1\sigma)$	χ_{Aver15}^2	$0.56 \quad (\nu: 0.1) \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_D	$0.1411^{+0.0021}_{-0.0011} \quad (-0.3\sigma)$	χ_{Cooke17}^2	$0.12 \quad (\nu: 0.0) \quad (-0.3\sigma)$
c_{EE}	$0.993^{+0.013}_{-0.013}$	$100\theta_D$	$0.16096^{+0.00078}_{-0.00052} \quad (+0.7\sigma)$	χ_{6DF}^2	$0.073 \quad (\nu: 0.0) \quad (-0.7\sigma)$
H_0	$67.8^{+2.0}_{-1.2} \quad (+0.1\sigma)$	z_{eq}	$3336^{+85}_{-240} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.16 \quad (\nu: 0.1) \quad (+0.8\sigma)$
Ω_Λ	$0.688^{+0.016}_{-0.017} \quad (+0.2\sigma)$	k_{eq}	$0.01026^{+0.00028}_{-0.00059} \quad (-0.1\sigma)$	χ_{DR12BAO}^2	$5.3 \quad (\nu: 1.5) \quad (-0.2\sigma)$
Ω_m	$0.312^{+0.017}_{-0.016} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	$0.827^{+0.054}_{-0.017} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1435^{+0.0053}_{-0.0032} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	$0.456^{+0.029}_{-0.0088} \quad (+0.0\sigma)$	χ_{CMB}^2	$11945.1 \quad (\nu: 17.5) \quad (+1532.2\sigma)$
$\Omega_\nu h^2$	$0.0025^{+0.011}_{-0.0020} \quad (-0.1\sigma)$	$H(0.15)$	$73.1^{+2.0}_{-1.1} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 1.0) \quad (-0.2\sigma)$
$\Omega_m h^3$	$0.0973^{+0.0051}_{-0.0020} \quad (-0.0\sigma)$	$D_M(0.15)$	$639^{+11}_{-18} \quad (-0.1\sigma)$	χ_{Abund}^2	$0.67 \quad (\nu: 0.1) \quad (+0.0\sigma)$
σ_8	$0.792^{+0.033}_{-0.062} \quad (-0.0\sigma)$	$H(0.38)$	$83.3^{+2.0}_{-0.91} \quad (+0.1\sigma)$		
S_8	$0.808^{+0.037}_{-0.061} \quad (-0.1\sigma)$	$D_M(0.38)$	$1525^{+22}_{-40} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11960.05; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.42; R - 1 = 0.03510$$

9 nnu+mnu

9.1 base_nnu_mnu_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02201	$0.02193^{+0.00090}_{-0.0010}$	S_8	0.846	$0.836^{+0.068}_{-0.069}$	$100\theta_{s,eq}$	0.4461	$0.446^{+0.018}_{-0.017}$
$\Omega_c h^2$	0.1184	$0.120^{+0.011}_{-0.010}$	$\sigma_8 \Omega_m^{0.5}$	0.4633	$0.458^{+0.037}_{-0.038}$	$H(0.15)$	71.5	$70.1^{+7.5}_{-10}$
$100\theta_{MC}$	1.04105	$1.0408^{+0.0016}_{-0.0015}$	$\sigma_8 \Omega_m^{0.25}$	0.616	$0.597^{+0.044}_{-0.083}$	$D_M(0.15)$	655	672^{+100}_{-70}
τ	0.0504	$0.051^{+0.024}_{-0.023}$	$\sigma_8/h^{0.5}$	1.006	$0.969^{+0.066}_{-0.15}$	$H(0.38)$	81.6	$80.7^{+6.9}_{-8.4}$
Σm_ν [eV]	0.00	< 1.09	$r_{drag} h$	98.5	$95.5^{+8.4}_{-15}$	$D_M(0.38)$	1559	1592^{+300}_{-200}
N_{eff}	2.87	$2.93^{+0.78}_{-0.75}$	$\langle d^2 \rangle^{1/2}$	2.471	$2.46^{+0.13}_{-0.12}$	$H(0.51)$	88.4	$87.7^{+6.6}_{-7.6}$
$\ln(10^{10} A_s)$	3.031	$3.035^{+0.058}_{-0.057}$	z_{re}	7.30	$7.4^{+2.3}_{-2.6}$	$D_M(0.51)$	2018	2056^{+300}_{-200}
n_s	0.9573	$0.956^{+0.036}_{-0.041}$	$10^9 A_s$	2.071	$2.08^{+0.12}_{-0.12}$	$H(0.61)$	94.0	$93.5^{+6.5}_{-7.1}$
y_{cal}	1.0001	$1.0005^{+0.0065}_{-0.0065}$	$10^9 A_s e^{-2\tau}$	1.873	$1.878^{+0.057}_{-0.061}$	$D_M(0.61)$	2347	2388^{+300}_{-200}
A_{217}^{CIB}	46.7	48^{+20}_{-20}	D_{40}	1238	1240^{+62}_{-58}	$H(2.33)$	234.2	$236.5^{+9.8}_{-9.6}$
$\xi^{tSZ \times CIB}$	0.58	—	D_{220}	5704	5710^{+110}_{-110}	$D_M(2.33)$	5839	5869^{+450}_{-360}
A_{143}^{tSZ}	6.9	—	D_{810}	2534.3	2536^{+37}_{-36}	$f\sigma_8(0.15)$	0.4663	$0.460^{+0.034}_{-0.039}$
A_{100}^{PS}	249	263^{+70}_{-70}	D_{1420}	816.0	815^{+13}_{-13}	$\sigma_8(0.15)$	0.755	$0.716^{+0.067}_{-0.17}$
A_{143}^{PS}	50.6	49^{+20}_{-20}	D_{2000}	230.9	$229.6^{+6.1}_{-6.0}$	$f\sigma_8(0.38)$	0.4825	$0.470^{+0.032}_{-0.063}$
$A_{143 \times 217}^{PS}$	51.9	44^{+20}_{-20}	$n_{s,0.002}$	0.9573	$0.956^{+0.036}_{-0.041}$	$\sigma_8(0.38)$	0.668	$0.632^{+0.070}_{-0.15}$
A_{217}^{PS}	121.0	115^{+30}_{-30}	Y_P	0.2429	$0.244^{+0.010}_{-0.011}$	$f\sigma_8(0.51)$	0.480	$0.465^{+0.032}_{-0.074}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.2442	$0.245^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	0.624	$0.590^{+0.061}_{-0.15}$
A_{100}^{dustTT}	8.76	$8.9^{+4.7}_{-4.7}$	$10^5 D/H$	2.594	$2.63^{+0.19}_{-0.18}$	$f\sigma_8(0.61)$	0.474	$0.458^{+0.033}_{-0.081}$
A_{143}^{dustTT}	10.72	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.98	$14.0^{+1.1}_{-0.85}$	$\sigma_8(0.61)$	0.594	$0.561^{+0.059}_{-0.15}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.3^{+8.4}_{-8.5}$	z_*	1090.06	$1090.4^{+1.6}_{-1.4}$	$f\sigma_8(2.33)$	0.298	$0.283^{+0.030}_{-0.072}$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	r_*	146.0	$145.4^{+7.0}_{-6.5}$	$\sigma_8(2.33)$	0.307	$0.290^{+0.034}_{-0.080}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04134	$1.0411^{+0.0020}_{-0.0018}$	f_{2000}^{143}	28.9	31^{+9}_{-9}
c_{217}	0.99824	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.02	$13.96^{+0.65}_{-0.61}$	$f_{2000}^{143 \times 217}$	32.2	34^{+7}_{-7}
H_0	66.2	64^{+8}_{-10}	z_{drag}	1058.83	$1058.8^{+3.0}_{-3.2}$	f_{2000}^{217}	106.5	$108.2^{+6.3}_{-6.2}$
Ω_Λ	0.679	$0.650^{+0.071}_{-0.18}$	r_{drag}	148.8	$148.2^{+7.4}_{-6.8}$	χ_{simall}^2	395.70	$396.9 (\nu: 1.5)$
Ω_m	0.321	$0.350^{+0.18}_{-0.071}$	k_D	0.1395	$0.1399^{+0.0050}_{-0.0050}$	χ_{lowl}^2	24.6	$24.9 (\nu: 3.3)$
$\Omega_m h^2$	0.1404	$0.144^{+0.013}_{-0.011}$	$100\theta_D$	0.16067	$0.1609^{+0.0018}_{-0.0017}$	χ_{plik}^2	757.2	$772.7 (\nu: 18.4)$
$\Omega_\nu h^2$	0.0000	< 0.0105	z_{eq}	3435	3442^{+190}_{-180}	χ_{prior}^2	1.3	$7.3 (\nu: 6.6)$
$\Omega_m h^3$	0.0929	$0.093^{+0.016}_{-0.016}$	k_{eq}	0.010361	$0.01042^{+0.00045}_{-0.00042}$	χ_{CMB}^2	1177.4	$1194.5 (\nu: 18.4)$
σ_8	0.818	$0.778^{+0.069}_{-0.17}$	$100\theta_{eq}$	0.8064	$0.805^{+0.035}_{-0.034}$			

Best-fit $\chi_{eff}^2 = 1178.71$; $\bar{\chi}_{eff}^2 = 1201.83$; $R - 1 = 0.00661$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.70 commander_dx12_v3.2_29: 24.55 plik_rd12_HM_v22_TT: 757.19

9.2 base_nnu_mnu_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02208	$0.02190^{+0.00087}_{-0.00095}$	S_8	0.8336	$0.839^{+0.045}_{-0.044}$	$100\theta_{s,eq}$	0.4479	$0.445^{+0.015}_{-0.016}$
$\Omega_c h^2$	0.1171	$0.119^{+0.011}_{-0.0097}$	$\sigma_8 \Omega_m^{0.5}$	0.4566	$0.460^{+0.024}_{-0.024}$	$H(0.15)$	71.7	$69.8^{+6.8}_{-8.5}$
$100\theta_{MC}$	1.04119	$1.0408^{+0.0016}_{-0.0015}$	$\sigma_8 \Omega_m^{0.25}$	0.6093	$0.599^{+0.029}_{-0.047}$	$D_M(0.15)$	652	674^{+100}_{-70}
τ	0.0507	$0.051^{+0.023}_{-0.022}$	$\sigma_8/h^{0.5}$	0.998	$0.973^{+0.043}_{-0.084}$	$H(0.38)$	81.7	$80.4^{+6.3}_{-7.2}$
Σm_ν [eV]	0.001	< 0.775	$r_{drag} h$	99.2	$95.5^{+7.6}_{-12}$	$D_M(0.38)$	1554	1597^{+200}_{-100}
N_{eff}	2.85	$2.88^{+0.74}_{-0.69}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.47^{+0.11}_{-0.088}$	$H(0.51)$	88.4	$87.4^{+6.1}_{-6.6}$
$\ln(10^{10} A_s)$	3.028	$3.034^{+0.057}_{-0.056}$	z_{re}	7.29	$7.4^{+2.3}_{-2.4}$	$D_M(0.51)$	2013	2062^{+300}_{-200}
n_s	0.9580	$0.954^{+0.034}_{-0.037}$	$10^9 A_s$	2.066	$2.08^{+0.12}_{-0.11}$	$H(0.61)$	94.0	$93.2^{+6.0}_{-6.3}$
y_{cal}	1.0001	$1.0005^{+0.0065}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.866	$1.875^{+0.056}_{-0.059}$	$D_M(0.61)$	2342	2395^{+300}_{-200}
A_{217}^{CIB}	47.1	47^{+20}_{-20}	D_{40}	1236	1245^{+54}_{-52}	$H(2.33)$	233.4	$235.8^{+9.9}_{-9.3}$
$\xi^{tSZ \times CIB}$	0.47	—	D_{220}	5713	5711^{+110}_{-110}	$D_M(2.33)$	5842	5887^{+400}_{-340}
A_{143}^{tSZ}	7.0	—	D_{810}	2532.6	2536^{+37}_{-36}	$f\sigma_8(0.15)$	0.4601	$0.462^{+0.021}_{-0.021}$
A_{100}^{PS}	250	261^{+70}_{-70}	D_{1420}	816.3	815^{+14}_{-13}	$\sigma_8(0.15)$	0.751	$0.718^{+0.060}_{-0.11}$
A_{143}^{PS}	48.0	48^{+20}_{-20}	D_{2000}	231.2	$230.0^{+6.0}_{-5.9}$	$f\sigma_8(0.38)$	0.4775	$0.472^{+0.021}_{-0.034}$
$A_{143 \times 217}^{PS}$	48.4	44^{+20}_{-20}	$n_{s,0.002}$	0.9580	$0.954^{+0.034}_{-0.037}$	$\sigma_8(0.38)$	0.665	$0.633^{+0.058}_{-0.11}$
A_{217}^{PS}	119.5	115^{+30}_{-30}	Y_P	0.2426	$0.243^{+0.010}_{-0.010}$	$f\sigma_8(0.51)$	0.4755	$0.467^{+0.023}_{-0.043}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.2439	$0.244^{+0.010}_{-0.010}$	$\sigma_8(0.51)$	0.622	$0.592^{+0.056}_{-0.10}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.7}$	$10^5 D/H$	2.571	$2.62^{+0.19}_{-0.18}$	$f\sigma_8(0.61)$	0.4702	$0.460^{+0.025}_{-0.049}$
A_{143}^{dustTT}	10.81	$10.7^{+4.7}_{-4.7}$	Age/Gyr	13.99	$14.09^{+0.95}_{-0.80}$	$\sigma_8(0.61)$	0.592	$0.562^{+0.055}_{-0.10}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.2^{+8.4}_{-8.5}$	z_*	1089.83	$1090.3^{+1.5}_{-1.3}$	$f\sigma_8(2.33)$	0.2973	$0.284^{+0.027}_{-0.050}$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	r_*	146.4	$145.8^{+6.6}_{-6.5}$	$\sigma_8(2.33)$	0.3068	$0.291^{+0.031}_{-0.057}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04150	$1.0412^{+0.0019}_{-0.0018}$	f_{2000}^{143}	28.6	31^{+9}_{-9}
c_{217}	0.99824	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.06	$14.01^{+0.61}_{-0.60}$	$f_{2000}^{143 \times 217}$	31.9	33^{+7}_{-7}
H_0	66.4	64^{+7}_{-9}	z_{drag}	1058.90	$1058.7^{+2.9}_{-3.0}$	f_{2000}^{217}	106.4	$107.8^{+6.3}_{-6.3}$
Ω_Λ	0.685	$0.651^{+0.064}_{-0.14}$	r_{drag}	149.2	$148.7^{+7.0}_{-6.7}$	$\chi^2_{lensing}$	8.74	$9.2 (\nu: 0.6)$
Ω_m	0.315	$0.349^{+0.14}_{-0.064}$	k_D	0.13919	$0.1395^{+0.0049}_{-0.0047}$	χ^2_{small}	395.68	$396.9 (\nu: 1.4)$
$\Omega_m h^2$	0.1392	$0.143^{+0.013}_{-0.011}$	$100\theta_D$	0.16054	$0.1608^{+0.0017}_{-0.0017}$	χ^2_{lowl}	24.3	$25.3 (\nu: 3.0)$
$\Omega_\nu h^2$	0.00001	< 0.00752	z_{eq}	3416	3450^{+190}_{-160}	χ^2_{plik}	757.7	$771.6 (\nu: 15.5)$
$\Omega_m h^3$	0.0925	$0.092^{+0.015}_{-0.014}$	k_{eq}	0.010286	$0.01041^{+0.00045}_{-0.00038}$	χ^2_{prior}	1.4	$7.3 (\nu: 6.6)$
σ_8	0.813	$0.780^{+0.060}_{-0.11}$	$100\theta_{eq}$	0.8101	$0.804^{+0.031}_{-0.033}$	χ^2_{CMB}	1186.4	$1203.1 (\nu: 17.3)$

Best-fit $\chi^2_{eff} = 1187.75$; $\bar{\chi}^2_{eff} = 1210.35$; $R - 1 = 0.00978$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.74 small_100x143_offlike5_EE_Aplanck_B: 395.68 commander_dx12_v3.2_29: 24.31 plik_rd12_HM.v22.TT: 757.67

9.3 base_nnu_mnu_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02224	$0.02222^{+0.00057}_{-0.00059}$	$\Omega_{\mathrm{m}}h^2$	0.1394	$0.1416^{+0.0092}_{-0.0079}$	k_{eq}	0.010299	$0.01035^{+0.00033}_{-0.00030}$
$\Omega_{\mathrm{c}}h^2$	0.1171	$0.1183^{+0.0082}_{-0.0074}$	$\Omega_{\nu}h^2$	0.00000	< 0.00482	$100\theta_{\mathrm{eq}}$	0.8100	$0.809^{+0.018}_{-0.017}$
$100\theta_{\mathrm{MC}}$	1.04128	$1.0411^{+0.0011}_{-0.0011}$	$\Omega_{\mathrm{m}}h^3$	0.0928	$0.0934^{+0.011}_{-0.0096}$	$100\theta_{\mathrm{s,eq}}$	0.4477	$0.4475^{+0.0092}_{-0.0088}$
τ	0.0540	$0.054^{+0.022}_{-0.020}$	σ_8	0.817	$0.799^{+0.043}_{-0.10}$	$H(0.15)$	71.87	$71.3^{+4.2}_{-5.3}$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.000	< 0.479	S_8	0.8355	$0.832^{+0.043}_{-0.047}$	$D_{\mathrm{M}}(0.15)$	650.5	657^{+58}_{-39}
N_{eff}	2.852	$2.91^{+0.51}_{-0.47}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4576	$0.456^{+0.023}_{-0.026}$	$H(0.38)$	81.91	$81.6^{+4.1}_{-4.6}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0369	$3.038^{+0.049}_{-0.047}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6113	$0.603^{+0.028}_{-0.052}$	$D_{\mathrm{M}}(0.38)$	1551	1562^{+120}_{-86}
n_{s}	0.9593	$0.959^{+0.022}_{-0.022}$	$\sigma_8/h^{0.5}$	1.001	$0.983^{+0.041}_{-0.090}$	$H(0.51)$	88.57	$88.4^{+4.1}_{-4.3}$
y_{cal}	1.0006	$1.0006^{+0.0065}_{-0.0064}$	$r_{\mathrm{drag}}h$	99.3	$97.9^{+4.2}_{-7.4}$	$D_{\mathrm{M}}(0.51)$	2009	2022^{+150}_{-110}
A_{217}^{CIB}	43.8	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.463	$2.454^{+0.079}_{-0.079}$	$H(0.61)$	94.15	$94.1^{+4.1}_{-4.1}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.88	—	z_{re}	7.60	$7.6^{+2.1}_{-2.2}$	$D_{\mathrm{M}}(0.61)$	2337	2351^{+160}_{-120}
A_{143}^{tSZ}	6.91	> 0.982	$10^9 A_{\mathrm{s}}$	2.084	$2.09^{+0.10}_{-0.096}$	$H(2.33)$	233.6	$235.0^{+7.3}_{-6.7}$
A_{100}^{PS}	244	256^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8708	$1.874^{+0.045}_{-0.047}$	$D_{\mathrm{M}}(2.33)$	5833	5835^{+250}_{-230}
A_{143}^{PS}	50.8	45^{+20}_{-20}	D_{40}	1238.0	1239^{+41}_{-40}	$f\sigma_8(0.15)$	0.4613	$0.459^{+0.022}_{-0.026}$
$A_{143 \times 217}^{\mathrm{PS}}$	56.5	42^{+20}_{-20}	D_{220}	5733	5732^{+100}_{-98}	$\sigma_8(0.15)$	0.754	$0.737^{+0.041}_{-0.097}$
A_{217}^{PS}	123.6	115^{+30}_{-30}	D_{810}	2539.2	2538^{+36}_{-36}	$f\sigma_8(0.38)$	0.4790	$0.474^{+0.021}_{-0.036}$
A^{kSZ}	0.0	—	D_{1420}	819.6	818^{+13}_{-13}	$\sigma_8(0.38)$	0.668	$0.652^{+0.038}_{-0.091}$
$A_{100}^{\mathrm{dust}TT}$	8.70	$8.9^{+4.7}_{-4.8}$	D_{2000}	232.57	$231.5^{+4.8}_{-4.9}$	$f\sigma_8(0.51)$	0.4772	$0.472^{+0.021}_{-0.041}$
$A_{143}^{\mathrm{dust}TT}$	10.91	$10.8^{+4.6}_{-4.6}$	$n_{\mathrm{s},0.002}$	0.9593	$0.959^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.625	$0.609^{+0.036}_{-0.087}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	20.1	$18.5^{+8.4}_{-8.5}$	Y_{P}	0.2427	$0.2434^{+0.0070}_{-0.0068}$	$f\sigma_8(0.61)$	0.4719	$0.466^{+0.021}_{-0.044}$
$A_{217}^{\mathrm{dust}TT}$	95.9	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2440	$0.2447^{+0.0071}_{-0.0068}$	$\sigma_8(0.61)$	0.595	$0.580^{+0.035}_{-0.084}$
$A_{100}^{\mathrm{dust}TE}$	0.113	$0.115^{+0.098}_{-0.095}$	$10^5 \mathrm{D}/\mathrm{H}$	2.542	$2.56^{+0.12}_{-0.11}$	$f\sigma_8(2.33)$	0.2987	$0.292^{+0.017}_{-0.040}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	0.135	$0.135^{+0.075}_{-0.076}$	Age/Gyr	13.96	$13.97^{+0.59}_{-0.55}$	$\sigma_8(2.33)$	0.3083	$0.300^{+0.019}_{-0.045}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.63	$1089.82^{+0.97}_{-0.90}$	f_{2000}^{143}	27.0	29^{+8}_{-8}
$A_{143}^{\mathrm{dust}TE}$	0.226	$0.22^{+0.14}_{-0.14}$	r_*	146.28	$145.7^{+4.7}_{-4.8}$	$f_{2000}^{143 \times 217}$	30.7	32^{+6}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TE}$	0.665	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	1.04157	$1.0414^{+0.0014}_{-0.0014}$	f_{2000}^{217}	105.4	$106.5^{+5.2}_{-5.0}$
$A_{217}^{\mathrm{dust}TE}$	2.07	$2.09^{+0.69}_{-0.69}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.044	$13.99^{+0.44}_{-0.45}$	χ_{simall}^2	396.02	$397.1 (\nu: 1.7)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.28	$1059.4^{+2.0}_{-2.1}$	χ_{lowl}^2	24.29	$24.4 (\nu: 1.1)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	149.01	$148.4^{+4.9}_{-5.0}$	χ_{plik}^2	2342.0	$2360.0 (\nu: 20.3)$
H_0	66.6	$66.0^{+4.3}_{-5.9}$	k_{D}	0.13952	$0.1399^{+0.0037}_{-0.0035}$	χ_{prior}^2	1.4	$11.6 (\nu: 10.0)$
Ω_{Λ}	0.686	$0.674^{+0.034}_{-0.070}$	$100\theta_{\mathrm{D}}$	0.16033	$0.1605^{+0.0011}_{-0.0010}$	χ_{CMB}^2	2762.3	$2781.4 (\nu: 20.2)$
Ω_{m}	0.314	$0.326^{+0.070}_{-0.034}$	z_{eq}	3419	3423^{+94}_{-95}			

Best-fit $\chi_{\mathrm{eff}}^2 = 2763.73$; $\bar{\chi}_{\mathrm{eff}}^2 = 2792.98$; $R - 1 = 0.00589$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.02 commander_dx12_v3.2.29: 24.29 plik_rd12_HM_v22b_TTTEE: 2341.98

9.4 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02224	$0.02221^{+0.00056}_{-0.00058}$	$\Omega_{\text{m}}h^2$	0.1386	$0.1411^{+0.0091}_{-0.0077}$	k_{eq}	0.010263	$0.01033^{+0.00030}_{-0.00028}$
$\Omega_{\text{c}}h^2$	0.1163	$0.1179^{+0.0079}_{-0.0072}$	$\Omega_{\nu}h^2$	0.00000	< 0.00400	$100\theta_{\text{eq}}$	0.8107	$0.809^{+0.017}_{-0.017}$
$100\theta_{\text{MC}}$	1.04134	$1.0412^{+0.0011}_{-0.0011}$	$\Omega_{\text{m}}h^3$	0.0922	$0.0930^{+0.010}_{-0.0095}$	$100\theta_{\text{s,eq}}$	0.4481	$0.4474^{+0.0086}_{-0.0087}$
τ	0.0528	$0.054^{+0.021}_{-0.020}$	σ_8	0.813	$0.798^{+0.037}_{-0.068}$	$H(0.15)$	71.76	$71.2^{+4.1}_{-4.6}$
$\Sigma m_{\nu} [\text{eV}]$	0.000	< 0.393	S_8	0.8303	$0.831^{+0.033}_{-0.033}$	$D_{\text{M}}(0.15)$	651.4	658^{+49}_{-38}
N_{eff}	2.820	$2.88^{+0.50}_{-0.47}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4548	$0.455^{+0.018}_{-0.018}$	$H(0.38)$	81.76	$81.5^{+4.0}_{-4.2}$
$\ln(10^{10}A_{\text{s}})$	3.0318	$3.037^{+0.045}_{-0.045}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.6080	$0.603^{+0.022}_{-0.031}$	$D_{\text{M}}(0.38)$	1553	1565^{+100}_{-84}
n_{s}	0.9587	$0.958^{+0.022}_{-0.022}$	$\sigma_8/h^{0.5}$	0.9965	$0.983^{+0.031}_{-0.054}$	$H(0.51)$	88.40	$88.3^{+3.9}_{-4.0}$
y_{cal}	1.0004	$1.0006^{+0.0067}_{-0.0063}$	$r_{\text{drag}}h$	99.4	$97.9^{+4.0}_{-6.3}$	$D_{\text{M}}(0.51)$	2012	2025^{+130}_{-100}
A_{217}^{CIB}	43.8	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.456	$2.454^{+0.062}_{-0.062}$	$H(0.61)$	93.95	$93.9^{+3.9}_{-3.9}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.92	—	z_{re}	7.46	$7.6^{+2.0}_{-2.1}$	$D_{\text{M}}(0.61)$	2341	2354^{+140}_{-120}
A_{143}^{tSZ}	7.00	> 0.998	$10^9 A_{\text{s}}$	2.073	$2.084^{+0.096}_{-0.091}$	$H(2.33)$	232.9	$234.6^{+7.2}_{-6.5}$
A_{100}^{PS}	243	255^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8658	$1.872^{+0.044}_{-0.045}$	$D_{\text{M}}(2.33)$	5846	5845^{+240}_{-230}
A_{143}^{PS}	51.1	45^{+20}_{-20}	D_{40}	1237.0	1240^{+40}_{-38}	$f\sigma_8(0.15)$	0.4585	$0.459^{+0.017}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	57.4	42^{+20}_{-20}	D_{220}	5731	5734^{+100}_{-98}	$\sigma_8(0.15)$	0.751	$0.736^{+0.036}_{-0.066}$
A_{217}^{PS}	123.5	115^{+30}_{-30}	D_{810}	2537.0	2538^{+37}_{-35}	$f\sigma_8(0.38)$	0.4763	$0.474^{+0.016}_{-0.021}$
A^{kSZ}	0.0	—	D_{1420}	819.4	818^{+13}_{-12}	$\sigma_8(0.38)$	0.6652	$0.651^{+0.035}_{-0.063}$
A_{100}^{dustTT}	8.72	$8.8^{+4.8}_{-4.8}$	D_{2000}	232.61	$231.6^{+4.7}_{-4.7}$	$f\sigma_8(0.51)$	0.4747	$0.471^{+0.016}_{-0.025}$
A_{143}^{dustTT}	10.93	$10.8^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9587	$0.958^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.6223	$0.609^{+0.033}_{-0.060}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.5^{+8.3}_{-8.5}$	Y_{P}	0.2423	$0.2431^{+0.0069}_{-0.0069}$	$f\sigma_8(0.61)$	0.4695	$0.465^{+0.017}_{-0.028}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2436	$0.2444^{+0.0069}_{-0.0069}$	$\sigma_8(0.61)$	0.5920	$0.579^{+0.032}_{-0.059}$
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.094}$	10^5D/H	2.532	$2.56^{+0.12}_{-0.11}$	$f\sigma_8(2.33)$	0.2975	$0.292^{+0.016}_{-0.028}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.074}_{-0.075}$	Age/Gyr	13.99	$13.99^{+0.56}_{-0.53}$	$\sigma_8(2.33)$	0.3071	$0.300^{+0.018}_{-0.032}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.21}_{-0.22}$	z_*	1089.54	$1089.77^{+0.95}_{-0.85}$	f_{2000}^{143}	26.9	29^{+8}_{-8}
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	r_*	146.67	$146.0^{+4.7}_{-4.7}$	$f_{2000}^{143 \times 217}$	30.7	31^{+6}_{-5}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.20}$	$100\theta_*$	1.04166	$1.0415^{+0.0014}_{-0.0014}$	f_{2000}^{217}	105.2	$106.4^{+5.2}_{-5.0}$
A_{217}^{dustTE}	2.07	$2.09^{+0.69}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.080	$14.02^{+0.44}_{-0.43}$	χ_{lensing}^2	8.66	$9.09 (\nu: 0.3)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.17	$1059.3^{+2.0}_{-2.1}$	χ_{simall}^2	395.84	$397.0 (\nu: 1.5)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	149.40	$148.7^{+4.9}_{-4.8}$	χ_{lowl}^2	24.25	$24.5 (\nu: 1.1)$
H_0	66.54	$65.9^{+4.2}_{-5.0}$	k_{D}	0.13923	$0.1397^{+0.0036}_{-0.0034}$	χ_{plik}^2	2342.4	$2359.4 (\nu: 18.1)$
Ω_{Λ}	0.6870	$0.674^{+0.032}_{-0.058}$	$100\theta_{\text{D}}$	0.16026	$0.1605^{+0.0011}_{-0.0010}$	χ_{prior}^2	1.4	$11.5 (\nu: 9.8)$
Ω_{m}	0.3130	$0.326^{+0.058}_{-0.032}$	z_{eq}	3415	3423^{+92}_{-88}	χ_{CMB}^2	2771.2	$2790.0 (\nu: 19.4)$

Best-fit $\chi_{\text{eff}}^2 = 2772.59$; $\bar{\chi}_{\text{eff}}^2 = 2801.54$; $R - 1 = 0.00830$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.66 simall_100x143_offlike5_EE_Aplanck_B: 395.84 commander_dx12_v3.2.29: 24.25 plik_rd12_HM_v22b_TTTEEE: 2342.41

9.5 base_nnu_mnu_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02206	$0.02190^{+0.00091}_{-0.0011} \quad (-0.1\sigma)$	σ_8	0.820	$0.776^{+0.073}_{-0.15} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	0.8085	$0.804^{+0.035}_{-0.034} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.1191	$0.119^{+0.011}_{-0.0095} \quad (-0.2\sigma)$	S_8	0.843	$0.835^{+0.065}_{-0.069} \quad (-0.0\sigma)$	$100\theta_{\text{s,eq}}$	0.4471	$0.445^{+0.018}_{-0.017} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	1.04106	$1.0409^{+0.0016}_{-0.0016} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4619	$0.457^{+0.035}_{-0.038} \quad (-0.0\sigma)$	$H(0.15)$	72.0	$69.8^{+7.5}_{-9.8} \quad (-0.1\sigma)$
τ	0.0516	$0.051^{+0.022}_{-0.022} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.615	$0.596^{+0.042}_{-0.078} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	650	$675^{+100}_{-70} \quad (+0.1\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.00	$< 1.02 \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	1.004	$0.969^{+0.065}_{-0.14} \quad (-0.0\sigma)$	$H(0.38)$	82.1	$80.3^{+6.9}_{-8.3} \quad (-0.1\sigma)$
N_{eff}	2.93	$2.88^{+0.79}_{-0.72} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	98.8	$95.4^{+8.2}_{-14} \quad (-0.0\sigma)$	$D_{\text{M}}(0.38)$	1548	$1599^{+200}_{-200} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.033	$3.030^{+0.056}_{-0.057} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.466	$2.46^{+0.13}_{-0.12} \quad (-0.0\sigma)$	$H(0.51)$	88.8	$87.3^{+6.7}_{-7.6} \quad (-0.1\sigma)$
n_{s}	0.9589	$0.954^{+0.037}_{-0.040} \quad (-0.1\sigma)$	z_{re}	7.43	$7.4^{+2.2}_{-2.5} \quad (-0.0\sigma)$	$D_{\text{M}}(0.51)$	2005	$2065^{+300}_{-200} \quad (+0.1\sigma)$
y_{cal}	0.99999	$1.0004^{+0.0064}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\text{s}}$	2.077	$2.07^{+0.12}_{-0.12} \quad (-0.2\sigma)$	$H(0.61)$	94.5	$93.1^{+6.5}_{-7.1} \quad (-0.1\sigma)$
A_{100}^{PS}	238	$241^{+70}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.873	$1.871^{+0.058}_{-0.061} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2332	$2398^{+300}_{-200} \quad (+0.1\sigma)$
A_{143}^{PS}	39	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	1236	$1240^{+59}_{-57} \quad (-0.0\sigma)$	$H(2.33)$	234.9	$235.7^{+9.8}_{-9.0} \quad (-0.2\sigma)$
A_{217}^{PS}	100.4	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	5701	$5700^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	5811	$5892^{+460}_{-370} \quad (+0.1\sigma)$
A_{217}^{CIB}	43.8	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2530.1	$2532^{+37}_{-38} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4652	$0.460^{+0.033}_{-0.038} \quad (-0.0\sigma)$
A_{143}^{tSZ}	5.44	$< 8.78 \quad (-0.7\sigma)$	D_{1420}	813.7	$815^{+14}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	0.757	$0.714^{+0.071}_{-0.15} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.593	$0.65^{+0.31}_{-0.33}$	D_{2000}	230.0	$229.9^{+6.0}_{-6.1} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	0.4822	$0.470^{+0.031}_{-0.059} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.72	—	$n_{\text{s},0.002}$	0.9589	$0.954^{+0.037}_{-0.040} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	0.670	$0.630^{+0.063}_{-0.15} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.13	—	Y_{P}	0.2438	$0.243^{+0.011}_{-0.011} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	0.480	$0.464^{+0.032}_{-0.068} \quad (-0.0\sigma)$
A^{kSZ}	1.9	—	$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.244^{+0.011}_{-0.011} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	0.626	$0.588^{+0.065}_{-0.13} \quad (-0.0\sigma)$
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.51}$	10^5D/H	2.605	$2.61^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.474	$0.457^{+0.032}_{-0.074} \quad (-0.0\sigma)$
A_{143}^{dust}	0.978	$0.97^{+0.46}_{-0.45}$	Age/Gyr	13.91	$14.1^{+1.1}_{-0.87} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	0.596	$0.559^{+0.059}_{-0.14} \quad (-0.0\sigma)$
A_{217}^{dust}	0.957	$0.97^{+0.27}_{-0.26}$	z_*	1090.12	$1090.3^{+1.5}_{-1.3} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2992	$0.282^{+0.029}_{-0.067} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	0.996	$1.03^{+0.42}_{-0.41}$	r_*	145.5	$145.9^{+6.7}_{-6.7} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.309	$0.289^{+0.034}_{-0.074} \quad (-0.0\sigma)$
c_{100}	0.99751	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04130	$1.0413^{+0.0019}_{-0.0018} \quad (+0.2\sigma)$	f_{2000}^{143}	30.3	$30^{+10}_{-9} \quad (-0.2\sigma)$
c_{217}	1.00118	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.97	$14.01^{+0.63}_{-0.63} \quad (+0.2\sigma)$	f_{2000}^{217}	106.9	$107.3^{+6.5}_{-6.5} \quad (-0.4\sigma)$
H_0	66.7	$64^{+8}_{-10} \quad (-0.1\sigma)$	z_{drag}	1059.06	$1058.6^{+3.1}_{-3.3} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.3	$33^{+7}_{-7} \quad (-0.4\sigma)$
Ω_{Λ}	0.682	$0.649^{+0.076}_{-0.15} \quad (-0.0\sigma)$	r_{drag}	148.3	$148.8^{+7.1}_{-7.0} \quad (+0.2\sigma)$	χ_{small}^2	395.79	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
Ω_{m}	0.318	$0.351^{+0.15}_{-0.076} \quad (+0.0\sigma)$	k_{D}	0.13982	$0.1395^{+0.0051}_{-0.0048} \quad (-0.2\sigma)$	χ_{lowl}^2	24.3	$25.0 \quad (\nu: 3.3) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^2$	0.1411	$0.143^{+0.013}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{\text{D}}$	0.16082	$0.1608^{+0.0017}_{-0.0017} \quad (-0.2\sigma)$	χ_{CamSpec}^2	7048.9	$7064.2 \quad (\nu: 18.1)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00971 \quad (-0.0\sigma)$	z_{eq}	3424	$3447^{+200}_{-180} \quad (+0.1\sigma)$	χ_{prior}^2	2.1	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_{\text{m}} h^3$	0.0941	$0.092^{+0.016}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	0.010371	$0.01040^{+0.00044}_{-0.00040} \quad (-0.1\sigma)$	χ_{CMB}^2	7469.0	$7486.0 \quad (\nu: 18.0) \quad (+1038.1\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 7471.08$; $\Delta\chi_{\text{eff}}^2 = 6292.36$; $\bar{\chi}_{\text{eff}}^2 = 7493.68$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.85$; $R - 1 = 0.00504$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.79 (Δ 0.09) commander_dx12_v3.2.29: 24.32 (Δ -0.23) CamSpec like_10.7HM: 7048.88

9.6 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02204	$0.02187^{+0.00089}_{-0.0010} \quad (-0.1\sigma)$	S_8	0.8351	$0.840^{+0.045}_{-0.045} \quad (+0.1\sigma)$	$H(0.15)$	71.8	$69.5^{+7.0}_{-8.3} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.1176	$0.118^{+0.011}_{-0.0092} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4574	$0.460^{+0.024}_{-0.024} \quad (+0.1\sigma)$	$D_M(0.15)$	651	$677^{+100}_{-70} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04112	$1.0410^{+0.0016}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6103	$0.599^{+0.029}_{-0.045} \quad (+0.0\sigma)$	$H(0.38)$	81.9	$80.0^{+6.5}_{-7.1} \quad (-0.1\sigma)$
τ	0.0506	$0.051^{+0.022}_{-0.021} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	0.998	$0.975^{+0.043}_{-0.081} \quad (+0.1\sigma)$	$D_M(0.38)$	1552	$1605^{+200}_{-100} \quad (+0.1\sigma)$
Σm_ν [eV]	0.002	$< 0.773 \quad (-0.0\sigma)$	$r_{\text{drag}} h$	99.1	$95.4^{+7.4}_{-12} \quad (-0.0\sigma)$	$H(0.51)$	88.6	$87.0^{+6.4}_{-6.5} \quad (-0.2\sigma)$
N_{eff}	2.88	$2.82^{+0.75}_{-0.68} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.457	$2.47^{+0.11}_{-0.091} \quad (+0.1\sigma)$	$D_M(0.51)$	2010	$2073^{+200}_{-200} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.028	$3.030^{+0.054}_{-0.055} \quad (-0.2\sigma)$	z_{re}	7.30	$7.4^{+2.1}_{-2.4} \quad (-0.0\sigma)$	$H(0.61)$	94.1	$92.8^{+6.3}_{-6.2} \quad (-0.2\sigma)$
n_s	0.9579	$0.952^{+0.034}_{-0.037} \quad (-0.1\sigma)$	$10^9 A_s$	2.066	$2.07^{+0.12}_{-0.11} \quad (-0.2\sigma)$	$D_M(0.61)$	2339	$2407^{+300}_{-200} \quad (+0.1\sigma)$
y_{cal}	1.0002	$1.0004^{+0.0064}_{-0.0066} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.867	$1.869^{+0.057}_{-0.058} \quad (-0.3\sigma)$	$H(2.33)$	233.8	$234.9^{+9.6}_{-8.5} \quad (-0.2\sigma)$
A_{100}^{PS}	237	$240^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	1236	$1245^{+54}_{-51} \quad (+0.0\sigma)$	$D_M(2.33)$	5833	$5912^{+400}_{-360} \quad (+0.2\sigma)$
A_{143}^{PS}	38	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5706	$5700^{+110}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4609	$0.462^{+0.021}_{-0.022} \quad (+0.0\sigma)$
A_{217}^{PS}	100.5	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2529.6	$2532^{+37}_{-37} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.752	$0.717^{+0.060}_{-0.11} \quad (-0.0\sigma)$
A_{217}^{CIB}	43.8	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	814.3	$815^{+14}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	0.4782	$0.472^{+0.021}_{-0.033} \quad (+0.0\sigma)$
A_{143}^{tSZ}	5.73	$< 8.81 \quad (-0.7\sigma)$	D_{2000}	230.3	$230.3^{+5.9}_{-5.8} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	0.666	$0.633^{+0.058}_{-0.11} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.594	$0.66^{+0.32}_{-0.34}$	$n_{s,0.002}$	0.9579	$0.952^{+0.034}_{-0.037} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	0.4763	$0.467^{+0.023}_{-0.041} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.70	—	Y_P	0.2430	$0.242^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	0.623	$0.591^{+0.056}_{-0.10} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.08	—	Y_P^{BBN}	0.2443	$0.243^{+0.010}_{-0.010} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4709	$0.459^{+0.024}_{-0.047} \quad (-0.0\sigma)$
A^{kSZ}	1.4	—	10^5D/H	2.589	$2.60^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.592	$0.561^{+0.054}_{-0.098} \quad (-0.0\sigma)$
A_{100}^{dust}	1.01	$1.00^{+0.50}_{-0.50}$	Age/Gyr	13.96	$14.15^{+0.95}_{-0.85} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	0.2976	$0.283^{+0.027}_{-0.049} \quad (-0.0\sigma)$
A_{143}^{dust}	0.970	$0.97^{+0.46}_{-0.46}$	z_*	1089.96	$1090.2^{+1.5}_{-1.3} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	0.3071	$0.290^{+0.031}_{-0.055} \quad (-0.0\sigma)$
A_{217}^{dust}	0.962	$0.97^{+0.27}_{-0.27}$	r_*	146.2	$146.4^{+6.4}_{-6.5} \quad (+0.2\sigma)$	f_{2000}^{143}	29.9	$30^{+9}_{-9} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.011	$1.03^{+0.41}_{-0.40}$	$100\theta_*$	1.04142	$1.0414^{+0.0019}_{-0.0019} \quad (+0.2\sigma)$	f_{2000}^{217}	106.6	$106.9^{+6.5}_{-6.4} \quad (-0.4\sigma)$
c_{100}	0.99757	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	14.03	$14.06^{+0.60}_{-0.60} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.0	$32^{+7}_{-7} \quad (-0.4\sigma)$
c_{217}	1.00119	$1.0011^{+0.0039}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	1058.87	$1058.5^{+3.0}_{-3.2} \quad (-0.2\sigma)$	χ^2_{lensing}	8.77	$9.2 \quad (\nu: 0.6) \quad (-0.0\sigma)$
H_0	66.5	$64^{+7}_{-9} \quad (-0.1\sigma)$	r_{drag}	149.0	$149.3^{+6.7}_{-6.8} \quad (+0.2\sigma)$	χ^2_{small}	395.68	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
Ω_Λ	0.684	$0.649^{+0.063}_{-0.14} \quad (-0.0\sigma)$	k_D	0.13931	$0.1391^{+0.0050}_{-0.0045} \quad (-0.2\sigma)$	χ^2_{lowl}	24.3	$25.4 \quad (\nu: 3.1) \quad (+0.1\sigma)$
Ω_m	0.316	$0.351^{+0.14}_{-0.063} \quad (+0.0\sigma)$	$100\theta_D$	0.16068	$0.1606^{+0.0017}_{-0.0016} \quad (-0.2\sigma)$	χ^2_{CamSpec}	7049.2	$7063.1 \quad (\nu: 15.5)$
$\Omega_m h^2$	0.1397	$0.142^{+0.013}_{-0.010} \quad (-0.2\sigma)$	z_{eq}	3415	$3459^{+190}_{-160} \quad (+0.1\sigma)$	χ^2_{prior}	2.0	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
$\Omega_\nu h^2$	0.00002	$< 0.00714 \quad (-0.1\sigma)$	k_{eq}	0.010304	$0.01039^{+0.00043}_{-0.00037} \quad (-0.1\sigma)$	χ^2_{CMB}	7477.9	$7494.7 \quad (\nu: 17.9) \quad (+1069.3\sigma)$
$\Omega_m h^3$	0.0930	$0.091^{+0.015}_{-0.014} \quad (-0.2\sigma)$	$100\theta_{\text{eq}}$	0.8102	$0.802^{+0.031}_{-0.033} \quad (-0.1\sigma)$			
σ_8	0.814	$0.780^{+0.060}_{-0.11} \quad (-0.0\sigma)$	$100\theta_{s,\text{eq}}$	0.4480	$0.444^{+0.016}_{-0.017} \quad (-0.1\sigma)$			

Best-fit $\chi^2_{\text{eff}} = 7479.93$; $\Delta\chi^2_{\text{eff}} = 6292.18$; $\bar{\chi}^2_{\text{eff}} = 7502.27$; $\Delta\bar{\chi}^2_{\text{eff}} = 6291.92$; $R - 1 = 0.00874$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 (Δ 0.03) small_100x143_offlike5_EE_Aplanck_B: 395.68 (Δ 0.00) commander_dx12_v3.2_29: 24.30 (Δ -0.01) CamSpec like_10.7HM: 7049.15

9.7 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}} h^2$	0.02221	$0.02216^{+0.00063}_{-0.00061} \quad (-0.3\sigma)$	$\Omega_{\text{m}} h^3$	0.0934	$0.093^{+0.012}_{-0.011} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8125	$0.811^{+0.020}_{-0.020} \quad (+0.3\sigma)$
$\Omega_{\text{c}} h^2$	0.1173	$0.1178^{+0.0093}_{-0.0082} \quad (-0.2\sigma)$	σ_8	0.815	$0.789^{+0.050}_{-0.11} \quad (-0.4\sigma)$	$100\theta_{\text{s,eq}}$	0.4491	$0.4485^{+0.0099}_{-0.010} \quad (+0.3\sigma)$
$100\theta_{\text{MC}}$	1.04115	$1.0411^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	S_8	0.8299	$0.823^{+0.047}_{-0.049} \quad (-0.5\sigma)$	$H(0.15)$	72.2	$71.2^{+4.9}_{-5.8} \quad (-0.1\sigma)$
τ	0.0522	$0.052^{+0.022}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4546	$0.451^{+0.026}_{-0.027} \quad (-0.5\sigma)$	$D_{\text{M}}(0.15)$	647	$659^{+64}_{-46} \quad (+0.1\sigma)$
$\Sigma m_{\nu} [\text{eV}]$	0.001	$< 0.587 \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6086	$0.596^{+0.032}_{-0.055} \quad (-0.5\sigma)$	$H(0.38)$	82.20	$81.4^{+4.7}_{-5.1} \quad (-0.1\sigma)$
N_{eff}	2.89	$2.90^{+0.62}_{-0.55} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	0.996	$0.972^{+0.047}_{-0.094} \quad (-0.5\sigma)$	$D_{\text{M}}(0.38)$	1544	$1567^{+130}_{-100} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.032	$3.032^{+0.052}_{-0.051} \quad (-0.3\sigma)$	$r_{\text{drag}} h$	99.6	$97.8^{+4.7}_{-8.2} \quad (-0.1\sigma)$	$H(0.51)$	88.85	$88.2^{+4.7}_{-4.8} \quad (-0.1\sigma)$
n_{s}	0.9615	$0.960^{+0.025}_{-0.025} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.448	$2.437^{+0.084}_{-0.082} \quad (-0.5\sigma)$	$D_{\text{M}}(0.51)$	2000	$2027^{+160}_{-130} \quad (+0.1\sigma)$
y_{cal}	1.0005	$1.0005^{+0.0066}_{-0.0067} \quad (-0.1\sigma)$	z_{re}	7.43	$7.4^{+2.2}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	94.42	$93.9^{+4.7}_{-4.6} \quad (-0.1\sigma)$
A_{100}^{PS}	227	$237^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\text{s}}$	2.074	$2.07^{+0.11}_{-0.10} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2328	$2357^{+180}_{-140} \quad (+0.1\sigma)$
A_{143}^{PS}	44.4	$38^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.868	$1.868^{+0.051}_{-0.051} \quad (-0.3\sigma)$	$H(2.33)$	233.8	$234.8^{+8.5}_{-7.7} \quad (-0.1\sigma)$
A_{217}^{PS}	105.7	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1230.8	$1233^{+42}_{-42} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	5818	$5846^{+280}_{-270} \quad (+0.1\sigma)$
A_{217}^{CIB}	41.2	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5717	$5717^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4584	$0.455^{+0.024}_{-0.027} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.46	$< 8.83 \quad (-0.8\sigma)$	D_{810}	2534.3	$2533^{+37}_{-37} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.753	$0.727^{+0.047}_{-0.10} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.695	$0.66^{+0.31}_{-0.34}$	D_{1420}	817.4	$817^{+13}_{-14} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4767	$0.469^{+0.024}_{-0.038} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.82	—	D_{2000}	231.6	$230.9^{+5.3}_{-5.6} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.667	$0.643^{+0.044}_{-0.096} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.58	—	$n_{\text{s},0.002}$	0.9615	$0.960^{+0.025}_{-0.025} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4753	$0.466^{+0.024}_{-0.044} \quad (-0.5\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.2433	$0.2433^{+0.0083}_{-0.0079} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	0.624	$0.602^{+0.042}_{-0.092} \quad (-0.4\sigma)$
A_{100}^{dust}	1.00	$1.01^{+0.52}_{-0.51}$	$Y_{\text{P}}^{\text{BBN}}$	0.2446	$0.2446^{+0.0083}_{-0.0080} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	0.4702	$0.460^{+0.024}_{-0.047} \quad (-0.5\sigma)$
A_{143}^{dust}	0.970	$0.96^{+0.45}_{-0.45}$	10^5D/H	2.563	$2.57^{+0.15}_{-0.14} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.594	$0.572^{+0.041}_{-0.089} \quad (-0.4\sigma)$
A_{217}^{dust}	0.984	$0.98^{+0.27}_{-0.27}$	Age/Gyr	13.93	$13.99^{+0.67}_{-0.63} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2985	$0.289^{+0.020}_{-0.042} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.005	$1.02^{+0.41}_{-0.42}$	z_*	1089.73	$1089.9^{+1.2}_{-1.0} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3082	$0.297^{+0.023}_{-0.048} \quad (-0.3\sigma)$
c_{100}	0.99775	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	r_*	146.0	$145.9^{+5.4}_{-5.6} \quad (+0.1\sigma)$	f_{2000}^{143}	28.4	$29^{+9}_{-8} \quad (+0.1\sigma)$
c_{217}	1.00114	$1.0010^{+0.0042}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_*$	1.04142	$1.0414^{+0.0016}_{-0.0016} \quad (-0.0\sigma)$	f_{2000}^{217}	105.6	$106.3^{+6.0}_{-5.9} \quad (-0.1\sigma)$
c_{TE}	0.9954	$0.996^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.02	$14.01^{+0.50}_{-0.52} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	30.8	$31^{+7}_{-6} \quad (-0.0\sigma)$
c_{EE}	0.9902	$0.990^{+0.015}_{-0.015}$	z_{drag}	1059.25	$1059.2^{+2.3}_{-2.2} \quad (-0.2\sigma)$	χ_{simall}^2	395.79	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	67.0	$65.8^{+5.1}_{-6.4} \quad (-0.1\sigma)$	r_{drag}	148.8	$148.7^{+5.6}_{-5.8} \quad (+0.1\sigma)$	χ_{lowl}^2	23.66	$23.9 \quad (\nu: 1.2) \quad (-0.3\sigma)$
Ω_{Λ}	0.689	$0.672^{+0.038}_{-0.079} \quad (-0.1\sigma)$	k_{D}	0.13956	$0.1396^{+0.0042}_{-0.0039} \quad (-0.2\sigma)$	χ_{CamSpec}^2	11498.0	$11515.4 \quad (\nu: 18.9)$
Ω_{m}	0.311	$0.328^{+0.079}_{-0.038} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	0.16052	$0.1606^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	χ_{prior}^2	2.0	$8.0 \quad (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^2$	0.1395	$0.141^{+0.010}_{-0.0089} \quad (-0.1\sigma)$	z_{eq}	3404	$3411^{+110}_{-100} \quad (-0.3\sigma)$	χ_{CMB}^2	11917.5	$11936.2 \quad (\nu: 19.2) \quad (+1442.0\sigma)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00594 \quad (+0.3\sigma)$	k_{eq}	0.010283	$0.01031^{+0.00035}_{-0.00032} \quad (-0.3\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11919.53$; $\Delta\chi_{\text{eff}}^2 = 9155.80$; $\bar{\chi}_{\text{eff}}^2 = 11944.15$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9151.17$; $R - 1 = 0.00883$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.79 (Δ -0.22) commander_dx12.v3.2.29: 23.66 (Δ -0.62) CamSpec like_10.7HM_1400.unified: 11498.05

9.8 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02215^{+0.00060}_{-0.00058} \quad (-0.3\sigma)$	$\Omega_m h^3$	0.0921	$0.093^{+0.012}_{-0.010} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8111	$0.810^{+0.019}_{-0.019} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.1163	$0.1175^{+0.0089}_{-0.0080} \quad (-0.1\sigma)$	σ_8	0.811	$0.795^{+0.039}_{-0.068} \quad (-0.2\sigma)$	$100\theta_{\text{s,eq}}$	0.4484	$0.4479^{+0.0094}_{-0.0099} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	1.04128	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	S_8	0.8283	$0.828^{+0.034}_{-0.033} \quad (-0.3\sigma)$	$H(0.15)$	71.73	$71.1^{+4.5}_{-5.0} \quad (-0.1\sigma)$
τ	0.0509	$0.053^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4537	$0.453^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\text{M}}(0.15)$	651.8	$659^{+54}_{-42} \quad (+0.1\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.000	$< 0.416 \quad (+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6065	$0.600^{+0.023}_{-0.031} \quad (-0.2\sigma)$	$H(0.38)$	81.72	$81.4^{+4.4}_{-4.6} \quad (-0.1\sigma)$
N_{eff}	2.82	$2.87^{+0.59}_{-0.53} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9942	$0.980^{+0.032}_{-0.055} \quad (-0.2\sigma)$	$D_{\text{M}}(0.38)$	1554	$1567^{+110}_{-93} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0266	$3.034^{+0.050}_{-0.047} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	99.4	$98.0^{+4.2}_{-6.8} \quad (+0.0\sigma)$	$H(0.51)$	88.36	$88.1^{+4.4}_{-4.3} \quad (-0.1\sigma)$
n_s	0.9585	$0.958^{+0.024}_{-0.023} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.450	$2.447^{+0.068}_{-0.066} \quad (-0.3\sigma)$	$D_{\text{M}}(0.51)$	2013	$2028^{+140}_{-110} \quad (+0.1\sigma)$
y_{cal}	1.0005	$1.0006^{+0.0066}_{-0.0068} \quad (-0.0\sigma)$	z_{re}	7.28	$7.5^{+2.1}_{-2.2} \quad (-0.0\sigma)$	$H(0.61)$	93.91	$93.8^{+4.4}_{-4.1} \quad (-0.1\sigma)$
A_{100}^{PS}	227	$236^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_s$	2.063	$2.08^{+0.11}_{-0.095} \quad (-0.2\sigma)$	$D_{\text{M}}(0.61)$	2342	$2358^{+150}_{-130} \quad (+0.1\sigma)$
A_{143}^{PS}	45.0	$37^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_s e^{-2\tau}$	1.863	$1.868^{+0.049}_{-0.050} \quad (-0.3\sigma)$	$H(2.33)$	232.9	$234.3^{+8.2}_{-7.5} \quad (-0.1\sigma)$
A_{217}^{PS}	105.5	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1234.8	$1237^{+40}_{-40} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	5848	$5854^{+260}_{-250} \quad (+0.1\sigma)$
A_{217}^{CIB}	41.1	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5720	$5719^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4574	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.43	$< 8.75 \quad (-0.8\sigma)$	D_{810}	2532.9	$2534^{+37}_{-38} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.749	$0.733^{+0.039}_{-0.067} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.713	$0.67^{+0.31}_{-0.34}$	D_{1420}	817.6	$817^{+13}_{-14} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4752	$0.472^{+0.017}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.83	—	D_{2000}	231.9	$231.2^{+5.5}_{-5.6} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.663	$0.649^{+0.037}_{-0.065} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.66	—	$n_{\text{s},0.002}$	0.9585	$0.958^{+0.024}_{-0.023} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	0.4735	$0.469^{+0.017}_{-0.024} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	Y_{P}	0.2423	$0.2429^{+0.0079}_{-0.0078} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6207	$0.607^{+0.036}_{-0.062} \quad (-0.1\sigma)$
A_{100}^{dust}	1.01	$1.00^{+0.53}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	0.2436	$0.2442^{+0.0079}_{-0.0078} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	0.4683	$0.463^{+0.018}_{-0.027} \quad (-0.2\sigma)$
A_{143}^{dust}	0.977	$0.95^{+0.45}_{-0.47}$	10^5D/H	2.546	$2.57^{+0.15}_{-0.14} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	0.5905	$0.577^{+0.035}_{-0.060} \quad (-0.1\sigma)$
A_{217}^{dust}	0.982	$0.98^{+0.27}_{-0.26}$	Age/Gyr	14.00	$14.01^{+0.60}_{-0.59} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2967	$0.291^{+0.017}_{-0.028} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.005	$1.02^{+0.41}_{-0.43}$	z_*	1089.63	$1089.8^{+1.1}_{-1.0} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3063	$0.299^{+0.020}_{-0.033} \quad (-0.1\sigma)$
c_{100}	0.99776	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	r_*	146.7	$146.2^{+5.3}_{-5.3} \quad (+0.1\sigma)$	f_{2000}^{143}	28.1	$28^{+9}_{-8} \quad (-0.0\sigma)$
c_{217}	1.00115	$1.0010^{+0.0042}_{-0.0040} \quad (+4.5\sigma)$	$100\theta_*$	1.04160	$1.0415^{+0.0016}_{-0.0016} \quad (-0.0\sigma)$	f_{2000}^{217}	105.4	$106.0^{+6.1}_{-5.7} \quad (-0.2\sigma)$
c_{TE}	0.9951	$0.996^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.085	$14.04^{+0.49}_{-0.50} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	30.6	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{EE}	0.9894	$0.990^{+0.014}_{-0.015}$	z_{drag}	1059.02	$1059.1^{+2.2}_{-2.2} \quad (-0.2\sigma)$	χ_{lensing}^2	8.57	$9.19 \quad (\nu: 0.4) \quad (+0.1\sigma)$
H_0	66.5	$65.8^{+4.6}_{-5.3} \quad (-0.1\sigma)$	r_{drag}	149.5	$149.0^{+5.5}_{-5.6} \quad (+0.1\sigma)$	χ_{small}^2	395.68	$397.0 \quad (\nu: 1.5) \quad (-0.0\sigma)$
Ω_Λ	0.6869	$0.674^{+0.034}_{-0.064} \quad (-0.0\sigma)$	k_{D}	0.13909	$0.1395^{+0.0040}_{-0.0038} \quad (-0.2\sigma)$	χ_{lowl}^2	24.10	$24.2 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{m}	0.3131	$0.326^{+0.064}_{-0.034} \quad (+0.0\sigma)$	$100\theta_{\text{D}}$	0.16036	$0.1605^{+0.0013}_{-0.0013} \quad (+0.1\sigma)$	χ_{CamSpec}^2	11497.8	$11514.2 \quad (\nu: 16.6)$
$\Omega_{\text{m}} h^2$	0.1385	$0.141^{+0.010}_{-0.0086} \quad (-0.1\sigma)$	z_{eq}	3412	$3417^{+100}_{-97} \quad (-0.2\sigma)$	χ_{prior}^2	2.1	$8.0 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00000	$< 0.00418 \quad (+0.1\sigma)$	k_{eq}	0.010255	$0.01030^{+0.00033}_{-0.00031} \quad (-0.2\sigma)$	χ_{CMB}^2	11926.1	$11944.6 \quad (\nu: 18.9) \quad (+1469.4\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11928.16$; $\Delta\chi_{\text{eff}}^2 = 9155.56$; $\bar{\chi}_{\text{eff}}^2 = 11952.59$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9151.05$; $R - 1 = 0.01252$

χ_{eff}^2 : CMB - smicadx12.Dec5.ftl.mv2.ndclpp.p.teb.consext8: 8.57 (Δ -0.09) small.100x143.offlike5.EE.Aplanck.B: 395.68 (Δ -0.16) commander.dx12.v3.2.29: 24.10 (Δ -0.15) CamSpec like.10.7HM.1400.unified: 11497.75

9.9 base_nnu_mnu_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02226^{+0.00061}_{-0.00062}$	$\sigma_8 \Omega_m^{0.5}$	0.4562	$0.451^{+0.025}_{-0.028}$	$D_M(0.15)$	639.9	636^{+35}_{-33}
$\Omega_c h^2$	0.1194	$0.120^{+0.010}_{-0.010}$	$\sigma_8 \Omega_m^{0.25}$	0.6122	$0.605^{+0.030}_{-0.037}$	$H(0.38)$	83.07	$83.6^{+4.0}_{-3.9}$
$100\theta_{MC}$	1.04094	$1.0408^{+0.0015}_{-0.0014}$	$\sigma_8/h^{0.5}$	0.9980	$0.983^{+0.040}_{-0.058}$	$D_M(0.38)$	1527	1519^{+79}_{-75}
τ	0.0529	$0.054^{+0.023}_{-0.021}$	$r_{drag} h$	99.99	$99.96^{+2.8}_{-2.7}$	$H(0.51)$	89.75	$90.3^{+4.1}_{-4.1}$
Σm_ν [eV]	0.001	< 0.242	$\langle d^2 \rangle^{1/2}$	2.446	$2.425^{+0.081}_{-0.090}$	$D_M(0.51)$	1978	1968^{+100}_{-95}
N_{eff}	3.03	$3.14^{+0.62}_{-0.60}$	z_{re}	7.56	$7.6^{+2.2}_{-2.3}$	$H(0.61)$	95.34	$95.9^{+4.2}_{-4.2}$
$\ln(10^{10} A_s)$	3.040	$3.043^{+0.055}_{-0.053}$	$10^9 A_s$	2.090	$2.10^{+0.12}_{-0.11}$	$D_M(0.61)$	2303	2290^{+120}_{-110}
n_s	0.9653	$0.969^{+0.023}_{-0.023}$	$10^9 A_s e^{-2\tau}$	1.880	$1.884^{+0.054}_{-0.057}$	$H(2.33)$	235.6	$237.0^{+8.9}_{-8.9}$
y_{cal}	1.0005	$1.0006^{+0.0064}_{-0.0063}$	D_{40}	1227.9	1223^{+40}_{-41}	$D_M(2.33)$	5763	5730^{+250}_{-230}
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{220}	5716	5719^{+100}_{-100}	$f\sigma_8(0.15)$	0.4603	$0.456^{+0.024}_{-0.026}$
$\xi^{tSZ \times CIB}$	0.19	—	D_{810}	2536.7	2537^{+37}_{-36}	$\sigma_8(0.15)$	0.7594	$0.750^{+0.038}_{-0.048}$
A_{143}^{tSZ}	7.2	—	D_{1420}	815.7	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4795	$0.475^{+0.023}_{-0.027}$
A_{100}^{PS}	254	265^{+70}_{-70}	D_{2000}	230.2	$229.4^{+5.7}_{-5.7}$	$\sigma_8(0.38)$	0.6733	$0.665^{+0.034}_{-0.043}$
A_{143}^{PS}	46.9	50^{+20}_{-20}	$n_{s,0.002}$	0.9653	$0.969^{+0.023}_{-0.023}$	$f\sigma_8(0.51)$	0.4783	$0.474^{+0.023}_{-0.027}$
$A_{143 \times 217}^{PS}$	43.2	44^{+20}_{-20}	Y_P	0.2452	$0.2465^{+0.0080}_{-0.0084}$	$\sigma_8(0.51)$	0.6301	$0.623^{+0.033}_{-0.040}$
A_{217}^{PS}	118.1	115^{+30}_{-30}	Y_P^{BBN}	0.2465	$0.2479^{+0.0081}_{-0.0085}$	$f\sigma_8(0.61)$	0.4735	$0.469^{+0.022}_{-0.027}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.618	$2.64^{+0.18}_{-0.17}$	$\sigma_8(0.61)$	0.5996	$0.593^{+0.031}_{-0.038}$
A_{100}^{dustTT}	8.92	$9.0^{+4.7}_{-4.6}$	Age/Gyr	13.80	$13.72^{+0.60}_{-0.56}$	$f\sigma_8(2.33)$	0.3015	$0.299^{+0.015}_{-0.018}$
A_{143}^{dustTT}	10.74	$10.8^{+4.6}_{-4.6}$	z_*	1090.09	$1090.2^{+1.3}_{-1.3}$	$\sigma_8(2.33)$	0.3114	$0.308^{+0.017}_{-0.020}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.3^{+8.4}_{-8.5}$	r_*	144.8	$144.0^{+6.0}_{-5.5}$	f_{2000}^{143}	30.2	32^{+9}_{-9}
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$100\theta_*$	1.04113	$1.0410^{+0.0018}_{-0.0017}$	$f_{2000}^{143 \times 217}$	33.0	34^{+6}_{-6}
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.91	$13.83^{+0.56}_{-0.52}$	f_{2000}^{217}	107.6	$108.4^{+5.8}_{-5.9}$
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.44	$1059.8^{+2.3}_{-2.3}$	χ_{small}^2	395.86	$397.1 (\nu: 1.7)$
H_0	67.78	$68.2^{+3.9}_{-3.7}$	r_{drag}	147.5	$146.7^{+6.2}_{-5.7}$	χ_{lowl}^2	23.31	$22.8 (\nu: 0.8)$
Ω_Λ	0.6917	$0.691^{+0.021}_{-0.022}$	k_D	0.14030	$0.1409^{+0.0043}_{-0.0044}$	χ_{plik}^2	758.4	$773.3 (\nu: 17.5)$
Ω_m	0.3083	$0.309^{+0.022}_{-0.021}$	$100\theta_D$	0.16100	$0.1612^{+0.0015}_{-0.0015}$	χ_{6DF}^2	0.010	$0.057 (\nu: 0.0)$
$\Omega_m h^2$	0.1416	$0.143^{+0.011}_{-0.010}$	z_{eq}	3389	3368^{+84}_{-94}	χ_{MGS}^2	1.41	$1.47 (\nu: 0.2)$
$\Omega_\nu h^2$	0.00002	< 0.00260	k_{eq}	0.010336	$0.01034^{+0.00039}_{-0.00039}$	$\chi_{DR12BAO}^2$	3.91	$4.6 (\nu: 1.3)$
$\Omega_m h^3$	0.0960	$0.098^{+0.012}_{-0.011}$	$100\theta_{eq}$	0.8150	$0.819^{+0.018}_{-0.015}$	χ_{prior}^2	1.5	$7.4 (\nu: 6.8)$
σ_8	0.8216	$0.812^{+0.041}_{-0.052}$	$100\theta_{s,eq}$	0.4504	$0.4525^{+0.0093}_{-0.0079}$	χ_{BAO}^2	5.32	$6.2 (\nu: 0.9)$
S_8	0.8329	$0.823^{+0.046}_{-0.051}$	$H(0.15)$	73.02	$73.4^{+3.9}_{-3.7}$	χ_{CMB}^2	1177.6	$1193.2 (\nu: 16.7)$

Best-fit $\chi_{eff}^2 = 1184.40$; $\bar{\chi}_{eff}^2 = 1206.70$; $R - 1 = 0.00673$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.91 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2.29: 23.31 plik_rd12_HM_v22.TT: 758.38

9.10 base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02227^{+0.00060}_{-0.00061}$	$\sigma_8 \Omega_m^{0.25}$	0.6119	$0.605^{+0.030}_{-0.036}$	$D_M(0.38)$	1524	1516^{+76}_{-73}
$\Omega_c h^2$	0.1195	$0.121^{+0.010}_{-0.0099}$	$\sigma_8/h^{0.5}$	0.9973	$0.983^{+0.039}_{-0.056}$	$H(0.51)$	89.87	$90.4^{+4.0}_{-4.0}$
$100\theta_{MC}$	1.04097	$1.0408^{+0.0015}_{-0.0014}$	$r_{drag}h$	100.11	$100.1^{+2.6}_{-2.5}$	$D_M(0.51)$	1975	1964^{+98}_{-92}
τ	0.0530	$0.054^{+0.023}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.423^{+0.080}_{-0.089}$	$H(0.61)$	95.46	$96.0^{+4.1}_{-4.1}$
Σm_ν [eV]	0.002	< 0.237	z_{re}	7.57	$7.7^{+2.2}_{-2.4}$	$D_M(0.61)$	2299	2286^{+110}_{-110}
N_{eff}	3.05	$3.15^{+0.61}_{-0.61}$	$10^9 A_s$	2.091	$2.10^{+0.12}_{-0.11}$	$H(2.33)$	235.8	$237.2^{+8.9}_{-8.9}$
$\ln(10^{10} A_s)$	3.040	$3.044^{+0.055}_{-0.053}$	$10^9 A_s e^{-2\tau}$	1.881	$1.885^{+0.054}_{-0.056}$	$D_M(2.33)$	5756	5724^{+250}_{-230}
n_s	0.9661	$0.970^{+0.022}_{-0.022}$	D_{40}	1226.8	1222^{+40}_{-40}	$f\sigma_8(0.15)$	0.4598	$0.455^{+0.024}_{-0.026}$
y_{cal}	1.0004	$1.0006^{+0.0063}_{-0.0062}$	D_{220}	5717	5719^{+100}_{-100}	$\sigma_8(0.15)$	0.7597	$0.751^{+0.038}_{-0.047}$
A_{217}^{CIB}	48.8	48^{+20}_{-20}	D_{810}	2537.1	2537^{+36}_{-36}	$f\sigma_8(0.38)$	0.4792	$0.475^{+0.023}_{-0.026}$
$\xi^{tSZ \times CIB}$	0.31	—	D_{1420}	815.8	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6737	$0.666^{+0.034}_{-0.042}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.2	$229.3^{+5.7}_{-5.8}$	$f\sigma_8(0.51)$	0.4782	$0.474^{+0.022}_{-0.026}$
A_{100}^{PS}	254	265^{+70}_{-70}	$n_{s,0.002}$	0.9661	$0.970^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.6306	$0.624^{+0.032}_{-0.039}$
A_{143}^{PS}	49.0	50^{+20}_{-20}	Y_P	0.2453	$0.2467^{+0.0079}_{-0.0084}$	$f\sigma_8(0.61)$	0.4734	$0.469^{+0.022}_{-0.026}$
$A_{143 \times 217}^{PS}$	46.5	44^{+20}_{-20}	Y_P^{BBN}	0.2467	$0.2481^{+0.0079}_{-0.0084}$	$\sigma_8(0.61)$	0.6000	$0.594^{+0.031}_{-0.037}$
A_{217}^{PS}	119.0	115^{+30}_{-30}	$10^5 D/H$	2.616	$2.64^{+0.18}_{-0.17}$	$f\sigma_8(2.33)$	0.3017	$0.300^{+0.015}_{-0.017}$
A^{kSZ}	0.0	—	Age/Gyr	13.78	$13.70^{+0.59}_{-0.55}$	$\sigma_8(2.33)$	0.3117	$0.309^{+0.016}_{-0.019}$
A_{100}^{dustTT}	8.87	$9.0^{+4.7}_{-4.7}$	z_*	1090.08	$1090.2^{+1.3}_{-1.3}$	f_{2000}^{143}	30.2	32^{+9}_{-9}
A_{143}^{dustTT}	10.81	$10.8^{+4.5}_{-4.7}$	r_*	144.7	$143.9^{+6.0}_{-5.5}$	$f_{2000}^{143 \times 217}$	33.1	34^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.3}_{-8.4}$	$100\theta_*$	1.04113	$1.0410^{+0.0019}_{-0.0017}$	f_{2000}^{217}	107.6	$108.5^{+5.8}_{-5.9}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.90	$13.82^{+0.55}_{-0.51}$	χ_{small}^2	395.88	$397.1 (\nu: 1.7)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.8^{+2.2}_{-2.2}$	χ_{lowl}^2	23.21	$22.7 (\nu: 0.7)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.4	$146.6^{+6.2}_{-5.7}$	χ_{plik}^2	758.6	$773.4 (\nu: 17.4)$
H_0	67.91	$68.3^{+3.7}_{-3.5}$	k_D	0.14041	$0.1410^{+0.0043}_{-0.0043}$	χ_{JLA}^2	1034.88	$1035.01 (\nu: 0.1)$
Ω_Λ	0.6927	$0.692^{+0.020}_{-0.020}$	$100\theta_D$	0.16101	$0.1613^{+0.0015}_{-0.0015}$	χ_{6DF}^2	0.006	$0.047 (\nu: 0.0)$
Ω_m	0.3073	$0.308^{+0.020}_{-0.020}$	z_{eq}	3387	3365^{+80}_{-91}	χ_{MGS}^2	1.47	$1.55 (\nu: 0.2)$
$\Omega_m h^2$	0.1417	$0.143^{+0.011}_{-0.010}$	k_{eq}	0.010336	$0.01034^{+0.00039}_{-0.00039}$	$\chi_{DR12BAO}^2$	3.78	$4.4 (\nu: 0.9)$
$\Omega_\nu h^2$	0.00002	< 0.00253	$100\theta_{eq}$	0.8156	$0.820^{+0.018}_{-0.015}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
$\Omega_m h^3$	0.0963	$0.098^{+0.012}_{-0.012}$	$100\theta_{s,eq}$	0.4507	$0.4529^{+0.0089}_{-0.0076}$	χ_{BAO}^2	5.26	$6.0 (\nu: 0.6)$
σ_8	0.8219	$0.812^{+0.040}_{-0.050}$	$H(0.15)$	73.15	$73.6^{+3.8}_{-3.6}$	χ_{CMB}^2	1177.7	$1193.2 (\nu: 16.6)$
S_8	0.8318	$0.822^{+0.045}_{-0.050}$	$D_M(0.15)$	638.7	635^{+33}_{-32}			
$\sigma_8 \Omega_m^{0.5}$	0.4556	$0.450^{+0.025}_{-0.027}$	$H(0.38)$	83.19	$83.7^{+3.9}_{-3.8}$			

Best-fit $\chi_{eff}^2 = 2219.27$; $\bar{\chi}_{eff}^2 = 2241.49$; $R - 1 = 0.00842$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.78 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3.2.29: 23.21 plik_rd12_HM_v22.TT: 758.62
SN - JLA Pantheon18: 1034.88

9.11 base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02221^{+0.00056}_{-0.00057}$	$\sigma_8 \Omega_m^{0.25}$	0.6093	$0.604^{+0.028}_{-0.035}$	$D_M(0.38)$	1531	1528^{+63}_{-61}
$\Omega_c h^2$	0.1183	$0.1192^{+0.0083}_{-0.0080}$	$\sigma_8/h^{0.5}$	0.9952	$0.983^{+0.039}_{-0.055}$	$H(0.51)$	89.46	$89.7^{+3.2}_{-3.1}$
$100\theta_{MC}$	1.04110	$1.0410^{+0.0014}_{-0.0013}$	$r_{drag}h$	100.10	$99.8^{+2.7}_{-2.5}$	$D_M(0.51)$	1984	1980^{+79}_{-77}
τ	0.0530	$0.053^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.428^{+0.079}_{-0.089}$	$H(0.61)$	95.02	$95.3^{+3.3}_{-3.2}$
Σm_ν [eV]	0.002	< 0.226	z_{re}	7.55	$7.6^{+2.1}_{-2.4}$	$D_M(0.61)$	2310	2304^{+91}_{-88}
N_{eff}	2.981	$3.06^{+0.48}_{-0.46}$	$10^9 A_s$	2.083	$2.09^{+0.11}_{-0.10}$	$H(2.33)$	234.7	$235.9^{+7.1}_{-7.0}$
$\ln(10^{10} A_s)$	3.036	$3.039^{+0.050}_{-0.050}$	$10^9 A_s e^{-2\tau}$	1.8734	$1.878^{+0.046}_{-0.048}$	$D_M(2.33)$	5783	5763^{+190}_{-190}
n_s	0.9646	$0.967^{+0.019}_{-0.019}$	D_{40}	1226.6	1226^{+38}_{-38}	$f\sigma_8(0.15)$	0.4579	$0.455^{+0.023}_{-0.026}$
y_{cal}	1.0001	$1.0006^{+0.0063}_{-0.0062}$	D_{220}	5711	5720^{+100}_{-100}	$\sigma_8(0.15)$	0.7563	$0.748^{+0.033}_{-0.046}$
A_{217}^{CIB}	48.0	48^{+20}_{-20}	D_{810}	2534.3	2536^{+36}_{-36}	$f\sigma_8(0.38)$	0.4771	$0.474^{+0.022}_{-0.026}$
$\xi^{tSZ \times CIB}$	0.38	—	D_{1420}	815.9	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6706	$0.663^{+0.030}_{-0.041}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.5	$229.9^{+5.3}_{-5.1}$	$f\sigma_8(0.51)$	0.4761	$0.472^{+0.021}_{-0.025}$
A_{100}^{PS}	253	263^{+70}_{-70}	$n_{s,0.002}$	0.9646	$0.967^{+0.019}_{-0.019}$	$\sigma_8(0.51)$	0.6276	$0.620^{+0.028}_{-0.038}$
A_{143}^{PS}	48.8	49^{+20}_{-20}	Y_P	0.2444	$0.2454^{+0.0063}_{-0.0065}$	$f\sigma_8(0.61)$	0.4714	$0.468^{+0.020}_{-0.025}$
$A_{143 \times 217}^{PS}$	47.3	43^{+20}_{-20}	Y_P^{BBN}	0.2458	$0.2468^{+0.0064}_{-0.0065}$	$\sigma_8(0.61)$	0.5973	$0.590^{+0.027}_{-0.036}$
A_{217}^{PS}	119.3	115^{+30}_{-30}	$10^5 D/H$	2.601	$2.62^{+0.15}_{-0.15}$	$f\sigma_8(2.33)$	0.3003	$0.298^{+0.013}_{-0.017}$
A^{kSZ}	0.0	—	Age/Gyr	13.845	$13.80^{+0.46}_{-0.45}$	$\sigma_8(2.33)$	0.3102	$0.307^{+0.014}_{-0.019}$
A_{100}^{dustTT}	8.87	$9.0^{+4.7}_{-4.7}$	z_*	1089.95	$1090.1^{+1.1}_{-1.1}$	f_{2000}^{143}	29.6	31^{+8}_{-8}
A_{143}^{dustTT}	10.77	$10.7^{+4.5}_{-4.7}$	r_*	145.36	$144.8^{+4.6}_{-4.4}$	$f_{2000}^{143 \times 217}$	32.6	33^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.3}_{-8.3}$	$100\theta_*$	1.04131	$1.0412^{+0.0016}_{-0.0015}$	f_{2000}^{217}	107.1	$108.0^{+5.5}_{-5.5}$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.959	$13.90^{+0.43}_{-0.41}$	χ_{small}^2	395.85	$397.0 (\nu: 1.6)$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.28	$1059.5^{+1.9}_{-1.9}$	χ_{lowl}^2	23.32	$23.1 (\nu: 0.7)$
c_{217}	0.99825	$0.9983^{+0.0017}_{-0.0016}$	r_{drag}	148.10	$147.5^{+4.8}_{-4.6}$	χ_{plik}^2	758.7	$772.5 (\nu: 16.4)$
H_0	67.59	$67.7^{+3.1}_{-2.9}$	k_D	0.13990	$0.1403^{+0.0035}_{-0.0034}$	χ_{Aver15}^2	0.05	$0.60 (\nu: 0.3)$
Ω_Λ	0.6924	$0.690^{+0.020}_{-0.021}$	$100\theta_D$	0.16087	$0.1611^{+0.0013}_{-0.0012}$	χ_{6DF}^2	0.006	$0.061 (\nu: 0.0)$
Ω_m	0.3076	$0.310^{+0.021}_{-0.020}$	z_{eq}	3387	3374^{+80}_{-88}	χ_{MGS}^2	1.47	$1.39 (\nu: 0.2)$
$\Omega_m h^2$	0.1405	$0.1420^{+0.0085}_{-0.0083}$	k_{eq}	0.010291	$0.01030^{+0.00034}_{-0.00034}$	$\chi_{DR12BAO}^2$	3.76	$4.8 (\nu: 1.4)$
$\Omega_\nu h^2$	0.00002	< 0.00242	$100\theta_{eq}$	0.8155	$0.818^{+0.017}_{-0.015}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
$\Omega_m h^3$	0.0950	$0.0962^{+0.0094}_{-0.0088}$	$100\theta_{s,eq}$	0.4507	$0.4520^{+0.0085}_{-0.0076}$	χ_{BAO}^2	5.24	$6.2 (\nu: 1.0)$
σ_8	0.8182	$0.809^{+0.036}_{-0.049}$	$H(0.15)$	72.81	$73.0^{+3.1}_{-2.9}$	χ_{CMB}^2	1177.9	$1192.6 (\nu: 15.9)$
S_8	0.8284	$0.822^{+0.045}_{-0.050}$	$D_M(0.15)$	641.7	641^{+28}_{-27}			
$\sigma_8 \Omega_m^{0.5}$	0.4537	$0.450^{+0.025}_{-0.028}$	$H(0.38)$	82.81	$83.0^{+3.1}_{-3.0}$			

Best-fit $\chi_{eff}^2 = 1184.46$; $\bar{\chi}_{eff}^2 = 1206.76$; $R - 1 = 0.00900$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.05 BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.76 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3.2.29: 23.32
plik_rd12_HM_v22_TT: 758.69

9.12 base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02221^{+0.00055}_{-0.00057}$	$\sigma_8 \Omega_m^{0.25}$	0.6113	$0.604^{+0.028}_{-0.035}$	$D_M(0.38)$	1530	1528^{+61}_{-59}
$\Omega_c h^2$	0.1189	$0.1191^{+0.0076}_{-0.0074}$	$\sigma_8/h^{0.5}$	0.9974	$0.983^{+0.038}_{-0.055}$	$H(0.51)$	89.58	$89.7^{+3.0}_{-2.9}$
$100\theta_{MC}$	1.04103	$1.0410^{+0.0013}_{-0.0012}$	$r_{drag}h$	99.99	$99.8^{+2.7}_{-2.5}$	$D_M(0.51)$	1982	1980^{+76}_{-74}
τ	0.0535	$0.053^{+0.022}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.428^{+0.079}_{-0.090}$	$H(0.61)$	95.16	$95.3^{+3.1}_{-3.0}$
Σm_ν [eV]	0.004	< 0.225	z_{re}	7.60	$7.6^{+2.2}_{-2.4}$	$D_M(0.61)$	2307	2304^{+86}_{-84}
N_{eff}	3.005	$3.06^{+0.44}_{-0.42}$	$10^9 A_s$	2.089	$2.09^{+0.11}_{-0.10}$	$H(2.33)$	235.2	$235.8^{+6.5}_{-6.5}$
$\ln(10^{10} A_s)$	3.0393	$3.040^{+0.050}_{-0.049}$	$10^9 A_s e^{-2\tau}$	1.8772	$1.878^{+0.044}_{-0.045}$	$D_M(2.33)$	5774	5763^{+180}_{-180}
n_s	0.9649	$0.967^{+0.019}_{-0.018}$	D_{40}	1227.7	1226^{+37}_{-38}	$f\sigma_8(0.15)$	0.4597	$0.455^{+0.023}_{-0.025}$
y_{cal}	1.0005	$1.0006^{+0.0063}_{-0.0062}$	D_{220}	5715	5720^{+100}_{-100}	$\sigma_8(0.15)$	0.7582	$0.748^{+0.032}_{-0.045}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	D_{810}	2536.3	2536^{+36}_{-36}	$f\sigma_8(0.38)$	0.4788	$0.474^{+0.021}_{-0.026}$
$\xi^{tSZ \times CIB}$	0.28	—	D_{1420}	816.1	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6722	$0.663^{+0.029}_{-0.040}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.52	$229.9^{+4.9}_{-4.7}$	$f\sigma_8(0.51)$	0.4776	$0.473^{+0.021}_{-0.025}$
A_{100}^{PS}	254	263^{+70}_{-70}	$n_{s,0.002}$	0.9649	$0.967^{+0.019}_{-0.018}$	$\sigma_8(0.51)$	0.6291	$0.621^{+0.027}_{-0.038}$
A_{143}^{PS}	47.6	49^{+20}_{-20}	Y_P	0.2448	$0.2454^{+0.0058}_{-0.0058}$	$f\sigma_8(0.61)$	0.4728	$0.468^{+0.020}_{-0.025}$
$A_{143 \times 217}^{PS}$	44.9	43^{+20}_{-20}	Y_P^{BBN}	0.2461	$0.2467^{+0.0058}_{-0.0058}$	$\sigma_8(0.61)$	0.5987	$0.590^{+0.026}_{-0.036}$
A_{217}^{PS}	118.3	115^{+30}_{-30}	$10^5 D/H$	2.607	$2.62^{+0.13}_{-0.13}$	$f\sigma_8(2.33)$	0.3010	$0.298^{+0.013}_{-0.016}$
A^{kSZ}	0.0	—	Age/Gyr	13.823	$13.80^{+0.43}_{-0.42}$	$\sigma_8(2.33)$	0.3109	$0.307^{+0.014}_{-0.018}$
A_{100}^{dustTT}	8.89	$9.0^{+4.7}_{-4.7}$	z_*	1090.01	$1090.05^{+0.95}_{-0.97}$	f_{2000}^{143}	29.8	31^{+8}_{-8}
A_{143}^{dustTT}	10.79	$10.7^{+4.5}_{-4.7}$	r_*	145.08	$144.8^{+4.2}_{-4.1}$	$f_{2000}^{143 \times 217}$	32.8	33^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.2	$18.3^{+8.2}_{-8.3}$	$100\theta_*$	1.04123	$1.0412^{+0.0015}_{-0.0014}$	f_{2000}^{217}	107.3	$108.0^{+5.1}_{-5.3}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.933	$13.90^{+0.39}_{-0.38}$	χ_{small}^2	395.94	$397.0 (\nu: 1.6)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.40	$1059.5^{+1.8}_{-1.9}$	χ_{lowl}^2	23.33	$23.1 (\nu: 0.7)$
c_{217}	0.99825	$0.9983^{+0.0017}_{-0.0016}$	r_{drag}	147.81	$147.5^{+4.4}_{-4.3}$	χ_{plik}^2	758.4	$772.3 (\nu: 16.0)$
H_0	67.65	$67.7^{+3.0}_{-2.9}$	k_D	0.14012	$0.1403^{+0.0033}_{-0.0032}$	χ_{Aver15}^2	0.09	$0.54 (\nu: 0.2)$
Ω_Λ	0.6917	$0.690^{+0.020}_{-0.021}$	$100\theta_D$	0.16092	$0.1610^{+0.0011}_{-0.0011}$	$\chi_{Cooke17}^2$	0.01	$0.28 (\nu: 0.1)$
Ω_m	0.3083	$0.310^{+0.021}_{-0.020}$	z_{eq}	3390	3374^{+80}_{-87}	χ_{6DF}^2	0.010	$0.061 (\nu: 0.0)$
$\Omega_m h^2$	0.1411	$0.1420^{+0.0079}_{-0.0077}$	k_{eq}	0.010317	$0.01030^{+0.00032}_{-0.00033}$	χ_{MGS}^2	1.41	$1.39 (\nu: 0.2)$
$\Omega_\nu h^2$	0.00004	< 0.00242	$100\theta_{eq}$	0.8150	$0.818^{+0.017}_{-0.015}$	$\chi_{DR12BAO}^2$	3.89	$4.8 (\nu: 1.4)$
$\Omega_m h^3$	0.0955	$0.0961^{+0.0088}_{-0.0081}$	$100\theta_{s,eq}$	0.4504	$0.4520^{+0.0085}_{-0.0076}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
σ_8	0.8203	$0.809^{+0.035}_{-0.049}$	$H(0.15)$	72.88	$73.0^{+3.0}_{-2.8}$	χ_{BAO}^2	5.31	$6.2 (\nu: 0.9)$
S_8	0.8316	$0.822^{+0.044}_{-0.050}$	$D_M(0.15)$	641.1	641^{+27}_{-26}	χ_{CMB}^2	1177.7	$1192.4 (\nu: 15.5)$
$\sigma_8 \Omega_m^{0.5}$	0.4555	$0.450^{+0.024}_{-0.027}$	$H(0.38)$	82.91	$83.0^{+3.0}_{-2.9}$	χ_{Abund}^2	0.10	$0.82 (\nu: 0.4)$

Best-fit $\chi_{eff}^2 = 1184.51$; $\bar{\chi}_{eff}^2 = 1206.75$; $R - 1 = 0.01022$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.09 D_Cooke2017: 0.01 BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.89 CMB - small_100x143_offlike5_EE_Aplanck_B: 395.94 comman-
der_dx12.v3.2.29: 23.33 plik_rd12_HM.v22_TT: 758.40

9.13 base_nnu_mnu_plikHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02228^{+0.00061}_{-0.00061}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.029}_{-0.036}$	$D_{\mathrm{M}}(0.38)$	1515^{+76}_{-73}
$\Omega_{\mathrm{c}}h^2$	$0.121^{+0.010}_{-0.0098}$	$\sigma_8/h^{0.5}$	$0.984^{+0.038}_{-0.057}$	$H(0.51)$	$90.4^{+4.0}_{-3.9}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0015}_{-0.0014}$	$r_{\mathrm{drag}}h$	$100.1^{+2.6}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1963^{+97}_{-92}
τ	$0.055^{+0.020}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.079}_{-0.088}$	$H(0.61)$	$96.1^{+4.1}_{-4.1}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.240	z_{re}	< 9.66	$D_{\mathrm{M}}(0.61)$	2285^{+110}_{-100}
N_{eff}	$3.16^{+0.61}_{-0.60}$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.11}_{-0.087}$	$H(2.33)$	$237.2^{+8.9}_{-8.9}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.052}_{-0.042}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.885^{+0.053}_{-0.056}$	$D_{\mathrm{M}}(2.33)$	5721^{+250}_{-230}
n_{s}	$0.970^{+0.022}_{-0.022}$	D_{40}	1222^{+40}_{-40}	$f\sigma_8(0.15)$	$0.456^{+0.024}_{-0.026}$
y_{cal}	$1.0006^{+0.0064}_{-0.0062}$	D_{220}	5719^{+100}_{-100}	$\sigma_8(0.15)$	$0.752^{+0.037}_{-0.047}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+36}_{-36}	$f\sigma_8(0.38)$	$0.475^{+0.023}_{-0.027}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.667^{+0.033}_{-0.043}$
A_{143}^{tSZ}	—	D_{2000}	$229.4^{+5.7}_{-5.8}$	$f\sigma_8(0.51)$	$0.474^{+0.022}_{-0.026}$
A_{100}^{PS}	265^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.970^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	$0.625^{+0.032}_{-0.040}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.2468^{+0.0079}_{-0.0084}$	$f\sigma_8(0.61)$	$0.470^{+0.022}_{-0.026}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2481^{+0.0079}_{-0.0084}$	$\sigma_8(0.61)$	$0.594^{+0.030}_{-0.038}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.18}_{-0.17}$	$f\sigma_8(2.33)$	$0.300^{+0.015}_{-0.017}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.70^{+0.59}_{-0.54}$	$\sigma_8(2.33)$	$0.309^{+0.016}_{-0.019}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.7}$	z_{*}	$1090.2^{+1.3}_{-1.3}$	f_{2000}^{143}	32^{+9}_{-9}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.7}$	r_{*}	$143.8^{+5.9}_{-5.5}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.4}$	$100\theta_{*}$	$1.0410^{+0.0019}_{-0.0017}$	f_{2000}^{217}	$108.5^{+5.8}_{-5.9}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.82^{+0.54}_{-0.51}$	χ_{simall}^2	$397.0 (\nu: 1.7)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.9^{+2.2}_{-2.3}$	χ_{lowl}^2	$22.7 (\nu: 0.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$146.5^{+6.1}_{-5.6}$	χ_{plik}^2	$773.2 (\nu: 17.2)$
H_0	$68.4^{+3.7}_{-3.6}$	k_{D}	$0.1410^{+0.0042}_{-0.0043}$	χ_{JLA}^2	$1035.00 (\nu: 0.1)$
Ω_{Λ}	$0.693^{+0.020}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0015}_{-0.0015}$	$\chi_{6\mathrm{DF}}^2$	$0.046 (\nu: 0.0)$
Ω_{m}	$0.307^{+0.020}_{-0.020}$	z_{eq}	3364^{+80}_{-90}	χ_{MGS}^2	$1.56 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.144^{+0.011}_{-0.010}$	k_{eq}	$0.01034^{+0.00039}_{-0.00038}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.9)$
$\Omega_{\nu}h^2$	< 0.00257	$100\theta_{\mathrm{eq}}$	$0.820^{+0.017}_{-0.015}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\Omega_{\mathrm{m}}h^3$	$0.098^{+0.012}_{-0.011}$	$100\theta_{\mathrm{s,eq}}$	$0.4529^{+0.0089}_{-0.0076}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
σ_8	$0.814^{+0.040}_{-0.051}$	$H(0.15)$	$73.6^{+3.7}_{-3.6}$	χ_{CMB}^2	$1192.9 (\nu: 16.2)$
S_8	$0.823^{+0.045}_{-0.050}$	$D_{\mathrm{M}}(0.15)$	635^{+33}_{-32}		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.025}_{-0.028}$	$H(0.38)$	$83.7^{+3.9}_{-3.8}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2241.24; R - 1 = 0.00999$$

9.14 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022344	$0.02237^{+0.00049}_{-0.00046}$	$\Omega_\nu h^2$	0.00000	< 0.00185	$100\theta_{s,eq}$	0.4497	$0.4503^{+0.0064}_{-0.0064}$
$\Omega_c h^2$	0.1178	$0.1184^{+0.0079}_{-0.0077}$	$\Omega_m h^3$	0.0945	$0.0953^{+0.0096}_{-0.0088}$	$H(0.15)$	72.64	$72.7^{+3.2}_{-3.0}$
$100\theta_{MC}$	1.04122	$1.0411^{+0.0011}_{-0.0011}$	σ_8	0.8179	$0.811^{+0.033}_{-0.039}$	$D_M(0.15)$	643.2	643^{+28}_{-28}
τ	0.0545	$0.055^{+0.022}_{-0.020}$	S_8	0.8290	$0.826^{+0.036}_{-0.036}$	$H(0.38)$	82.64	$82.7^{+3.2}_{-3.1}$
Σm_ν [eV]	0.000	< 0.175	$\sigma_8 \Omega_m^{0.5}$	0.4541	$0.452^{+0.020}_{-0.020}$	$D_M(0.38)$	1535	1534^{+64}_{-64}
N_{eff}	2.935	$2.98^{+0.48}_{-0.45}$	$\sigma_8 \Omega_m^{0.25}$	0.6094	$0.606^{+0.023}_{-0.027}$	$H(0.51)$	89.28	$89.4^{+3.3}_{-3.2}$
$\ln(10^{10} A_s)$	3.0394	$3.042^{+0.049}_{-0.048}$	$\sigma_8/h^{0.5}$	0.9961	$0.988^{+0.031}_{-0.040}$	$D_M(0.51)$	1989	1988^{+81}_{-81}
n_s	0.9629	$0.964^{+0.019}_{-0.018}$	$r_{drag} h$	99.99	$99.7^{+2.4}_{-2.3}$	$H(0.61)$	94.84	$95.0^{+3.4}_{-3.2}$
y_{cal}	1.0006	$1.0006^{+0.0066}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	2.450	$2.441^{+0.067}_{-0.070}$	$D_M(0.61)$	2314	2313^{+93}_{-92}
A_{217}^{CIB}	46.9	46^{+20}_{-20}	z_{re}	7.65	$7.7^{+2.1}_{-2.1}$	$H(2.33)$	234.4	$235.2^{+7.1}_{-6.9}$
$\xi^{tSZ \times CIB}$	0.43	—	$10^9 A_s$	2.089	$2.09^{+0.10}_{-0.098}$	$D_M(2.33)$	5793	5782^{+200}_{-200}
A_{143}^{tSZ}	7.2	—	$10^9 A_s e^{-2\tau}$	1.8735	$1.876^{+0.045}_{-0.045}$	$f\sigma_8(0.15)$	0.4582	$0.457^{+0.019}_{-0.019}$
A_{100}^{PS}	248	257^{+70}_{-70}	D_{40}	1232.7	1231^{+34}_{-36}	$\sigma_8(0.15)$	0.7560	$0.750^{+0.031}_{-0.037}$
A_{143}^{PS}	45.5	45^{+20}_{-20}	D_{220}	5737	5736^{+99}_{-95}	$f\sigma_8(0.38)$	0.4773	$0.475^{+0.018}_{-0.019}$
$A_{143 \times 217}^{PS}$	46.0	42^{+20}_{-20}	D_{810}	2538.3	2538^{+36}_{-34}	$\sigma_8(0.38)$	0.6703	$0.665^{+0.028}_{-0.033}$
A_{217}^{PS}	118.9	115^{+30}_{-30}	D_{1420}	818.6	818^{+13}_{-12}	$f\sigma_8(0.51)$	0.4762	$0.474^{+0.018}_{-0.019}$
A^{kSZ}	0.0	—	D_{2000}	231.94	$231.4^{+4.8}_{-4.6}$	$\sigma_8(0.51)$	0.6273	$0.622^{+0.027}_{-0.031}$
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.7}$	$n_{s,0.002}$	0.9629	$0.964^{+0.019}_{-0.018}$	$f\sigma_8(0.61)$	0.4714	$0.469^{+0.017}_{-0.019}$
A_{143}^{dustTT}	10.98	$10.8^{+4.6}_{-4.6}$	Y_P	0.2439	$0.2445^{+0.0064}_{-0.0064}$	$\sigma_8(0.61)$	0.5969	$0.592^{+0.026}_{-0.030}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.6^{+8.5}_{-8.6}$	Y_P^{BBN}	0.2452	$0.2458^{+0.0064}_{-0.0065}$	$f\sigma_8(2.33)$	0.3001	$0.298^{+0.013}_{-0.014}$
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	$10^5 D/H$	2.552	$2.56^{+0.11}_{-0.12}$	$\sigma_8(2.33)$	0.3100	$0.308^{+0.014}_{-0.016}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.095}$	Age/Gyr	13.870	$13.84^{+0.47}_{-0.46}$	f_{2000}^{143}	28.0	29^{+8}_{-7}
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.076}_{-0.075}$	z_*	1089.64	$1089.72^{+0.87}_{-0.89}$	$f_{2000}^{143 \times 217}$	31.3	32^{+5}_{-5}
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.21}_{-0.21}$	r_*	145.60	$145.2^{+4.6}_{-4.5}$	f_{2000}^{217}	106.0	$106.5^{+5.1}_{-5.1}$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04145	$1.0413^{+0.0014}_{-0.0013}$	χ_{small}^2	396.06	$397.2 (\nu: 2.1)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.981	$13.94^{+0.43}_{-0.42}$	χ_{lowl}^2	23.72	$23.6 (\nu: 0.7)$
A_{217}^{dustTE}	2.09	$2.08^{+0.68}_{-0.68}$	z_{drag}	1059.63	$1059.8^{+1.8}_{-1.8}$	χ_{plik}^2	2342.8	$2359.7 (\nu: 19.6)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	148.29	$147.9^{+4.8}_{-4.7}$	χ_{6DF}^2	0.010	$0.062 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14001	$0.1403^{+0.0035}_{-0.0034}$	χ_{MGS}^2	1.41	$1.29 (\nu: 0.1)$
H_0	67.43	$67.4^{+3.2}_{-3.0}$	$100\theta_D$	0.16049	$0.1606^{+0.0010}_{-0.0011}$	$\chi_{DR12BAO}^2$	3.91	$4.9 (\nu: 1.3)$
Ω_Λ	0.6918	$0.689^{+0.018}_{-0.020}$	z_{eq}	3399	3393^{+69}_{-65}	χ_{prior}^2	1.8	$11.5 (\nu: 10.2)$
Ω_m	0.3082	$0.311^{+0.020}_{-0.018}$	k_{eq}	0.010296	$0.01031^{+0.00031}_{-0.00030}$	χ_{BAO}^2	5.33	$6.2 (\nu: 0.9)$
$\Omega_m h^2$	0.1401	$0.1413^{+0.0085}_{-0.0081}$	$100\theta_{eq}$	0.8139	$0.815^{+0.013}_{-0.013}$	χ_{CMB}^2	2762.6	$2780.5 (\nu: 18.6)$

Best-fit $\chi_{eff}^2 = 2769.67$; $\bar{\chi}_{eff}^2 = 2798.17$; $R - 1 = 0.00732$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.91 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.72 plik_rd12_HM_v22b_TTTEEE: 2342.81

9.15 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022340	$0.02239^{+0.00048}_{-0.00045}$	$\Omega_m h^3$	0.0945	$0.0955^{+0.0096}_{-0.0088}$	$D_M(0.15)$	643.0	642^{+28}_{-27}
$\Omega_c h^2$	0.1178	$0.1185^{+0.0080}_{-0.0077}$	σ_8	0.8170	$0.812^{+0.033}_{-0.038}$	$H(0.38)$	82.66	$82.9^{+3.1}_{-3.0}$
$100\theta_{MC}$	1.04120	$1.0411^{+0.0011}_{-0.0011}$	S_8	0.8281	$0.825^{+0.035}_{-0.036}$	$D_M(0.38)$	1534	1532^{+62}_{-61}
τ	0.0531	$0.055^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.452^{+0.019}_{-0.020}$	$H(0.51)$	89.30	$89.5^{+3.3}_{-3.1}$
Σm_ν [eV]	0.001	< 0.165	$\sigma_8 \Omega_m^{0.25}$	0.6088	$0.606^{+0.023}_{-0.027}$	$D_M(0.51)$	1988	1984^{+79}_{-77}
N_{eff}	2.939	$3.00^{+0.48}_{-0.45}$	$\sigma_8/h^{0.5}$	0.9949	$0.988^{+0.031}_{-0.040}$	$H(0.61)$	94.87	$95.1^{+3.4}_{-3.2}$
$\ln(10^{10} A_s)$	3.0367	$3.042^{+0.049}_{-0.047}$	$r_{\text{drag}} h$	99.99	$99.8^{+2.2}_{-2.2}$	$D_M(0.61)$	2314	2309^{+90}_{-89}
n_s	0.9633	$0.965^{+0.019}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.439^{+0.066}_{-0.071}$	$H(2.33)$	234.4	$235.3^{+7.1}_{-6.9}$
y_{cal}	1.0004	$1.0006^{+0.0066}_{-0.0063}$	z_{re}	7.51	$7.7^{+2.1}_{-2.1}$	$D_M(2.33)$	5792	5776^{+200}_{-190}
A_{217}^{CIB}	46.0	46^{+20}_{-20}	$10^9 A_s$	2.084	$2.10^{+0.11}_{-0.096}$	$f\sigma_8(0.15)$	0.4577	$0.456^{+0.018}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8736	$1.876^{+0.045}_{-0.045}$	$\sigma_8(0.15)$	0.7552	$0.750^{+0.031}_{-0.036}$
A_{143}^{tSZ}	7.2	—	D_{40}	1231.1	1230^{+34}_{-35}	$f\sigma_8(0.38)$	0.4767	$0.475^{+0.018}_{-0.019}$
A_{100}^{PS}	247	257^{+70}_{-70}	D_{220}	5734	5736^{+98}_{-95}	$\sigma_8(0.38)$	0.6695	$0.665^{+0.028}_{-0.032}$
A_{143}^{PS}	47.4	45^{+20}_{-20}	D_{810}	2538.1	2538^{+37}_{-35}	$f\sigma_8(0.51)$	0.4756	$0.474^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	49.5	42^{+20}_{-20}	D_{1420}	818.6	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6266	$0.623^{+0.027}_{-0.030}$
A_{217}^{PS}	120.5	115^{+30}_{-30}	D_{2000}	231.90	$231.4^{+4.9}_{-4.6}$	$f\sigma_8(0.61)$	0.4708	$0.469^{+0.017}_{-0.019}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9633	$0.965^{+0.019}_{-0.018}$	$\sigma_8(0.61)$	0.5963	$0.593^{+0.025}_{-0.029}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.7}$	Y_P	0.2439	$0.2447^{+0.0064}_{-0.0064}$	$f\sigma_8(2.33)$	0.2998	$0.299^{+0.013}_{-0.013}$
A_{143}^{dustTT}	10.96	$10.8^{+4.5}_{-4.6}$	Y_P^{BBN}	0.2453	$0.2460^{+0.0064}_{-0.0064}$	$\sigma_8(2.33)$	0.3097	$0.308^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.4}_{-8.7}$	$10^5 D/H$	2.554	$2.56^{+0.12}_{-0.12}$	f_{2000}^{143}	27.9	29^{+8}_{-7}
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	Age/Gyr	13.867	$13.83^{+0.47}_{-0.46}$	$f_{2000}^{143 \times 217}$	31.3	32^{+5}_{-5}
A_{100}^{dustTE}	0.115	$0.114^{+0.099}_{-0.094}$	z_*	1089.66	$1089.71^{+0.88}_{-0.88}$	f_{2000}^{217}	105.9	$106.5^{+5.1}_{-5.0}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.075}$	r_*	145.57	$145.1^{+4.6}_{-4.5}$	χ_{small}^2	395.86	$397.2 (\nu: 2.1)$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04142	$1.0413^{+0.0014}_{-0.0013}$	χ_{lowl}^2	23.60	$23.5 (\nu: 0.7)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.978	$13.93^{+0.43}_{-0.42}$	χ_{plik}^2	2343.2	$2359.9 (\nu: 19.6)$
$A_{143 \times 217}^{\text{dustTE}}$	0.663	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.63	$1059.8^{+1.8}_{-1.8}$	χ_{JLA}^2	1034.91	$1035.07 (\nu: 0.1)$
A_{217}^{dustTE}	2.07	$2.07^{+0.68}_{-0.69}$	r_{drag}	148.25	$147.8^{+4.8}_{-4.6}$	$\chi_{6\text{DF}}^2$	0.010	$0.049 (\nu: 0.0)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14003	$0.1404^{+0.0035}_{-0.0034}$	χ_{MGS}^2	1.41	$1.36 (\nu: 0.1)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16050	$0.1606^{+0.0010}_{-0.0011}$	χ_{DR12BAO}^2	3.92	$4.6 (\nu: 0.9)$
H_0	67.44	$67.6^{+3.1}_{-2.9}$	z_{eq}	3399	3390^{+66}_{-62}	χ_{prior}^2	1.6	$11.4 (\nu: 10.4)$
Ω_Λ	0.6918	$0.690^{+0.017}_{-0.019}$	k_{eq}	0.010298	$0.01031^{+0.00030}_{-0.00030}$	χ_{BAO}^2	5.34	$6.0 (\nu: 0.6)$
Ω_m	0.3082	$0.310^{+0.019}_{-0.017}$	$100\theta_{\text{eq}}$	0.8139	$0.816^{+0.012}_{-0.012}$	χ_{CMB}^2	2762.7	$2780.6 (\nu: 18.7)$
$\Omega_m h^2$	0.1402	$0.1413^{+0.0084}_{-0.0081}$	$100\theta_{s,\text{eq}}$	0.4497	$0.4506^{+0.0061}_{-0.0062}$			
$\Omega_\nu h^2$	0.00001	< 0.00175	$H(0.15)$	72.66	$72.8^{+3.0}_{-2.9}$			

Best-fit $\chi_{\text{eff}}^2 = 3804.54$; $\bar{\chi}_{\text{eff}}^2 = 3833.11$; $R - 1 = 0.00833$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.92 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3_2_29: 23.60 plik_rd12_HM_v22b_TTTEEE: 2343.21 SN - JLA Pantheon18: 1034.91

9.16 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022317	$0.02236^{+0.00045}_{-0.00042}$	$\Omega_m h^3$	0.0940	$0.0949^{+0.0081}_{-0.0076}$	$D_M(0.15)$	644.9	644^{+25}_{-24}
$\Omega_c h^2$	0.1175	$0.1181^{+0.0069}_{-0.0067}$	σ_8	0.8174	$0.810^{+0.031}_{-0.038}$	$H(0.38)$	82.46	$82.6^{+2.7}_{-2.6}$
$100\theta_{MC}$	1.04129	$1.0412^{+0.0010}_{-0.0010}$	S_8	0.8298	$0.825^{+0.035}_{-0.036}$	$D_M(0.38)$	1539	1537^{+56}_{-54}
τ	0.0545	$0.055^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4545	$0.452^{+0.019}_{-0.020}$	$H(0.51)$	89.10	$89.3^{+2.8}_{-2.7}$
Σm_ν [eV]	0.001	< 0.173	$\sigma_8 \Omega_m^{0.25}$	0.6095	$0.605^{+0.023}_{-0.026}$	$D_M(0.51)$	1993	1991^{+70}_{-68}
N_{eff}	2.910	$2.96^{+0.40}_{-0.39}$	$\sigma_8/h^{0.5}$	0.9969	$0.988^{+0.031}_{-0.041}$	$H(0.61)$	94.66	$94.9^{+2.9}_{-2.8}$
$\ln(10^{10} A_s)$	3.0384	$3.041^{+0.047}_{-0.046}$	$r_{\text{drag}} h$	99.88	$99.6^{+2.3}_{-2.3}$	$D_M(0.61)$	2320	2316^{+80}_{-78}
n_s	0.9630	$0.964^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.450	$2.442^{+0.066}_{-0.070}$	$H(2.33)$	234.1	$234.9^{+6.1}_{-5.9}$
y_{cal}	1.0004	$1.0006^{+0.0066}_{-0.0063}$	z_{re}	7.65	$7.7^{+2.1}_{-2.1}$	$D_M(2.33)$	5804	5790^{+170}_{-170}
A_{217}^{CIB}	44.7	46^{+20}_{-20}	$10^9 A_s$	2.087	$2.09^{+0.10}_{-0.094}$	$f\sigma_8(0.15)$	0.4586	$0.457^{+0.019}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.73	—	$10^9 A_s e^{-2\tau}$	1.8718	$1.874^{+0.043}_{-0.041}$	$\sigma_8(0.15)$	0.7554	$0.749^{+0.029}_{-0.035}$
A_{143}^{tSZ}	7.08	> 0.934	D_{40}	1231.1	1232^{+33}_{-34}	$f\sigma_8(0.38)$	0.4774	$0.475^{+0.017}_{-0.019}$
A_{100}^{PS}	244	257^{+70}_{-70}	D_{220}	5730	5736^{+98}_{-95}	$\sigma_8(0.38)$	0.6697	$0.664^{+0.026}_{-0.032}$
A_{143}^{PS}	49.1	45^{+20}_{-20}	D_{810}	2538.4	2538^{+36}_{-34}	$f\sigma_8(0.51)$	0.4762	$0.474^{+0.017}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	53.4	42^{+20}_{-20}	D_{1420}	819.3	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6267	$0.621^{+0.025}_{-0.030}$
A_{217}^{PS}	122.3	115^{+30}_{-30}	D_{2000}	232.29	$231.5^{+4.7}_{-4.6}$	$f\sigma_8(0.61)$	0.4713	$0.469^{+0.017}_{-0.019}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9630	$0.964^{+0.017}_{-0.017}$	$\sigma_8(0.61)$	0.5963	$0.591^{+0.024}_{-0.029}$
A_{100}^{dustTT}	8.78	$8.9^{+4.7}_{-4.7}$	Y_P	0.2435	$0.2443^{+0.0054}_{-0.0055}$	$f\sigma_8(2.33)$	0.2998	$0.298^{+0.012}_{-0.013}$
A_{143}^{dustTT}	10.93	$10.8^{+4.6}_{-4.6}$	Y_P^{BBN}	0.2449	$0.2456^{+0.0054}_{-0.0055}$	$\sigma_8(2.33)$	0.3096	$0.307^{+0.013}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.5^{+8.5}_{-8.6}$	$10^5 D/H$	2.548	$2.56^{+0.11}_{-0.11}$	f_{2000}^{143}	27.3	29^{+8}_{-7}
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	Age/Gyr	13.896	$13.86^{+0.41}_{-0.40}$	$f_{2000}^{143 \times 217}$	30.9	32^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.093}$	z_*	1089.63	$1089.69^{+0.80}_{-0.81}$	f_{2000}^{217}	105.60	$106.4^{+5.0}_{-4.9}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.075}$	r_*	145.83	$145.4^{+4.0}_{-3.9}$	χ_{small}^2	396.06	$397.2 (\nu: 2.0)$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04153	$1.0414^{+0.0012}_{-0.0012}$	χ_{lowl}^2	23.64	$23.6 (\nu: 0.6)$
A_{143}^{dustTE}	0.227	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.001	$13.96^{+0.37}_{-0.36}$	χ_{plik}^2	2342.9	$2359.4 (\nu: 18.9)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.51	$1059.7^{+1.6}_{-1.6}$	χ_{Aver15}^2	0.00	$0.31 (\nu: 0.1)$
A_{217}^{dustTE}	2.08	$2.07^{+0.68}_{-0.69}$	r_{drag}	148.53	$148.1^{+4.2}_{-4.0}$	$\chi_{6\text{DF}}^2$	0.016	$0.062 (\nu: 0.0)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.13984	$0.1402^{+0.0030}_{-0.0030}$	χ_{MGS}^2	1.34	$1.27 (\nu: 0.1)$
c_{217}	0.99814	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16045	$0.16056^{+0.00092}_{-0.00093}$	χ_{DR12BAO}^2	4.05	$4.9 (\nu: 1.3)$
H_0	67.24	$67.3^{+2.7}_{-2.6}$	z_{eq}	3403	3394^{+66}_{-64}	χ_{prior}^2	1.6	$11.4 (\nu: 10.3)$
Ω_Λ	0.6908	$0.689^{+0.018}_{-0.019}$	k_{eq}	0.010289	$0.01030^{+0.00028}_{-0.00027}$	χ_{BAO}^2	5.40	$6.2 (\nu: 0.9)$
Ω_m	0.3092	$0.311^{+0.019}_{-0.018}$	$100\theta_{\text{eq}}$	0.8132	$0.815^{+0.012}_{-0.012}$	χ_{CMB}^2	2762.5	$2780.2 (\nu: 18.3)$
$\Omega_m h^2$	0.1398	$0.1410^{+0.0072}_{-0.0069}$	$100\theta_{s,\text{eq}}$	0.4494	$0.4502^{+0.0063}_{-0.0062}$			
$\Omega_\nu h^2$	0.00001	< 0.00181	$H(0.15)$	72.46	$72.6^{+2.7}_{-2.6}$			

Best-fit $\chi_{\text{eff}}^2 = 2769.50$; $\bar{\chi}_{\text{eff}}^2 = 2798.18$; $R - 1 = 0.00755$
 χ_{eff}^2 : Abund - Y_p _Aver2015: 0.00 BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.05 CMB - simall_100x143.offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2.29: 23.64
plik_rd12_HM_v22b_TTTEEE: 2342.85

9.17 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022321	$0.02236^{+0.00045}_{-0.00042}$	$\Omega_m h^3$	0.0946	$0.0954^{+0.0078}_{-0.0073}$	$D_M(0.15)$	643.4	643^{+24}_{-23}
$\Omega_c h^2$	0.1181	$0.1186^{+0.0066}_{-0.0064}$	σ_8	0.8187	$0.812^{+0.031}_{-0.038}$	$H(0.38)$	82.64	$82.8^{+2.6}_{-2.6}$
$100\theta_{MC}$	1.04115	$1.0411^{+0.0010}_{-0.00095}$	S_8	0.8310	$0.827^{+0.035}_{-0.036}$	$D_M(0.38)$	1535	1534^{+54}_{-53}
τ	0.0543	$0.055^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4552	$0.453^{+0.019}_{-0.019}$	$H(0.51)$	89.30	$89.5^{+2.7}_{-2.6}$
Σm_ν [eV]	0.002	< 0.173	$\sigma_8 \Omega_m^{0.25}$	0.6104	$0.606^{+0.022}_{-0.026}$	$D_M(0.51)$	1989	1987^{+68}_{-66}
N_{eff}	2.945	$2.99^{+0.38}_{-0.37}$	$\sigma_8/h^{0.5}$	0.9973	$0.989^{+0.030}_{-0.041}$	$H(0.61)$	94.87	$95.1^{+2.8}_{-2.7}$
$\ln(10^{10} A_s)$	3.0396	$3.042^{+0.047}_{-0.045}$	$r_{\text{drag}} h$	99.88	$99.6^{+2.2}_{-2.3}$	$D_M(0.61)$	2315	2312^{+78}_{-75}
n_s	0.9632	$0.965^{+0.016}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	2.451	$2.442^{+0.066}_{-0.071}$	$H(2.33)$	234.6	$235.4^{+5.7}_{-5.7}$
y_{cal}	1.0005	$1.0006^{+0.0066}_{-0.0063}$	z_{re}	7.64	$7.7^{+2.0}_{-2.1}$	$D_M(2.33)$	5791	5779^{+160}_{-160}
A_{217}^{CIB}	45.9	46^{+20}_{-20}	$10^9 A_s$	2.090	$2.09^{+0.10}_{-0.093}$	$f\sigma_8(0.15)$	0.4592	$0.457^{+0.018}_{-0.018}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8746	$1.876^{+0.041}_{-0.039}$	$\sigma_8(0.15)$	0.7566	$0.750^{+0.029}_{-0.035}$
A_{143}^{tSZ}	7.15	> 0.929	D_{40}	1232.0	1231^{+33}_{-34}	$f\sigma_8(0.38)$	0.4781	$0.476^{+0.017}_{-0.019}$
A_{100}^{PS}	247	258^{+70}_{-70}	D_{220}	5732	5734^{+98}_{-93}	$\sigma_8(0.38)$	0.6708	$0.665^{+0.026}_{-0.032}$
A_{143}^{PS}	47.7	45^{+20}_{-20}	D_{810}	2538.3	2538^{+36}_{-34}	$f\sigma_8(0.51)$	0.4769	$0.474^{+0.017}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	49.4	42^{+20}_{-20}	D_{1420}	818.4	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6277	$0.622^{+0.024}_{-0.030}$
A_{217}^{PS}	120.7	115^{+30}_{-30}	D_{2000}	231.81	$231.3^{+4.6}_{-4.4}$	$f\sigma_8(0.61)$	0.4720	$0.469^{+0.016}_{-0.019}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9632	$0.965^{+0.016}_{-0.016}$	$\sigma_8(0.61)$	0.5973	$0.592^{+0.023}_{-0.029}$
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.7}$	Y_P	0.2440	$0.2446^{+0.0052}_{-0.0052}$	$f\sigma_8(2.33)$	0.3003	$0.298^{+0.012}_{-0.013}$
A_{143}^{dustTT}	10.92	$10.8^{+4.6}_{-4.6}$	Y_P^{BBN}	0.2453	$0.2460^{+0.0052}_{-0.0052}$	$\sigma_8(2.33)$	0.3101	$0.308^{+0.013}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.5}_{-8.7}$	$10^5 D/H$	2.560	$2.570^{+0.096}_{-0.097}$	f_{2000}^{143}	28.0	29^{+7}_{-7}
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	Age/Gyr	13.865	$13.84^{+0.39}_{-0.38}$	$f_{2000}^{143 \times 217}$	31.3	32^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.093}$	z_*	1089.70	$1089.76^{+0.74}_{-0.77}$	f_{2000}^{217}	106.04	$106.6^{+4.9}_{-4.8}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.075}$	r_*	145.49	$145.1^{+3.8}_{-3.7}$	χ_{small}^2	396.03	$397.2 (\nu: 2.0)$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04138	$1.0413^{+0.0012}_{-0.0011}$	χ_{lowl}^2	23.67	$23.5 (\nu: 0.6)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.971	$13.93^{+0.35}_{-0.34}$	χ_{plik}^2	2342.9	$2359.4 (\nu: 18.9)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.59	$1059.8^{+1.6}_{-1.5}$	χ_{Aver15}^2	0.01	$0.32 (\nu: 0.1)$
A_{217}^{dustTE}	2.08	$2.08^{+0.67}_{-0.70}$	r_{drag}	148.19	$147.8^{+4.0}_{-3.9}$	χ_{Cooke17}^2	0.39	$0.43 (\nu: 0.1)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14007	$0.1404^{+0.0029}_{-0.0029}$	$\chi_{6\text{DF}}^2$	0.016	$0.062 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16054	$0.16064^{+0.00084}_{-0.00085}$	χ_{MGS}^2	1.34	$1.27 (\nu: 0.1)$
H_0	67.40	$67.4^{+2.7}_{-2.6}$	z_{eq}	3401	3393^{+66}_{-64}	χ_{DR12BAO}^2	4.06	$4.9 (\nu: 1.3)$
Ω_Λ	0.6909	$0.689^{+0.018}_{-0.019}$	k_{eq}	0.010309	$0.01032^{+0.00027}_{-0.00026}$	χ_{prior}^2	1.6	$11.4 (\nu: 10.3)$
Ω_m	0.3091	$0.311^{+0.019}_{-0.018}$	$100\theta_{\text{eq}}$	0.8134	$0.815^{+0.012}_{-0.012}$	χ_{BAO}^2	5.42	$6.2 (\nu: 0.9)$
$\Omega_m h^2$	0.1404	$0.1415^{+0.0068}_{-0.0067}$	$100\theta_{s,\text{eq}}$	0.4495	$0.4502^{+0.0062}_{-0.0063}$	χ_{CMB}^2	2762.6	$2780.1 (\nu: 18.2)$
$\Omega_\nu h^2$	0.00002	< 0.00183	$H(0.15)$	72.63	$72.7^{+2.6}_{-2.5}$	χ_{Abund}^2	0.40	$0.75 (\nu: 0.2)$

Best-fit $\chi_{\text{eff}}^2 = 2770.02$; $\bar{\chi}_{\text{eff}}^2 = 2798.56$; $R - 1 = 0.00801$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.01 D_Cooke2017: 0.39 BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.06 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.03 comman-
der_dx12.v3.2.29: 23.67 plik_rd12_HM_v22b_TTTEEE: 2342.87

9.18 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00047}_{-0.00045}$	$\Omega_m h^3$	$0.0956^{+0.0096}_{-0.0088}$	$D_M(0.15)$	642^{+28}_{-27}
$\Omega_c h^2$	$0.1185^{+0.0079}_{-0.0078}$	σ_8	$0.813^{+0.032}_{-0.038}$	$H(0.38)$	$82.9^{+3.2}_{-3.0}$
$100\theta_{MC}$	$1.0411^{+0.0011}_{-0.0011}$	S_8	$0.826^{+0.035}_{-0.036}$	$D_M(0.38)$	1531^{+62}_{-61}
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.019}_{-0.020}$	$H(0.51)$	$89.6^{+3.3}_{-3.1}$
Σm_ν [eV]	< 0.167	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.023}_{-0.026}$	$D_M(0.51)$	1984^{+78}_{-77}
N_{eff}	$3.00^{+0.48}_{-0.45}$	$\sigma_8/h^{0.5}$	$0.989^{+0.030}_{-0.039}$	$H(0.61)$	$95.2^{+3.4}_{-3.2}$
$\ln(10^{10} A_s)$	$3.044^{+0.047}_{-0.038}$	$r_{\text{drag}} h$	$99.8^{+2.2}_{-2.2}$	$D_M(0.61)$	2309^{+91}_{-88}
n_s	$0.965^{+0.019}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.065}_{-0.067}$	$H(2.33)$	$235.3^{+7.1}_{-6.9}$
y_{cal}	$1.0006^{+0.0067}_{-0.0063}$	z_{re}	< 9.62	$D_M(2.33)$	5775^{+200}_{-190}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.10^{+0.10}_{-0.079}$	$f\sigma_8(0.15)$	$0.457^{+0.018}_{-0.018}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.876^{+0.044}_{-0.046}$	$\sigma_8(0.15)$	$0.751^{+0.031}_{-0.036}$
A_{143}^{tSZ}	—	D_{40}	1230^{+34}_{-35}	$f\sigma_8(0.38)$	$0.476^{+0.017}_{-0.019}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5737^{+98}_{-95}	$\sigma_8(0.38)$	$0.666^{+0.028}_{-0.032}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+37}_{-35}	$f\sigma_8(0.51)$	$0.474^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.623^{+0.026}_{-0.030}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+4.9}_{-4.6}$	$f\sigma_8(0.61)$	$0.470^{+0.017}_{-0.019}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.019}_{-0.018}$	$\sigma_8(0.61)$	$0.593^{+0.025}_{-0.029}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P	$0.2447^{+0.0064}_{-0.0064}$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.014}$
A_{143}^{dustTT}	$10.8^{+4.5}_{-4.6}$	Y_{BBN}	$0.2460^{+0.0065}_{-0.0065}$	$\sigma_8(2.33)$	$0.308^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.7}$	10^5D/H	$2.57^{+0.12}_{-0.12}$	f_{2000}^{143}	29^{+8}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.83^{+0.47}_{-0.46}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.093}$	z_*	$1089.71^{+0.88}_{-0.88}$	f_{2000}^{217}	$106.5^{+5.1}_{-5.1}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.075}$	r_*	$145.1^{+4.7}_{-4.5}$	χ_{simall}^2	$397.2 (\nu: 2.2)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.0413^{+0.0014}_{-0.0013}$	χ_{lowl}^2	$23.5 (\nu: 0.6)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.93^{+0.43}_{-0.42}$	χ_{plik}^2	$2359.7 (\nu: 19.5)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.8^{+1.8}_{-1.8}$	χ_{JLA}^2	$1035.06 (\nu: 0.1)$
A_{217}^{dustTE}	$2.07^{+0.69}_{-0.70}$	r_{drag}	$147.7^{+4.8}_{-4.6}$	$\chi_{6\text{DF}}^2$	$0.048 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1404^{+0.0034}_{-0.0034}$	χ_{MGS}^2	$1.37 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.1606^{+0.0010}_{-0.0010}$	χ_{DR12BAO}^2	$4.6 (\nu: 0.9)$
H_0	$67.6^{+3.1}_{-2.9}$	z_{eq}	3389^{+65}_{-62}	χ_{prior}^2	$11.4 (\nu: 10.4)$
Ω_Λ	$0.690^{+0.017}_{-0.019}$	k_{eq}	$0.01031^{+0.00030}_{-0.00030}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
Ω_m	$0.310^{+0.019}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{CMB}^2	$2780.4 (\nu: 18.5)$
$\Omega_m h^2$	$0.1414^{+0.0084}_{-0.0080}$	$100\theta_{s,\text{eq}}$	$0.4507^{+0.0060}_{-0.0062}$		
$\Omega_\nu h^2$	< 0.00176	$H(0.15)$	$72.8^{+3.0}_{-2.9}$		

$$\bar{\chi}_{\text{eff}}^2 = 3832.93; R - 1 = 0.00910$$

9.19 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02224^{+0.00062}_{-0.00061} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4540	$0.450^{+0.026}_{-0.027} \quad (-0.1\sigma)$	$H(0.38)$	83.24	$83.2^{+4.0}_{-4.0} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1195	$0.120^{+0.011}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6101	$0.603^{+0.031}_{-0.036} \quad (-0.2\sigma)$	$D_M(0.38)$	1523	$1525^{+83}_{-75} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04098	$1.0410^{+0.0016}_{-0.0015} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9945	$0.982^{+0.042}_{-0.056} \quad (-0.1\sigma)$	$H(0.51)$	89.91	$90.0^{+4.1}_{-4.2} \quad (-0.2\sigma)$
τ	0.0520	$0.054^{+0.021}_{-0.021} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.22	$99.9^{+2.7}_{-2.7} \quad (-0.1\sigma)$	$D_M(0.51)$	1974	$1975^{+100}_{-95} \quad (+0.2\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.000	$< 0.244 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.438	$2.422^{+0.081}_{-0.088} \quad (-0.1\sigma)$	$H(0.61)$	95.49	$95.6^{+4.2}_{-4.3} \quad (-0.2\sigma)$
N_{eff}	3.05	$3.09^{+0.63}_{-0.63} \quad (-0.2\sigma)$	z_{re}	7.47	$7.6^{+2.1}_{-2.3} \quad (-0.0\sigma)$	$D_M(0.61)$	2297	$2299^{+120}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.036	$3.040^{+0.053}_{-0.052} \quad (-0.2\sigma)$	$10^9 A_s$	2.082	$2.09^{+0.11}_{-0.11} \quad (-0.2\sigma)$	$H(2.33)$	235.7	$236.3^{+9.1}_{-9.2} \quad (-0.2\sigma)$
n_s	0.9659	$0.969^{+0.023}_{-0.023} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.876	$1.877^{+0.057}_{-0.059} \quad (-0.3\sigma)$	$D_M(2.33)$	5755	$5751^{+270}_{-240} \quad (+0.2\sigma)$
y_{cal}	1.0002	$1.0005^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	1224.3	$1221^{+40}_{-40} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4582	$0.455^{+0.025}_{-0.026} \quad (-0.1\sigma)$
A_{100}^{PS}	243	$243^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	5705	$5709^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7581	$0.748^{+0.038}_{-0.047} \quad (-0.2\sigma)$
A_{143}^{PS}	40	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2531.3	$2534^{+37}_{-37} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4777	$0.473^{+0.024}_{-0.026} \quad (-0.2\sigma)$
A_{217}^{PS}	98.0	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	813.6	$815^{+14}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6723	$0.663^{+0.034}_{-0.042} \quad (-0.2\sigma)$
A_{217}^{CIB}	45.0	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	229.4	$229.7^{+6.2}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4768	$0.472^{+0.023}_{-0.026} \quad (-0.2\sigma)$
A_{143}^{tSZ}	5.21	$< 8.81 \quad (-0.6\sigma)$	$n_{s,0.002}$	0.9659	$0.969^{+0.023}_{-0.023} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6293	$0.620^{+0.032}_{-0.039} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.582	$0.65^{+0.31}_{-0.33}$	Y_P	0.2454	$0.2458^{+0.0083}_{-0.0089} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4722	$0.467^{+0.023}_{-0.025} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.71	—	Y_P^{BBN}	0.2467	$0.2472^{+0.0083}_{-0.0089} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5988	$0.590^{+0.031}_{-0.037} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.09	—	10^5D/H	2.624	$2.62^{+0.18}_{-0.18} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3012	$0.298^{+0.015}_{-0.017} \quad (-0.2\sigma)$
A^{kSZ}	2.3	—	Age/Gyr	13.78	$13.77^{+0.63}_{-0.57} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3111	$0.307^{+0.016}_{-0.019} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	z_*	1090.12	$1090.1^{+1.3}_{-1.3} \quad (-0.2\sigma)$	f_{2000}^{143}	31.1	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	0.979	$0.98^{+0.45}_{-0.46}$	r_*	144.7	$144.5^{+6.2}_{-5.7} \quad (+0.2\sigma)$	f_{2000}^{217}	107.6	$107.6^{+6.3}_{-6.4} \quad (-0.4\sigma)$
A_{217}^{dust}	0.966	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	1.04115	$1.0412^{+0.0019}_{-0.0018} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	33.1	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.023	$1.03^{+0.42}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	13.90	$13.88^{+0.58}_{-0.53} \quad (+0.2\sigma)$	χ_{small}^2	395.81	$397.0 (\nu: 1.5) \quad (-0.0\sigma)$
c_{100}	0.99757	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	1059.44	$1059.6^{+2.2}_{-2.4} \quad (-0.2\sigma)$	χ_{lowl}^2	23.10	$22.8 (\nu: 0.8) \quad (-0.0\sigma)$
c_{217}	1.00164	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	147.4	$147.2^{+6.5}_{-5.9} \quad (+0.2\sigma)$	χ_{CamSpec}^2	7050.2	$7064.9 (\nu: 17.1)$
H_0	67.98	$67.9^{+3.8}_{-3.8} \quad (-0.2\sigma)$	k_D	0.14033	$0.1405^{+0.0044}_{-0.0045} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.003	$0.060 (\nu: 0.0) \quad (+0.0\sigma)$
Ω_Λ	0.6935	$0.691^{+0.020}_{-0.023} \quad (-0.1\sigma)$	$100\theta_D$	0.16108	$0.1611^{+0.0016}_{-0.0016} \quad (-0.2\sigma)$	χ_{MGS}^2	1.54	$1.44 (\nu: 0.2) \quad (-0.0\sigma)$
Ω_m	0.3065	$0.309^{+0.023}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	3382	$3371^{+87}_{-90} \quad (+0.1\sigma)$	χ_{DR12BAO}^2	3.66	$4.7 (\nu: 1.4) \quad (+0.0\sigma)$
$\Omega_m h^2$	0.1416	$0.143^{+0.011}_{-0.011} \quad (-0.2\sigma)$	k_{eq}	0.010327	$0.01031^{+0.00040}_{-0.00038} \quad (-0.2\sigma)$	χ_{prior}^2	2.4	$7.7 (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_\nu h^2$	0.00000	$< 0.00261 \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8163	$0.819^{+0.017}_{-0.016} \quad (-0.1\sigma)$	χ_{BAO}^2	5.20	$6.2 (\nu: 1.0) \quad (+0.0\sigma)$
$\Omega_m h^3$	0.0963	$0.097^{+0.012}_{-0.012} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4511	$0.4523^{+0.0089}_{-0.0083} \quad (-0.1\sigma)$	χ_{CMB}^2	7469.1	$7484.7 (\nu: 16.3) \quad (+1088.4\sigma)$
σ_8	0.8200	$0.809^{+0.041}_{-0.050} \quad (-0.2\sigma)$	$H(0.15)$	73.21	$73.2^{+3.8}_{-3.9} \quad (-0.2\sigma)$			
S_8	0.8289	$0.821^{+0.047}_{-0.050} \quad (-0.1\sigma)$	$D_M(0.15)$	638.1	$639^{+37}_{-33} \quad (+0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 7476.70$; $\Delta\chi_{\text{eff}}^2 = 6292.30$; $\bar{\chi}_{\text{eff}}^2 = 7498.64$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.94$; $R - 1 = 0.00711$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.54 (Δ 0.13) DR12BAO: 3.66 (Δ -0.25) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.81 (Δ -0.06) commander_dx12_v3_2_29: 23.10 (Δ -0.22) CamSpec like_10.7HM: 7050.23

9.20 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02223	$0.02226^{+0.00060}_{-0.00060} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4538	$0.449^{+0.025}_{-0.026} \quad (-0.1\sigma)$	$H(0.38)$	83.49	$83.4^{+3.9}_{-3.9} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1197	$0.120^{+0.011}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6107	$0.603^{+0.030}_{-0.035} \quad (-0.2\sigma)$	$D_M(0.38)$	1518	$1521^{+80}_{-73} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04101	$1.0410^{+0.0015}_{-0.0015} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9950	$0.981^{+0.041}_{-0.055} \quad (-0.1\sigma)$	$H(0.51)$	90.16	$90.1^{+4.0}_{-4.1} \quad (-0.2\sigma)$
τ	0.0532	$0.054^{+0.021}_{-0.021} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.44	$100.1^{+2.5}_{-2.5} \quad (-0.0\sigma)$	$D_M(0.51)$	1967	$1971^{+100}_{-93} \quad (+0.2\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.000	$< 0.238 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.435	$2.420^{+0.079}_{-0.086} \quad (-0.1\sigma)$	$H(0.61)$	95.74	$95.7^{+4.1}_{-4.3} \quad (-0.2\sigma)$
N_{eff}	3.08	$3.10^{+0.62}_{-0.61} \quad (-0.2\sigma)$	z_{re}	7.59	$7.6^{+2.1}_{-2.4} \quad (-0.0\sigma)$	$D_M(0.61)$	2290	$2294^{+120}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.039	$3.040^{+0.053}_{-0.052} \quad (-0.2\sigma)$	$10^9 A_s$	2.089	$2.09^{+0.11}_{-0.11} \quad (-0.2\sigma)$	$H(2.33)$	236.0	$236.4^{+8.9}_{-9.1} \quad (-0.2\sigma)$
n_s	0.9682	$0.969^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.879	$1.878^{+0.057}_{-0.059} \quad (-0.3\sigma)$	$D_M(2.33)$	5741	$5744^{+260}_{-230} \quad (+0.2\sigma)$
y_{cal}	1.0004	$1.0005^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	1220.8	$1220^{+39}_{-39} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4582	$0.454^{+0.024}_{-0.025} \quad (-0.1\sigma)$
A_{100}^{PS}	238	$243^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	5704	$5709^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7601	$0.748^{+0.038}_{-0.045} \quad (-0.2\sigma)$
A_{143}^{PS}	40	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2533.4	$2534^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4781	$0.473^{+0.023}_{-0.025} \quad (-0.2\sigma)$
A_{217}^{PS}	100.6	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	814.6	$815^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6743	$0.664^{+0.034}_{-0.041} \quad (-0.2\sigma)$
A_{217}^{CIB}	45.5	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	229.8	$229.6^{+6.1}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4774	$0.472^{+0.023}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{tSZ}	6.22	$< 8.73 \quad (-0.6\sigma)$	$n_{s,0.002}$	0.9682	$0.969^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6312	$0.621^{+0.032}_{-0.038} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.571	$0.65^{+0.32}_{-0.34}$	Y_P	0.2458	$0.2460^{+0.0081}_{-0.0085} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4729	$0.468^{+0.022}_{-0.025} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.77	—	Y_P^{BBN}	0.2471	$0.2474^{+0.0081}_{-0.0085} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.6007	$0.591^{+0.030}_{-0.036} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.02	—	10^5D/H	2.624	$2.63^{+0.18}_{-0.18} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3022	$0.298^{+0.015}_{-0.017} \quad (-0.2\sigma)$
A^{kSZ}	0.5	—	Age/Gyr	13.75	$13.75^{+0.61}_{-0.56} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3123	$0.308^{+0.016}_{-0.019} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	z_*	1090.10	$1090.1^{+1.3}_{-1.3} \quad (-0.2\sigma)$	f_{2000}^{143}	30.9	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	0.990	$0.98^{+0.46}_{-0.46}$	r_*	144.5	$144.4^{+6.2}_{-5.6} \quad (+0.2\sigma)$	f_{2000}^{217}	107.4	$107.6^{+6.2}_{-6.4} \quad (-0.4\sigma)$
A_{217}^{dust}	0.963	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	1.04115	$1.0411^{+0.0019}_{-0.0018} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	32.8	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.000	$1.03^{+0.41}_{-0.43}$	$D_M(z_*)/\text{Gpc}$	13.87	$13.87^{+0.57}_{-0.52} \quad (+0.2\sigma)$	χ_{small}^2	395.87	$397.0 (\nu: 1.5) \quad (-0.0\sigma)$
c_{100}	0.99755	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	1059.59	$1059.7^{+2.1}_{-2.3} \quad (-0.2\sigma)$	χ_{lowl}^2	22.77	$22.7 (\nu: 0.7) \quad (-0.1\sigma)$
c_{217}	1.00139	$1.0012^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	147.2	$147.1^{+6.4}_{-5.9} \quad (+0.2\sigma)$	χ_{CamSpec}^2	7050.7	$7065.1 (\nu: 16.9)$
H_0	68.25	$68.1^{+3.7}_{-3.6} \quad (-0.2\sigma)$	k_D	0.14055	$0.1406^{+0.0043}_{-0.0045} \quad (-0.2\sigma)$	χ_{JLA}^2	1034.80	$1035.02 (\nu: 0.1) \quad (+0.1\sigma)$
Ω_Λ	0.6952	$0.692^{+0.019}_{-0.021} \quad (-0.1\sigma)$	$100\theta_D$	0.16111	$0.1611^{+0.0015}_{-0.0016} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.000	$0.048 (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	0.3048	$0.308^{+0.021}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	3377	$3367^{+82}_{-84} \quad (+0.1\sigma)$	χ_{MGS}^2	1.68	$1.52 (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_m h^2$	0.1420	$0.143^{+0.011}_{-0.011} \quad (-0.2\sigma)$	k_{eq}	0.010331	$0.01031^{+0.00040}_{-0.00037} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	3.50	$4.4 (\nu: 1.0) \quad (+0.0\sigma)$
$\Omega_\nu h^2$	0.00000	$< 0.00255 \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8174	$0.819^{+0.017}_{-0.015} \quad (-0.1\sigma)$	χ_{prior}^2	2.1	$7.7 (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_m h^3$	0.0969	$0.097^{+0.012}_{-0.012} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4516	$0.4527^{+0.0085}_{-0.0078} \quad (-0.1\sigma)$	χ_{BAO}^2	5.18	$6.0 (\nu: 0.6) \quad (+0.0\sigma)$
σ_8	0.8220	$0.809^{+0.040}_{-0.048} \quad (-0.2\sigma)$	$H(0.15)$	73.47	$73.3^{+3.7}_{-3.7} \quad (-0.2\sigma)$	χ_{CMB}^2	7469.3	$7484.8 (\nu: 16.3) \quad (+1092.7\sigma)$
S_8	0.8285	$0.820^{+0.046}_{-0.048} \quad (-0.1\sigma)$	$D_M(0.15)$	635.7	$638^{+35}_{-32} \quad (+0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 8511.44$; $\Delta\chi_{\text{eff}}^2 = 6292.17$; $\bar{\chi}_{\text{eff}}^2 = 8533.53$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.04$; $R - 1 = 0.00839$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.68 (Δ 0.20) DR12BAO: 3.50 (Δ -0.28) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ -0.01) commander_dx12_v3_2_29: 22.77 (Δ -0.45) CamSpec like_10.7HM: 7050.67 SN - JLA Pantheon18: 1034.80 (Δ -0.07)

9.21 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02221^{+0.00057}_{-0.00056} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4537	$0.449^{+0.025}_{-0.027} \quad (-0.1\sigma)$	$H(0.38)$	82.82	$82.8^{+3.2}_{-3.1} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1184	$0.1185^{+0.0085}_{-0.0080} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6092	$0.602^{+0.029}_{-0.034} \quad (-0.1\sigma)$	$D_M(0.38)$	1531	$1532^{+65}_{-62} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04116	$1.0411^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9949	$0.981^{+0.041}_{-0.054} \quad (-0.1\sigma)$	$H(0.51)$	89.47	$89.5^{+3.2}_{-3.2} \quad (-0.2\sigma)$
τ	0.0531	$0.054^{+0.021}_{-0.021} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.10	$99.8^{+2.6}_{-2.7} \quad (-0.0\sigma)$	$D_M(0.51)$	1984	$1985^{+82}_{-78} \quad (+0.2\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.001	$< 0.229 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.441	$2.425^{+0.079}_{-0.086} \quad (-0.1\sigma)$	$H(0.61)$	95.04	$95.1^{+3.3}_{-3.3} \quad (-0.2\sigma)$
N_{eff}	2.982	$3.02^{+0.49}_{-0.47} \quad (-0.2\sigma)$	z_{re}	7.56	$7.6^{+2.0}_{-2.3} \quad (+0.0\sigma)$	$D_M(0.61)$	2309	$2310^{+93}_{-89} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.0354	$3.037^{+0.049}_{-0.049} \quad (-0.1\sigma)$	$10^9 A_s$	2.081	$2.08^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$H(2.33)$	234.8	$235.3^{+7.4}_{-7.1} \quad (-0.2\sigma)$
n_s	0.9643	$0.966^{+0.019}_{-0.019} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8713	$1.873^{+0.047}_{-0.049} \quad (-0.3\sigma)$	$D_M(2.33)$	5782	$5777^{+200}_{-190} \quad (+0.2\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	1226.0	$1223^{+37}_{-37} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4578	$0.454^{+0.024}_{-0.025} \quad (-0.1\sigma)$
A_{100}^{PS}	238	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	5705	$5709^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7561	$0.745^{+0.034}_{-0.045} \quad (-0.2\sigma)$
A_{143}^{PS}	38	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2531.0	$2533^{+35}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4770	$0.472^{+0.023}_{-0.025} \quad (-0.1\sigma)$
A_{217}^{PS}	99.4	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	814.7	$815^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6705	$0.661^{+0.031}_{-0.040} \quad (-0.2\sigma)$
A_{217}^{CIB}	44.4	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.1	$230.1^{+5.5}_{-5.4} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4760	$0.471^{+0.022}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{tSZ}	5.35	$< 8.68 \quad (-0.6\sigma)$	$n_{s,0.002}$	0.9643	$0.966^{+0.019}_{-0.019} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	0.6275	$0.619^{+0.029}_{-0.038} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.573	$0.65^{+0.32}_{-0.35}$	Y_P	0.2445	$0.2449^{+0.0066}_{-0.0066} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4713	$0.466^{+0.021}_{-0.025} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.70	—	Y_P^{BBN}	0.2458	$0.2463^{+0.0066}_{-0.0066} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5971	$0.589^{+0.028}_{-0.036} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.05	—	10^5D/H	2.602	$2.61^{+0.16}_{-0.15} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3002	$0.297^{+0.013}_{-0.016} \quad (-0.2\sigma)$
A^{kSZ}	1.8	—	Age/Gyr	13.842	$13.83^{+0.48}_{-0.46} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3102	$0.306^{+0.015}_{-0.018} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	z_*	1089.97	$1090.0^{+1.1}_{-1.1} \quad (-0.2\sigma)$	f_{2000}^{143}	30.3	$30^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	0.981	$0.98^{+0.45}_{-0.46}$	r_*	145.33	$145.1^{+4.8}_{-4.6} \quad (+0.2\sigma)$	f_{2000}^{217}	106.9	$107.2^{+6.0}_{-6.0} \quad (-0.4\sigma)$
A_{217}^{dust}	0.956	$0.97^{+0.28}_{-0.26}$	$100\theta_*$	1.04137	$1.0413^{+0.0016}_{-0.0016} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.2	$33^{+6}_{-6} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.003	$1.03^{+0.41}_{-0.43}$	$D_M(z_*)/\text{Gpc}$	13.956	$13.94^{+0.44}_{-0.43} \quad (+0.2\sigma)$	χ_{simall}^2	395.88	$397.0 \quad (\nu: 1.5) \quad (-0.0\sigma)$
c_{100}	0.99744	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	1059.28	$1059.4^{+1.9}_{-2.0} \quad (-0.1\sigma)$	χ_{lowl}^2	23.28	$23.0 \quad (\nu: 0.7) \quad (-0.1\sigma)$
c_{217}	1.00128	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	148.08	$147.8^{+4.9}_{-4.8} \quad (+0.2\sigma)$	χ_{CamSpec}^2	7050.0	$7064.4 \quad (\nu: 16.3)$
H_0	67.60	$67.5^{+3.1}_{-3.0} \quad (-0.2\sigma)$	k_D	0.13992	$0.1401^{+0.0035}_{-0.0036} \quad (-0.2\sigma)$	χ_{Aver15}^2	0.05	$0.52 \quad (\nu: 0.3) \quad (-0.1\sigma)$
Ω_Λ	0.6924	$0.690^{+0.020}_{-0.022} \quad (-0.0\sigma)$	$100\theta_D$	0.16089	$0.1610^{+0.0013}_{-0.0013} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.006	$0.063 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	0.3076	$0.310^{+0.022}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	3388	$3375^{+83}_{-86} \quad (+0.0\sigma)$	χ_{MGS}^2	1.47	$1.38 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_m h^2$	0.1406	$0.1414^{+0.0089}_{-0.0084} \quad (-0.2\sigma)$	k_{eq}	0.010296	$0.01028^{+0.00034}_{-0.00033} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	3.76	$4.8 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_\nu h^2$	0.00001	$< 0.00244 \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	0.8154	$0.818^{+0.016}_{-0.015} \quad (-0.0\sigma)$	χ_{prior}^2	2.2	$7.7 \quad (\nu: 6.0) \quad (+0.1\sigma)$
$\Omega_m h^3$	0.0950	$0.0955^{+0.0097}_{-0.0090} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4506	$0.4519^{+0.0084}_{-0.0079} \quad (-0.0\sigma)$	χ_{BAO}^2	5.23	$6.2 \quad (\nu: 1.0) \quad (+0.0\sigma)$
σ_8	0.8180	$0.806^{+0.037}_{-0.048} \quad (-0.2\sigma)$	$H(0.15)$	72.82	$72.8^{+3.1}_{-3.0} \quad (-0.2\sigma)$	χ_{CMB}^2	7469.2	$7484.4 \quad (\nu: 15.7) \quad (+1117.4\sigma)$
S_8	0.8283	$0.820^{+0.046}_{-0.049} \quad (-0.1\sigma)$	$D_M(0.15)$	641.6	$642^{+29}_{-27} \quad (+0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 7476.67$; $\Delta\chi_{\text{eff}}^2 = 6292.21$; $\bar{\chi}_{\text{eff}}^2 = 7498.80$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.04$; $R - 1 = 0.00899$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.05 (Δ 0.00) BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.47 (Δ 0.00) DR12BAO: 3.76 (Δ -0.00) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ 0.03) commander_dx12_v3_2.29: 23.28 (Δ -0.04) CamSpec like_10.7HM: 7050.02

9.22 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02220^{+0.00056}_{-0.00057} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6102	$0.602^{+0.029}_{-0.035} \quad (-0.1\sigma)$	$H(0.51)$	89.46	$89.6^{+3.0}_{-3.0} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1185	$0.1186^{+0.0077}_{-0.0074} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9962	$0.982^{+0.041}_{-0.055} \quad (-0.1\sigma)$	$D_M(0.51)$	1985	$1984^{+79}_{-74} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04111	$1.0411^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$r_{drag} h$	99.99	$99.8^{+2.6}_{-2.6} \quad (-0.0\sigma)$	$H(0.61)$	95.03	$95.2^{+3.1}_{-3.1} \quad (-0.2\sigma)$
τ	0.0530	$0.053^{+0.021}_{-0.022} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.445	$2.425^{+0.079}_{-0.086} \quad (-0.1\sigma)$	$D_M(0.61)$	2310	$2309^{+90}_{-84} \quad (+0.1\sigma)$
Σm_ν [eV]	0.002	$< 0.229 \quad (+0.0\sigma)$	z_{re}	7.55	$7.6^{+2.0}_{-2.3} \quad (+0.0\sigma)$	$H(2.33)$	234.9	$235.4^{+6.7}_{-6.5} \quad (-0.2\sigma)$
N_{eff}	2.983	$3.03^{+0.44}_{-0.44} \quad (-0.2\sigma)$	$10^9 A_s$	2.084	$2.08^{+0.10}_{-0.099} \quad (-0.1\sigma)$	$D_M(2.33)$	5782	$5774^{+190}_{-180} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.0367	$3.037^{+0.048}_{-0.049} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8742	$1.873^{+0.045}_{-0.046} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4588	$0.454^{+0.023}_{-0.025} \quad (-0.1\sigma)$
n_s	0.9642	$0.967^{+0.018}_{-0.019} \quad (+0.0\sigma)$	D_{40}	1227.8	$1223^{+36}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7568	$0.746^{+0.033}_{-0.045} \quad (-0.1\sigma)$
y_{cal}	1.0006	$1.0005^{+0.0064}_{-0.0063} \quad (-0.0\sigma)$	D_{220}	5712	$5709^{+100}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4779	$0.473^{+0.022}_{-0.025} \quad (-0.1\sigma)$
A_{100}^{PS}	234	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{810}	2534.3	$2533^{+35}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6710	$0.661^{+0.030}_{-0.040} \quad (-0.1\sigma)$
A_{143}^{PS}	45.4	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	815.8	$815^{+13}_{-13} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	0.4768	$0.471^{+0.021}_{-0.025} \quad (-0.1\sigma)$
A_{217}^{PS}	103.4	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	230.5	$230.0^{+5.1}_{-4.9} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6280	$0.619^{+0.028}_{-0.038} \quad (-0.1\sigma)$
A_{217}^{CIB}	41.7	$41^{+20}_{-20} \quad (-1.1\sigma)$	$n_{s,0.002}$	0.9642	$0.967^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	0.4719	$0.467^{+0.020}_{-0.025} \quad (-0.1\sigma)$
A_{143}^{tSZ}	5.45	$< 8.67 \quad (-0.7\sigma)$	Y_P	0.2445	$0.2450^{+0.0059}_{-0.0062} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5975	$0.589^{+0.027}_{-0.036} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	0.695	$0.65^{+0.32}_{-0.35}$	Y_P^{BBN}	0.2458	$0.2464^{+0.0059}_{-0.0062} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3004	$0.297^{+0.013}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	0.76	—	$10^5 D/H$	2.600	$2.61^{+0.13}_{-0.13} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	0.3103	$0.306^{+0.014}_{-0.018} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	0.63	—	Age/Gyr	13.842	$13.82^{+0.45}_{-0.43} \quad (+0.2\sigma)$	f_{2000}^{143}	29.9	$30^{+8}_{-8} \quad (-0.2\sigma)$
A^{kSZ}	2.1	—	z_*	1089.97	$1089.99^{+0.95}_{-0.96} \quad (-0.2\sigma)$	f_{2000}^{217}	106.8	$107.3^{+5.6}_{-5.6} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	r_*	145.28	$145.0^{+4.4}_{-4.2} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.2	$33^{+6}_{-6} \quad (-0.4\sigma)$
A_{143}^{dust}	0.984	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	1.04132	$1.0413^{+0.0015}_{-0.0014} \quad (+0.2\sigma)$	χ_{small}^2	395.86	$397.0 \quad (\nu: 1.4) \quad (-0.0\sigma)$
A_{217}^{dust}	0.975	$0.97^{+0.28}_{-0.26}$	$D_M(z_*)/\text{Gpc}$	13.952	$13.93^{+0.41}_{-0.39} \quad (+0.2\sigma)$	χ_{lowl}^2	23.35	$23.0 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$A_{143 \times 217}^{dust}$	1.017	$1.03^{+0.41}_{-0.43}$	z_{drag}	1059.32	$1059.4^{+1.9}_{-1.9} \quad (-0.1\sigma)$	$\chi_{CamSpec}^2$	7050.2	$7064.2 \quad (\nu: 15.9)$
c_{100}	0.99769	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	148.02	$147.8^{+4.6}_{-4.4} \quad (+0.2\sigma)$	χ_{Aver15}^2	0.05	$0.47 \quad (\nu: 0.2) \quad (-0.1\sigma)$
c_{217}	1.00127	$1.0012^{+0.0040}_{-0.0039} \quad (+4.7\sigma)$	k_D	0.13998	$0.1401^{+0.0033}_{-0.0034} \quad (-0.2\sigma)$	$\chi_{Cooke17}^2$	0.04	$0.29 \quad (\nu: 0.1) \quad (+0.0\sigma)$
H_0	67.55	$67.6^{+2.9}_{-2.9} \quad (-0.1\sigma)$	$100\theta_D$	0.16086	$0.1610^{+0.0011}_{-0.0011} \quad (-0.2\sigma)$	χ_{6DF}^2	0.010	$0.063 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_Λ	0.6916	$0.690^{+0.020}_{-0.022} \quad (-0.0\sigma)$	z_{eq}	3391	$3375^{+83}_{-85} \quad (+0.0\sigma)$	χ_{MGS}^2	1.41	$1.39 \quad (\nu: 0.2) \quad (-0.0\sigma)$
Ω_m	0.3084	$0.310^{+0.022}_{-0.020} \quad (+0.0\sigma)$	k_{eq}	0.010306	$0.01028^{+0.00033}_{-0.00031} \quad (-0.1\sigma)$	$\chi_{DR12BAO}^2$	3.89	$4.8 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_m h^2$	0.1407	$0.1415^{+0.0081}_{-0.0079} \quad (-0.2\sigma)$	$100\theta_{eq}$	0.8148	$0.818^{+0.016}_{-0.015} \quad (-0.0\sigma)$	χ_{prior}^2	2.0	$7.7 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_\nu h^2$	0.00002	$< 0.00243 \quad (+0.0\sigma)$	$100\theta_{s,eq}$	0.4503	$0.4519^{+0.0083}_{-0.0078} \quad (-0.0\sigma)$	χ_{BAO}^2	5.30	$6.2 \quad (\nu: 1.0) \quad (+0.0\sigma)$
$\Omega_m h^3$	0.0951	$0.0956^{+0.0089}_{-0.0085} \quad (-0.2\sigma)$	$H(0.15)$	72.78	$72.8^{+2.9}_{-2.9} \quad (-0.1\sigma)$	χ_{CMB}^2	7469.4	$7484.2 \quad (\nu: 15.3) \quad (+1131.3\sigma)$
σ_8	0.8188	$0.807^{+0.036}_{-0.048} \quad (-0.1\sigma)$	$D_M(0.15)$	642.0	$642^{+28}_{-26} \quad (+0.1\sigma)$	χ_{Abund}^2	0.09	$0.76 \quad (\nu: 0.4) \quad (-0.1\sigma)$
S_8	0.8302	$0.820^{+0.044}_{-0.048} \quad (-0.1\sigma)$	$H(0.38)$	82.80	$82.9^{+3.0}_{-3.0} \quad (-0.1\sigma)$			
$\sigma_8 \Omega_m^{0.5}$	0.4547	$0.449^{+0.024}_{-0.026} \quad (-0.1\sigma)$	$D_M(0.38)$	1532	$1531^{+62}_{-59} \quad (+0.1\sigma)$			

Best-fit $\chi_{eff}^2 = 7476.77$; $\Delta\chi_{eff}^2 = 6292.26$; $\bar{\chi}_{eff}^2 = 7498.82$; $\Delta\bar{\chi}_{eff}^2 = 6292.07$; $R - 1 = 0.00839$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.05 (Δ -0.04) D_Cooke2017: 0.04 (Δ 0.02) BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ 0.00) DR12BAO: 3.88 (Δ -0.01) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.86 (Δ -0.08) commander_dx12_v3.2.29: 23.35 (Δ 0.02) CamSpec like_10.7HM: 7050.16

9.23 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02227^{+0.00060}_{-0.00059} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.025}_{-0.026} \quad (-0.1\sigma)$	$H(0.38)$	$83.4^{+3.9}_{-3.9} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.120^{+0.011}_{-0.010} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.030}_{-0.035} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+79}_{-73} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0015}_{-0.0015} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.040}_{-0.055} \quad (-0.1\sigma)$	$H(0.51)$	$90.1^{+4.0}_{-4.1} \quad (-0.2\sigma)$
τ	$0.055^{+0.019}_{-0.014} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.1^{+2.5}_{-2.5} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1971^{+100}_{-93} \quad (+0.2\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	$< 0.239 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.078}_{-0.083} \quad (-0.1\sigma)$	$H(0.61)$	$95.7^{+4.1}_{-4.2} \quad (-0.2\sigma)$
N_{eff}	$3.10^{+0.62}_{-0.60} \quad (-0.2\sigma)$	z_{re}	$< 9.56 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2294^{+120}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.050}_{-0.042} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.11}_{-0.087} \quad (-0.2\sigma)$	$H(2.33)$	$236.4^{+8.9}_{-9.0} \quad (-0.2\sigma)$
n_{s}	$0.970^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.056}_{-0.059} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5742^{+260}_{-230} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	$1220^{+39}_{-39} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.024}_{-0.025} \quad (-0.2\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5709^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.037}_{-0.045} \quad (-0.2\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.023}_{-0.026} \quad (-0.2\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.033}_{-0.040} \quad (-0.2\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.6^{+6.1}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.022}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.71 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.970^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.031}_{-0.038} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.34}$	Y_{P}	$0.2461^{+0.0081}_{-0.0085} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.022}_{-0.025} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2474^{+0.0081}_{-0.0085} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.030}_{-0.036} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.18}_{-0.18} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.299^{+0.015}_{-0.017} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.75^{+0.61}_{-0.55} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.016}_{-0.019} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	z_*	$1090.1^{+1.3}_{-1.3} \quad (-0.2\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.46}$	r_*	$144.4^{+6.1}_{-5.6} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.6^{+6.2}_{-6.4} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	$1.0411^{+0.0019}_{-0.0018} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.57}_{-0.52} \quad (+0.2\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.6) \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.7^{+2.1}_{-2.3} \quad (-0.2\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.7) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	$147.1^{+6.3}_{-5.8} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.9 \quad (\nu: 16.7)$
H_0	$68.1^{+3.7}_{-3.6} \quad (-0.2\sigma)$	k_{D}	$0.1406^{+0.0043}_{-0.0045} \quad (-0.2\sigma)$	χ_{JLA}^2	$1035.02 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{Λ}	$0.692^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0015}_{-0.0016} \quad (-0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.308^{+0.020}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3366^{+83}_{-86} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.54 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.143^{+0.011}_{-0.011} \quad (-0.2\sigma)$	k_{eq}	$0.01031^{+0.00039}_{-0.00037} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 \quad (\nu: 0.9) \quad (+0.0\sigma)$
$\Omega_{\nu} h^2$	$< 0.00257 \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.017}_{-0.015} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.097^{+0.012}_{-0.012} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4528^{+0.0084}_{-0.0078} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (+0.0\sigma)$
σ_8	$0.810^{+0.040}_{-0.049} \quad (-0.2\sigma)$	$H(0.15)$	$73.3^{+3.7}_{-3.7} \quad (-0.2\sigma)$	χ_{CMB}^2	$7484.6 \quad (\nu: 15.9) \quad (+1106.9\sigma)$
S_8	$0.821^{+0.046}_{-0.048} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+35}_{-32} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8533.27; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.03; R - 1 = 0.00802$$

9.24 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02230^{+0.00050}_{-0.00052} \quad (-0.4\sigma)$	σ_8	0.8138	$0.806^{+0.036}_{-0.044} \quad (-0.4\sigma)$	$H(0.15)$	72.47	$72.7^{+3.6}_{-3.3} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.1169	$0.1181^{+0.0090}_{-0.0088} \quad (-0.1\sigma)$	S_8	0.8240	$0.819^{+0.037}_{-0.040} \quad (-0.5\sigma)$	$D_M(0.15)$	644.7	$643^{+32}_{-31} \quad (-0.0\sigma)$
$100\theta_{MC}$	1.04122	$1.0411^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4513	$0.449^{+0.020}_{-0.022} \quad (-0.5\sigma)$	$H(0.38)$	82.42	$82.7^{+3.6}_{-3.5} \quad (-0.0\sigma)$
τ	0.0531	$0.053^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6060	$0.601^{+0.025}_{-0.030} \quad (-0.5\sigma)$	$D_M(0.38)$	1539	$1534^{+73}_{-71} \quad (-0.0\sigma)$
Σm_ν [eV]	0.002	$< 0.211 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9922	$0.981^{+0.034}_{-0.048} \quad (-0.5\sigma)$	$H(0.51)$	89.04	$89.4^{+3.7}_{-3.6} \quad (-0.0\sigma)$
N_{eff}	2.90	$2.99^{+0.56}_{-0.52} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	100.10	$99.8^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_M(0.51)$	1994	$1988^{+92}_{-90} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	3.033	$3.036^{+0.051}_{-0.049} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.426^{+0.073}_{-0.078} \quad (-0.6\sigma)$	$H(0.61)$	94.58	$95.0^{+3.9}_{-3.7} \quad (-0.0\sigma)$
n_s	0.9633	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	z_{re}	7.51	$7.5^{+2.2}_{-2.2} \quad (-0.2\sigma)$	$D_M(0.61)$	2320	$2313^{+100}_{-100} \quad (-0.0\sigma)$
y_{cal}	1.0004	$1.0005^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_s$	2.075	$2.08^{+0.11}_{-0.099} \quad (-0.3\sigma)$	$H(2.33)$	233.6	$235.1^{+8.0}_{-7.9} \quad (-0.1\sigma)$
A_{100}^{PS}	227	$238^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_s e^{-2\tau}$	1.866	$1.872^{+0.050}_{-0.052} \quad (-0.2\sigma)$	$D_M(2.33)$	5810	$5784^{+230}_{-220} \quad (+0.0\sigma)$
A_{143}^{PS}	47.3	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	1227.0	$1226^{+37}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4555	$0.453^{+0.020}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	105.8	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{220}	5716	$5721^{+100}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7522	$0.745^{+0.034}_{-0.041} \quad (-0.4\sigma)$
A_{217}^{CIB}	40.9	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2533.4	$2534^{+36}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.472^{+0.019}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.33	$< 8.82 \quad (-0.8\sigma)$	D_{1420}	817.5	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6670	$0.660^{+0.031}_{-0.038} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.725	$0.66^{+0.31}_{-0.34}$	D_{2000}	231.6	$230.7^{+5.3}_{-5.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4736	$0.471^{+0.019}_{-0.022} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.85	—	$n_{s,0.002}$	0.9633	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6243	$0.618^{+0.029}_{-0.036} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.76	—	Y_P	0.2434	$0.2446^{+0.0075}_{-0.0074} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	0.4689	$0.466^{+0.019}_{-0.022} \quad (-0.4\sigma)$
A^{kSZ}	0.2	—	Y_P^{BBN}	0.2447	$0.2459^{+0.0075}_{-0.0074} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5941	$0.588^{+0.028}_{-0.034} \quad (-0.4\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.50}$	10^5D/H	2.560	$2.58^{+0.15}_{-0.14} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2987	$0.297^{+0.014}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{dust}	0.984	$0.96^{+0.46}_{-0.46}$	Age/Gyr	13.91	$13.85^{+0.54}_{-0.53} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	0.3086	$0.306^{+0.015}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{dust}	0.988	$0.98^{+0.27}_{-0.26}$	z_*	1089.67	$1089.8^{+1.0}_{-1.1} \quad (+0.2\sigma)$	f_{2000}^{143}	28.5	$29^{+9}_{-8} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.012	$1.02^{+0.41}_{-0.41}$	r_*	146.1	$145.3^{+5.3}_{-5.2} \quad (+0.0\sigma)$	f_{2000}^{217}	105.6	$106.5^{+5.8}_{-5.8} \quad (-0.0\sigma)$
c_{100}	0.99774	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04148	$1.0413^{+0.0016}_{-0.0015} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	30.9	$32^{+6}_{-6} \quad (+0.0\sigma)$
c_{217}	1.00116	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$D_M(z_*)/\text{Gpc}$	14.024	$13.95^{+0.50}_{-0.48} \quad (+0.1\sigma)$	χ_{small}^2	395.84	$396.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{TE}	0.9957	$0.997^{+0.013}_{-0.013}$	z_{drag}	1059.28	$1059.6^{+2.0}_{-2.0} \quad (-0.2\sigma)$	χ_{lowl}^2	23.33	$23.1 \quad (\nu: 0.7) \quad (-0.4\sigma)$
c_{EE}	0.9908	$0.992^{+0.014}_{-0.014}$	r_{drag}	148.8	$148.0^{+5.5}_{-5.4} \quad (+0.1\sigma)$	χ_{CamSpec}^2	11498.5	$11515.1 \quad (\nu: 18.1)$
H_0	67.27	$67.4^{+3.5}_{-3.3} \quad (+0.0\sigma)$	k_D	0.13954	$0.1401^{+0.0039}_{-0.0039} \quad (-0.1\sigma)$	$\chi_{6\text{DF}}^2$	0.006	$0.059 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_Λ	0.6924	$0.690^{+0.019}_{-0.020} \quad (+0.1\sigma)$	$100\theta_D$	0.16054	$0.1607^{+0.0013}_{-0.0013} \quad (+0.3\sigma)$	χ_{MGS}^2	1.47	$1.36 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_m	0.3076	$0.310^{+0.020}_{-0.019} \quad (-0.1\sigma)$	z_{eq}	3391	$3380^{+73}_{-74} \quad (-0.5\sigma)$	χ_{DR12BAO}^2	3.77	$4.8 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.1392	$0.1411^{+0.0096}_{-0.0092} \quad (-0.1\sigma)$	k_{eq}	0.010249	$0.01028^{+0.00033}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	2.0	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00002	$< 0.00225 \quad (+0.3\sigma)$	$100\theta_{\text{eq}}$	0.8151	$0.817^{+0.014}_{-0.014} \quad (+0.4\sigma)$	χ_{BAO}^2	5.25	$6.2 \quad (\nu: 0.9) \quad (-0.0\sigma)$
$\Omega_m h^3$	0.0936	$0.095^{+0.011}_{-0.010} \quad (-0.0\sigma)$	$100\theta_{s,\text{eq}}$	0.4504	$0.4514^{+0.0072}_{-0.0070} \quad (+0.5\sigma)$	χ_{CMB}^2	11917.7	$11935.2 \quad (\nu: 17.8) \quad (+1502.2\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11924.95$; $\Delta\chi_{\text{eff}}^2 = 9155.29$; $\bar{\chi}_{\text{eff}}^2 = 11949.25$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9151.08$; $R - 1 = 0.00978$
 χ_{eff}^2 : BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.47 (Δ 0.07) DR12BAO: 3.77 (Δ -0.15) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.84 (Δ -0.21) commander_dx12_v3_2_29: 23.33 (Δ -0.38) CamSpec like_10.7HM_1400_unified: 11498.54

9.25 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022281	$0.02232^{+0.00048}_{-0.00050} \quad (-0.4\sigma)$	S_8	0.8234	$0.818^{+0.037}_{-0.039} \quad (-0.5\sigma)$	$H(0.38)$	82.67	$82.9^{+3.5}_{-3.4} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.1174	$0.1183^{+0.0090}_{-0.0089} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4510	$0.448^{+0.020}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.38)$	1533	$1531^{+69}_{-68} \quad (-0.0\sigma)$
$100\theta_{MC}$	1.04116	$1.0411^{+0.0013}_{-0.0012} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6061	$0.601^{+0.025}_{-0.029} \quad (-0.5\sigma)$	$H(0.51)$	89.30	$89.6^{+3.6}_{-3.5} \quad (+0.0\sigma)$
τ	0.0525	$0.053^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9914	$0.981^{+0.034}_{-0.047} \quad (-0.5\sigma)$	$D_M(0.51)$	1987	$1984^{+88}_{-86} \quad (-0.0\sigma)$
Σm_ν [eV]	0.000	$< 0.206 \quad (+0.3\sigma)$	$r_{drag} h$	100.22	$99.9^{+2.4}_{-2.3} \quad (+0.1\sigma)$	$H(0.61)$	94.84	$95.1^{+3.7}_{-3.7} \quad (+0.0\sigma)$
N_{eff}	2.94	$3.01^{+0.54}_{-0.52} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.436	$2.424^{+0.071}_{-0.076} \quad (-0.6\sigma)$	$D_M(0.61)$	2313	$2309^{+100}_{-99} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	3.033	$3.037^{+0.051}_{-0.049} \quad (-0.3\sigma)$	z_{re}	7.45	$7.6^{+2.2}_{-2.2} \quad (-0.2\sigma)$	$H(2.33)$	234.1	$235.2^{+8.0}_{-7.9} \quad (-0.0\sigma)$
n_s	0.9640	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	$10^9 A_s$	2.076	$2.08^{+0.11}_{-0.10} \quad (-0.3\sigma)$	$D_M(2.33)$	5794	$5776^{+230}_{-220} \quad (+0.0\sigma)$
y_{cal}	1.0004	$1.0006^{+0.0063}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.869	$1.872^{+0.050}_{-0.051} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4552	$0.453^{+0.019}_{-0.021} \quad (-0.5\sigma)$
A_{100}^{PS}	229	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1226.8	$1225^{+37}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7531	$0.746^{+0.034}_{-0.040} \quad (-0.4\sigma)$
A_{143}^{PS}	43.1	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5722^{+99}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.472^{+0.019}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	104.4	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2533.7	$2534^{+36}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6679	$0.661^{+0.030}_{-0.036} \quad (-0.4\sigma)$
A_{217}^{CIB}	42.2	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	817.1	$816^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4737	$0.471^{+0.019}_{-0.021} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.53	$< 8.85 \quad (-0.8\sigma)$	D_{2000}	231.3	$230.7^{+5.3}_{-5.4} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6251	$0.619^{+0.029}_{-0.034} \quad (-0.4\sigma)$
$r_{143 \times 217}^{PS}$	0.675	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.9640	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4691	$0.466^{+0.019}_{-0.021} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.80	—	Y_P	0.2439	$0.2448^{+0.0073}_{-0.0074} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	0.5949	$0.589^{+0.028}_{-0.033} \quad (-0.4\sigma)$
$\xi^{tSZ \times CIB}$	0.45	—	Y_P^{BBN}	0.2452	$0.2461^{+0.0073}_{-0.0074} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2992	$0.297^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.565	$2.58^{+0.15}_{-0.15} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3091	$0.306^{+0.015}_{-0.017} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	Age/Gyr	13.87	$13.83^{+0.54}_{-0.51} \quad (+0.0\sigma)$	f_{2000}^{143}	28.8	$29^{+9}_{-9} \quad (+0.1\sigma)$
A_{143}^{dust}	0.974	$0.96^{+0.45}_{-0.46}$	z_*	1089.70	$1089.8^{+1.0}_{-1.1} \quad (+0.2\sigma)$	f_{2000}^{217}	105.9	$106.6^{+5.7}_{-5.8} \quad (+0.0\sigma)$
A_{217}^{dust}	0.980	$0.98^{+0.27}_{-0.26}$	r_*	145.7	$145.2^{+5.3}_{-5.1} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	31.2	$32^{+6}_{-6} \quad (+0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	1.04140	$1.0413^{+0.0016}_{-0.0015} \quad (-0.1\sigma)$	χ_{small}^2	395.79	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{100}	0.99775	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.993	$13.94^{+0.49}_{-0.47} \quad (+0.0\sigma)$	χ_{lowl}^2	23.28	$23.0 \quad (\nu: 0.7) \quad (-0.4\sigma)$
c_{217}	1.00120	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	1059.44	$1059.6^{+2.0}_{-1.9} \quad (-0.2\sigma)$	$\chi_{CamSpec}^2$	11498.6	$11515.2 \quad (\nu: 18.1)$
c_{TE}	0.9957	$0.997^{+0.013}_{-0.013}$	r_{drag}	148.4	$147.9^{+5.5}_{-5.3} \quad (+0.0\sigma)$	χ_{JLA}^2	1034.85	$1035.05 \quad (\nu: 0.1) \quad (-0.1\sigma)$
c_{EE}	0.9909	$0.992^{+0.014}_{-0.014}$	k_D	0.13981	$0.1402^{+0.0039}_{-0.0038} \quad (-0.1\sigma)$	χ_{6DF}^2	0.003	$0.047 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	67.52	$67.6^{+3.4}_{-3.2} \quad (+0.0\sigma)$	$100\theta_D$	0.16059	$0.1608^{+0.0013}_{-0.0013} \quad (+0.4\sigma)$	χ_{MGS}^2	1.54	$1.44 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_Λ	0.6935	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	3388	$3377^{+70}_{-71} \quad (-0.5\sigma)$	$\chi_{DR12BAO}^2$	3.67	$4.5 \quad (\nu: 0.9) \quad (-0.1\sigma)$
Ω_m	0.3065	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	0.010265	$0.01028^{+0.00033}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	2.0	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.1397	$0.1412^{+0.0096}_{-0.0092} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8156	$0.818^{+0.014}_{-0.013} \quad (+0.5\sigma)$	χ_{BAO}^2	5.21	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$
$\Omega_\nu h^2$	0.00000	$< 0.00218 \quad (+0.3\sigma)$	$100\theta_{s,eq}$	0.4507	$0.4518^{+0.0069}_{-0.0067} \quad (+0.5\sigma)$	χ_{CMB}^2	11917.7	$11935.2 \quad (\nu: 17.9) \quad (+1498.4\sigma)$
$\Omega_m h^3$	0.0943	$0.095^{+0.011}_{-0.010} \quad (-0.0\sigma)$	$H(0.15)$	72.71	$72.8^{+3.4}_{-3.2} \quad (+0.0\sigma)$			
σ_8	0.8146	$0.807^{+0.036}_{-0.043} \quad (-0.4\sigma)$	$D_M(0.15)$	642.5	$642^{+31}_{-30} \quad (-0.0\sigma)$			

Best-fit $\chi_{eff}^2 = 12959.81$; $\Delta\chi_{eff}^2 = 9155.27$; $\bar{\chi}_{eff}^2 = 12984.10$; $\Delta\bar{\chi}_{eff}^2 = 9151.00$; $R - 1 = 0.01027$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.01) MGS: 1.54 (Δ 0.13) DR12BAO: 3.67 (Δ -0.25) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.79 (Δ -0.07) commander_dx12_v3_2_29: 23.28 (Δ -0.31) CamSpec like_10.7HM_1400_unified: 11498.65 SN - JLA Pantheon18: 1034.85 (Δ -0.06)

9.26 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022260	$0.02228^{+0.00046}_{-0.00048} \quad (-0.4\sigma)$	S_8	0.8258	$0.819^{+0.037}_{-0.039} \quad (-0.5\sigma)$	$H(0.38)$	82.46	$82.6^{+2.9}_{-2.8} \quad (-0.0\sigma)$
$\Omega_c h^2$	0.1173	$0.1177^{+0.0076}_{-0.0070} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4523	$0.448^{+0.020}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.38)$	1538	$1537^{+59}_{-58} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04116	$1.0411^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6070	$0.601^{+0.024}_{-0.029} \quad (-0.5\sigma)$	$H(0.51)$	89.09	$89.2^{+3.0}_{-2.9} \quad (-0.0\sigma)$
τ	0.0529	$0.053^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9931	$0.981^{+0.034}_{-0.048} \quad (-0.5\sigma)$	$D_M(0.51)$	1993	$1991^{+75}_{-74} \quad (+0.0\sigma)$
Σm_ν [eV]	0.003	$< 0.209 \quad (+0.3\sigma)$	$r_{\text{drag}} h$	99.99	$99.7^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	94.64	$94.8^{+3.1}_{-3.0} \quad (-0.1\sigma)$
N_{eff}	2.915	$2.97^{+0.45}_{-0.42} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.427^{+0.072}_{-0.076} \quad (-0.6\sigma)$	$D_M(0.61)$	2320	$2317^{+85}_{-84} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0333	$3.035^{+0.048}_{-0.046} \quad (-0.4\sigma)$	z_{re}	7.49	$7.5^{+2.1}_{-2.2} \quad (-0.2\sigma)$	$H(2.33)$	233.9	$234.7^{+6.6}_{-6.3} \quad (-0.1\sigma)$
n_s	0.9630	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$10^9 A_s$	2.077	$2.08^{+0.10}_{-0.094} \quad (-0.3\sigma)$	$D_M(2.33)$	5806	$5794^{+180}_{-180} \quad (+0.1\sigma)$
y_{cal}	1.0004	$1.0006^{+0.0063}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8682	$1.870^{+0.044}_{-0.044} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4564	$0.453^{+0.019}_{-0.020} \quad (-0.5\sigma)$
A_{100}^{PS}	228	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1228.6	$1226^{+36}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7529	$0.744^{+0.031}_{-0.040} \quad (-0.4\sigma)$
A_{143}^{PS}	44.6	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5721^{+100}_{-96} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4754	$0.471^{+0.019}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	104.8	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	2534.0	$2533^{+36}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6675	$0.659^{+0.028}_{-0.036} \quad (-0.4\sigma)$
A_{217}^{CIB}	41.7	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	817.4	$817^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4743	$0.470^{+0.018}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.48	$< 8.84 \quad (-0.8\sigma)$	D_{2000}	231.5	$230.9^{+4.9}_{-5.1} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6248	$0.617^{+0.026}_{-0.034} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.700	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.9630	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4695	$0.465^{+0.018}_{-0.021} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.82	—	Y_P	0.2436	$0.2443^{+0.0060}_{-0.0060} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5945	$0.587^{+0.025}_{-0.033} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.59	—	Y_P^{BBN}	0.2449	$0.2456^{+0.0060}_{-0.0060} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	0.2989	$0.296^{+0.012}_{-0.015} \quad (-0.4\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.561	$2.57^{+0.13}_{-0.12} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3087	$0.305^{+0.014}_{-0.017} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	Age/Gyr	13.899	$13.87^{+0.43}_{-0.43} \quad (+0.1\sigma)$	f_{2000}^{143}	28.5	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	0.973	$0.96^{+0.45}_{-0.46}$	z_*	1089.68	$1089.75^{+0.94}_{-0.93} \quad (+0.2\sigma)$	f_{2000}^{217}	105.6	$106.4^{+5.6}_{-5.5} \quad (-0.0\sigma)$
A_{217}^{dust}	0.981	$0.98^{+0.27}_{-0.26}$	r_*	145.90	$145.5^{+4.3}_{-4.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	30.9	$32^{+6}_{-6} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.006	$1.02^{+0.41}_{-0.41}$	$100\theta_*$	1.04141	$1.0414^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	χ_{small}^2	395.83	$396.9 (\nu: 1.5) \quad (-0.1\sigma)$
c_{100}	0.99779	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	14.010	$13.97^{+0.40}_{-0.39} \quad (+0.1\sigma)$	χ_{lowl}^2	23.45	$23.2 (\nu: 0.6) \quad (-0.4\sigma)$
c_{217}	1.00120	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	1059.36	$1059.5^{+1.7}_{-1.7} \quad (-0.3\sigma)$	χ_{CamSpec}^2	11498.3	$11514.7 (\nu: 17.3)$
c_{TE}	0.9955	$0.996^{+0.013}_{-0.013}$	r_{drag}	148.62	$148.2^{+4.4}_{-4.4} \quad (+0.1\sigma)$	χ_{Aver15}^2	0.00	$0.37 (\nu: 0.1) \quad (+0.1\sigma)$
c_{EE}	0.9906	$0.992^{+0.014}_{-0.014}$	k_D	0.13968	$0.1399^{+0.0032}_{-0.0031} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.010	$0.060 (\nu: 0.0) \quad (-0.0\sigma)$
H_0	67.28	$67.3^{+2.9}_{-2.8} \quad (-0.0\sigma)$	$100\theta_D$	0.16053	$0.1607^{+0.0011}_{-0.0011} \quad (+0.3\sigma)$	χ_{MGS}^2	1.41	$1.33 (\nu: 0.1) \quad (+0.1\sigma)$
Ω_Λ	0.6917	$0.689^{+0.019}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	3394	$3382^{+70}_{-70} \quad (-0.5\sigma)$	χ_{DR12BAO}^2	3.90	$4.8 (\nu: 1.3) \quad (-0.1\sigma)$
Ω_m	0.3083	$0.311^{+0.020}_{-0.019} \quad (-0.1\sigma)$	k_{eq}	0.010268	$0.01027^{+0.00029}_{-0.00028} \quad (-0.3\sigma)$	χ_{prior}^2	2.0	$7.8 (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.1396	$0.1406^{+0.0080}_{-0.0074} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8144	$0.817^{+0.014}_{-0.013} \quad (+0.4\sigma)$	χ_{BAO}^2	5.31	$6.2 (\nu: 0.9) \quad (-0.0\sigma)$
$\Omega_\nu h^2$	0.00003	$< 0.00222 \quad (+0.3\sigma)$	$100\theta_{s,\text{eq}}$	0.4501	$0.4513^{+0.0069}_{-0.0067} \quad (+0.4\sigma)$	χ_{CMB}^2	11917.6	$11934.8 (\nu: 17.2) \quad (+1512.6\sigma)$
$\Omega_m h^3$	0.0939	$0.0947^{+0.0088}_{-0.0081} \quad (-0.1\sigma)$	$H(0.15)$	72.48	$72.5^{+2.9}_{-2.7} \quad (-0.0\sigma)$			
σ_8	0.8146	$0.805^{+0.033}_{-0.043} \quad (-0.4\sigma)$	$D_M(0.15)$	644.6	$644^{+26}_{-26} \quad (+0.0\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11924.93$; $\Delta\chi_{\text{eff}}^2 = 9155.42$; $\bar{\chi}_{\text{eff}}^2 = 11949.22$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9151.04$; $R - 1 = 0.01005$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.00 (Δ 0.00) BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.41 (Δ 0.06) DR12BAO: 3.90 (Δ -0.15) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.83 (Δ -0.22) commander_dx12_v3.2_29: 23.45 (Δ -0.19) CamSpec like_10.7HM_1400_unified: 11498.32

9.27 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022251	$0.02228^{+0.00046}_{-0.00047} \quad (-0.4\sigma)$	S_8	0.8282	$0.820^{+0.036}_{-0.040} \quad (-0.5\sigma)$	$H(0.38)$	82.70	$82.7^{+2.8}_{-2.7} \quad (-0.0\sigma)$
$\Omega_c h^2$	0.1181	$0.1182^{+0.0070}_{-0.0065} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.449^{+0.020}_{-0.022} \quad (-0.5\sigma)$	$D_M(0.38)$	1534	$1535^{+57}_{-56} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04108	$1.0410^{+0.0011}_{-0.0010} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6088	$0.601^{+0.024}_{-0.030} \quad (-0.5\sigma)$	$H(0.51)$	89.35	$89.4^{+2.9}_{-2.7} \quad (-0.1\sigma)$
τ	0.0531	$0.053^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9946	$0.981^{+0.034}_{-0.049} \quad (-0.5\sigma)$	$D_M(0.51)$	1987	$1988^{+72}_{-71} \quad (+0.0\sigma)$
Σm_ν [eV]	0.003	$< 0.211 \quad (+0.3\sigma)$	$r_{drag} h$	99.99	$99.7^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	94.92	$95.0^{+3.0}_{-2.8} \quad (-0.1\sigma)$
N_{eff}	2.959	$2.99^{+0.42}_{-0.39} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.427^{+0.073}_{-0.077} \quad (-0.6\sigma)$	$D_M(0.61)$	2313	$2313^{+82}_{-80} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0355	$3.036^{+0.048}_{-0.046} \quad (-0.4\sigma)$	z_{re}	7.53	$7.5^{+2.1}_{-2.3} \quad (-0.2\sigma)$	$H(2.33)$	234.6	$235.1^{+6.1}_{-5.8} \quad (-0.1\sigma)$
n_s	0.9642	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$10^9 A_s$	2.081	$2.08^{+0.10}_{-0.094} \quad (-0.4\sigma)$	$D_M(2.33)$	5789	$5784^{+170}_{-170} \quad (+0.1\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8715	$1.872^{+0.042}_{-0.042} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4578	$0.454^{+0.019}_{-0.021} \quad (-0.5\sigma)$
A_{100}^{PS}	230	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1226.9	$1226^{+36}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7552	$0.745^{+0.030}_{-0.041} \quad (-0.5\sigma)$
A_{143}^{PS}	44.4	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5715	$5720^{+100}_{-96} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4768	$0.472^{+0.018}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	103.9	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2533.7	$2534^{+36}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6695	$0.660^{+0.027}_{-0.037} \quad (-0.4\sigma)$
A_{217}^{CIB}	42.7	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	816.5	$816^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4757	$0.471^{+0.018}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.51	$< 8.82 \quad (-0.8\sigma)$	D_{2000}	231.02	$230.6^{+4.7}_{-4.8} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6266	$0.618^{+0.026}_{-0.035} \quad (-0.4\sigma)$
$r_{143 \times 217}^{PS}$	0.676	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.9642	$0.965^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4709	$0.466^{+0.017}_{-0.022} \quad (-0.5\sigma)$
$r_{143 \times 217}^{CIB}$	0.83	—	Y_P	0.2442	$0.2446^{+0.0056}_{-0.0056} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	0.5963	$0.588^{+0.024}_{-0.033} \quad (-0.4\sigma)$
$\xi^{tSZ \times CIB}$	0.49	—	Y_P^{BBN}	0.2455	$0.2459^{+0.0056}_{-0.0056} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	0.2998	$0.297^{+0.012}_{-0.015} \quad (-0.4\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.578	$2.58^{+0.11}_{-0.11} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3097	$0.306^{+0.013}_{-0.017} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	Age/Gyr	13.859	$13.85^{+0.40}_{-0.40} \quad (+0.1\sigma)$	f_{2000}^{143}	29.1	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	0.974	$0.96^{+0.45}_{-0.46}$	z_*	1089.81	$1089.81^{+0.84}_{-0.84} \quad (+0.2\sigma)$	f_{2000}^{217}	106.1	$106.6^{+5.5}_{-5.4} \quad (-0.0\sigma)$
A_{217}^{dust}	0.978	$0.98^{+0.28}_{-0.26}$	r_*	145.46	$145.3^{+3.9}_{-3.9} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	31.4	$32^{+6}_{-6} \quad (+0.0\sigma)$
$A_{143 \times 217}^{dust}$	1.000	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	1.04130	$1.0413^{+0.0013}_{-0.0012} \quad (-0.1\sigma)$	χ_{small}^2	395.85	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{100}	0.99775	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.970	$13.95^{+0.36}_{-0.36} \quad (+0.1\sigma)$	χ_{lowl}^2	23.31	$23.1 \quad (\nu: 0.6) \quad (-0.4\sigma)$
c_{217}	1.00127	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	1059.44	$1059.6^{+1.6}_{-1.6} \quad (-0.3\sigma)$	$\chi_{CamSpec}^2$	11498.5	$11514.7 \quad (\nu: 17.2)$
c_{TE}	0.9960	$0.997^{+0.013}_{-0.012}$	r_{drag}	148.18	$148.0^{+4.1}_{-4.1} \quad (+0.1\sigma)$	χ_{Aver15}^2	0.02	$0.36 \quad (\nu: 0.1) \quad (+0.1\sigma)$
c_{EE}	0.9914	$0.992^{+0.014}_{-0.013}$	k_D	0.13996	$0.1401^{+0.0030}_{-0.0029} \quad (-0.2\sigma)$	$\chi_{Cooke17}^2$	0.18	$0.35 \quad (\nu: 0.1) \quad (-0.2\sigma)$
H_0	67.48	$67.4^{+2.8}_{-2.7} \quad (-0.0\sigma)$	$100\theta_D$	0.16068	$0.16075^{+0.00099}_{-0.00097} \quad (+0.3\sigma)$	χ_{6DF}^2	0.010	$0.059 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_Λ	0.6917	$0.689^{+0.019}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	3393	$3381^{+71}_{-70} \quad (-0.5\sigma)$	χ_{MGS}^2	1.41	$1.33 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_m	0.3083	$0.311^{+0.020}_{-0.019} \quad (-0.1\sigma)$	k_{eq}	0.010295	$0.01028^{+0.00028}_{-0.00027} \quad (-0.4\sigma)$	$\chi_{DR12BAO}^2$	3.90	$4.8 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.1404	$0.1411^{+0.0073}_{-0.0069} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8146	$0.817^{+0.014}_{-0.013} \quad (+0.4\sigma)$	χ_{prior}^2	2.0	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00004	$< 0.00225 \quad (+0.3\sigma)$	$100\theta_{s,eq}$	0.4502	$0.4514^{+0.0069}_{-0.0067} \quad (+0.5\sigma)$	χ_{BAO}^2	5.32	$6.2 \quad (\nu: 0.9) \quad (-0.0\sigma)$
$\Omega_m h^3$	0.0947	$0.0951^{+0.0082}_{-0.0075} \quad (-0.1\sigma)$	$H(0.15)$	72.70	$72.7^{+2.8}_{-2.7} \quad (-0.0\sigma)$	χ_{CMB}^2	11917.6	$11934.7 \quad (\nu: 17.0) \quad (+1519.3\sigma)$
σ_8	0.8170	$0.806^{+0.032}_{-0.044} \quad (-0.5\sigma)$	$D_M(0.15)$	642.7	$643^{+25}_{-25} \quad (+0.0\sigma)$	χ_{Abund}^2	0.20	$0.71 \quad (\nu: 0.2) \quad (-0.1\sigma)$

Best-fit $\chi_{eff}^2 = 11925.20$; $\Delta\chi_{eff}^2 = 9155.17$; $\bar{\chi}_{eff}^2 = 11949.45$; $\Delta\bar{\chi}_{eff}^2 = 9150.90$; $R - 1 = 0.01051$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.02 (Δ 0.01) D_Cooke2017: 0.18 (Δ -0.21) BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.41 (Δ 0.06) DR12BAO: 3.90 (Δ -0.16) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.85 (Δ -0.18) commander_dx12_v3.2.29: 23.31 (Δ -0.36) CamSpec like_10.7HM_1400_unified: 11498.48

9.28 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00048}_{-0.00050} \quad (-0.4\sigma)$	S_8	$0.819^{+0.036}_{-0.038} \quad (-0.5\sigma)$	$H(0.38)$	$82.9^{+3.6}_{-3.4} \quad (+0.0\sigma)$
$\Omega_c h^2$	$0.1183^{+0.0090}_{-0.0089} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.449^{+0.020}_{-0.021} \quad (-0.5\sigma)$	$D_M(0.38)$	$1531^{+69}_{-68} \quad (-0.0\sigma)$
$100\theta_{MC}$	$1.0410^{+0.0013}_{-0.0012} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.025}_{-0.029} \quad (-0.5\sigma)$	$H(0.51)$	$89.6^{+3.6}_{-3.5} \quad (+0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.033}_{-0.045} \quad (-0.5\sigma)$	$D_M(0.51)$	$1983^{+88}_{-87} \quad (-0.0\sigma)$
Σm_ν [eV]	$< 0.207 \quad (+0.3\sigma)$	$r_{\text{drag}} h$	$99.9^{+2.4}_{-2.3} \quad (+0.1\sigma)$	$H(0.61)$	$95.2^{+3.8}_{-3.7} \quad (+0.0\sigma)$
N_{eff}	$3.01^{+0.54}_{-0.52} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.069}_{-0.071} \quad (-0.6\sigma)$	$D_M(0.61)$	$2308^{+100}_{-99} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.039^{+0.050}_{-0.038} \quad (-0.3\sigma)$	z_{re}	$< 9.51 \quad (-0.2\sigma)$	$H(2.33)$	$235.2^{+8.0}_{-7.9} \quad (-0.0\sigma)$
n_s	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	$10^9 A_s$	$2.09^{+0.11}_{-0.078} \quad (-0.3\sigma)$	$D_M(2.33)$	$5775^{+230}_{-220} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.872^{+0.050}_{-0.051} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.019}_{-0.020} \quad (-0.5\sigma)$
A_{100}^{PS}	$239^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1224^{+37}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.033}_{-0.040} \quad (-0.4\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.019}_{-0.021} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.030}_{-0.036} \quad (-0.4\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.019}_{-0.021} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.8\sigma)$	D_{2000}	$230.7^{+5.3}_{-5.4} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.028}_{-0.034} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	$0.966^{+0.020}_{-0.020} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.019}_{-0.021} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2449^{+0.0072}_{-0.0074} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.027}_{-0.032} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2462^{+0.0073}_{-0.0074} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.297^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.58^{+0.14}_{-0.15} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.307^{+0.015}_{-0.017} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	Age/Gyr	$13.83^{+0.54}_{-0.52} \quad (+0.0\sigma)$	f_{2000}^{143}	$29^{+9}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.46}$	z_*	$1089.8^{+1.0}_{-1.1} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.5^{+5.8}_{-5.8} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$145.1^{+5.3}_{-5.1} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.0413^{+0.0016}_{-0.0015} \quad (-0.1\sigma)$	χ_{small}^2	$396.9 (\nu: 1.6) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.49}_{-0.47} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.0 (\nu: 0.7) \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.7^{+1.9}_{-1.9} \quad (-0.2\sigma)$	χ_{CamSpec}^2	$11515.1 (\nu: 17.9)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.8^{+5.5}_{-5.3} \quad (+0.0\sigma)$	χ_{JLA}^2	$1035.04 (\nu: 0.1) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.015}_{-0.014}$	k_D	$0.1402^{+0.0039}_{-0.0038} \quad (-0.1\sigma)$	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0) \quad (-0.0\sigma)$
H_0	$67.6^{+3.4}_{-3.2} \quad (+0.0\sigma)$	$100\theta_D$	$0.1608^{+0.0013}_{-0.0013} \quad (+0.4\sigma)$	χ_{MGS}^2	$1.45 (\nu: 0.1) \quad (+0.2\sigma)$
Ω_Λ	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3376^{+70}_{-70} \quad (-0.5\sigma)$	χ_{DR12BAO}^2	$4.5 (\nu: 0.9) \quad (-0.1\sigma)$
Ω_m	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00033}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	$7.9 (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.1412^{+0.0096}_{-0.0093} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.014}_{-0.013} \quad (+0.5\sigma)$	χ_{BAO}^2	$6.0 (\nu: 0.6) \quad (-0.0\sigma)$
$\Omega_\nu h^2$	$< 0.00220 \quad (+0.3\sigma)$	$100\theta_{s,\text{eq}}$	$0.4518^{+0.0069}_{-0.0066} \quad (+0.5\sigma)$	χ_{CMB}^2	$11935.0 (\nu: 17.5) \quad (+1505.5\sigma)$
$\Omega_m h^3$	$0.096^{+0.011}_{-0.010} \quad (-0.0\sigma)$	$H(0.15)$	$72.9^{+3.4}_{-3.2} \quad (+0.0\sigma)$		
σ_8	$0.808^{+0.035}_{-0.042} \quad (-0.4\sigma)$	$D_M(0.15)$	$641^{+31}_{-30} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12983.89; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.96; R - 1 = 0.01046$$

9.29 base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02223^{+0.00063}_{-0.00061}$	$\sigma_8 \Omega_m^{0.25}$	0.6092	$0.606^{+0.022}_{-0.024}$	$D_M(0.38)$	1531	1524^{+80}_{-75}
$\Omega_c h^2$	0.1183	$0.1199^{+0.0097}_{-0.0094}$	$\sigma_8/h^{0.5}$	0.9952	$0.986^{+0.027}_{-0.036}$	$H(0.51)$	89.45	$90.0^{+4.1}_{-4.0}$
$100\theta_{MC}$	1.04106	$1.0409^{+0.0015}_{-0.0014}$	$r_{drag}h$	100.10	$99.9^{+2.7}_{-2.7}$	$D_M(0.51)$	1985	1974^{+100}_{-95}
τ	0.0530	$0.054^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.433^{+0.062}_{-0.062}$	$H(0.61)$	95.01	$95.6^{+4.2}_{-4.1}$
Σm_ν [eV]	0.000	< 0.199	z_{re}	7.55	$7.7^{+2.0}_{-2.1}$	$D_M(0.61)$	2310	2298^{+120}_{-110}
N_{eff}	2.98	$3.09^{+0.61}_{-0.59}$	$10^9 A_s$	2.083	$2.10^{+0.10}_{-0.095}$	$H(2.33)$	234.7	$236.4^{+8.8}_{-8.6}$
$\ln(10^{10} A_s)$	3.0366	$3.044^{+0.049}_{-0.046}$	$10^9 A_s e^{-2\tau}$	1.874	$1.882^{+0.051}_{-0.054}$	$D_M(2.33)$	5783	5748^{+250}_{-240}
n_s	0.9646	$0.967^{+0.023}_{-0.023}$	D_{40}	1227.2	1226^{+38}_{-39}	$f\sigma_8(0.15)$	0.4578	$0.457^{+0.017}_{-0.018}$
y_{cal}	1.0003	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5715	5722^{+110}_{-100}	$\sigma_8(0.15)$	0.7563	$0.751^{+0.031}_{-0.035}$
A_{217}^{CIB}	47.4	48^{+20}_{-20}	D_{810}	2535.4	2537^{+37}_{-36}	$f\sigma_8(0.38)$	0.4771	$0.476^{+0.017}_{-0.018}$
$\xi^{tSZ \times CIB}$	0.46	—	D_{1420}	816.3	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6706	$0.666^{+0.029}_{-0.032}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.7	$229.7^{+5.6}_{-5.7}$	$f\sigma_8(0.51)$	0.4761	$0.475^{+0.017}_{-0.018}$
A_{100}^{PS}	251	264^{+70}_{-70}	$n_{s,0.002}$	0.9646	$0.967^{+0.023}_{-0.023}$	$\sigma_8(0.51)$	0.6276	$0.624^{+0.027}_{-0.031}$
A_{143}^{PS}	49.7	49^{+20}_{-20}	Y_P	0.2444	$0.2459^{+0.0080}_{-0.0083}$	$f\sigma_8(0.61)$	0.4713	$0.470^{+0.016}_{-0.018}$
$A_{143 \times 217}^{PS}$	49.4	43^{+20}_{-20}	Y_P^{BBN}	0.2457	$0.2472^{+0.0081}_{-0.0083}$	$\sigma_8(0.61)$	0.5972	$0.593^{+0.026}_{-0.029}$
A_{217}^{PS}	120.2	115^{+30}_{-30}	$10^5 D/H$	2.597	$2.63^{+0.18}_{-0.17}$	$f\sigma_8(2.33)$	0.3003	$0.299^{+0.013}_{-0.014}$
A^{kSZ}	0.0	—	Age/Gyr	13.85	$13.76^{+0.60}_{-0.56}$	$\sigma_8(2.33)$	0.3102	$0.309^{+0.015}_{-0.016}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.7}$	z_*	1089.93	$1090.1^{+1.2}_{-1.2}$	f_{2000}^{143}	29.4	31^{+9}_{-9}
A_{143}^{dustTT}	10.82	$10.7^{+4.7}_{-4.6}$	r_*	145.4	$144.4^{+5.8}_{-5.5}$	$f_{2000}^{143 \times 217}$	32.5	34^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.6	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	1.04128	$1.0411^{+0.0018}_{-0.0017}$	f_{2000}^{217}	106.9	$108.2^{+5.9}_{-5.8}$
A_{217}^{dustTT}	95.1	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.96	$13.87^{+0.54}_{-0.51}$	$\chi^2_{lensing}$	8.81	$9.52 (\nu: 0.4)$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.32	$1059.6^{+2.3}_{-2.3}$	χ^2_{small}	395.85	$397.1 (\nu: 1.6)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	148.1	$147.1^{+6.1}_{-5.7}$	χ^2_{lowl}	23.32	$23.2 (\nu: 0.8)$
H_0	67.58	$67.9^{+3.8}_{-3.7}$	k_D	0.13991	$0.1406^{+0.0043}_{-0.0043}$	χ^2_{plik}	758.7	$772.4 (\nu: 15.5)$
Ω_Λ	0.6925	$0.691^{+0.021}_{-0.022}$	$100\theta_D$	0.16084	$0.1611^{+0.0015}_{-0.0015}$	χ^2_{6DF}	0.006	$0.060 (\nu: 0.0)$
Ω_m	0.3075	$0.309^{+0.022}_{-0.021}$	z_{eq}	3387	3375^{+81}_{-81}	χ^2_{MGS}	1.47	$1.42 (\nu: 0.2)$
$\Omega_m h^2$	0.1404	$0.143^{+0.011}_{-0.010}$	k_{eq}	0.010290	$0.01033^{+0.00035}_{-0.00035}$	$\chi^2_{DR12BAO}$	3.77	$4.7 (\nu: 1.4)$
$\Omega_\nu h^2$	0.00000	< 0.00213	$100\theta_{eq}$	0.8155	$0.818^{+0.016}_{-0.015}$	χ^2_{prior}	1.3	$7.3 (\nu: 6.6)$
$\Omega_m h^3$	0.0949	$0.097^{+0.012}_{-0.011}$	$100\theta_{s,eq}$	0.4507	$0.4519^{+0.0080}_{-0.0075}$	χ^2_{CMB}	1186.6	$1202.1 (\nu: 16.5)$
σ_8	0.8181	$0.813^{+0.033}_{-0.037}$	$H(0.15)$	72.80	$73.2^{+3.8}_{-3.7}$	χ^2_{BAO}	5.24	$6.2 (\nu: 1.0)$
S_8	0.8283	$0.825^{+0.033}_{-0.034}$	$D_M(0.15)$	641.7	639^{+35}_{-33}			
$\sigma_8 \Omega_m^{0.5}$	0.4537	$0.452^{+0.018}_{-0.019}$	$H(0.38)$	82.80	$83.3^{+3.9}_{-3.9}$			

Best-fit $\chi^2_{eff} = 1193.21$; $\bar{\chi}^2_{eff} = 1215.63$; $R - 1 = 0.00858$
 χ^2_{eff} : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.77 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.81 small_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3_2_29: 23.32 plik_rd12_HM_v22_TT: 758.66

9.30 base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02223	$0.02225^{+0.00062}_{-0.00059}$	$\sigma_8 \Omega_m^{0.25}$	0.6090	$0.606^{+0.022}_{-0.024}$	$D_M(0.38)$	1528	1521^{+77}_{-72}
$\Omega_c h^2$	0.1185	$0.1200^{+0.0094}_{-0.0095}$	$\sigma_8/h^{0.5}$	0.9943	$0.986^{+0.027}_{-0.036}$	$H(0.51)$	89.63	$90.1^{+3.9}_{-3.9}$
$100\theta_{MC}$	1.04103	$1.0409^{+0.0015}_{-0.0014}$	$r_{drag}h$	100.22	$100.0^{+2.6}_{-2.5}$	$D_M(0.51)$	1980	1970^{+97}_{-91}
τ	0.0531	$0.055^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.431^{+0.061}_{-0.062}$	$H(0.61)$	95.19	$95.8^{+4.0}_{-4.0}$
Σm_ν [eV]	0.001	< 0.192	z_{re}	7.55	$7.7^{+2.0}_{-2.1}$	$D_M(0.61)$	2304	2293^{+110}_{-100}
N_{eff}	3.00	$3.11^{+0.60}_{-0.58}$	$10^9 A_s$	2.085	$2.10^{+0.10}_{-0.093}$	$H(2.33)$	235.0	$236.6^{+8.6}_{-8.6}$
$\ln(10^{10} A_s)$	3.0373	$3.045^{+0.048}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.875	$1.883^{+0.050}_{-0.053}$	$D_M(2.33)$	5773	5740^{+240}_{-230}
n_s	0.9649	$0.968^{+0.022}_{-0.022}$	D_{40}	1227.5	1225^{+38}_{-38}	$f\sigma_8(0.15)$	0.4574	$0.457^{+0.017}_{-0.018}$
y_{cal}	1.0003	$1.0006^{+0.0063}_{-0.0063}$	D_{220}	5720	5723^{+110}_{-100}	$\sigma_8(0.15)$	0.7567	$0.752^{+0.030}_{-0.035}$
A_{217}^{CIB}	49.4	48^{+20}_{-20}	D_{810}	2534.8	2537^{+37}_{-35}	$f\sigma_8(0.38)$	0.4769	$0.476^{+0.017}_{-0.018}$
$\xi^{tSZ \times CIB}$	0.22	—	D_{1420}	815.8	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6711	$0.667^{+0.028}_{-0.031}$
A_{143}^{tSZ}	7.2	—	D_{2000}	230.5	$229.7^{+5.7}_{-5.7}$	$f\sigma_8(0.51)$	0.4760	$0.475^{+0.017}_{-0.018}$
A_{100}^{PS}	254	264^{+70}_{-70}	$n_{s,0.002}$	0.9649	$0.968^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.6282	$0.625^{+0.027}_{-0.030}$
A_{143}^{PS}	46.4	49^{+20}_{-20}	Y_P	0.2447	$0.2461^{+0.0078}_{-0.0080}$	$f\sigma_8(0.61)$	0.4713	$0.470^{+0.016}_{-0.018}$
$A_{143 \times 217}^{PS}$	43.2	43^{+20}_{-20}	Y_P^{BBN}	0.2460	$0.2475^{+0.0079}_{-0.0081}$	$\sigma_8(0.61)$	0.5978	$0.594^{+0.026}_{-0.028}$
A_{217}^{PS}	117.1	115^{+30}_{-30}	$10^5 D/H$	2.597	$2.63^{+0.17}_{-0.17}$	$f\sigma_8(2.33)$	0.3006	$0.300^{+0.013}_{-0.014}$
A^{kSZ}	0.0	—	Age/Gyr	13.82	$13.74^{+0.58}_{-0.54}$	$\sigma_8(2.33)$	0.3106	$0.309^{+0.014}_{-0.015}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.7}$	z_*	1089.92	$1090.1^{+1.2}_{-1.2}$	f_{2000}^{143}	29.8	31^{+9}_{-9}
A_{143}^{dustTT}	10.86	$10.7^{+4.7}_{-4.6}$	r_*	145.2	$144.3^{+5.8}_{-5.4}$	$f_{2000}^{143 \times 217}$	32.7	34^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.5}_{-8.6}$	$100\theta_*$	1.04123	$1.0410^{+0.0018}_{-0.0017}$	f_{2000}^{217}	107.2	$108.2^{+6.0}_{-5.7}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.94	$13.86^{+0.53}_{-0.50}$	$\chi^2_{lensing}$	8.80	$9.54 (\nu: 0.4)$
c_{100}	0.99961	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.44	$1059.7^{+2.3}_{-2.2}$	χ^2_{small}	395.86	$397.1 (\nu: 1.6)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.9	$147.0^{+6.0}_{-5.6}$	χ^2_{lowl}	23.32	$23.1 (\nu: 0.7)$
H_0	67.77	$68.1^{+3.6}_{-3.5}$	k_D	0.14010	$0.1407^{+0.0042}_{-0.0042}$	χ^2_{plik}	758.5	$772.5 (\nu: 15.4)$
Ω_Λ	0.6935	$0.692^{+0.020}_{-0.021}$	$100\theta_D$	0.16085	$0.1612^{+0.0015}_{-0.0015}$	χ^2_{JLA}	1034.85	$1035.03 (\nu: 0.1)$
Ω_m	0.3065	$0.308^{+0.021}_{-0.020}$	z_{eq}	3384	3371^{+75}_{-78}	χ^2_{6DF}	0.003	$0.048 (\nu: 0.0)$
$\Omega_m h^2$	0.1408	$0.143^{+0.010}_{-0.010}$	k_{eq}	0.010297	$0.01033^{+0.00035}_{-0.00035}$	χ^2_{MGS}	1.54	$1.51 (\nu: 0.2)$
$\Omega_\nu h^2$	0.00001	< 0.00206	$100\theta_{eq}$	0.8161	$0.819^{+0.015}_{-0.014}$	$\chi^2_{DR12BAO}$	3.67	$4.5 (\nu: 0.9)$
$\Omega_m h^3$	0.0954	$0.097^{+0.012}_{-0.011}$	$100\theta_{s,eq}$	0.4509	$0.4523^{+0.0076}_{-0.0071}$	χ^2_{prior}	1.6	$7.3 (\nu: 6.6)$
σ_8	0.8185	$0.814^{+0.032}_{-0.036}$	$H(0.15)$	72.98	$73.4^{+3.6}_{-3.6}$	χ^2_{CMB}	1186.5	$1202.2 (\nu: 16.4)$
S_8	0.8273	$0.825^{+0.033}_{-0.034}$	$D_M(0.15)$	640.1	637^{+34}_{-31}	χ^2_{BAO}	5.21	$6.0 (\nu: 0.6)$
$\sigma_8 \Omega_m^{0.5}$	0.4531	$0.452^{+0.018}_{-0.019}$	$H(0.38)$	82.98	$83.4^{+3.8}_{-3.7}$			

Best-fit $\chi^2_{eff} = 2228.14$; $\bar{\chi}^2_{eff} = 2250.50$; $R - 1 = 0.00908$
 χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 3.67 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.80 small_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3_2_29: 23.32 plik_rd12_HM_v22_TT: 758.53 SN - JLA Pantheon18: 1034.85

9.31 base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02219^{+0.00059}_{-0.00056}$	$\sigma_8 \Omega_m^{0.25}$	0.6078	$0.605^{+0.020}_{-0.023}$	$D_M(0.38)$	1539	1532^{+64}_{-63}
$\Omega_c h^2$	0.1174	$0.1188^{+0.0080}_{-0.0077}$	$\sigma_8/h^{0.5}$	0.9945	$0.987^{+0.027}_{-0.035}$	$H(0.51)$	89.07	$89.6^{+3.2}_{-3.1}$
$100\theta_{MC}$	1.04116	$1.0410^{+0.0013}_{-0.0013}$	$r_{drag}h$	99.99	$99.8^{+2.5}_{-2.6}$	$D_M(0.51)$	1994	1984^{+81}_{-79}
τ	0.0529	$0.054^{+0.021}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.436^{+0.060}_{-0.061}$	$H(0.61)$	94.62	$95.2^{+3.3}_{-3.2}$
Σm_ν [eV]	0.002	< 0.181	z_{re}	7.52	$7.7^{+2.0}_{-2.0}$	$D_M(0.61)$	2320	2309^{+92}_{-90}
N_{eff}	2.922	$3.03^{+0.48}_{-0.46}$	$10^9 A_s$	2.079	$2.092^{+0.096}_{-0.087}$	$H(2.33)$	233.9	$235.5^{+7.0}_{-6.9}$
$\ln(10^{10} A_s)$	3.0345	$3.041^{+0.045}_{-0.042}$	$10^9 A_s e^{-2\tau}$	1.8701	$1.877^{+0.045}_{-0.045}$	$D_M(2.33)$	5807	5774^{+200}_{-190}
n_s	0.9625	$0.965^{+0.019}_{-0.019}$	D_{40}	1230.2	1229^{+35}_{-35}	$f\sigma_8(0.15)$	0.4571	$0.456^{+0.017}_{-0.017}$
y_{cal}	1.0003	$1.0006^{+0.0063}_{-0.0062}$	D_{220}	5719	5723^{+110}_{-100}	$\sigma_8(0.15)$	0.7537	$0.749^{+0.027}_{-0.033}$
A_{217}^{CIB}	46.4	48^{+20}_{-20}	D_{810}	2535.3	2536^{+36}_{-35}	$f\sigma_8(0.38)$	0.4760	$0.475^{+0.016}_{-0.017}$
$\xi^{tSZ \times CIB}$	0.63	—	D_{1420}	816.9	816^{+13}_{-13}	$\sigma_8(0.38)$	0.6682	$0.664^{+0.025}_{-0.030}$
A_{143}^{tSZ}	6.9	—	D_{2000}	231.1	$230.1^{+5.2}_{-5.3}$	$f\sigma_8(0.51)$	0.4749	$0.474^{+0.015}_{-0.017}$
A_{100}^{PS}	249	262^{+70}_{-70}	$n_{s,0.002}$	0.9625	$0.965^{+0.019}_{-0.019}$	$\sigma_8(0.51)$	0.6254	$0.622^{+0.024}_{-0.028}$
A_{143}^{PS}	51.2	48^{+20}_{-20}	Y_P	0.2436	$0.2450^{+0.0064}_{-0.0064}$	$f\sigma_8(0.61)$	0.4701	$0.469^{+0.015}_{-0.017}$
$A_{143 \times 217}^{PS}$	53.0	43^{+20}_{-20}	Y_P^{BBN}	0.2449	$0.2463^{+0.0064}_{-0.0064}$	$\sigma_8(0.61)$	0.5951	$0.592^{+0.023}_{-0.027}$
A_{217}^{PS}	121.6	115^{+30}_{-30}	$10^5 D/H$	2.583	$2.61^{+0.15}_{-0.14}$	$f\sigma_8(2.33)$	0.2992	$0.298^{+0.012}_{-0.013}$
A^{kSZ}	0.0	—	Age/Gyr	13.903	$13.82^{+0.47}_{-0.45}$	$\sigma_8(2.33)$	0.3090	$0.308^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.75	$8.9^{+4.7}_{-4.7}$	z_*	1089.83	$1090.0^{+1.1}_{-1.0}$	f_{2000}^{143}	28.9	31^{+8}_{-8}
A_{143}^{dustTT}	10.75	$10.7^{+4.7}_{-4.6}$	r_*	145.92	$145.0^{+4.6}_{-4.5}$	$f_{2000}^{143 \times 217}$	32.2	33^{+6}_{-6}
$A_{143 \times 217}^{dustTT}$	19.6	$18.3^{+8.5}_{-8.6}$	$100\theta_*$	1.04142	$1.0412^{+0.0015}_{-0.0015}$	f_{2000}^{217}	106.6	$107.8^{+5.5}_{-5.4}$
A_{217}^{dustTT}	95.1	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	14.012	$13.93^{+0.43}_{-0.42}$	$\chi^2_{lensing}$	8.70	$9.39 (\nu: 0.4)$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.13	$1059.4^{+1.9}_{-1.9}$	χ^2_{small}	395.86	$397.0 (\nu: 1.5)$
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	148.68	$147.7^{+4.8}_{-4.6}$	χ^2_{lowl}	23.62	$23.4 (\nu: 0.7)$
H_0	67.25	$67.5^{+3.1}_{-3.0}$	k_D	0.13951	$0.1401^{+0.0035}_{-0.0034}$	χ^2_{plik}	758.6	$771.8 (\nu: 14.4)$
Ω_Λ	0.6914	$0.690^{+0.020}_{-0.021}$	$100\theta_D$	0.16071	$0.1610^{+0.0013}_{-0.0012}$	χ^2_{Aver15}	0.00	$0.52 (\nu: 0.2)$
Ω_m	0.3086	$0.310^{+0.021}_{-0.020}$	z_{eq}	3391	3379^{+76}_{-73}	χ^2_{6DF}	0.010	$0.063 (\nu: 0.0)$
$\Omega_m h^2$	0.1395	$0.1416^{+0.0085}_{-0.0081}$	k_{eq}	0.010261	$0.01030^{+0.00031}_{-0.00030}$	χ^2_{MGS}	1.41	$1.35 (\nu: 0.2)$
$\Omega_\nu h^2$	0.00002	< 0.00194	$100\theta_{eq}$	0.8148	$0.817^{+0.014}_{-0.014}$	$\chi^2_{DR12BAO}$	3.88	$4.8 (\nu: 1.5)$
$\Omega_m h^3$	0.0938	$0.0956^{+0.0095}_{-0.0088}$	$100\theta_{s,eq}$	0.4503	$0.4514^{+0.0072}_{-0.0071}$	χ^2_{prior}	1.2	$7.3 (\nu: 6.5)$
σ_8	0.8155	$0.811^{+0.029}_{-0.035}$	$H(0.15)$	72.45	$72.8^{+3.1}_{-3.0}$	χ^2_{CMB}	1186.8	$1201.6 (\nu: 15.5)$
S_8	0.8271	$0.825^{+0.033}_{-0.033}$	$D_M(0.15)$	644.9	642^{+28}_{-28}	χ^2_{BAO}	5.29	$6.2 (\nu: 1.0)$
$\sigma_8 \Omega_m^{0.5}$	0.4530	$0.452^{+0.018}_{-0.018}$	$H(0.38)$	82.43	$82.9^{+3.2}_{-3.1}$			

Best-fit $\chi^2_{eff} = 1193.28$; $\bar{\chi}^2_{eff} = 1215.62$; $R - 1 = 0.00900$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.00 BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.88 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.70 small_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3_2_29: 23.62 plik_rd12_HM_v22_TT: 758.65

9.32 base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02219^{+0.00058}_{-0.00056}$	$\sigma_8/h^{0.5}$	0.9946	$0.987^{+0.027}_{-0.035}$	$D_M(0.51)$	1987	1984^{+77}_{-75}
$\Omega_c h^2$	0.1179	$0.1189^{+0.0073}_{-0.0071}$	$r_{\text{drag}} h$	100.10	$99.8^{+2.5}_{-2.5}$	$H(0.61)$	94.89	$95.2^{+3.1}_{-3.1}$
$100\theta_{\text{MC}}$	1.04107	$1.0410^{+0.0013}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.436^{+0.060}_{-0.061}$	$D_M(0.61)$	2313	2309^{+88}_{-86}
τ	0.0530	$0.054^{+0.021}_{-0.019}$	z_{re}	7.55	$7.7^{+2.0}_{-2.0}$	$H(2.33)$	234.4	$235.5^{+6.5}_{-6.4}$
Σm_ν [eV]	0.003	< 0.180	$10^9 A_s$	2.083	$2.092^{+0.095}_{-0.085}$	$D_M(2.33)$	5791	5773^{+190}_{-180}
N_{eff}	2.962	$3.03^{+0.44}_{-0.42}$	$10^9 A_s e^{-2\tau}$	1.8734	$1.877^{+0.043}_{-0.043}$	$f\sigma_8(0.15)$	0.4574	$0.456^{+0.017}_{-0.017}$
$\ln(10^{10} A_s)$	3.0364	$3.041^{+0.045}_{-0.041}$	D_{40}	1227.8	1229^{+35}_{-35}	$\sigma_8(0.15)$	0.7554	$0.749^{+0.027}_{-0.032}$
n_s	0.9643	$0.965^{+0.018}_{-0.018}$	D_{220}	5717	5722^{+100}_{-100}	$f\sigma_8(0.38)$	0.4766	$0.475^{+0.015}_{-0.016}$
y_{cal}	1.0006	$1.0006^{+0.0064}_{-0.0062}$	D_{810}	2536.5	2536^{+36}_{-35}	$\sigma_8(0.38)$	0.6698	$0.664^{+0.025}_{-0.029}$
A_{217}^{CIB}	47.3	48^{+20}_{-20}	D_{1420}	816.9	815^{+13}_{-13}	$f\sigma_8(0.51)$	0.4756	$0.474^{+0.015}_{-0.016}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.47	—	D_{2000}	230.94	$230.0^{+4.9}_{-4.9}$	$\sigma_8(0.51)$	0.6269	$0.622^{+0.023}_{-0.028}$
A_{143}^{tSZ}	7.0	—	$n_{\text{s},0.002}$	0.9643	$0.965^{+0.018}_{-0.018}$	$f\sigma_8(0.61)$	0.4708	$0.469^{+0.015}_{-0.016}$
A_{100}^{PS}	251	263^{+70}_{-70}	Y_{P}	0.2442	$0.2451^{+0.0059}_{-0.0060}$	$\sigma_8(0.61)$	0.5965	$0.592^{+0.023}_{-0.027}$
A_{143}^{PS}	49.6	48^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2455	$0.2464^{+0.0059}_{-0.0060}$	$f\sigma_8(2.33)$	0.3000	$0.298^{+0.011}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	49.5	43^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.594	$2.61^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	0.3099	$0.308^{+0.013}_{-0.014}$
A_{217}^{PS}	120.4	115^{+30}_{-30}	Age/Gyr	13.864	$13.82^{+0.44}_{-0.43}$	f_{2000}^{143}	29.3	31^{+8}_{-8}
A^{kSZ}	0.0	—	z_*	1089.90	$1090.03^{+0.93}_{-0.91}$	$f_{2000}^{143 \times 217}$	32.4	33^{+6}_{-5}
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.7}$	r_*	145.56	$145.0^{+4.3}_{-4.2}$	f_{2000}^{217}	106.9	$107.8^{+5.2}_{-5.1}$
A_{143}^{dustTT}	10.80	$10.7^{+4.7}_{-4.6}$	$100\theta_*$	1.04131	$1.0412^{+0.0015}_{-0.0014}$	χ_{lensing}^2	8.77	$9.39 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.5}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.978	$13.92^{+0.40}_{-0.39}$	χ_{small}^2	395.85	$397.0 (\nu: 1.5)$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	z_{drag}	1059.25	$1059.4^{+1.9}_{-1.9}$	χ_{lowl}^2	23.32	$23.4 (\nu: 0.6)$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	148.30	$147.7^{+4.5}_{-4.3}$	χ_{plik}^2	758.7	$771.6 (\nu: 14.1)$
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	0.13976	$0.1402^{+0.0033}_{-0.0032}$	χ_{Aver15}^2	0.02	$0.47 (\nu: 0.2)$
H_0	67.50	$67.6^{+3.0}_{-2.9}$	$100\theta_{\text{D}}$	0.16081	$0.1610^{+0.0011}_{-0.0011}$	χ_{Cooke17}^2	0.06	$0.27 (\nu: 0.1)$
Ω_Λ	0.6924	$0.690^{+0.019}_{-0.021}$	z_{eq}	3386	3379^{+74}_{-73}	$\chi_{6\text{DF}}^2$	0.006	$0.063 (\nu: 0.0)$
Ω_{m}	0.3076	$0.310^{+0.021}_{-0.019}$	k_{eq}	0.010276	$0.01030^{+0.00029}_{-0.00029}$	χ_{MGS}^2	1.47	$1.36 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	0.1401	$0.1416^{+0.0079}_{-0.0075}$	$100\theta_{\text{eq}}$	0.8156	$0.817^{+0.014}_{-0.014}$	χ_{DR12BAO}^2	3.76	$4.8 (\nu: 1.5)$
$\Omega_\nu h^2$	0.00003	< 0.00192	$100\theta_{\text{s,eq}}$	0.4507	$0.4515^{+0.0071}_{-0.0071}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.5)$
$\Omega_{\text{m}} h^3$	0.0946	$0.0957^{+0.0089}_{-0.0083}$	$H(0.15)$	72.71	$72.8^{+3.0}_{-2.8}$	χ_{CMB}^2	1186.7	$1201.4 (\nu: 15.1)$
σ_8	0.8172	$0.811^{+0.028}_{-0.034}$	$D_M(0.15)$	642.6	642^{+27}_{-27}	χ_{BAO}^2	5.24	$6.2 (\nu: 1.0)$
S_8	0.8274	$0.825^{+0.032}_{-0.033}$	$H(0.38)$	82.69	$82.9^{+3.0}_{-2.9}$	χ_{Abund}^2	0.09	$0.74 (\nu: 0.3)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4532	$0.452^{+0.018}_{-0.018}$	$D_M(0.38)$	1533	1531^{+61}_{-60}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6086	$0.605^{+0.020}_{-0.023}$	$H(0.51)$	89.34	$89.6^{+3.1}_{-3.0}$			

Best-fit $\chi_{\text{eff}}^2 = 1193.33$; $\bar{\chi}_{\text{eff}}^2 = 1215.63$; $R - 1 = 0.00841$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.02 D_Cooke2017: 0.06 BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.76 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77
small_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3.2_29: 23.32 plik_rd12_HM_v22_TT: 758.73

9.33 base_nnu_mnu_plikHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02226^{+0.00062}_{-0.00059}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.607^{+0.022}_{-0.024}$	$D_{\text{M}}(0.38)$	1520^{+76}_{-71}
$\Omega_{\text{c}}h^2$	$0.1200^{+0.0094}_{-0.0095}$	$\sigma_8/h^{0.5}$	$0.987^{+0.027}_{-0.036}$	$H(0.51)$	$90.2^{+3.9}_{-3.8}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0015}_{-0.0014}$	$r_{\text{drag}}h$	$100.1^{+2.6}_{-2.5}$	$D_{\text{M}}(0.51)$	1970^{+96}_{-91}
τ	$0.056^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.060}_{-0.060}$	$H(0.61)$	$95.8^{+4.0}_{-4.0}$
$\Sigma m_{\nu} [\text{eV}]$	< 0.193	z_{re}	< 9.56	$D_{\text{M}}(0.61)$	2292^{+110}_{-100}
N_{eff}	$3.11^{+0.60}_{-0.57}$	$10^9 A_{\text{s}}$	$2.10^{+0.10}_{-0.080}$	$H(2.33)$	$236.6^{+8.6}_{-8.5}$
$\ln(10^{10} A_{\text{s}})$	$3.046^{+0.046}_{-0.039}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.883^{+0.050}_{-0.053}$	$D_{\text{M}}(2.33)$	5739^{+240}_{-230}
n_{s}	$0.968^{+0.022}_{-0.022}$	D_{40}	1225^{+38}_{-38}	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	D_{220}	5723^{+110}_{-100}	$\sigma_8(0.15)$	$0.753^{+0.030}_{-0.035}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+37}_{-35}	$f\sigma_8(0.38)$	$0.476^{+0.017}_{-0.018}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.668^{+0.028}_{-0.031}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+5.7}_{-5.7}$	$f\sigma_8(0.51)$	$0.475^{+0.016}_{-0.018}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\text{s},0.002}$	$0.968^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	$0.625^{+0.026}_{-0.030}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.2462^{+0.0078}_{-0.0080}$	$f\sigma_8(0.61)$	$0.470^{+0.016}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.2475^{+0.0078}_{-0.0080}$	$\sigma_8(0.61)$	$0.595^{+0.025}_{-0.028}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.63^{+0.17}_{-0.17}$	$f\sigma_8(2.33)$	$0.300^{+0.013}_{-0.013}$
A^{kSZ}	—	Age/Gyr	$13.74^{+0.57}_{-0.54}$	$\sigma_8(2.33)$	$0.309^{+0.014}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	z_*	$1090.1^{+1.2}_{-1.2}$	f_{2000}^{143}	31^{+9}_{-9}
A_{143}^{dustTT}	$10.7^{+4.7}_{-4.6}$	r_*	$144.3^{+5.7}_{-5.3}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.5}_{-8.6}$	$100\theta_*$	$1.0410^{+0.0018}_{-0.0017}$	f_{2000}^{217}	$108.2^{+6.0}_{-5.7}$
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.86^{+0.53}_{-0.50}$	χ_{lensing}^2	$9.51 (\nu: 0.4)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.7^{+2.2}_{-2.2}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$147.0^{+6.0}_{-5.6}$	χ_{lowl}^2	$23.0 (\nu: 0.7)$
H_0	$68.1^{+3.6}_{-3.5}$	k_{D}	$0.1407^{+0.0042}_{-0.0042}$	χ_{plik}^2	$772.4 (\nu: 15.3)$
Ω_{Λ}	$0.692^{+0.020}_{-0.020}$	$100\theta_{\text{D}}$	$0.1612^{+0.0015}_{-0.0015}$	χ_{JLA}^2	$1035.02 (\nu: 0.1)$
Ω_{m}	$0.308^{+0.020}_{-0.020}$	z_{eq}	3370^{+75}_{-77}	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0)$
$\Omega_{\text{m}}h^2$	$0.143^{+0.010}_{-0.010}$	k_{eq}	$0.01033^{+0.00034}_{-0.00035}$	χ_{MGS}^2	$1.52 (\nu: 0.2)$
$\Omega_{\nu}h^2$	< 0.00207	$100\theta_{\text{eq}}$	$0.819^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	$4.4 (\nu: 0.9)$
$\Omega_{\text{m}}h^3$	$0.097^{+0.012}_{-0.011}$	$100\theta_{\text{s,eq}}$	$0.4524^{+0.0076}_{-0.0071}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.814^{+0.032}_{-0.036}$	$H(0.15)$	$73.4^{+3.6}_{-3.6}$	χ_{CMB}^2	$1202.0 (\nu: 16.2)$
S_8	$0.825^{+0.033}_{-0.034}$	$D_{\text{M}}(0.15)$	637^{+33}_{-31}	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.452^{+0.018}_{-0.019}$	$H(0.38)$	$83.5^{+3.8}_{-3.7}$		

$$\bar{\chi}_{\text{eff}}^2 = 2250.35; R - 1 = 0.00891$$

9.34 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022329	$0.02236^{+0.00047}_{-0.00048}$	$\Omega_m h^3$	0.0936	$0.0948^{+0.0093}_{-0.0086}$	$D_M(0.15)$	645.3	644^{+28}_{-27}
$\Omega_c h^2$	0.1169	$0.1180^{+0.0077}_{-0.0072}$	σ_8	0.8158	$0.811^{+0.028}_{-0.031}$	$H(0.38)$	82.38	$82.6^{+3.1}_{-3.0}$
$100\theta_{MC}$	1.04128	$1.0412^{+0.0011}_{-0.0011}$	S_8	0.8271	$0.825^{+0.029}_{-0.029}$	$D_M(0.38)$	1540	1537^{+63}_{-61}
τ	0.0546	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4530	$0.452^{+0.016}_{-0.016}$	$H(0.51)$	89.00	$89.3^{+3.2}_{-3.1}$
Σm_ν [eV]	0.000	< 0.158	$\sigma_8 \Omega_m^{0.25}$	0.6079	$0.605^{+0.019}_{-0.020}$	$D_M(0.51)$	1995	1991^{+79}_{-77}
N_{eff}	2.890	$2.96^{+0.47}_{-0.44}$	$\sigma_8/h^{0.5}$	0.9952	$0.988^{+0.025}_{-0.030}$	$H(0.61)$	94.55	$94.9^{+3.3}_{-3.2}$
$\ln(10^{10} A_s)$	3.0376	$3.041^{+0.045}_{-0.043}$	$r_{\text{drag}} h$	99.98	$99.7^{+2.2}_{-2.3}$	$D_M(0.61)$	2322	2317^{+91}_{-88}
n_s	0.9627	$0.964^{+0.018}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.442^{+0.055}_{-0.056}$	$H(2.33)$	233.7	$234.8^{+6.8}_{-6.6}$
y_{cal}	1.0006	$1.0006^{+0.0065}_{-0.0061}$	z_{re}	7.64	$7.7^{+2.0}_{-2.0}$	$D_M(2.33)$	5811	5791^{+190}_{-190}
A_{217}^{CIB}	43.5	46^{+20}_{-20}	$10^9 A_s$	2.086	$2.093^{+0.097}_{-0.087}$	$f\sigma_8(0.15)$	0.4571	$0.457^{+0.015}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.98	—	$10^9 A_s e^{-2\tau}$	1.8698	$1.874^{+0.044}_{-0.044}$	$\sigma_8(0.15)$	0.7540	$0.749^{+0.027}_{-0.029}$
A_{143}^{tSZ}	7.02	> 0.999	D_{40}	1231.5	1232^{+35}_{-34}	$f\sigma_8(0.38)$	0.4761	$0.475^{+0.014}_{-0.015}$
A_{100}^{PS}	242	256^{+70}_{-70}	D_{220}	5734	5738^{+100}_{-96}	$\sigma_8(0.38)$	0.6685	$0.664^{+0.025}_{-0.027}$
A_{143}^{PS}	52.2	44^{+20}_{-20}	D_{810}	2538.6	2538^{+36}_{-34}	$f\sigma_8(0.51)$	0.4750	$0.474^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	59.1	42^{+20}_{-20}	D_{1420}	819.8	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6257	$0.622^{+0.023}_{-0.025}$
A_{217}^{PS}	124.3	115^{+30}_{-30}	D_{2000}	232.54	$231.6^{+4.7}_{-4.7}$	$f\sigma_8(0.61)$	0.4702	$0.469^{+0.014}_{-0.015}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9627	$0.964^{+0.018}_{-0.019}$	$\sigma_8(0.61)$	0.5954	$0.591^{+0.023}_{-0.024}$
A_{100}^{dustTT}	8.77	$8.9^{+4.8}_{-4.7}$	Y_P	0.2433	$0.2442^{+0.0063}_{-0.0063}$	$f\sigma_8(2.33)$	0.2993	$0.298^{+0.011}_{-0.012}$
A_{143}^{dustTT}	10.97	$10.8^{+4.6}_{-4.6}$	Y_P^{BBN}	0.2446	$0.2455^{+0.0063}_{-0.0063}$	$\sigma_8(2.33)$	0.3092	$0.307^{+0.012}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	20.5	$18.5^{+8.4}_{-8.4}$	$10^5 D/H$	2.539	$2.56^{+0.12}_{-0.11}$	f_{2000}^{143}	27.1	29^{+8}_{-8}
A_{217}^{dustTT}	96.2	94^{+20}_{-20}	Age/Gyr	13.913	$13.87^{+0.46}_{-0.45}$	$f_{2000}^{143 \times 217}$	30.8	31^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.095}$	z_*	1089.54	$1089.67^{+0.88}_{-0.84}$	f_{2000}^{217}	105.3	$106.4^{+5.2}_{-5.1}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.075}$	r_*	146.06	$145.4^{+4.5}_{-4.4}$	χ_{lensing}^2	8.66	9.11 (ν : 0.2)
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04154	$1.0414^{+0.0014}_{-0.0014}$	χ_{small}^2	396.05	397.1 (ν : 1.8)
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.024	$13.97^{+0.42}_{-0.41}$	χ_{lowl}^2	23.64	23.7 (ν : 0.7)
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.47	$1059.7^{+1.8}_{-1.8}$	χ_{plik}^2	2343.0	2359.2 (ν : 17.5)
A_{217}^{dustTE}	2.07	$2.08^{+0.70}_{-0.69}$	r_{drag}	148.76	$148.1^{+4.7}_{-4.5}$	$\chi_{6\text{DF}}^2$	0.011	0.060 (ν : 0.0)
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.13969	$0.1401^{+0.0034}_{-0.0034}$	χ_{MGS}^2	1.41	1.29 (ν : 0.1)
c_{217}	0.99814	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16037	$0.1605^{+0.0011}_{-0.0010}$	χ_{DR12BAO}^2	3.91	4.9 (ν : 1.3)
H_0	67.21	$67.3^{+3.0}_{-2.9}$	z_{eq}	3399	3394^{+64}_{-61}	χ_{prior}^2	1.5	11.5 (ν : 10.2)
Ω_Λ	0.6917	$0.689^{+0.018}_{-0.019}$	k_{eq}	0.010266	$0.01030^{+0.00028}_{-0.00027}$	χ_{CMB}^2	2771.4	2789.1 (ν : 18.0)
Ω_m	0.3083	$0.311^{+0.019}_{-0.018}$	$100\theta_{\text{eq}}$	0.8138	$0.815^{+0.012}_{-0.012}$	χ_{BAO}^2	5.33	6.2 (ν : 0.9)
$\Omega_m h^2$	0.1393	$0.1408^{+0.0081}_{-0.0076}$	$100\theta_{s,\text{eq}}$	0.4497	$0.4502^{+0.0060}_{-0.0061}$			
$\Omega_\nu h^2$	0.00000	< 0.00167	$H(0.15)$	72.41	$72.6^{+3.0}_{-2.9}$			

Best-fit $\chi_{\text{eff}}^2 = 2778.17$; $\bar{\chi}_{\text{eff}}^2 = 2806.81$; $R - 1 = 0.00810$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.91 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.66 small_100x143_offlike5_EE_Aplanck_B: 396.05 comman-
der_dx12.v3.2.29: 23.64 plik_rd12_HM_v22b_TTTEEE: 2343.02

9.35 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022338	$0.02238^{+0.00046}_{-0.00047}$	$\Omega_m h^3$	0.0936	$0.0951^{+0.0092}_{-0.0086}$	$D_M(0.15)$	644.6	643^{+27}_{-26}
$\Omega_c h^2$	0.1168	$0.1181^{+0.0078}_{-0.0072}$	σ_8	0.8146	$0.812^{+0.028}_{-0.030}$	$H(0.38)$	82.43	$82.7^{+3.0}_{-2.9}$
$100\theta_{MC}$	1.04130	$1.0412^{+0.0011}_{-0.0011}$	S_8	0.8245	$0.825^{+0.028}_{-0.029}$	$D_M(0.38)$	1538	1534^{+61}_{-59}
τ	0.0537	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4516	$0.452^{+0.015}_{-0.016}$	$H(0.51)$	89.04	$89.4^{+3.2}_{-3.0}$
Σm_ν [eV]	0.001	< 0.153	$\sigma_8 \Omega_m^{0.25}$	0.6065	$0.605^{+0.019}_{-0.020}$	$D_M(0.51)$	1993	1987^{+77}_{-75}
N_{eff}	2.891	$2.97^{+0.46}_{-0.44}$	$\sigma_8/h^{0.5}$	0.9930	$0.988^{+0.024}_{-0.029}$	$H(0.61)$	94.58	$95.0^{+3.3}_{-3.1}$
$\ln(10^{10} A_s)$	3.0354	$3.042^{+0.045}_{-0.043}$	$r_{\text{drag}} h$	100.11	$99.8^{+2.1}_{-2.2}$	$D_M(0.61)$	2320	2313^{+88}_{-86}
n_s	0.9631	$0.964^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	2.443	$2.441^{+0.055}_{-0.056}$	$H(2.33)$	233.6	$234.9^{+6.8}_{-6.5}$
y_{cal}	1.0005	$1.0006^{+0.0066}_{-0.0062}$	z_{re}	7.55	$7.7^{+2.0}_{-2.0}$	$D_M(2.33)$	5810	5785^{+190}_{-190}
A_{217}^{CIB}	43.5	46^{+20}_{-20}	$10^9 A_s$	2.081	$2.095^{+0.096}_{-0.088}$	$f\sigma_8(0.15)$	0.4558	$0.456^{+0.014}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.95	—	$10^9 A_s e^{-2\tau}$	1.8692	$1.875^{+0.044}_{-0.045}$	$\sigma_8(0.15)$	0.7530	$0.750^{+0.026}_{-0.029}$
A_{143}^{tSZ}	6.93	> 0.992	D_{40}	1230.2	1231^{+35}_{-34}	$f\sigma_8(0.38)$	0.4749	$0.475^{+0.014}_{-0.015}$
A_{100}^{PS}	243	256^{+70}_{-70}	D_{220}	5734	5739^{+99}_{-95}	$\sigma_8(0.38)$	0.6677	$0.665^{+0.024}_{-0.026}$
A_{143}^{PS}	51.6	44^{+20}_{-20}	D_{810}	2538.6	2538^{+36}_{-34}	$f\sigma_8(0.51)$	0.4739	$0.474^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	58.1	42^{+20}_{-20}	D_{1420}	819.9	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6249	$0.622^{+0.023}_{-0.025}$
A_{217}^{PS}	124.1	115^{+30}_{-30}	D_{2000}	232.56	$231.6^{+4.7}_{-4.6}$	$f\sigma_8(0.61)$	0.4692	$0.469^{+0.015}_{-0.015}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9631	$0.964^{+0.018}_{-0.018}$	$\sigma_8(0.61)$	0.5947	$0.592^{+0.022}_{-0.024}$
A_{100}^{dustTT}	8.79	$8.9^{+4.7}_{-4.7}$	Y_P	0.2433	$0.2444^{+0.0062}_{-0.0063}$	$f\sigma_8(2.33)$	0.2990	$0.298^{+0.011}_{-0.011}$
A_{143}^{dustTT}	10.96	$10.8^{+4.6}_{-4.6}$	Y_P^{BBN}	0.2446	$0.2457^{+0.0062}_{-0.0063}$	$\sigma_8(2.33)$	0.3089	$0.308^{+0.012}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.5^{+8.3}_{-8.4}$	$10^5 D/H$	2.538	$2.56^{+0.12}_{-0.11}$	f_{2000}^{143}	26.9	29^{+8}_{-8}
A_{217}^{dustTT}	96.1	94^{+20}_{-20}	Age/Gyr	13.910	$13.85^{+0.46}_{-0.45}$	$f_{2000}^{143 \times 217}$	30.7	31^{+5}_{-5}
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.095}$	z_*	1089.52	$1089.67^{+0.89}_{-0.84}$	f_{2000}^{217}	105.3	$106.4^{+5.2}_{-5.1}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.075}$	r_*	146.09	$145.3^{+4.5}_{-4.4}$	χ_{lensing}^2	8.61	9.12 (ν : 0.2)
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	1.04156	$1.0414^{+0.0014}_{-0.0014}$	χ_{small}^2	395.92	397.2 (ν : 1.9)
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.026	$13.96^{+0.42}_{-0.40}$	χ_{lowl}^2	23.52	23.6 (ν : 0.6)
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.20}$	z_{drag}	1059.51	$1059.7^{+1.7}_{-1.8}$	χ_{plik}^2	2343.5	2359.3 (ν : 17.7)
A_{217}^{dustTE}	2.07	$2.08^{+0.71}_{-0.69}$	r_{drag}	148.78	$148.0^{+4.7}_{-4.5}$	χ_{JLA}^2	1034.88	1035.07 (ν : 0.1)
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.13967	$0.1402^{+0.0034}_{-0.0034}$	$\chi_{6\text{DF}}^2$	0.006	0.048 (ν : 0.0)
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16037	$0.1606^{+0.0011}_{-0.00099}$	χ_{MGS}^2	1.47	1.37 (ν : 0.1)
H_0	67.28	$67.4^{+2.9}_{-2.8}$	z_{eq}	3396	3391^{+61}_{-59}	χ_{DR12BAO}^2	3.77	4.6 (ν : 0.9)
Ω_Λ	0.6926	$0.690^{+0.017}_{-0.018}$	k_{eq}	0.010256	$0.01030^{+0.00029}_{-0.00027}$	χ_{prior}^2	1.4	11.5 (ν : 10.1)
Ω_m	0.3074	$0.310^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	0.8145	$0.815^{+0.012}_{-0.012}$	χ_{CMB}^2	2771.6	2789.2 (ν : 18.1)
$\Omega_m h^2$	0.1392	$0.1409^{+0.0081}_{-0.0075}$	$100\theta_{s,\text{eq}}$	0.4500	$0.4505^{+0.0058}_{-0.0059}$	χ_{BAO}^2	5.25	6.0 (ν : 0.6)
$\Omega_\nu h^2$	0.00001	< 0.00162	$H(0.15)$	72.48	$72.7^{+2.9}_{-2.8}$			

Best-fit $\chi_{\text{eff}}^2 = 3813.11$; $\bar{\chi}_{\text{eff}}^2 = 3841.73$; $R - 1 = 0.00935$
 χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.77 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.61 small_100x143_offlike5_EE_Aplanck_B: 395.92 comman-
der_dx12.v3.2.29: 23.52 plik_rd12_HM_v22b_TTTEEE: 2343.54 SN - JLA Pantheon18: 1034.88

9.36 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022306	$0.02235^{+0.00044}_{-0.00044}$	$\Omega_m h^3$	0.0935	$0.0946^{+0.0079}_{-0.0073}$	$D_M(0.15)$	646.2	645^{+24}_{-23}
$\Omega_c h^2$	0.1169	$0.1178^{+0.0067}_{-0.0062}$	σ_8	0.8147	$0.810^{+0.026}_{-0.030}$	$H(0.38)$	82.29	$82.5^{+2.7}_{-2.6}$
$100\theta_{MC}$	1.04130	$1.0412^{+0.0010}_{-0.0010}$	S_8	0.8271	$0.825^{+0.028}_{-0.029}$	$D_M(0.38)$	1542	1538^{+55}_{-53}
τ	0.0531	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4530	$0.452^{+0.016}_{-0.016}$	$H(0.51)$	88.92	$89.2^{+2.7}_{-2.6}$
Σm_ν [eV]	0.001	< 0.155	$\sigma_8 \Omega_m^{0.25}$	0.6075	$0.605^{+0.018}_{-0.019}$	$D_M(0.51)$	1997	1993^{+68}_{-67}
N_{eff}	2.883	$2.95^{+0.40}_{-0.37}$	$\sigma_8/h^{0.5}$	0.9945	$0.988^{+0.025}_{-0.030}$	$H(0.61)$	94.47	$94.8^{+2.8}_{-2.7}$
$\ln(10^{10} A_s)$	3.0346	$3.041^{+0.044}_{-0.041}$	$r_{\text{drag}} h$	99.88	$99.7^{+2.2}_{-2.3}$	$D_M(0.61)$	2325	2319^{+78}_{-76}
n_s	0.9620	$0.963^{+0.016}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.447	$2.443^{+0.055}_{-0.056}$	$H(2.33)$	233.6	$234.7^{+5.9}_{-5.6}$
y_{cal}	1.0006	$1.0006^{+0.0066}_{-0.0062}$	z_{re}	7.50	$7.7^{+2.0}_{-2.0}$	$D_M(2.33)$	5816	5796^{+170}_{-160}
A_{217}^{CIB}	44.4	46^{+20}_{-20}	$10^9 A_s$	2.079	$2.092^{+0.093}_{-0.085}$	$f\sigma_8(0.15)$	0.4571	$0.456^{+0.014}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.84	—	$10^9 A_s e^{-2\tau}$	1.8698	$1.873^{+0.041}_{-0.041}$	$\sigma_8(0.15)$	0.7529	$0.749^{+0.025}_{-0.028}$
A_{143}^{tSZ}	6.99	> 1.01	D_{40}	1232.3	1233^{+33}_{-32}	$f\sigma_8(0.38)$	0.4758	$0.475^{+0.014}_{-0.015}$
A_{100}^{PS}	244	255^{+70}_{-70}	D_{220}	5734	5738^{+98}_{-94}	$\sigma_8(0.38)$	0.6675	$0.664^{+0.023}_{-0.026}$
A_{143}^{PS}	50.4	44^{+20}_{-20}	D_{810}	2538.7	2538^{+36}_{-34}	$f\sigma_8(0.51)$	0.4746	$0.473^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	55.7	42^{+20}_{-20}	D_{1420}	819.7	818^{+13}_{-12}	$\sigma_8(0.51)$	0.6246	$0.621^{+0.022}_{-0.025}$
A_{217}^{PS}	122.9	115^{+30}_{-30}	D_{2000}	232.49	$231.7^{+4.6}_{-4.4}$	$f\sigma_8(0.61)$	0.4698	$0.468^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9620	$0.963^{+0.016}_{-0.017}$	$\sigma_8(0.61)$	0.5943	$0.591^{+0.021}_{-0.024}$
A_{100}^{dustTT}	8.71	$8.9^{+4.7}_{-4.7}$	Y_P	0.2432	$0.2440^{+0.0054}_{-0.0053}$	$f\sigma_8(2.33)$	0.2988	$0.298^{+0.011}_{-0.011}$
A_{143}^{dustTT}	10.92	$10.8^{+4.6}_{-4.6}$	Y_P^{BBN}	0.2445	$0.2453^{+0.0054}_{-0.0053}$	$\sigma_8(2.33)$	0.3086	$0.307^{+0.012}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.5^{+8.3}_{-8.3}$	$10^5 D/H$	2.541	$2.56^{+0.11}_{-0.10}$	f_{2000}^{143}	27.2	29^{+8}_{-7}
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	Age/Gyr	13.923	$13.88^{+0.39}_{-0.39}$	$f_{2000}^{143 \times 217}$	30.8	31^{+5}_{-5}
A_{100}^{dustTE}	0.113	$0.114^{+0.098}_{-0.096}$	z_*	1089.56	$1089.65^{+0.83}_{-0.77}$	f_{2000}^{217}	105.5	$106.3^{+5.1}_{-5.0}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.074}_{-0.075}$	r_*	146.12	$145.6^{+3.8}_{-3.8}$	χ_{lensing}^2	8.65	9.09 (ν : 0.2)
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	1.04157	$1.0414^{+0.0012}_{-0.0012}$	χ_{simall}^2	395.86	397.1 (ν : 1.8)
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.029	$13.98^{+0.35}_{-0.35}$	χ_{lowl}^2	23.71	23.7 (ν : 0.6)
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.21}_{-0.20}$	z_{drag}	1059.44	$1059.6^{+1.6}_{-1.6}$	χ_{plik}^2	2343.0	2358.9 (ν : 17.0)
A_{217}^{dustTE}	2.09	$2.08^{+0.72}_{-0.70}$	r_{drag}	148.83	$148.2^{+4.0}_{-3.9}$	χ_{Aver15}^2	0.01	0.28 (ν : 0.1)
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.13963	$0.1400^{+0.0029}_{-0.0029}$	$\chi_{6\text{DF}}^2$	0.015	0.060 (ν : 0.0)
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16038	$0.16052^{+0.00094}_{-0.00089}$	χ_{MGS}^2	1.34	1.28 (ν : 0.1)
H_0	67.11	$67.2^{+2.6}_{-2.6}$	z_{eq}	3402	3395^{+63}_{-60}	χ_{DR12BAO}^2	4.04	4.9 (ν : 1.3)
Ω_Λ	0.6908	$0.689^{+0.017}_{-0.019}$	k_{eq}	0.010269	$0.01029^{+0.00026}_{-0.00025}$	χ_{prior}^2	1.5	11.4 (ν : 10.0)
Ω_m	0.3092	$0.311^{+0.019}_{-0.017}$	$100\theta_{\text{eq}}$	0.8133	$0.815^{+0.012}_{-0.012}$	χ_{CMB}^2	2771.3	2788.8 (ν : 17.6)
$\Omega_m h^2$	0.1393	$0.1406^{+0.0071}_{-0.0066}$	$100\theta_{s,\text{eq}}$	0.4494	$0.4501^{+0.0058}_{-0.0060}$	χ_{BAO}^2	5.40	6.2 (ν : 0.9)
$\Omega_\nu h^2$	0.00001	< 0.00165	$H(0.15)$	72.32	$72.5^{+2.6}_{-2.5}$			

Best-fit $\chi_{\text{eff}}^2 = 2778.19$; $\bar{\chi}_{\text{eff}}^2 = 2806.77$; $R - 1 = 0.00843$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.01 BAO - 6DF: 0.01 MGS: 1.34 DR12BAO: 4.04 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consect8: 8.65 simall_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2.29: 23.71 plik_rd12_HM_v22b_TTTEEE: 2343.05

9.37 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022312	$0.02235^{+0.00044}_{-0.00044}$	σ_8	0.8166	$0.812^{+0.026}_{-0.030}$	$D_M(0.38)$	1537	1535^{+54}_{-51}
$\Omega_c h^2$	0.1178	$0.1183^{+0.0063}_{-0.0060}$	S_8	0.8290	$0.826^{+0.028}_{-0.029}$	$H(0.51)$	89.20	$89.4^{+2.6}_{-2.5}$
$100\theta_{MC}$	1.04119	$1.0411^{+0.0010}_{-0.00099}$	$\sigma_8 \Omega_m^{0.5}$	0.4540	$0.453^{+0.015}_{-0.016}$	$D_M(0.51)$	1991	1989^{+67}_{-65}
τ	0.0531	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6089	$0.606^{+0.018}_{-0.020}$	$H(0.61)$	94.77	$95.0^{+2.7}_{-2.6}$
Σm_ν [eV]	0.003	< 0.157	$\sigma_8/h^{0.5}$	0.9952	$0.989^{+0.024}_{-0.030}$	$D_M(0.61)$	2317	2315^{+77}_{-74}
N_{eff}	2.930	$2.97^{+0.38}_{-0.36}$	$r_{\text{drag}} h$	99.87	$99.7^{+2.2}_{-2.3}$	$H(2.33)$	234.3	$235.1^{+5.6}_{-5.4}$
$\ln(10^{10} A_s)$	3.0358	$3.041^{+0.044}_{-0.041}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.443^{+0.056}_{-0.056}$	$D_M(2.33)$	5797	5786^{+160}_{-160}
n_s	0.9630	$0.964^{+0.016}_{-0.016}$	z_{re}	7.51	$7.7^{+2.0}_{-2.0}$	$f\sigma_8(0.15)$	0.4581	$0.457^{+0.014}_{-0.015}$
y_{cal}	1.0002	$1.0006^{+0.0066}_{-0.0061}$	$10^9 A_s$	2.082	$2.094^{+0.093}_{-0.085}$	$\sigma_8(0.15)$	0.7547	$0.750^{+0.024}_{-0.028}$
A_{217}^{CIB}	45.5	46^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8720	$1.875^{+0.039}_{-0.040}$	$f\sigma_8(0.38)$	0.4769	$0.475^{+0.014}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.63	—	D_{40}	1230.6	1232^{+34}_{-32}	$\sigma_8(0.38)$	0.6690	$0.665^{+0.023}_{-0.026}$
A_{143}^{tSZ}	7.08	> 0.982	D_{220}	5727	5736^{+99}_{-94}	$f\sigma_8(0.51)$	0.4757	$0.474^{+0.013}_{-0.014}$
A_{100}^{PS}	247	256^{+70}_{-70}	D_{810}	2536.6	2538^{+36}_{-34}	$\sigma_8(0.51)$	0.6261	$0.622^{+0.021}_{-0.025}$
A_{143}^{PS}	48.9	45^{+20}_{-20}	D_{1420}	818.2	818^{+13}_{-12}	$f\sigma_8(0.61)$	0.4708	$0.469^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	51.3	42^{+20}_{-20}	D_{2000}	231.78	$231.4^{+4.5}_{-4.3}$	$\sigma_8(0.61)$	0.5957	$0.592^{+0.021}_{-0.024}$
A_{217}^{PS}	121.3	115^{+30}_{-30}	$n_{s,0.002}$	0.9630	$0.964^{+0.016}_{-0.016}$	$f\sigma_8(2.33)$	0.2995	$0.298^{+0.010}_{-0.011}$
A^{kSZ}	0.0	—	Y_{P}	0.2438	$0.2444^{+0.0051}_{-0.0050}$	$\sigma_8(2.33)$	0.3093	$0.308^{+0.011}_{-0.013}$
A_{100}^{dustTT}	8.79	$8.9^{+4.8}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.2457^{+0.0051}_{-0.0051}$	f_{2000}^{143}	28.0	29^{+8}_{-7}
A_{143}^{dustTT}	10.98	$10.8^{+4.7}_{-4.7}$	$10^5 D/H$	2.556	$2.56^{+0.10}_{-0.094}$	$f_{2000}^{143 \times 217}$	31.3	32^{+5}_{-5}
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.6^{+8.3}_{-8.4}$	Age/Gyr	13.879	$13.85^{+0.37}_{-0.37}$	f_{2000}^{217}	105.90	$106.5^{+5.0}_{-4.8}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	z_*	1089.68	$1089.72^{+0.77}_{-0.72}$	χ_{lensing}^2	8.75	9.14 (ν : 0.2)
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.096}$	r_*	145.65	$145.3^{+3.6}_{-3.6}$	χ_{simall}^2	395.85	397.1 (ν : 1.7)
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.074}_{-0.075}$	$100\theta_*$	1.04143	$1.0413^{+0.0012}_{-0.0012}$	χ_{lowl}^2	23.62	23.6 (ν : 0.6)
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.986	$13.95^{+0.34}_{-0.33}$	χ_{plik}^2	2343.2	2358.9 (ν : 16.9)
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	z_{drag}	1059.55	$1059.7^{+1.6}_{-1.6}$	χ_{Aver15}^2	0.00	0.29 (ν : 0.1)
$A_{143 \times 217}^{\text{dustTE}}$	0.662	$0.67^{+0.21}_{-0.20}$	r_{drag}	148.35	$148.0^{+3.8}_{-3.7}$	χ_{Cooke17}^2	0.43	0.48 (ν : 0.1)
A_{217}^{dustTE}	2.07	$2.08^{+0.71}_{-0.70}$	k_{D}	0.13995	$0.1402^{+0.0028}_{-0.0027}$	$\chi_{6\text{DF}}^2$	0.016	0.061 (ν : 0.0)
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16051	$0.16060^{+0.00087}_{-0.00083}$	χ_{MGS}^2	1.34	1.28 (ν : 0.1)
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3401	3394^{+63}_{-59}	χ_{DR12BAO}^2	4.06	4.9 (ν : 1.3)
H_0	67.32	$67.4^{+2.6}_{-2.6}$	k_{eq}	0.010298	$0.01031^{+0.00024}_{-0.00024}$	χ_{prior}^2	1.6	11.5 (ν : 10.1)
Ω_Λ	0.6909	$0.689^{+0.017}_{-0.020}$	$100\theta_{\text{eq}}$	0.8134	$0.815^{+0.012}_{-0.012}$	χ_{CMB}^2	2771.4	2788.8 (ν : 17.4)
Ω_{m}	0.3091	$0.311^{+0.020}_{-0.017}$	$100\theta_{\text{s,eq}}$	0.4495	$0.4502^{+0.0058}_{-0.0060}$	χ_{BAO}^2	5.41	6.2 (ν : 0.9)
$\Omega_{\text{m}} h^2$	0.1401	$0.1411^{+0.0067}_{-0.0063}$	$H(0.15)$	72.55	$72.6^{+2.5}_{-2.5}$	χ_{Abund}^2	0.44	0.77 (ν : 0.2)
$\Omega_\nu h^2$	0.00003	< 0.00167	$D_M(0.15)$	644.1	644^{+24}_{-23}			
$\Omega_{\text{m}} h^3$	0.0943	$0.0951^{+0.0075}_{-0.0070}$	$H(0.38)$	82.55	$82.7^{+2.6}_{-2.5}$			

Best-fit $\chi_{\text{eff}}^2 = 2778.82$; $\bar{\chi}_{\text{eff}}^2 = 2807.26$; $R - 1 = 0.00868$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.00 D.Cooke2017: 0.43 BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.06 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 8.75
simall.100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12.v3.2_29: 23.62 plik_rd12_HM_v22b_TTTEEE: 2343.18

9.38 base_nnu_mnu_plikHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00045}_{-0.00047}$	$\Omega_m h^3$	$0.0951^{+0.0093}_{-0.0086}$	$D_M(0.15)$	643^{+27}_{-26}
$\Omega_c h^2$	$0.1181^{+0.0078}_{-0.0071}$	σ_8	$0.812^{+0.027}_{-0.030}$	$H(0.38)$	$82.7^{+3.0}_{-2.9}$
$100\theta_{MC}$	$1.0412^{+0.0011}_{-0.0011}$	S_8	$0.825^{+0.028}_{-0.029}$	$D_M(0.38)$	1534^{+60}_{-59}
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.015}_{-0.016}$	$H(0.51)$	$89.4^{+3.2}_{-3.0}$
Σm_ν [eV]	< 0.154	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.019}_{-0.020}$	$D_M(0.51)$	1987^{+76}_{-75}
N_{eff}	$2.97^{+0.46}_{-0.44}$	$\sigma_8/h^{0.5}$	$0.989^{+0.024}_{-0.029}$	$H(0.61)$	$95.0^{+3.3}_{-3.1}$
$\ln(10^{10} A_s)$	$3.043^{+0.044}_{-0.035}$	$r_{\text{drag}} h$	$99.8^{+2.1}_{-2.2}$	$D_M(0.61)$	2312^{+87}_{-86}
n_s	$0.964^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.054}_{-0.053}$	$H(2.33)$	$234.9^{+6.8}_{-6.5}$
y_{cal}	$1.0006^{+0.0066}_{-0.0061}$	z_{re}	< 9.50	$D_M(2.33)$	5784^{+190}_{-190}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.098^{+0.094}_{-0.072}$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.874^{+0.044}_{-0.044}$	$\sigma_8(0.15)$	$0.751^{+0.026}_{-0.028}$
A_{143}^{tSZ}	> 0.992	D_{40}	1231^{+35}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.015}$
A_{100}^{PS}	256^{+70}_{-70}	D_{220}	5738^{+99}_{-95}	$\sigma_8(0.38)$	$0.665^{+0.024}_{-0.025}$
A_{143}^{PS}	44^{+20}_{-20}	D_{810}	2538^{+36}_{-34}	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.623^{+0.023}_{-0.024}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.6^{+4.7}_{-4.7}$	$f\sigma_8(0.61)$	$0.469^{+0.014}_{-0.014}$
A^{kSZ}	—	$n_{s,0.002}$	$0.964^{+0.018}_{-0.018}$	$\sigma_8(0.61)$	$0.593^{+0.022}_{-0.023}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P	$0.2444^{+0.0062}_{-0.0062}$	$f\sigma_8(2.33)$	$0.299^{+0.011}_{-0.011}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.6}$	Y_{BBN}	$0.2457^{+0.0062}_{-0.0063}$	$\sigma_8(2.33)$	$0.308^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.3}_{-8.4}$	$10^5 D/H$	$2.56^{+0.12}_{-0.11}$	f_{2000}^{143}	29^{+8}_{-8}
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.85^{+0.46}_{-0.45}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.095}$	z_*	$1089.66^{+0.89}_{-0.83}$	f_{2000}^{217}	$106.4^{+5.2}_{-5.1}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.075}$	r_*	$145.3^{+4.5}_{-4.4}$	χ_{lensing}^2	$9.10 (\nu: 0.2)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.0414^{+0.0014}_{-0.0014}$	χ_{simall}^2	$397.2 (\nu: 1.9)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.96^{+0.42}_{-0.41}$	χ_{lowl}^2	$23.6 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1059.8^{+1.7}_{-1.8}$	χ_{plik}^2	$2359.2 (\nu: 17.6)$
A_{217}^{dustTE}	$2.08^{+0.72}_{-0.69}$	r_{drag}	$148.0^{+4.7}_{-4.6}$	χ_{JLA}^2	$1035.06 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.1402^{+0.0034}_{-0.0034}$	$\chi_{6\text{DF}}^2$	$0.047 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.1606^{+0.0011}_{-0.00099}$	χ_{MGS}^2	$1.38 (\nu: 0.1)$
H_0	$67.5^{+2.9}_{-2.8}$	z_{eq}	3390^{+60}_{-59}	χ_{DR12BAO}^2	$4.6 (\nu: 0.9)$
Ω_Λ	$0.690^{+0.017}_{-0.018}$	k_{eq}	$0.01029^{+0.00029}_{-0.00027}$	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_m	$0.310^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.012}$	χ_{CMB}^2	$2789.0 (\nu: 17.9)$
$\Omega_m h^2$	$0.1409^{+0.0081}_{-0.0075}$	$100\theta_{s,\text{eq}}$	$0.4506^{+0.0058}_{-0.0057}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$\Omega_\nu h^2$	< 0.00164	$H(0.15)$	$72.7^{+2.9}_{-2.8}$		

$$\bar{\chi}_{\text{eff}}^2 = 3841.56; R - 1 = 0.01012$$

9.39 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.02221^{+0.00059}_{-0.00061} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4546	$0.452^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$H(0.38)$	83.07	$83.0^{+4.0}_{-3.8} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1191	$0.119^{+0.010}_{-0.0093} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6104	$0.606^{+0.023}_{-0.023} \quad (-0.1\sigma)$	$D_M(0.38)$	1527	$1530^{+80}_{-77} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04103	$1.0410^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9955	$0.987^{+0.028}_{-0.034} \quad (+0.0\sigma)$	$H(0.51)$	89.74	$89.7^{+4.1}_{-4.0} \quad (-0.2\sigma)$
τ	0.0530	$0.055^{+0.021}_{-0.019} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	100.10	$99.8^{+2.6}_{-2.6} \quad (-0.1\sigma)$	$D_M(0.51)$	1978	$1982^{+100}_{-98} \quad (+0.2\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.003	$< 0.182 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.443	$2.434^{+0.062}_{-0.062} \quad (+0.0\sigma)$	$H(0.61)$	95.32	$95.3^{+4.2}_{-4.1} \quad (-0.2\sigma)$
N_{eff}	3.02	$3.04^{+0.62}_{-0.58} \quad (-0.2\sigma)$	z_{re}	7.56	$7.7^{+2.1}_{-2.0} \quad (+0.0\sigma)$	$D_M(0.61)$	2302	$2306^{+120}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.0373	$3.041^{+0.049}_{-0.045} \quad (-0.1\sigma)$	$10^9 A_s$	2.085	$2.09^{+0.10}_{-0.092} \quad (-0.1\sigma)$	$H(2.33)$	235.4	$235.7^{+8.8}_{-8.5} \quad (-0.2\sigma)$
n_s	0.9647	$0.966^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.875	$1.876^{+0.051}_{-0.053} \quad (-0.3\sigma)$	$D_M(2.33)$	5765	$5768^{+250}_{-240} \quad (+0.2\sigma)$
y_{cal}	1.0004	$1.0006^{+0.0062}_{-0.0062} \quad (+0.0\sigma)$	D_{40}	1227.0	$1225^{+38}_{-38} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4588	$0.457^{+0.018}_{-0.017} \quad (-0.0\sigma)$
A_{100}^{PS}	244	$242^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	5710	$5713^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7578	$0.750^{+0.032}_{-0.032} \quad (-0.1\sigma)$
A_{143}^{PS}	37	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2531.6	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4781	$0.475^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{PS}	99.5	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	814.0	$815^{+14}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6719	$0.665^{+0.030}_{-0.029} \quad (-0.1\sigma)$
A_{217}^{CIB}	42.6	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	229.8	$230.0^{+5.9}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4770	$0.474^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	4.28	$< 8.80 \quad (-0.6\sigma)$	$n_{s,0.002}$	0.9647	$0.966^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6289	$0.623^{+0.028}_{-0.028} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.542	$0.65^{+0.32}_{-0.33}$	Y_P	0.2450	$0.2452^{+0.0081}_{-0.0082} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4723	$0.469^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.66	—	Y_P^{BBN}	0.2464	$0.2465^{+0.0082}_{-0.0082} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5984	$0.592^{+0.027}_{-0.026} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.00	—	10^5D/H	2.611	$2.61^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3010	$0.299^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	3.7	—	Age/Gyr	13.80	$13.81^{+0.59}_{-0.57} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3109	$0.308^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	0.999	$1.01^{+0.50}_{-0.50}$	z_*	1090.04	$1090.0^{+1.3}_{-1.2} \quad (-0.2\sigma)$	f_{2000}^{143}	30.8	$30^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	0.977	$0.97^{+0.46}_{-0.46}$	r_*	144.9	$144.9^{+5.8}_{-5.6} \quad (+0.2\sigma)$	f_{2000}^{217}	107.4	$107.3^{+6.3}_{-6.1} \quad (-0.4\sigma)$
A_{217}^{dust}	0.974	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	1.04122	$1.0412^{+0.0018}_{-0.0018} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.6	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.009	$1.03^{+0.41}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	13.92	$13.91^{+0.54}_{-0.52} \quad (+0.2\sigma)$	χ_{lensing}^2	8.90	$9.51 \quad (\nu: 0.4) \quad (-0.0\sigma)$
c_{100}	0.99736	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	1059.44	$1059.5^{+2.2}_{-2.3} \quad (-0.2\sigma)$	χ_{small}^2	395.85	$397.1 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{217}	1.00127	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	147.6	$147.6^{+6.0}_{-5.8} \quad (+0.2\sigma)$	χ_{lowl}^2	23.31	$23.2 \quad (\nu: 0.8) \quad (+0.0\sigma)$
H_0	67.80	$67.6^{+3.9}_{-3.7} \quad (-0.2\sigma)$	k_D	0.14025	$0.1403^{+0.0043}_{-0.0042} \quad (-0.2\sigma)$	χ_{CamSpec}^2	7049.9	$7063.7 \quad (\nu: 14.8)$
Ω_Λ	0.6925	$0.690^{+0.020}_{-0.022} \quad (-0.1\sigma)$	$100\theta_D$	0.16096	$0.1610^{+0.0015}_{-0.0015} \quad (-0.2\sigma)$	$\chi_{6\text{DF}}^2$	0.006	$0.062 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	0.3075	$0.310^{+0.022}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	3387	$3380^{+78}_{-82} \quad (+0.2\sigma)$	χ_{MGS}^2	1.47	$1.38 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.1414	$0.142^{+0.011}_{-0.0098} \quad (-0.2\sigma)$	k_{eq}	0.010324	$0.01031^{+0.00035}_{-0.00034} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	3.77	$4.8 \quad (\nu: 1.4) \quad (+0.0\sigma)$
$\Omega_\nu h^2$	0.00003	$< 0.00194 \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8155	$0.817^{+0.016}_{-0.014} \quad (-0.2\sigma)$	χ_{prior}^2	2.3	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_m h^3$	0.0959	$0.096^{+0.012}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4506	$0.4515^{+0.0080}_{-0.0073} \quad (-0.1\sigma)$	χ_{CMB}^2	7478.0	$7493.5 \quad (\nu: 16.0) \quad (+1095.3\sigma)$
σ_8	0.8198	$0.812^{+0.034}_{-0.033} \quad (-0.1\sigma)$	$H(0.15)$	73.04	$72.9^{+3.9}_{-3.7} \quad (-0.2\sigma)$	χ_{BAO}^2	5.25	$6.2 \quad (\nu: 1.0) \quad (+0.0\sigma)$
S_8	0.8299	$0.825^{+0.034}_{-0.033} \quad (-0.0\sigma)$	$D_M(0.15)$	639.7	$641^{+35}_{-34} \quad (+0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 7485.59$; $\Delta\chi_{\text{eff}}^2 = 6292.37$; $\bar{\chi}_{\text{eff}}^2 = 7507.28$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.66$; $R - 1 = 0.00494$
 χ_{eff}^2 : BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.47 (Δ 0.00) DR12BAO: 3.77 (Δ 0.01) CMB - smicadx12_Dec5_ftl_mv2_ndclpp-p.teb.consext8: 8.90 (Δ 0.09) small_100x143_offlike5_EE_Aplanck.L
395.85 (Δ 0.00) commander_dx12_v3_2.29: 23.31 (Δ -0.01) CamSpec like_10.7HM: 7049.94

9.40 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02219	$0.02223^{+0.00058}_{-0.00058} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4533	$0.451^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$H(0.38)$	83.01	$83.1^{+3.9}_{-3.7} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.1187	$0.119^{+0.010}_{-0.0093} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6092	$0.606^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	1527	$1526^{+77}_{-74} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04110	$1.0410^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9944	$0.987^{+0.027}_{-0.034} \quad (+0.0\sigma)$	$H(0.51)$	89.66	$89.8^{+4.0}_{-3.9} \quad (-0.2\sigma)$
τ	0.0530	$0.055^{+0.021}_{-0.019} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	100.22	$99.97^{+2.5}_{-2.4} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	1979	$1977^{+97}_{-93} \quad (+0.2\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.001	$< 0.177 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.440	$2.432^{+0.060}_{-0.061} \quad (+0.0\sigma)$	$H(0.61)$	95.23	$95.4^{+4.2}_{-4.0} \quad (-0.2\sigma)$
N_{eff}	3.01	$3.06^{+0.61}_{-0.57} \quad (-0.2\sigma)$	z_{re}	7.56	$7.8^{+2.0}_{-2.0} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	2304	$2301^{+110}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0365	$3.042^{+0.048}_{-0.044} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.083	$2.10^{+0.10}_{-0.091} \quad (-0.1\sigma)$	$H(2.33)$	235.1	$235.9^{+8.8}_{-8.4} \quad (-0.2\sigma)$
n_{s}	0.9648	$0.967^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.874	$1.877^{+0.051}_{-0.053} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	5771	$5759^{+240}_{-240} \quad (+0.2\sigma)$
y_{cal}	1.0004	$1.0006^{+0.0061}_{-0.0061} \quad (+0.0\sigma)$	D_{40}	1226.4	$1224^{+37}_{-38} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4576	$0.456^{+0.017}_{-0.017} \quad (-0.0\sigma)$
A_{100}^{PS}	239	$242^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	5711	$5714^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7569	$0.751^{+0.032}_{-0.031} \quad (-0.1\sigma)$
A_{143}^{PS}	39	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2532.1	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4770	$0.475^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{PS}	99.7	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	814.6	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6712	$0.666^{+0.029}_{-0.028} \quad (-0.1\sigma)$
A_{217}^{CIB}	45.3	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.0	$229.9^{+5.9}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4761	$0.474^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	6.10	$< 8.79 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	0.9648	$0.967^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6283	$0.623^{+0.028}_{-0.027} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.559	$0.65^{+0.32}_{-0.33}$	Y_{P}	0.2448	$0.2454^{+0.0080}_{-0.0081} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4714	$0.469^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.76	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2461	$0.2468^{+0.0080}_{-0.0081} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5979	$0.593^{+0.027}_{-0.026} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.01	—	$10^5 \mathrm{D}/\mathrm{H}$	2.607	$2.62^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3007	$0.299^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	0.9	—	$\mathrm{Age}/\mathrm{Gyr}$	13.82	$13.79^{+0.58}_{-0.56} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3106	$0.309^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.50}_{-0.50}$	z_{*}	1089.99	$1090.0^{+1.3}_{-1.2} \quad (-0.2\sigma)$	f_{2000}^{143}	30.8	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	0.986	$0.97^{+0.45}_{-0.47}$	r_{*}	145.1	$144.7^{+5.7}_{-5.5} \quad (+0.2\sigma)$	f_{2000}^{217}	107.3	$107.4^{+6.2}_{-6.1} \quad (-0.4\sigma)$
A_{217}^{dust}	0.963	$0.97^{+0.26}_{-0.27}$	$100\theta_{*}$	1.04129	$1.0412^{+0.0018}_{-0.0018} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.6	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.94	$13.90^{+0.53}_{-0.52} \quad (+0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.87	$9.55 \quad (\nu: 0.4) \quad (+0.0\sigma)$
c_{100}	0.99757	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	1059.40	$1059.6^{+2.2}_{-2.2} \quad (-0.2\sigma)$	χ_{small}^2	395.9	$397.1 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{217}	1.00137	$1.0012^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	147.8	$147.4^{+5.9}_{-5.8} \quad (+0.2\sigma)$	χ_{lowl}^2	23.25	$23.0 \quad (\nu: 0.7) \quad (-0.0\sigma)$
H_0	67.79	$67.8^{+3.7}_{-3.5} \quad (-0.2\sigma)$	k_{D}	0.14008	$0.1404^{+0.0042}_{-0.0042} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	7050.1	$7063.8 \quad (\nu: 14.9)$
Ω_{Λ}	0.6934	$0.691^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	0.16094	$0.1610^{+0.0015}_{-0.0015} \quad (-0.2\sigma)$	χ_{JLA}^2	1034.86	$1035.05 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{m}	0.3066	$0.309^{+0.020}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	3384	$3376^{+74}_{-79} \quad (+0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.003	$0.049 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.1409	$0.142^{+0.010}_{-0.0098} \quad (-0.2\sigma)$	k_{eq}	0.010301	$0.01031^{+0.00035}_{-0.00034} \quad (-0.2\sigma)$	χ_{MGS}^2	1.54	$1.47 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00189 \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	0.8161	$0.818^{+0.015}_{-0.014} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.65	$4.5 \quad (\nu: 1.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.0955	$0.096^{+0.012}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4510	$0.4518^{+0.0077}_{-0.0070} \quad (-0.1\sigma)$	χ_{prior}^2	2.2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	0.8187	$0.813^{+0.033}_{-0.032} \quad (-0.1\sigma)$	$H(0.15)$	73.00	$73.1^{+3.8}_{-3.6} \quad (-0.2\sigma)$	χ_{CMB}^2	7478.0	$7493.5 \quad (\nu: 16.0) \quad (+1098.1\sigma)$
S_8	0.8277	$0.824^{+0.033}_{-0.033} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	639.9	$640^{+34}_{-33} \quad (+0.2\sigma)$	χ_{BAO}^2	5.20	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 8520.27$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.12$; $\bar{\chi}_{\mathrm{eff}}^2 = 8542.17$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.67$; $R - 1 = 0.00504$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.54 (Δ 0.00) DR12BAO: 3.65 (Δ -0.01) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.87 (Δ 0.06) small_100x143_offlike5_EE_Aplanck: 395.85 (Δ -0.00) commander_dx12_v3.2_29: 23.25 (Δ -0.07) CamSpec like_10.7HM: 7050.07 SN - JLA Pantheon18: 1034.86 (Δ 0.00)

9.41 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02219^{+0.00055}_{-0.00055} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.452^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$H(0.38)$	82.61	$82.7^{+3.2}_{-3.0} \quad (-0.2\sigma)$
$\Omega_c h^2$	0.1180	$0.1183^{+0.0080}_{-0.0076} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6086	$0.605^{+0.021}_{-0.022} \quad (-0.0\sigma)$	$D_M(0.38)$	1536	$1536^{+64}_{-63} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04120	$1.0411^{+0.0014}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9947	$0.987^{+0.027}_{-0.033} \quad (+0.0\sigma)$	$H(0.51)$	89.25	$89.4^{+3.3}_{-3.1} \quad (-0.2\sigma)$
τ	0.0529	$0.055^{+0.021}_{-0.018} \quad (+0.1\sigma)$	$r_{\text{drag}} h$	99.98	$99.7^{+2.5}_{-2.6} \quad (-0.0\sigma)$	$D_M(0.51)$	1990	$1989^{+81}_{-79} \quad (+0.2\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.001	$< 0.172 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.444	$2.436^{+0.060}_{-0.060} \quad (+0.0\sigma)$	$H(0.61)$	94.82	$94.9^{+3.3}_{-3.2} \quad (-0.2\sigma)$
N_{eff}	2.953	$2.99^{+0.49}_{-0.45} \quad (-0.2\sigma)$	z_{re}	7.54	$7.7^{+2.0}_{-1.9} \quad (+0.0\sigma)$	$D_M(0.61)$	2316	$2315^{+92}_{-91} \quad (+0.2\sigma)$
$\ln(10^{10} A_s)$	3.0338	$3.039^{+0.045}_{-0.042} \quad (-0.1\sigma)$	$10^9 A_s$	2.078	$2.089^{+0.096}_{-0.086} \quad (-0.1\sigma)$	$H(2.33)$	234.4	$235.0^{+7.1}_{-6.7} \quad (-0.2\sigma)$
n_s	0.9628	$0.965^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8690	$1.872^{+0.045}_{-0.045} \quad (-0.3\sigma)$	$D_M(2.33)$	5795	$5787^{+190}_{-190} \quad (+0.2\sigma)$
y_{cal}	1.0002	$1.0006^{+0.0062}_{-0.0062} \quad (+0.0\sigma)$	D_{40}	1228.0	$1227^{+36}_{-35} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4577	$0.456^{+0.017}_{-0.017} \quad (-0.0\sigma)$
A_{100}^{PS}	239	$241^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	5705	$5713^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7547	$0.749^{+0.027}_{-0.030} \quad (-0.1\sigma)$
A_{143}^{PS}	38	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	2529.9	$2533^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4766	$0.475^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{217}^{PS}	99.8	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	814.4	$815^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6691	$0.664^{+0.025}_{-0.027} \quad (-0.1\sigma)$
A_{217}^{CIB}	44.5	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.1	$230.3^{+5.4}_{-5.3} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	0.4755	$0.473^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{143}^{tSZ}	5.75	$< 8.82 \quad (-0.7\sigma)$	$n_{s,0.002}$	0.9628	$0.965^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6262	$0.621^{+0.024}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.568	$0.65^{+0.32}_{-0.34}$	Y_P	0.2440	$0.2446^{+0.0065}_{-0.0064} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4707	$0.468^{+0.016}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.74	—	Y_P^{BBN}	0.2454	$0.2459^{+0.0065}_{-0.0064} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5958	$0.591^{+0.023}_{-0.025} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.04	—	10^5D/H	2.598	$2.60^{+0.15}_{-0.14} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2996	$0.298^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A^{kSZ}	1.4	—	Age/Gyr	13.873	$13.85^{+0.46}_{-0.46} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3094	$0.307^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	z_*	1089.94	$1089.9^{+1.1}_{-1.0} \quad (-0.2\sigma)$	f_{2000}^{143}	30.4	$30^{+9}_{-8} \quad (-0.2\sigma)$
A_{143}^{dust}	0.992	$0.97^{+0.45}_{-0.46}$	r_*	145.61	$145.3^{+4.5}_{-4.5} \quad (+0.2\sigma)$	f_{2000}^{217}	107.0	$107.0^{+5.9}_{-5.7} \quad (-0.4\sigma)$
A_{217}^{dust}	0.961	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	1.04143	$1.0413^{+0.0016}_{-0.0015} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	32.3	$32^{+6}_{-6} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	0.9998	$1.03^{+0.42}_{-0.41}$	$D_M(z_*)/\text{Gpc}$	13.982	$13.95^{+0.42}_{-0.42} \quad (+0.2\sigma)$	χ^2_{lensing}	8.80	$9.41 \quad (\nu: 0.4) \quad (+0.0\sigma)$
c_{100}	0.99755	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	1059.17	$1059.3^{+1.9}_{-1.9} \quad (-0.1\sigma)$	χ^2_{small}	395.9	$397.1 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{217}	1.00120	$1.0012^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	148.37	$148.1^{+4.7}_{-4.7} \quad (+0.2\sigma)$	χ^2_{lowl}	23.49	$23.3 \quad (\nu: 0.7) \quad (-0.1\sigma)$
H_0	67.39	$67.4^{+3.1}_{-3.0} \quad (-0.1\sigma)$	k_D	0.13970	$0.1399^{+0.0034}_{-0.0034} \quad (-0.2\sigma)$	χ^2_{CamSpec}	7050.0	$7063.3 \quad (\nu: 14.2)$
Ω_Λ	0.6914	$0.689^{+0.019}_{-0.021} \quad (-0.1\sigma)$	$100\theta_D$	0.16084	$0.1609^{+0.0013}_{-0.0012} \quad (-0.2\sigma)$	χ^2_{Aver15}	0.01	$0.45 \quad (\nu: 0.2) \quad (-0.1\sigma)$
Ω_m	0.3086	$0.311^{+0.021}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	3391	$3383^{+74}_{-75} \quad (+0.1\sigma)$	$\chi^2_{6\text{DF}}$	0.010	$0.064 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_m h^2$	0.1401	$0.1410^{+0.0085}_{-0.0080} \quad (-0.2\sigma)$	k_{eq}	0.010284	$0.01029^{+0.00030}_{-0.00030} \quad (-0.1\sigma)$	χ^2_{MGS}	1.41	$1.33 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_\nu h^2$	0.00001	$< 0.00182 \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8148	$0.816^{+0.014}_{-0.013} \quad (-0.1\sigma)$	χ^2_{DR12BAO}	3.87	$4.8 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_m h^3$	0.0944	$0.0950^{+0.0095}_{-0.0086} \quad (-0.2\sigma)$	$100\theta_{s,\text{eq}}$	0.4503	$0.4511^{+0.0073}_{-0.0069} \quad (-0.1\sigma)$	χ^2_{prior}	2.1	$7.5 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	0.8166	$0.810^{+0.029}_{-0.031} \quad (-0.1\sigma)$	$H(0.15)$	72.61	$72.6^{+3.1}_{-3.0} \quad (-0.1\sigma)$	χ^2_{CMB}	7478.1	$7493.1 \quad (\nu: 15.4) \quad (+1131.3\sigma)$
S_8	0.8282	$0.825^{+0.033}_{-0.033} \quad (-0.0\sigma)$	$D_M(0.15)$	643.5	$644^{+29}_{-28} \quad (+0.1\sigma)$	χ^2_{BAO}	5.29	$6.2 \quad (\nu: 1.0) \quad (-0.0\sigma)$

Best-fit $\chi^2_{\text{eff}} = 7485.47$; $\Delta\chi^2_{\text{eff}} = 6292.19$; $\bar{\chi}^2_{\text{eff}} = 7507.32$; $\Delta\bar{\chi}^2_{\text{eff}} = 6291.70$; $R - 1 = 0.00578$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.01 (Δ 0.01) BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ 0.00) DR12BAO: 3.88 (Δ -0.00) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.80 (Δ 0.10) small_100x143_offlike5_EE_Aplanck_B: 395.86 (Δ 0.00) commander_dx12_v3_2_29: 23.49 (Δ -0.13) CamSpec like_10.7HM: 7049.95

9.42 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02218^{+0.00055}_{-0.00055} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6086	$0.605^{+0.020}_{-0.021} \quad (-0.0\sigma)$	$H(0.51)$	89.40	$89.4^{+3.1}_{-2.9} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.1182	$0.1185^{+0.0072}_{-0.0070} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9943	$0.987^{+0.027}_{-0.033} \quad (+0.0\sigma)$	$D_M(0.51)$	1986	$1988^{+77}_{-75} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04111	$1.0411^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$r_{drag} h$	100.09	$99.7^{+2.5}_{-2.6} \quad (-0.0\sigma)$	$H(0.61)$	94.97	$95.0^{+3.1}_{-3.0} \quad (-0.1\sigma)$
τ	0.0530	$0.055^{+0.021}_{-0.018} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.436^{+0.060}_{-0.059} \quad (+0.0\sigma)$	$D_M(0.61)$	2311	$2313^{+88}_{-86} \quad (+0.1\sigma)$
Σm_ν [eV]	0.002	$< 0.173 \quad (-0.0\sigma)$	z_{re}	7.55	$7.7^{+2.0}_{-1.9} \quad (+0.0\sigma)$	$H(2.33)$	234.6	$235.2^{+6.5}_{-6.3} \quad (-0.1\sigma)$
N_{eff}	2.973	$3.00^{+0.44}_{-0.42} \quad (-0.2\sigma)$	$10^9 A_s$	2.080	$2.090^{+0.097}_{-0.085} \quad (-0.1\sigma)$	$D_M(2.33)$	5786	$5783^{+180}_{-180} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0351	$3.039^{+0.045}_{-0.042} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8711	$1.873^{+0.043}_{-0.042} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4574	$0.456^{+0.017}_{-0.017} \quad (-0.0\sigma)$
n_s	0.9638	$0.965^{+0.018}_{-0.018} \quad (-0.0\sigma)$	D_{40}	1227.1	$1227^{+35}_{-34} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	0.7554	$0.749^{+0.026}_{-0.029} \quad (-0.0\sigma)$
y_{cal}	1.0006	$1.0006^{+0.0062}_{-0.0062} \quad (+0.0\sigma)$	D_{220}	5709	$5712^{+99}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4766	$0.475^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{100}^{PS}	238	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	2531.7	$2533^{+34}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6698	$0.664^{+0.024}_{-0.027} \quad (-0.0\sigma)$
A_{143}^{PS}	38	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	814.9	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	0.4756	$0.473^{+0.015}_{-0.015} \quad (-0.0\sigma)$
A_{217}^{PS}	99.2	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{2000}	230.21	$230.2^{+5.0}_{-4.9} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6269	$0.621^{+0.023}_{-0.025} \quad (-0.0\sigma)$
A_{217}^{CIB}	45.2	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{s,0.002}$	0.9638	$0.965^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	0.4708	$0.469^{+0.015}_{-0.015} \quad (-0.0\sigma)$
A_{143}^{tSZ}	6.05	$< 8.82 \quad (-0.7\sigma)$	Y_P	0.2443	$0.2447^{+0.0060}_{-0.0059} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5965	$0.591^{+0.022}_{-0.024} \quad (-0.0\sigma)$
$r_{143 \times 217}^{PS}$	0.542	$0.65^{+0.32}_{-0.33}$	Y_P^{BBN}	0.2457	$0.2460^{+0.0060}_{-0.0059} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.3000	$0.298^{+0.011}_{-0.012} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	0.79	—	$10^5 D/H$	2.600	$2.61^{+0.13}_{-0.13} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	0.3099	$0.307^{+0.012}_{-0.013} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	0.01	—	Age/Gyr	13.853	$13.85^{+0.43}_{-0.43} \quad (+0.1\sigma)$	f_{2000}^{143}	30.4	$30^{+8}_{-8} \quad (-0.2\sigma)$
A^{kSZ}	1.1	—	z_*	1089.95	$1089.98^{+0.93}_{-0.92} \quad (-0.1\sigma)$	f_{2000}^{217}	107.0	$107.1^{+5.6}_{-5.4} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	r_*	145.44	$145.2^{+4.2}_{-4.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.2	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{143}^{dust}	0.995	$0.97^{+0.45}_{-0.46}$	$100\theta_*$	1.04133	$1.0413^{+0.0015}_{-0.0014} \quad (+0.2\sigma)$	$\chi^2_{lensing}$	8.82	$9.42 \quad (\nu: 0.4) \quad (+0.0\sigma)$
A_{217}^{dust}	0.963	$0.97^{+0.26}_{-0.27}$	$D_M(z_*)/\text{Gpc}$	13.967	$13.95^{+0.39}_{-0.39} \quad (+0.1\sigma)$	χ^2_{small}	395.8	$397.0 \quad (\nu: 1.7) \quad (+0.0\sigma)$
$A_{143 \times 217}^{dust}$	0.982	$1.03^{+0.42}_{-0.41}$	z_{drag}	1059.25	$1059.3^{+1.8}_{-1.9} \quad (-0.1\sigma)$	χ^2_{lowl}	23.32	$23.3 \quad (\nu: 0.6) \quad (-0.1\sigma)$
c_{100}	0.99752	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	148.19	$148.0^{+4.4}_{-4.3} \quad (+0.1\sigma)$	$\chi^2_{CamSpec}$	7050.0	$7063.1 \quad (\nu: 13.8)$
c_{217}	1.00128	$1.0012^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	k_D	0.13983	$0.1400^{+0.0032}_{-0.0032} \quad (-0.1\sigma)$	χ^2_{Aver15}	0.04	$0.41 \quad (\nu: 0.2) \quad (-0.1\sigma)$
H_0	67.54	$67.4^{+3.0}_{-2.9} \quad (-0.1\sigma)$	$100\theta_D$	0.16086	$0.1609^{+0.0011}_{-0.0011} \quad (-0.2\sigma)$	$\chi^2_{Cooke17}$	0.04	$0.29 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_Λ	0.6923	$0.689^{+0.019}_{-0.022} \quad (-0.1\sigma)$	z_{eq}	3387	$3382^{+73}_{-74} \quad (+0.1\sigma)$	χ^2_{6DF}	0.006	$0.064 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	0.3077	$0.311^{+0.022}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	0.010286	$0.01029^{+0.00028}_{-0.00029} \quad (-0.1\sigma)$	χ^2_{MGS}	1.47	$1.33 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_m h^2$	0.1404	$0.1412^{+0.0078}_{-0.0074} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8155	$0.816^{+0.014}_{-0.013} \quad (-0.1\sigma)$	$\chi^2_{DR12BAO}$	3.76	$4.8 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_\nu h^2$	0.00003	$< 0.00182 \quad (-0.1\sigma)$	$100\theta_{s,eq}$	0.4507	$0.4512^{+0.0072}_{-0.0067} \quad (-0.1\sigma)$	χ^2_{prior}	2.2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_m h^3$	0.0948	$0.0952^{+0.0088}_{-0.0081} \quad (-0.1\sigma)$	$H(0.15)$	72.76	$72.7^{+3.0}_{-2.9} \quad (-0.1\sigma)$	χ^2_{CMB}	7478.0	$7492.9 \quad (\nu: 14.9) \quad (+1143.9\sigma)$
σ_8	0.8172	$0.810^{+0.028}_{-0.030} \quad (-0.0\sigma)$	$D_M(0.15)$	642.1	$643^{+28}_{-27} \quad (+0.1\sigma)$	χ^2_{BAO}	5.24	$6.2 \quad (\nu: 1.0) \quad (+0.0\sigma)$
S_8	0.8276	$0.825^{+0.032}_{-0.032} \quad (+0.0\sigma)$	$H(0.38)$	82.76	$82.7^{+3.0}_{-2.9} \quad (-0.1\sigma)$	χ^2_{Abund}	0.07	$0.70 \quad (\nu: 0.3) \quad (-0.0\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4533	$0.452^{+0.018}_{-0.018} \quad (+0.0\sigma)$	$D_M(0.38)$	1532	$1534^{+62}_{-60} \quad (+0.1\sigma)$			

Best-fit $\chi^2_{eff} = 7485.51$; $\Delta\chi^2_{eff} = 6292.18$; $\bar{\chi}^2_{eff} = 7507.35$; $\Delta\bar{\chi}^2_{eff} = 6291.71$; $R - 1 = 0.00593$

χ^2_{eff} : Abund - Yp_Aver2015: 0.04 (Δ 0.01) D_Cooke2017: 0.04 (Δ -0.03) BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.47 (Δ 0.00) DR12BAO: 3.76 (Δ 0.00) CMB - smi-cadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 8.82 (Δ 0.05) small_100x143_offlike5_EE_Aplanck_B: 395.85 (Δ -0.00) commander_dx12_v3_2.29: 23.32 (Δ -0.00) CamSpec like_10.7HM: 7049.98

9.43 base_nnu_mnu_CamSpecHM_TT_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02224^{+0.00058}_{-0.00058} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.452^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$H(0.38)$	$83.2^{+3.8}_{-3.7} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.119^{+0.010}_{-0.0093} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.606^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$D_{\text{M}}(0.38)$	$1526^{+77}_{-74} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	$1.0410^{+0.0015}_{-0.0015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.027}_{-0.035} \quad (+0.0\sigma)$	$H(0.51)$	$89.9^{+4.0}_{-3.9} \quad (-0.2\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$100.0^{+2.5}_{-2.4} \quad (-0.1\sigma)$	$D_{\text{M}}(0.51)$	$1977^{+98}_{-93} \quad (+0.2\sigma)$
$\Sigma m_{\nu} [\text{eV}]$	$< 0.178 \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.060}_{-0.060} \quad (+0.0\sigma)$	$H(0.61)$	$95.5^{+4.1}_{-4.0} \quad (-0.2\sigma)$
N_{eff}	$3.06^{+0.61}_{-0.57} \quad (-0.2\sigma)$	z_{re}	$< 9.57 \quad (+0.0\sigma)$	$D_{\text{M}}(0.61)$	$2301^{+110}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.044^{+0.047}_{-0.039} \quad (-0.2\sigma)$	$10^9 A_{\text{s}}$	$2.10^{+0.10}_{-0.081} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+8.8}_{-8.4} \quad (-0.2\sigma)$
n_{s}	$0.967^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.877^{+0.051}_{-0.053} \quad (-0.3\sigma)$	$D_{\text{M}}(2.33)$	$5758^{+240}_{-230} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0061}_{-0.0061} \quad (+0.0\sigma)$	D_{40}	$1224^{+37}_{-38} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.018} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5713^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.752^{+0.032}_{-0.031} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.666^{+0.029}_{-0.028} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.9^{+5.9}_{-5.9} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.6\sigma)$	$n_{\text{s},0.002}$	$0.967^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.624^{+0.027}_{-0.027} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.32}_{-0.33}$	Y_{P}	$0.2455^{+0.0080}_{-0.0081} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2468^{+0.0080}_{-0.0081} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.594^{+0.026}_{-0.026} \quad (-0.1\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.62^{+0.18}_{-0.17} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.79^{+0.58}_{-0.56} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.309^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1090.0^{+1.3}_{-1.2} \quad (-0.2\sigma)$	f_{2000}^{143}	$30^{+9}_{-9} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.46}$	r_*	$144.7^{+5.8}_{-5.5} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.4^{+6.2}_{-6.1} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0412^{+0.0018}_{-0.0018} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+7}_{-7} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.90^{+0.53}_{-0.51} \quad (+0.2\sigma)$	χ_{lensing}^2	$9.52 \quad (\nu: 0.4) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.6^{+2.2}_{-2.2} \quad (-0.2\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.8) \quad (+0.0\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.4^{+6.0}_{-5.8} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.7) \quad (-0.0\sigma)$
H_0	$67.8^{+3.7}_{-3.6} \quad (-0.2\sigma)$	k_{D}	$0.1404^{+0.0042}_{-0.0042} \quad (-0.2\sigma)$	χ_{CamSpec}^2	$7063.8 \quad (\nu: 14.9)$
Ω_{Λ}	$0.691^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.1610^{+0.0015}_{-0.0014} \quad (-0.2\sigma)$	χ_{JLA}^2	$1035.04 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{m}	$0.309^{+0.020}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3374^{+73}_{-79} \quad (+0.2\sigma)$	$\chi_{6\text{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^2$	$0.142^{+0.010}_{-0.0098} \quad (-0.2\sigma)$	k_{eq}	$0.01031^{+0.00035}_{-0.00035} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.48 \quad (\nu: 0.1) \quad (-0.1\sigma)$
$\Omega_{\nu} h^2$	$< 0.00190 \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	$0.818^{+0.015}_{-0.014} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	$4.5 \quad (\nu: 0.9) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.096^{+0.012}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{\text{s,eq}}$	$0.4520^{+0.0077}_{-0.0069} \quad (-0.2\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.813^{+0.033}_{-0.032} \quad (-0.1\sigma)$	$H(0.15)$	$73.1^{+3.8}_{-3.6} \quad (-0.2\sigma)$	χ_{CMB}^2	$7493.4 \quad (\nu: 15.9) \quad (+1104.8\sigma)$
S_8	$0.824^{+0.034}_{-0.033} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	$639^{+34}_{-33} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 8542.04; \Delta \bar{\chi}_{\text{eff}}^2 = 6291.69; R - 1 = 0.00589$$

9.44 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022261	$0.02228^{+0.00049}_{-0.00048} \quad (-0.4\sigma)$	S_8	0.8250	$0.822^{+0.030}_{-0.030} \quad (-0.3\sigma)$	$H(0.38)$	82.32	$82.6^{+3.6}_{-3.2} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.1168	$0.1178^{+0.0086}_{-0.0079} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4519	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1541	$1537^{+69}_{-70} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04121	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6064	$0.603^{+0.020}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	88.94	$89.2^{+3.7}_{-3.4} \quad (-0.0\sigma)$
τ	0.0531	$0.054^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9929	$0.985^{+0.026}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	1996	$1992^{+86}_{-88} \quad (+0.0\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.001	$< 0.176 \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	99.99	$99.7^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	94.48	$94.8^{+3.7}_{-3.5} \quad (-0.0\sigma)$
N_{eff}	2.89	$2.96^{+0.54}_{-0.49} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.443	$2.435^{+0.057}_{-0.058} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2324	$2318^{+99}_{-100} \quad (+0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0331	$3.038^{+0.047}_{-0.044} \quad (-0.2\sigma)$	z_{re}	7.51	$7.7^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	233.5	$234.7^{+7.7}_{-7.2} \quad (-0.1\sigma)$
n_{s}	0.9621	$0.964^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.076	$2.09^{+0.10}_{-0.089} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5815	$5794^{+210}_{-220} \quad (+0.0\sigma)$
y_{cal}	1.0007	$1.0007^{+0.0063}_{-0.0061} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8669	$1.871^{+0.047}_{-0.047} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4559	$0.455^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	227	$238^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	1230.5	$1229^{+34}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7521	$0.747^{+0.029}_{-0.032} \quad (-0.2\sigma)$
A_{143}^{PS}	45.8	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5725	$5725^{+97}_{-94} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4749	$0.473^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{217}^{PS}	105.8	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2534.8	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6668	$0.662^{+0.026}_{-0.030} \quad (-0.2\sigma)$
A_{217}^{CIB}	41.1	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	818.0	$817^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4737	$0.472^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.50	$< 8.82 \quad (-0.8\sigma)$	D_{2000}	231.8	$231.0^{+5.1}_{-5.2} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	0.6240	$0.620^{+0.025}_{-0.028} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.715	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	0.9621	$0.964^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4690	$0.467^{+0.015}_{-0.016} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.84	—	Y_{P}	0.2432	$0.2442^{+0.0072}_{-0.0070} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5938	$0.590^{+0.024}_{-0.027} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.69	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2445	$0.2455^{+0.0072}_{-0.0070} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	0.2985	$0.297^{+0.012}_{-0.013} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	$10^5 \mathrm{D}/\mathrm{H}$	2.552	$2.57^{+0.15}_{-0.14} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.3084	$0.307^{+0.014}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.50}$	Age/Gyr	13.92	$13.87^{+0.51}_{-0.51} \quad (+0.0\sigma)$	f_{2000}^{143}	28.3	$29^{+9}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	0.973	$0.96^{+0.44}_{-0.45}$	z_*	1089.62	$1089.8^{+1.0}_{-0.98} \quad (+0.3\sigma)$	f_{2000}^{217}	105.5	$106.3^{+5.8}_{-5.6} \quad (-0.0\sigma)$
A_{217}^{dust}	0.983	$0.98^{+0.27}_{-0.27}$	r_*	146.15	$145.5^{+4.9}_{-5.0} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	30.7	$31^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.001	$1.02^{+0.42}_{-0.42}$	$100\theta_*$	1.04148	$1.0414^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.62	$9.27 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{100}	0.99780	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.033	$13.97^{+0.46}_{-0.46} \quad (+0.1\sigma)$	χ_{small}^2	395.85	$397.0 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	1.00113	$1.0011^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	1059.32	$1059.5^{+1.9}_{-1.9} \quad (-0.3\sigma)$	χ_{lowl}^2	23.58	$23.4 \quad (\nu: 0.7) \quad (-0.2\sigma)$
c_{TE}	0.9954	$0.996^{+0.013}_{-0.013}$	r_{drag}	148.9	$148.2^{+5.1}_{-5.2} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.2	$11514.1 \quad (\nu: 16.3)$
c_{EE}	0.9901	$0.991^{+0.014}_{-0.014}$	k_{D}	0.13952	$0.1400^{+0.0038}_{-0.0036} \quad (-0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.010	$0.059 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	67.16	$67.3^{+3.5}_{-3.1} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16045	$0.1607^{+0.0013}_{-0.0012} \quad (+0.3\sigma)$	χ_{MGS}^2	1.41	$1.33 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{Λ}	0.6916	$0.689^{+0.019}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	3395	$3386^{+66}_{-69} \quad (-0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.90	$4.8 \quad (\nu: 1.3) \quad (-0.0\sigma)$
Ω_{m}	0.3084	$0.311^{+0.020}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	0.010252	$0.01028^{+0.00030}_{-0.00028} \quad (-0.2\sigma)$	χ_{prior}^2	2.0	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.1391	$0.1406^{+0.0091}_{-0.0082} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	0.8143	$0.816^{+0.013}_{-0.012} \quad (+0.2\sigma)$	χ_{CMB}^2	11926.3	$11943.7 \quad (\nu: 17.3) \quad (+1524.0\sigma)$
$\Omega_{\nu}h^2$	0.00001	$< 0.00186 \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4500	$0.4509^{+0.0067}_{-0.0063} \quad (+0.3\sigma)$	χ_{BAO}^2	5.31	$6.2 \quad (\nu: 0.9) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.0934	$0.0947^{+0.011}_{-0.0093} \quad (-0.0\sigma)$	$H(0.15)$	72.36	$72.5^{+3.5}_{-3.2} \quad (-0.0\sigma)$			
σ_8	0.8137	$0.808^{+0.030}_{-0.034} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	645.7	$645^{+30}_{-31} \quad (+0.0\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11933.58$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.42$; $\bar{\chi}_{\mathrm{eff}}^2 = 11957.66$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.85$; $R - 1 = 0.00614$
 χ_{eff}^2 : BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.41 (Δ 0.00) DR12BAO: 3.90 (Δ -0.02) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.62 (Δ -0.05) small_100x143_offlike5_EE_Aplanc
395.85 (Δ -0.21) commander_dx12_v3.2_29: 23.58 (Δ -0.06) CamSpec like_10.7HM_1400_unified: 11498.22

9.45 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022256	$0.02230^{+0.00048}_{-0.00047} \quad (-0.4\sigma)$	S_8	0.8240	$0.822^{+0.029}_{-0.030} \quad (-0.3\sigma)$	$H(0.38)$	82.43	$82.7^{+3.5}_{-3.2} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.1169	$0.1180^{+0.0087}_{-0.0079} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4513	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1538	$1534^{+67}_{-68} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04122	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6061	$0.603^{+0.020}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	89.05	$89.4^{+3.6}_{-3.3} \quad (-0.0\sigma)$
τ	0.0532	$0.055^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9922	$0.985^{+0.025}_{-0.032} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	1993	$1988^{+85}_{-86} \quad (+0.0\sigma)$
$\Sigma m_{\nu} [\mathrm{eV}]$	0.001	$< 0.168 \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	100.10	$99.9^{+2.3}_{-2.3} \quad (+0.1\sigma)$	$H(0.61)$	94.58	$95.0^{+3.7}_{-3.4} \quad (-0.0\sigma)$
N_{eff}	2.90	$2.98^{+0.53}_{-0.49} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.440	$2.434^{+0.056}_{-0.057} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2320	$2313^{+97}_{-98} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0331	$3.039^{+0.047}_{-0.043} \quad (-0.2\sigma)$	z_{re}	7.52	$7.7^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	233.6	$234.8^{+7.6}_{-7.2} \quad (-0.0\sigma)$
n_{s}	0.9629	$0.965^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.076	$2.09^{+0.10}_{-0.088} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5810	$5787^{+210}_{-210} \quad (+0.0\sigma)$
y_{cal}	1.0005	$1.0007^{+0.0062}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8665	$1.872^{+0.047}_{-0.046} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4554	$0.455^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	228	$238^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	1228.3	$1228^{+34}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7523	$0.748^{+0.028}_{-0.030} \quad (-0.2\sigma)$
A_{143}^{PS}	42.6	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5726^{+97}_{-95} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.473^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	104.7	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2533.7	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6671	$0.663^{+0.026}_{-0.028} \quad (-0.2\sigma)$
A_{217}^{CIB}	41.7	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	817.5	$817^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4736	$0.472^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.47	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	231.6	$231.0^{+5.2}_{-5.2} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	0.6244	$0.621^{+0.025}_{-0.027} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.680	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	0.9629	$0.965^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4689	$0.467^{+0.015}_{-0.016} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.79	—	Y_{P}	0.2434	$0.2444^{+0.0071}_{-0.0069} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	0.5941	$0.591^{+0.024}_{-0.026} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.47	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2447	$0.2457^{+0.0071}_{-0.0069} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	0.2988	$0.298^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	$10^5 \mathrm{D}/\mathrm{H}$	2.557	$2.58^{+0.15}_{-0.14} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3086	$0.307^{+0.013}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.91	$13.86^{+0.50}_{-0.51} \quad (+0.0\sigma)$	f_{2000}^{143}	28.4	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	0.967	$0.96^{+0.45}_{-0.44}$	z_*	1089.65	$1089.8^{+1.0}_{-0.99} \quad (+0.3\sigma)$	f_{2000}^{217}	105.6	$106.4^{+5.9}_{-5.6} \quad (-0.0\sigma)$
A_{217}^{dust}	0.982	$0.98^{+0.27}_{-0.27}$	r_*	146.06	$145.4^{+4.9}_{-4.9} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	30.8	$31^{+6}_{-6} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.011	$1.03^{+0.43}_{-0.43}$	$100\theta_*$	1.04147	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.66	$9.30 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{100}	0.99774	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.024	$13.96^{+0.46}_{-0.46} \quad (+0.0\sigma)$	χ_{small}^2	395.86	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{217}	1.00119	$1.0011^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	1059.32	$1059.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{lowl}^2	23.43	$23.3 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{TE}	0.9954	$0.996^{+0.013}_{-0.013}$	r_{drag}	148.8	$148.1^{+5.1}_{-5.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.3	$11514.2 \quad (\nu: 16.2)$
c_{EE}	0.9904	$0.992^{+0.014}_{-0.014}$	k_{D}	0.13956	$0.1400^{+0.0038}_{-0.0035} \quad (-0.1\sigma)$	χ_{JLA}^2	1034.88	$1035.06 \quad (\nu: 0.1) \quad (-0.0\sigma)$
H_0	67.28	$67.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16051	$0.1607^{+0.0013}_{-0.0012} \quad (+0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.006	$0.047 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	0.6925	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	3391	$3383^{+64}_{-67} \quad (-0.3\sigma)$	χ_{MGS}^2	1.47	$1.40 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{m}	0.3075	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	0.010250	$0.01028^{+0.00030}_{-0.00028} \quad (-0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	3.77	$4.5 \quad (\nu: 0.9) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.1392	$0.1407^{+0.0091}_{-0.0082} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	0.8150	$0.817^{+0.013}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\nu} h^2$	0.00001	$< 0.00178 \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4504	$0.4512^{+0.0065}_{-0.0061} \quad (+0.3\sigma)$	χ_{CMB}^2	11926.3	$11943.8 \quad (\nu: 17.3) \quad (+1520.4\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.0936	$0.0950^{+0.011}_{-0.0093} \quad (-0.0\sigma)$	$H(0.15)$	72.47	$72.7^{+3.4}_{-3.1} \quad (-0.0\sigma)$	χ_{BAO}^2	5.25	$6.0 \quad (\nu: 0.6) \quad (-0.0\sigma)$
σ_8	0.8139	$0.809^{+0.030}_{-0.032} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	644.6	$643^{+29}_{-29} \quad (+0.0\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12968.49$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.38$; $\bar{\chi}_{\mathrm{eff}}^2 = 12992.58$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.85$; $R - 1 = 0.00612$
 χ_{eff}^2 : BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.47 (Δ 0.00) DR12BAO: 3.77 (Δ -0.00) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.66 (Δ 0.05) small_100x143_offlike5_EE_Aplanck: 395.86 (Δ -0.06) commander_dx12_v3.2_29: 23.43 (Δ -0.09) CamSpec like_10.7HM_1400_unified: 11498.34 SN - JLA Pantheon18: 1034.88 (Δ 0.00)

9.46 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022234	$0.02227^{+0.00045}_{-0.00045} \quad (-0.4\sigma)$	S_8	0.8245	$0.822^{+0.029}_{-0.030} \quad (-0.3\sigma)$	$H(0.38)$	82.26	$82.5^{+2.9}_{-2.8} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.1167	$0.1176^{+0.0072}_{-0.0067} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4516	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.38)$	1542	$1539^{+59}_{-58} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04126	$1.0411^{+0.0011}_{-0.0011} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6059	$0.603^{+0.019}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	88.88	$89.1^{+3.0}_{-2.8} \quad (-0.1\sigma)$
τ	0.0531	$0.054^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9925	$0.985^{+0.026}_{-0.032} \quad (-0.3\sigma)$	$D_M(0.51)$	1998	$1994^{+74}_{-74} \quad (+0.0\sigma)$
Σm_ν [eV]	0.002	$< 0.172 \quad (+0.1\sigma)$	$r_{drag} h$	99.99	$99.7^{+2.3}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	94.41	$94.7^{+3.1}_{-2.9} \quad (-0.1\sigma)$
N_{eff}	2.881	$2.95^{+0.44}_{-0.41} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.436^{+0.055}_{-0.057} \quad (-0.3\sigma)$	$D_M(0.61)$	2325	$2320^{+84}_{-84} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0323	$3.037^{+0.045}_{-0.042} \quad (-0.2\sigma)$	z_{re}	7.51	$7.6^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	233.4	$234.5^{+6.4}_{-6.0} \quad (-0.1\sigma)$
n_s	0.9621	$0.964^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$10^9 A_s$	2.074	$2.085^{+0.095}_{-0.085} \quad (-0.2\sigma)$	$D_M(2.33)$	5820	$5801^{+180}_{-180} \quad (+0.1\sigma)$
y_{cal}	1.0004	$1.0007^{+0.0063}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8653	$1.870^{+0.042}_{-0.041} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4557	$0.455^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	225	$237^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	1229.3	$1229^{+32}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7515	$0.746^{+0.026}_{-0.031} \quad (-0.2\sigma)$
A_{143}^{PS}	49.7	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5725^{+97}_{-94} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.473^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	106.4	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2533.7	$2534^{+35}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6663	$0.662^{+0.024}_{-0.028} \quad (-0.2\sigma)$
A_{217}^{CIB}	40.5	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	817.7	$817^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4734	$0.472^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.50	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	231.74	$231.1^{+4.9}_{-4.9} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	0.6236	$0.619^{+0.023}_{-0.027} \quad (-0.2\sigma)$
$r_{143 \times 217}^{PS}$	0.752	$0.66^{+0.31}_{-0.33}$	$n_{s,0.002}$	0.9621	$0.964^{+0.017}_{-0.017} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4686	$0.467^{+0.014}_{-0.016} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	0.89	—	Y_P	0.2431	$0.2440^{+0.0060}_{-0.0059} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	0.5933	$0.589^{+0.022}_{-0.026} \quad (-0.2\sigma)$
$\xi^{tSZ \times CIB}$	0.93	—	Y_P^{BBN}	0.2444	$0.2453^{+0.0060}_{-0.0059} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	0.2983	$0.297^{+0.011}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.554	$2.57^{+0.13}_{-0.12} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3081	$0.306^{+0.012}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.933	$13.89^{+0.43}_{-0.43} \quad (+0.1\sigma)$	f_{2000}^{143}	28.4	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	0.979	$0.96^{+0.45}_{-0.44}$	z_*	1089.63	$1089.73^{+0.92}_{-0.87} \quad (+0.2\sigma)$	f_{2000}^{217}	105.4	$106.2^{+5.5}_{-5.4} \quad (-0.1\sigma)$
A_{217}^{dust}	0.991	$0.98^{+0.27}_{-0.27}$	r_*	146.26	$145.7^{+4.1}_{-4.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	30.8	$31^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{dust}$	1.005	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	1.04153	$1.0414^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	$\chi^2_{lensing}$	8.62	$9.24 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{100}	0.99787	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	14.043	$13.99^{+0.38}_{-0.39} \quad (+0.1\sigma)$	χ^2_{simall}	395.85	$397.0 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	1.00123	$1.0011^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	1059.25	$1059.4^{+1.7}_{-1.6} \quad (-0.3\sigma)$	χ^2_{lowl}	23.55	$23.5 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{TE}	0.9956	$0.996^{+0.013}_{-0.013}$	r_{drag}	149.00	$148.4^{+4.3}_{-4.3} \quad (+0.1\sigma)$	$\chi^2_{CamSpec}$	11498.3	$11513.7 \quad (\nu: 15.6)$
c_{EE}	0.9905	$0.991^{+0.013}_{-0.014}$	k_D	0.13941	$0.1398^{+0.0031}_{-0.0030} \quad (-0.2\sigma)$	χ^2_{Aver15}	0.01	$0.35 \quad (\nu: 0.1) \quad (+0.2\sigma)$
H_0	67.11	$67.2^{+2.9}_{-2.7} \quad (-0.0\sigma)$	$100\theta_D$	0.16047	$0.1606^{+0.0011}_{-0.0011} \quad (+0.3\sigma)$	χ^2_{6DF}	0.010	$0.058 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_Λ	0.6916	$0.689^{+0.018}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	3394	$3387^{+64}_{-64} \quad (-0.3\sigma)$	χ^2_{MGS}	1.41	$1.31 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_m	0.3084	$0.311^{+0.020}_{-0.018} \quad (-0.0\sigma)$	k_{eq}	0.010244	$0.01027^{+0.00027}_{-0.00025} \quad (-0.2\sigma)$	$\chi^2_{DR12BAO}$	3.88	$4.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.1389	$0.1404^{+0.0076}_{-0.0070} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8144	$0.816^{+0.012}_{-0.012} \quad (+0.2\sigma)$	χ^2_{prior}	1.9	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	0.00002	$< 0.00182 \quad (+0.1\sigma)$	$100\theta_{s,eq}$	0.4501	$0.4507^{+0.0062}_{-0.0061} \quad (+0.3\sigma)$	χ^2_{CMB}	11926.4	$11943.4 \quad (\nu: 16.8) \quad (+1543.4\sigma)$
$\Omega_m h^3$	0.0932	$0.0943^{+0.0087}_{-0.0079} \quad (-0.1\sigma)$	$H(0.15)$	72.30	$72.4^{+2.9}_{-2.7} \quad (-0.0\sigma)$	χ^2_{BAO}	5.30	$6.1 \quad (\nu: 0.8) \quad (-0.0\sigma)$
σ_8	0.8131	$0.808^{+0.027}_{-0.033} \quad (-0.2\sigma)$	$D_M(0.15)$	646.2	$645^{+26}_{-26} \quad (+0.0\sigma)$			

Best-fit $\chi^2_{eff} = 11933.58$; $\Delta\chi^2_{eff} = 9155.39$; $\bar{\chi}^2_{eff} = 11957.68$; $\Delta\bar{\chi}^2_{eff} = 9150.90$; $R - 1 = 0.00718$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.01 (Δ 0.00) BAO - 6DF: 0.01 (Δ -0.00) MGS: 1.41 (Δ 0.06) DR12BAO: 3.88 (Δ -0.16) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.62 (Δ -0.03) simall_100x143_offlike5_EEAplanck_B: 395.85 (Δ -0.01) commander_dx12.v3.2.29: 23.55 (Δ -0.16) CamSpec like_10.7HM_1400.unified: 11498.33

9.47 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022234	$0.02227^{+0.00046}_{-0.00045} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4525	$0.451^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.51)$	89.13	$89.3^{+2.8}_{-2.7} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.1174	$0.1181^{+0.0067}_{-0.0064} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6073	$0.604^{+0.018}_{-0.020} \quad (-0.3\sigma)$	$D_M(0.51)$	1992	$1990^{+71}_{-70} \quad (+0.0\sigma)$
$100\theta_{MC}$	1.04113	$1.0411^{+0.0010}_{-0.0010} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9934	$0.986^{+0.026}_{-0.032} \quad (-0.3\sigma)$	$H(0.61)$	94.69	$94.9^{+2.9}_{-2.8} \quad (-0.1\sigma)$
τ	0.0531	$0.054^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	99.99	$99.7^{+2.3}_{-2.4} \quad (+0.1\sigma)$	$D_M(0.61)$	2318	$2316^{+81}_{-80} \quad (+0.0\sigma)$
$\Sigma m_\nu [\text{eV}]$	0.001	$< 0.174 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.442	$2.435^{+0.056}_{-0.057} \quad (-0.3\sigma)$	$H(2.33)$	234.0	$234.9^{+5.9}_{-5.8} \quad (-0.1\sigma)$
N_{eff}	2.925	$2.98^{+0.41}_{-0.39} \quad (+0.0\sigma)$	z_{re}	7.52	$7.6^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$D_M(2.33)$	5803	$5790^{+170}_{-170} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0332	$3.038^{+0.045}_{-0.041} \quad (-0.2\sigma)$	$10^9 A_s$	2.076	$2.087^{+0.095}_{-0.085} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4566	$0.455^{+0.015}_{-0.015} \quad (-0.3\sigma)$
n_s	0.9629	$0.964^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8672	$1.872^{+0.040}_{-0.040} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	0.7533	$0.748^{+0.025}_{-0.030} \quad (-0.2\sigma)$
y_{cal}	1.0001	$1.0006^{+0.0063}_{-0.0060} \quad (+0.0\sigma)$	D_{40}	1227.8	$1228^{+32}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4756	$0.474^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{100}^{PS}	231	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	5714	$5723^{+97}_{-93} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6679	$0.663^{+0.023}_{-0.028} \quad (-0.2\sigma)$
A_{143}^{PS}	42.3	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	2531.4	$2534^{+35}_{-33} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4745	$0.473^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	103.4	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{1420}	816.1	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	0.6250	$0.620^{+0.022}_{-0.026} \quad (-0.2\sigma)$
A_{217}^{CIB}	42.8	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	231.02	$230.8^{+4.8}_{-4.6} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4697	$0.468^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.50	$< 8.78 \quad (-0.8\sigma)$	$n_{s,0.002}$	0.9629	$0.964^{+0.017}_{-0.016} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	0.5947	$0.590^{+0.021}_{-0.025} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.661	$0.66^{+0.30}_{-0.33}$	Y_P	0.2437	$0.2444^{+0.0055}_{-0.0055} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	0.2990	$0.297^{+0.011}_{-0.012} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.79	—	Y_P^{BBN}	0.2450	$0.2457^{+0.0055}_{-0.0055} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	0.3089	$0.307^{+0.012}_{-0.014} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.38	—	$10^5 \text{D}/\text{H}$	2.569	$2.58^{+0.11}_{-0.11} \quad (+0.4\sigma)$	f_{2000}^{143}	29.0	$29^{+8}_{-8} \quad (+0.1\sigma)$
A^{kSZ}	0.0	—	Age/Gyr	13.893	$13.86^{+0.40}_{-0.40} \quad (+0.1\sigma)$	f_{2000}^{217}	105.9	$106.4^{+5.3}_{-5.3} \quad (-0.1\sigma)$
A_{100}^{dust}	0.998	$1.01^{+0.51}_{-0.51}$	z_*	1089.74	$1089.80^{+0.82}_{-0.80} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	31.3	$32^{+6}_{-6} \quad (-0.0\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.45}_{-0.44}$	r_*	145.83	$145.4^{+3.9}_{-3.8} \quad (+0.1\sigma)$	χ_{lensing}^2	8.70	$9.28 \quad (\nu: 0.3) \quad (+0.2\sigma)$
A_{217}^{dust}	0.974	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	1.04138	$1.0413^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	χ_{simall}^2	395.85	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.008	$1.03^{+0.43}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	14.003	$13.96^{+0.36}_{-0.36} \quad (+0.1\sigma)$	χ_{Iowl}^2	23.46	$23.4 \quad (\nu: 0.5) \quad (-0.2\sigma)$
c_{100}	0.99768	$0.9976^{+0.0027}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	1059.32	$1059.5^{+1.6}_{-1.6} \quad (-0.3\sigma)$	χ_{CamSpec}^2	11498.3	$11513.7 \quad (\nu: 15.5)$
c_{217}	1.00121	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	148.55	$148.1^{+4.1}_{-4.0} \quad (+0.1\sigma)$	χ_{Aver15}^2	0.00	$0.33 \quad (\nu: 0.1) \quad (+0.1\sigma)$
c_{TE}	0.9958	$0.996^{+0.013}_{-0.013}$	k_D	0.13969	$0.1400^{+0.0029}_{-0.0029} \quad (-0.2\sigma)$	χ_{Cooke17}^2	0.27	$0.38 \quad (\nu: 0.1) \quad (-0.2\sigma)$
c_{EE}	0.9910	$0.992^{+0.013}_{-0.013}$	$100\theta_D$	0.16060	$0.16071^{+0.00099}_{-0.00095} \quad (+0.3\sigma)$	$\chi_{6\text{DF}}^2$	0.010	$0.057 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	67.31	$67.3^{+2.8}_{-2.7} \quad (-0.0\sigma)$	z_{eq}	3393	$3386^{+64}_{-63} \quad (-0.3\sigma)$	χ_{MGS}^2	1.41	$1.32 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_Λ	0.6917	$0.689^{+0.018}_{-0.020} \quad (+0.1\sigma)$	k_{eq}	0.010271	$0.01028^{+0.00025}_{-0.00025} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	3.89	$4.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
Ω_m	0.3083	$0.311^{+0.020}_{-0.018} \quad (-0.1\sigma)$	$100\theta_{\text{eq}}$	0.8146	$0.816^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.1397	$0.1408^{+0.0071}_{-0.0067} \quad (-0.1\sigma)$	$100\theta_{s,\text{eq}}$	0.4502	$0.4509^{+0.0062}_{-0.0060} \quad (+0.3\sigma)$	χ_{CMB}^2	11926.3	$11943.3 \quad (\nu: 16.7) \quad (+1549.6\sigma)$
$\Omega_\nu h^2$	0.00001	$< 0.00184 \quad (+0.1\sigma)$	$H(0.15)$	72.52	$72.6^{+2.8}_{-2.6} \quad (-0.0\sigma)$	χ_{BAO}^2	5.31	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_m h^3$	0.0940	$0.0949^{+0.0081}_{-0.0075} \quad (-0.1\sigma)$	$D_M(0.15)$	644.3	$644^{+25}_{-25} \quad (+0.0\sigma)$	χ_{Abund}^2	0.27	$0.72 \quad (\nu: 0.2) \quad (-0.1\sigma)$
σ_8	0.8150	$0.809^{+0.026}_{-0.032} \quad (-0.3\sigma)$	$H(0.38)$	82.50	$82.6^{+2.8}_{-2.7} \quad (-0.0\sigma)$			
S_8	0.8262	$0.823^{+0.029}_{-0.029} \quad (-0.3\sigma)$	$D_M(0.38)$	1537	$1536^{+57}_{-56} \quad (+0.0\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11933.95$; $\Delta\chi_{\text{eff}}^2 = 9155.14$; $\bar{\chi}_{\text{eff}}^2 = 11957.95$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.69$; $R - 1 = 0.00786$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.00 (Δ -0.00) D.Cooke2017: 0.27 (Δ -0.16) BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.41 (Δ 0.06) DR12BAO: 3.89 (Δ -0.17) CMB - smi-cadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 8.70 (Δ -0.05) simall_100x143_offlike5_EE_Aplanck_B: 395.85 (Δ 0.00) commander_dx12_v3_2.29: 23.46 (Δ -0.16) CamSpec like_10.7HM_1400_unified: 11498.26

9.48 base_nnu_mnu_CamSpecHM_TTTEEE_lowl_lowE_lensing_BAO_post_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02230^{+0.00047}_{-0.00047} \quad (-0.4\sigma)$	S_8	$0.822^{+0.028}_{-0.030} \quad (-0.3\sigma)$	$H(0.38)$	$82.7^{+3.5}_{-3.2} \quad (-0.0\sigma)$
$\Omega_c h^2$	$0.1180^{+0.0086}_{-0.0078} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.38)$	$1534^{+67}_{-67} \quad (+0.0\sigma)$
$100\theta_{MC}$	$1.0411^{+0.0012}_{-0.0012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.020}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.4^{+3.6}_{-3.3} \quad (-0.0\sigma)$
τ	$0.056^{+0.018}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.025}_{-0.032} \quad (-0.3\sigma)$	$D_M(0.51)$	$1987^{+84}_{-86} \quad (+0.0\sigma)$
Σm_ν [eV]	$< 0.169 \quad (+0.1\sigma)$	$r_{\text{drag}} h$	$99.9^{+2.3}_{-2.3} \quad (+0.1\sigma)$	$H(0.61)$	$95.0^{+3.7}_{-3.4} \quad (-0.0\sigma)$
N_{eff}	$2.98^{+0.53}_{-0.49} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.055}_{-0.056} \quad (-0.3\sigma)$	$D_M(0.61)$	$2313^{+96}_{-98} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	$3.040^{+0.046}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$< 9.43 \quad (-0.1\sigma)$	$H(2.33)$	$234.8^{+7.6}_{-7.2} \quad (-0.0\sigma)$
n_s	$0.965^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_s$	$2.092^{+0.098}_{-0.076} \quad (-0.2\sigma)$	$D_M(2.33)$	$5786^{+210}_{-210} \quad (+0.0\sigma)$
y_{cal}	$1.0007^{+0.0062}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.872^{+0.047}_{-0.046} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1228^{+33}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.028}_{-0.031} \quad (-0.2\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+97}_{-94} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.025}_{-0.028} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.8\sigma)$	D_{2000}	$231.0^{+5.2}_{-5.2} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.024}_{-0.027} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{s,0.002}$	$0.965^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.015}_{-0.016} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.2444^{+0.0071}_{-0.0069} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.024}_{-0.026} \quad (-0.2\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.2458^{+0.0071}_{-0.0069} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.298^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.58^{+0.15}_{-0.13} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.307^{+0.013}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.85^{+0.50}_{-0.50} \quad (+0.0\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	z_*	$1089.8^{+1.0}_{-0.98} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.4^{+5.8}_{-5.6} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$145.4^{+4.9}_{-4.9} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.43}$	$100\theta_*$	$1.0413^{+0.0015}_{-0.0015} \quad (-0.1\sigma)$	χ_{lensing}^2	$9.25 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.96^{+0.45}_{-0.46} \quad (+0.0\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	$1059.6^{+1.9}_{-1.9} \quad (-0.3\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$148.1^{+5.1}_{-5.1} \quad (+0.0\sigma)$	χ_{CamSpec}^2	$11514.1 \quad (\nu: 16.2)$
c_{EE}	$0.992^{+0.014}_{-0.014}$	k_D	$0.1401^{+0.0038}_{-0.0035} \quad (-0.1\sigma)$	χ_{JLA}^2	$1035.05 \quad (\nu: 0.1) \quad (-0.0\sigma)$
H_0	$67.5^{+3.4}_{-3.1} \quad (+0.0\sigma)$	$100\theta_D$	$0.1607^{+0.0013}_{-0.0012} \quad (+0.3\sigma)$	χ_{6DF}^2	$0.045 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_Λ	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	z_{eq}	$3382^{+64}_{-66} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.41 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_m	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	$0.01027^{+0.00030}_{-0.00028} \quad (-0.2\sigma)$	χ_{DR12BAO}^2	$4.5 \quad (\nu: 0.9) \quad (-0.1\sigma)$
$\Omega_m h^2$	$0.1408^{+0.0090}_{-0.0082} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_\nu h^2$	$< 0.00180 \quad (+0.1\sigma)$	$100\theta_{s,\text{eq}}$	$0.4513^{+0.0065}_{-0.0061} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.7 \quad (\nu: 17.2) \quad (+1530.4\sigma)$
$\Omega_m h^3$	$0.0950^{+0.011}_{-0.0092} \quad (-0.0\sigma)$	$H(0.15)$	$72.7^{+3.4}_{-3.1} \quad (-0.0\sigma)$	χ_{BAO}^2	$5.9 \quad (\nu: 0.5) \quad (-0.0\sigma)$
σ_8	$0.810^{+0.029}_{-0.032} \quad (-0.2\sigma)$	$D_M(0.15)$	$643^{+29}_{-30} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 12992.45; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.89; R - 1 = 0.00689$$

9.49 base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02194	$0.0221^{+0.0019}_{-0.0017}$	D_{810}	2560	2159^{+1000}_{-1000}	$D_{\mathrm{M}}(0.51)$	1929	1862^{+200}_{-200}
$\Omega_{\mathrm{c}} h^2$	0.135	$0.155^{+0.081}_{-0.055}$	D_{1420}	790	629^{+500}_{-400}	$H(0.61)$	99.8	105^{+20}_{-10}
$100\theta_{\mathrm{MC}}$	1.084	$1.110^{+0.079}_{-0.083}$	D_{2000}	230	182^{+100}_{-100}	$D_{\mathrm{M}}(0.61)$	2239	2158^{+300}_{-300}
Σm_{ν} [eV]	0.95	—	$n_{\mathrm{s},0.002}$	0.962	$0.960^{+0.051}_{-0.051}$	$H(2.33)$	254	273^{+70}_{-50}
N_{eff}	2.91	$2.96^{+0.77}_{-0.69}$	Y_{P}	0.2433	$0.244^{+0.011}_{-0.010}$	$D_{\mathrm{M}}(2.33)$	5486	5224^{+900}_{-900}
$\ln(10^{10} A_{\mathrm{s}})$	3.103	$3.02^{+0.29}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2447	$0.245^{+0.011}_{-0.010}$	$f\sigma_8(0.15)$	0.4566	$0.457^{+0.046}_{-0.046}$
n_{s}	0.962	$0.960^{+0.051}_{-0.051}$	$10^5 \mathrm{D}/\mathrm{H}$	2.618	$2.61^{+0.24}_{-0.24}$	$\sigma_8(0.15)$	0.694	$0.668^{+0.094}_{-0.099}$
H_0	68.4	70^{+8}_{-6}	Age/Gyr	13.13	$12.5^{+2.1}_{-2.0}$	$f\sigma_8(0.38)$	0.4655	$0.458^{+0.043}_{-0.049}$
Ω_{Λ}	0.644	$0.61^{+0.10}_{-0.13}$	z_*	1091.9	$1093.8^{+6.9}_{-5.3}$	$\sigma_8(0.38)$	0.612	$0.586^{+0.089}_{-0.093}$
Ω_{m}	0.356	$0.39^{+0.13}_{-0.10}$	r_*	141.3	136^{+20}_{-20}	$f\sigma_8(0.51)$	0.4599	$0.450^{+0.044}_{-0.053}$
$\Omega_{\mathrm{m}} h^2$	0.167	$0.195^{+0.098}_{-0.075}$	$100\theta_*$	1.085	$1.111^{+0.080}_{-0.084}$	$\sigma_8(0.51)$	0.572	$0.547^{+0.086}_{-0.089}$
$\Omega_{\nu} h^2$	0.0098	< 0.0467	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.02	$12.3^{+2.5}_{-2.3}$	$f\sigma_8(0.61)$	0.452	$0.441^{+0.045}_{-0.055}$
$\Omega_{\mathrm{m}} h^3$	0.114	$0.137^{+0.086}_{-0.062}$	z_{drag}	1060.1	$1062.1^{+8.3}_{-7.1}$	$\sigma_8(0.61)$	0.543	$0.519^{+0.083}_{-0.086}$
σ_8	0.754	$0.729^{+0.096}_{-0.10}$	r_{drag}	144.0	139^{+20}_{-20}	$f\sigma_8(2.33)$	0.2799	$0.266^{+0.040}_{-0.046}$
S_8	0.822	$0.830^{+0.097}_{-0.092}$	k_{D}	0.1446	$0.151^{+0.024}_{-0.018}$	$\sigma_8(2.33)$	0.2826	$0.268^{+0.047}_{-0.048}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.450	$0.455^{+0.053}_{-0.050}$	$100\theta_{\mathrm{D}}$	0.1668	$0.170^{+0.011}_{-0.011}$	$\chi^2_{\mathrm{lensing}}$	7.6	$10.0 (\nu: 2.2)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.583	$0.576^{+0.056}_{-0.060}$	z_{eq}	3818	4281^{+2000}_{-1000}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\sigma_8/h^{0.5}$	0.912	$0.87^{+0.13}_{-0.14}$	k_{eq}	0.01156	$0.0131^{+0.0052}_{-0.0043}$	$\chi^2_{\mathrm{Cooke17}}$	0.00	$1.0 (\nu: 1.0)$
$r_{\mathrm{drag}} h$	98.5	$97.2^{+5.0}_{-5.0}$	$100\theta_{\mathrm{eq}}$	0.779	$0.74^{+0.14}_{-0.12}$	$\chi^2_{6\mathrm{DF}}$	0.11	$0.41 (\nu: 0.1)$
$\langle d^2 \rangle^{1/2}$	2.519	$2.50^{+0.14}_{-0.14}$	$100\theta_{\mathrm{s,eq}}$	0.433	$0.415^{+0.070}_{-0.065}$	χ^2_{MGS}	0.93	$0.70 (\nu: 0.2)$
z_{re}	8.27	$8.7^{+1.4}_{-1.2}$	$H(0.15)$	74.5	77^{+10}_{-8}	$\chi^2_{\mathrm{DR12BAO}}$	2.11	$3.8 (\nu: 1.3)$
$10^9 A_{\mathrm{s}}$	2.23	$2.07^{+0.69}_{-0.58}$	$D_{\mathrm{M}}(0.15)$	631	613^{+63}_{-69}	χ^2_{prior}	0.01	$1.0 (\nu: 1.0)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.99	$1.85^{+0.61}_{-0.52}$	$H(0.38)$	86.0	90^{+10}_{-10}	χ^2_{BAO}	3.14	$4.9 (\nu: 1.6)$
D_{40}	1268	1153^{+500}_{-400}	$D_{\mathrm{M}}(0.38)$	1494	1445^{+200}_{-200}	χ^2_{Abund}	0.00	$2.1 (\nu: 2.1)$
D_{220}	5675	4980^{+3000}_{-2000}	$H(0.51)$	93.5	98^{+20}_{-10}			

Best-fit $\chi^2_{\mathrm{eff}} = 10.70$; $\bar{\chi}^2_{\mathrm{eff}} = 17.95$; $R - 1 = 0.01127$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.11 MGS: 0.93 DR12BAO: 2.11 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged:
7.55

9.50 base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02206	$0.0221^{+0.0018}_{-0.0017}$	D_{810}	2768	2842^{+900}_{-700}	$D_M(0.51)$	1983	1972^{+160}_{-160}
$\Omega_c h^2$	0.1173	$0.119^{+0.032}_{-0.027}$	D_{1420}	886	902^{+300}_{-300}	$H(0.61)$	95.3	$96.2^{+10}_{-7.7}$
$100\theta_{MC}$	1.0487	$1.054^{+0.047}_{-0.038}$	D_{2000}	250	257^{+80}_{-70}	$D_M(0.61)$	2308	2294^{+180}_{-190}
Σm_ν [eV]	0.30	< 1.33	$n_{s,0.002}$	0.957	$0.960^{+0.053}_{-0.049}$	$H(2.33)$	236.1	239^{+30}_{-20}
N_{eff}	2.95	$2.99^{+0.79}_{-0.66}$	Y_P	0.2440	$0.244^{+0.011}_{-0.0098}$	$D_M(2.33)$	5765	5715^{+500}_{-560}
$\ln(10^{10} A_s)$	3.128	$3.16^{+0.23}_{-0.24}$	Y_P^{BBN}	0.2453	$0.246^{+0.011}_{-0.0099}$	$f\sigma_8(0.15)$	0.4501	$0.445^{+0.041}_{-0.040}$
n_s	0.957	$0.960^{+0.053}_{-0.049}$	$10^5 D/H$	2.610	$2.61^{+0.24}_{-0.26}$	$\sigma_8(0.15)$	0.732	$0.717^{+0.063}_{-0.071}$
H_0	67.5	$67.8^{+5.5}_{-5.1}$	Age/Gyr	13.80	$13.7^{+1.2}_{-1.3}$	$f\sigma_8(0.38)$	0.4684	$0.462^{+0.038}_{-0.039}$
Ω_Λ	0.6874	$0.682^{+0.041}_{-0.052}$	z_*	1090.01	$1090.2^{+3.1}_{-2.4}$	$\sigma_8(0.38)$	0.650	$0.635^{+0.057}_{-0.065}$
Ω_m	0.3126	$0.318^{+0.052}_{-0.041}$	r_*	145.8	145^{+11}_{-11}	$f\sigma_8(0.51)$	0.4672	$0.460^{+0.036}_{-0.038}$
$\Omega_m h^2$	0.1424	$0.147^{+0.039}_{-0.032}$	$100\theta_*$	1.0491	$1.055^{+0.047}_{-0.038}$	$\sigma_8(0.51)$	0.608	$0.595^{+0.054}_{-0.062}$
$\Omega_\nu h^2$	0.0031	< 0.0140	$D_M(z_*)/\text{Gpc}$	13.90	$13.8^{+1.4}_{-1.5}$	$f\sigma_8(0.61)$	0.4624	$0.455^{+0.035}_{-0.037}$
$\Omega_m h^3$	0.0962	$0.0998^{+0.034}_{-0.027}$	z_{drag}	1059.0	$1059.3^{+6.0}_{-5.8}$	$\sigma_8(0.61)$	0.579	$0.566^{+0.051}_{-0.059}$
σ_8	0.792	$0.775^{+0.068}_{-0.074}$	r_{drag}	148.6	148^{+11}_{-12}	$f\sigma_8(2.33)$	0.2954	$0.290^{+0.022}_{-0.027}$
S_8	0.808	$0.798^{+0.081}_{-0.076}$	k_D	0.1394	$0.140^{+0.012}_{-0.010}$	$\sigma_8(2.33)$	0.3025	$0.296^{+0.026}_{-0.031}$
$\sigma_8 \Omega_m^{0.5}$	0.4428	$0.437^{+0.045}_{-0.042}$	$100\theta_D$	0.1621	$0.1629^{+0.0064}_{-0.0051}$	χ^2_{lensing}	7.6	9.4 (ν : 2.0)
$\sigma_8 \Omega_m^{0.25}$	0.592	$0.582^{+0.052}_{-0.052}$	z_{eq}	3373	3409^{+700}_{-500}	χ^2_{Aver15}	0.01	1.0 (ν : 1.1)
$\sigma_8/h^{0.5}$	0.964	$0.942^{+0.082}_{-0.096}$	k_{eq}	0.01023	$0.0104^{+0.0022}_{-0.0018}$	χ^2_{Cooke17}	0.01	0.99 (ν : 1.0)
$r_{\text{drag}} h$	100.32	$100.2^{+3.1}_{-2.9}$	$100\theta_{\text{eq}}$	0.824	$0.825^{+0.077}_{-0.081}$	χ^2_{JLA}	1035.11	1036.1 (ν : 1.6)
$\langle d^2 \rangle^{1/2}$	2.506	$2.53^{+0.16}_{-0.14}$	$100\theta_{s,\text{eq}}$	0.4554	$0.456^{+0.039}_{-0.042}$	$\chi^2_{6\text{DF}}$	0.000	0.054 (ν : 0.0)
z_{re}	7.81	$7.87^{+0.66}_{-0.51}$	$H(0.15)$	72.8	$73.3^{+6.4}_{-5.5}$	χ^2_{MGS}	1.68	1.71 (ν : 0.2)
$10^9 A_s$	2.28	$2.37^{+0.60}_{-0.51}$	$D_M(0.15)$	642	639^{+51}_{-50}	χ^2_{DR12BAO}	2.98	3.8 (ν : 1.0)
$10^9 A_s e^{-2\tau}$	2.045	$2.12^{+0.54}_{-0.45}$	$H(0.38)$	82.9	$83.6^{+8.0}_{-6.4}$	χ^2_{prior}	0.02	1.0 (ν : 1.0)
D_{40}	1365	1397^{+400}_{-300}	$D_M(0.38)$	1531	1523^{+120}_{-120}	χ^2_{BAO}	4.66	5.6 (ν : 1.4)
D_{220}	6296	6494^{+2000}_{-2000}	$H(0.51)$	89.7	$90.5^{+9.1}_{-7.1}$	χ^2_{Abund}	0.02	2.0 (ν : 2.0)

Best-fit $\chi^2_{\text{eff}} = 1047.43$; $\bar{\chi}^2_{\text{eff}} = 1054.19$; $R - 1 = 0.07982$

χ^2_{eff} : Abund - Yp_Aver2015: 0.01 D_Cooke2017: 0.01 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.98 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.62 SN - JLA Pantheon18: 1035.11

9.51 base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02194	$0.0220^{+0.0019}_{-0.0017}$	D_{810}	2908	2928^{+700}_{-600}	$D_{\mathrm{M}}(0.51)$	2012	2010^{+130}_{-130}
$\Omega_{\mathrm{c}} h^2$	0.1114	$0.112^{+0.017}_{-0.015}$	D_{1420}	931	938^{+200}_{-200}	$H(0.61)$	93.6	$93.8^{+6.0}_{-5.6}$
$100\theta_{\mathrm{MC}}$	1.04089	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	262	264^{+80}_{-50}	$D_{\mathrm{M}}(0.61)$	2342	2340^{+150}_{-150}
$\Sigma m_{\nu} [\mathrm{eV}]$	0.267	< 0.726	$n_{\mathrm{s},0.002}$	0.960	$0.962^{+0.051}_{-0.049}$	$H(2.33)$	231.1	232^{+14}_{-13}
N_{eff}	2.91	$2.94^{+0.77}_{-0.70}$	Y_{P}	0.2434	$0.244^{+0.011}_{-0.011}$	$D_{\mathrm{M}}(2.33)$	5868	5860^{+370}_{-350}
$\ln(10^{10} A_{\mathrm{s}})$	3.169	$3.17^{+0.22}_{-0.17}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2447	$0.245^{+0.011}_{-0.011}$	$f\sigma_8(0.15)$	0.4442	$0.442^{+0.030}_{-0.034}$
n_{s}	0.960	$0.962^{+0.051}_{-0.049}$	$10^5 \mathrm{D}/\mathrm{H}$	2.619	$2.62^{+0.24}_{-0.24}$	$\sigma_8(0.15)$	0.730	$0.727^{+0.053}_{-0.063}$
H_0	66.69	$66.8^{+4.9}_{-4.5}$	Age/Gyr	14.05	$14.03^{+0.88}_{-0.84}$	$f\sigma_8(0.38)$	0.4638	$0.462^{+0.030}_{-0.036}$
Ω_{Λ}	0.6939	$0.693^{+0.022}_{-0.023}$	z_*	1089.59	$1089.6^{+1.6}_{-1.6}$	$\sigma_8(0.38)$	0.648	$0.645^{+0.047}_{-0.057}$
Ω_{m}	0.3061	$0.307^{+0.023}_{-0.022}$	r_*	147.7	$147.5^{+9.0}_{-8.7}$	$f\sigma_8(0.51)$	0.4633	$0.461^{+0.029}_{-0.035}$
$\Omega_{\mathrm{m}} h^2$	0.1362	$0.137^{+0.017}_{-0.015}$	$100\theta_*$	1.04133	$1.0413^{+0.0017}_{-0.0016}$	$\sigma_8(0.51)$	0.6074	$0.604^{+0.045}_{-0.053}$
$\Omega_{\nu} h^2$	0.00278	< 0.00763	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.19	$14.16^{+0.86}_{-0.83}$	$f\sigma_8(0.61)$	0.4591	$0.457^{+0.029}_{-0.035}$
$\Omega_{\mathrm{m}} h^3$	0.0908	$0.092^{+0.018}_{-0.015}$	z_{drag}	1058.2	$1058.5^{+5.7}_{-5.5}$	$\sigma_8(0.61)$	0.5783	$0.575^{+0.043}_{-0.051}$
σ_8	0.789	$0.785^{+0.057}_{-0.068}$	r_{drag}	150.6	$150.3^{+9.8}_{-9.4}$	$f\sigma_8(2.33)$	0.2951	$0.294^{+0.019}_{-0.022}$
S_8	0.797	$0.794^{+0.060}_{-0.067}$	k_{D}	0.1375	$0.1378^{+0.0085}_{-0.0079}$	$\sigma_8(2.33)$	0.3027	$0.301^{+0.022}_{-0.025}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4367	$0.435^{+0.033}_{-0.037}$	$100\theta_{\mathrm{D}}$	0.16109	$0.1611^{+0.0019}_{-0.0019}$	$\chi^2_{\mathrm{lensing}}$	7.51	$9.2 (\nu: 1.5)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.5870	$0.585^{+0.041}_{-0.049}$	z_{eq}	3247	3245^{+190}_{-220}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\sigma_8/h^{0.5}$	0.966	$0.961^{+0.069}_{-0.081}$	k_{eq}	0.00982	$0.00983^{+0.00087}_{-0.00084}$	$\chi^2_{\mathrm{Cooke17}}$	0.00	$0.97 (\nu: 0.9)$
$r_{\mathrm{drag}} h$	100.43	$100.3^{+3.0}_{-2.9}$	$100\theta_{\mathrm{eq}}$	0.8412	$0.842^{+0.044}_{-0.034}$	$\chi^2_{6\mathrm{DF}}$	0.000	$0.057 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	2.523	$2.52^{+0.14}_{-0.12}$	$100\theta_{\mathrm{s,eq}}$	0.4642	$0.465^{+0.023}_{-0.018}$	χ^2_{MGS}	1.68	$1.70 (\nu: 0.2)$
z_{re}	7.716	$7.71^{+0.28}_{-0.29}$	$H(0.15)$	71.81	$71.9^{+5.1}_{-4.6}$	$\chi^2_{\mathrm{DR12BAO}}$	3.39	$4.3 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}$	2.379	$2.39^{+0.54}_{-0.41}$	$D_{\mathrm{M}}(0.15)$	650.5	650^{+45}_{-44}	χ^2_{prior}	0.00	$1.9 (\nu: 1.8)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	2.131	$2.14^{+0.49}_{-0.37}$	$H(0.38)$	81.6	$81.8^{+5.5}_{-5.0}$	χ^2_{BAO}	5.07	$6.1 (\nu: 0.9)$
D_{40}	1426	1426^{+300}_{-200}	$D_{\mathrm{M}}(0.38)$	1553	1551^{+100}_{-100}	χ^2_{Abund}	0.00	$2.0 (\nu: 1.9)$
D_{220}	6689	6733^{+2000}_{-1000}	$H(0.51)$	88.2	$88.3^{+5.7}_{-5.3}$			

Best-fit $\chi^2_{\mathrm{eff}} = 12.58$; $\bar{\chi}^2_{\mathrm{eff}} = 19.19$; $R - 1 = 0.00759$
 χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.39 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged:
7.51

9.52 base_nnu_mnu_lensing_lenspriors_BAO_Cooke17_Aver15_theta_post_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02198	$0.0220^{+0.0019}_{-0.0017}$	D_{810}	2893	2928^{+700}_{-600}	$D_M(0.51)$	2008	2007^{+130}_{-130}
$\Omega_c h^2$	0.1117	$0.112^{+0.017}_{-0.015}$	D_{1420}	926	938^{+200}_{-200}	$H(0.61)$	93.8	$93.9^{+6.1}_{-5.7}$
$100\theta_{MC}$	1.04090	$1.0409^{+0.0015}_{-0.0015}$	D_{2000}	261	264^{+80}_{-50}	$D_M(0.61)$	2337	2337^{+150}_{-150}
Σm_ν [eV]	0.261	< 0.717	$n_{s,0.002}$	0.9608	$0.962^{+0.049}_{-0.049}$	$H(2.33)$	231.3	232^{+15}_{-13}
N_{eff}	2.92	$2.95^{+0.79}_{-0.72}$	Y_P	0.2436	$0.244^{+0.011}_{-0.011}$	$D_M(2.33)$	5859	5856^{+370}_{-360}
$\ln(10^{10} A_s)$	3.165	$3.17^{+0.22}_{-0.17}$	Y_P^{BBN}	0.2449	$0.245^{+0.011}_{-0.011}$	$f\sigma_8(0.15)$	0.4436	$0.442^{+0.030}_{-0.035}$
n_s	0.9608	$0.962^{+0.049}_{-0.049}$	$10^5 D/H$	2.616	$2.61^{+0.23}_{-0.23}$	$\sigma_8(0.15)$	0.730	$0.728^{+0.053}_{-0.064}$
H_0	66.85	$66.9^{+4.9}_{-4.4}$	Age/Gyr	14.03	$14.02^{+0.89}_{-0.86}$	$f\sigma_8(0.38)$	0.4634	$0.462^{+0.030}_{-0.036}$
Ω_Λ	0.6948	$0.694^{+0.021}_{-0.022}$	z_*	1089.57	$1089.6^{+1.6}_{-1.7}$	$\sigma_8(0.38)$	0.649	$0.646^{+0.047}_{-0.057}$
Ω_m	0.3052	$0.306^{+0.022}_{-0.021}$	r_*	147.5	$147.4^{+9.1}_{-8.8}$	$f\sigma_8(0.51)$	0.4630	$0.461^{+0.029}_{-0.036}$
$\Omega_m h^2$	0.1364	$0.137^{+0.018}_{-0.016}$	$100\theta_*$	1.04132	$1.0413^{+0.0017}_{-0.0016}$	$\sigma_8(0.51)$	0.6077	$0.605^{+0.044}_{-0.053}$
$\Omega_\nu h^2$	0.00272	< 0.00756	$D_M(z_*)/\text{Gpc}$	14.17	$14.16^{+0.86}_{-0.85}$	$f\sigma_8(0.61)$	0.4588	$0.457^{+0.028}_{-0.036}$
$\Omega_m h^3$	0.0912	$0.092^{+0.018}_{-0.015}$	z_{drag}	1058.3	$1058.5^{+5.8}_{-5.6}$	$\sigma_8(0.61)$	0.5786	$0.576^{+0.042}_{-0.050}$
σ_8	0.789	$0.786^{+0.057}_{-0.069}$	r_{drag}	150.4	$150.2^{+9.8}_{-9.5}$	$f\sigma_8(2.33)$	0.2952	$0.294^{+0.019}_{-0.022}$
S_8	0.796	$0.794^{+0.059}_{-0.066}$	k_D	0.1376	$0.1379^{+0.0087}_{-0.0079}$	$\sigma_8(2.33)$	0.3029	$0.302^{+0.021}_{-0.025}$
$\sigma_8 \Omega_m^{0.5}$	0.4360	$0.435^{+0.032}_{-0.036}$	$100\theta_D$	0.16109	$0.1611^{+0.0018}_{-0.0020}$	χ^2_{lensing}	7.51	$9.2 (\nu: 1.5)$
$\sigma_8 \Omega_m^{0.25}$	0.5867	$0.585^{+0.041}_{-0.050}$	z_{eq}	3247	3243^{+200}_{-220}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\sigma_8/h^{0.5}$	0.965	$0.962^{+0.068}_{-0.082}$	k_{eq}	0.00983	$0.00983^{+0.00087}_{-0.00084}$	χ^2_{Cooke17}	0.00	$0.96 (\nu: 0.9)$
$r_{\text{drag}} h$	100.54	$100.5^{+2.8}_{-2.6}$	$100\theta_{\text{eq}}$	0.8411	$0.843^{+0.045}_{-0.034}$	χ^2_{JLA}	1034.81	$1034.97 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	2.516	$2.52^{+0.14}_{-0.13}$	$100\theta_{s,\text{eq}}$	0.4642	$0.465^{+0.023}_{-0.019}$	$\chi^2_{6\text{DF}}$	0.000	$0.049 (\nu: 0.0)$
z_{re}	7.713	$7.71^{+0.27}_{-0.28}$	$H(0.15)$	71.97	$72.0^{+5.1}_{-4.6}$	χ^2_{MGS}	1.75	$1.77 (\nu: 0.2)$
$10^9 A_s$	2.368	$2.39^{+0.57}_{-0.39}$	$D_M(0.15)$	649.0	649^{+45}_{-44}	χ^2_{DR12BAO}	3.35	$4.2 (\nu: 0.7)$
$10^9 A_s e^{-2\tau}$	2.122	$2.15^{+0.51}_{-0.35}$	$H(0.38)$	81.8	$81.9^{+5.4}_{-5.1}$	χ^2_{prior}	0.00	$1.9 (\nu: 1.8)$
D_{40}	1418	1427^{+300}_{-200}	$D_M(0.38)$	1549	1549^{+100}_{-100}	χ^2_{BAO}	5.10	$6.0 (\nu: 0.7)$
D_{220}	6655	6737^{+2000}_{-1000}	$H(0.51)$	88.3	$88.4^{+5.8}_{-5.4}$	χ^2_{Abund}	0.00	$2.0 (\nu: 2.0)$

Best-fit $\chi^2_{\text{eff}} = 1047.43$; $\bar{\chi}^2_{\text{eff}} = 1054.04$; $R - 1 = 0.00615$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.35 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8_CMBmarged: 7.51 SN - JLA Pantheon18: 1034.81

9.53 base_nnu_mnu_BAO_Cooke17_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02201	$0.0221^{+0.0019}_{-0.0017}$	Age/Gyr	12.45	$12.6^{+3.3}_{-3.1}$	$H(0.38)$	90.1	89^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.164	$0.15^{+0.19}_{-0.11}$	z_*	1094.0	$1094^{+12}_{-8.4}$	$D_{\text{M}}(0.38)$	1432	1460^{+300}_{-300}
$100\theta_{\text{MC}}$	1.099	$1.111^{+0.097}_{-0.10}$	r_*	135.1	138^{+30}_{-30}	$H(0.51)$	98.3	98^{+30}_{-20}
Σm_{ν} [eV]	0.31	—	$100\theta_*$	1.100	$1.112^{+0.097}_{-0.10}$	$D_{\text{M}}(0.51)$	1846	1880^{+400}_{-400}
N_{eff}	2.94	$2.97^{+0.72}_{-0.69}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.28	$12.4^{+3.9}_{-3.4}$	$H(0.61)$	105.1	105^{+30}_{-20}
H_0	71.0	70^{+10}_{-10}	z_{drag}	1062.0	$1062^{+11}_{-8.8}$	$D_{\text{M}}(0.61)$	2141	2179^{+400}_{-500}
Ω_{Λ}	0.625	$0.61^{+0.13}_{-0.16}$	r_{drag}	137.6	140^{+30}_{-30}	$H(2.33)$	270	272^{+100}_{-70}
Ω_{m}	0.375	$0.39^{+0.16}_{-0.13}$	k_{D}	0.1515	$0.150^{+0.038}_{-0.027}$	$D_{\text{M}}(2.33)$	5205	5276^{+1000}_{-1000}
$\Omega_{\text{m}}h^2$	0.189	$0.195^{+0.18}_{-0.095}$	$100\theta_{\text{D}}$	0.1689	$0.170^{+0.015}_{-0.014}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\nu}h^2$	0.0032	< 0.0524	z_{eq}	4509	4100^{+4000}_{-3000}	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.134	$0.138^{+0.16}_{-0.086}$	k_{eq}	0.0137	$0.0126^{+0.014}_{-0.0076}$	$\chi^2_{6\text{DF}}$	0.20	$0.45 (\nu: 0.1)$
$r_{\text{drag}}h$	97.7	$97.1^{+5.6}_{-5.9}$	$100\theta_{\text{eq}}$	0.70	$0.82^{+0.65}_{-0.36}$	χ^2_{MGS}	0.67	$0.71 (\nu: 0.2)$
Y_{P}	0.2438	$0.2442^{+0.0099}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.390	$0.45^{+0.37}_{-0.17}$	χ^2_{DR12BAO}	2.11	$4.0 (\nu: 1.8)$
$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.245^{+0.010}_{-0.010}$	$H(0.15)$	77.6	77^{+20}_{-10}	χ^2_{BAO}	3.0	$5.1 (\nu: 2.2)$
$10^5\text{D}/\text{H}$	2.618	$2.61^{+0.24}_{-0.25}$	$D_{\text{M}}(0.15)$	606	619^{+100}_{-100}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.1)$

Best-fit $\chi^2_{\text{eff}} = 2.99$; $\bar{\chi}^2_{\text{eff}} = 7.18$; $R - 1 = 0.00490$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.20 MGS: 0.67 DR12BAO: 2.11

9.54 base_nnu_mnu_BAO_Cooke17_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02200	$0.0221^{+0.0018}_{-0.0017}$	z_*	1090.45	$1088.5^{+5.0}_{-4.2}$	$H(0.51)$	90.3	86^{+10}_{-10}
$\Omega_{\text{c}}h^2$	0.122	$0.085^{+0.070}_{-0.058}$	r_*	144.8	152^{+20}_{-20}	$D_{\text{M}}(0.51)$	1970	2071^{+300}_{-200}
$100\theta_{\text{MC}}$	1.050	$1.050^{+0.051}_{-0.057}$	$100\theta_*$	1.050	$1.051^{+0.051}_{-0.057}$	$H(0.61)$	96.0	92^{+10}_{-10}
Σm_{ν} [eV]	0.06	—	$D_{\text{M}}(z_*)/\text{Gpc}$	13.79	$14.5^{+2.5}_{-2.2}$	$D_{\text{M}}(0.61)$	2292	2410^{+300}_{-300}
N_{eff}	2.93	$2.96^{+0.72}_{-0.69}$	z_{drag}	1059.1	$1057.8^{+6.7}_{-6.7}$	$H(2.33)$	237.9	227^{+40}_{-40}
H_0	68.0	65^{+8}_{-7}	r_{drag}	147.6	155^{+20}_{-20}	$D_{\text{M}}(2.33)$	5723	6017^{+900}_{-800}
Ω_{Λ}	0.687	$0.685^{+0.053}_{-0.056}$	k_{D}	0.1405	$0.134^{+0.017}_{-0.016}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
Ω_{m}	0.313	$0.315^{+0.056}_{-0.053}$	$100\theta_{\text{D}}$	0.1621	$0.1619^{+0.0070}_{-0.0075}$	χ^2_{Cooke17}	0.00	$0.96 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1446	$0.133^{+0.053}_{-0.041}$	z_{eq}	3497	2592^{+2000}_{-1000}	χ^2_{JLA}	1035.14	$1036.1 (\nu: 1.6)$
$\Omega_{\nu}h^2$	0.0006	< 0.0525	k_{eq}	0.01059	$0.0081^{+0.0049}_{-0.0038}$	$\chi^2_{6\text{DF}}$	0.000	$0.053 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0983	$0.086^{+0.047}_{-0.033}$	$100\theta_{\text{eq}}$	0.80	$1.07^{+0.65}_{-0.38}$	χ^2_{MGS}	1.68	$1.75 (\nu: 0.2)$
$r_{\text{drag}}h$	100.32	$100.3^{+3.1}_{-3.0}$	$100\theta_{\text{s,eq}}$	0.444	$0.58^{+0.32}_{-0.20}$	χ^2_{DR12BAO}	2.95	$4.0 (\nu: 1.3)$
Y_{P}	0.2436	$0.244^{+0.010}_{-0.010}$	$H(0.15)$	73.3	70^{+9}_{-8}	χ^2_{BAO}	4.63	$5.8 (\nu: 1.7)$
$Y_{\text{P}}^{\text{BBN}}$	0.2449	$0.245^{+0.010}_{-0.010}$	$D_{\text{M}}(0.15)$	638	671^{+80}_{-80}	χ^2_{Abund}	0.00	$2.0 (\nu: 1.8)$
$10^5\text{D}/\text{H}$	2.614	$2.61^{+0.23}_{-0.24}$	$H(0.38)$	83.5	80^{+10}_{-10}			
Age/Gyr	13.70	$14.4^{+2.2}_{-1.9}$	$D_{\text{M}}(0.38)$	1521	1599^{+200}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 1039.77$; $\bar{\chi}^2_{\text{eff}} = 1043.83$; $R - 1 = 0.00972$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.95 SN - JLA Pantheon18: 1035.14

9.55 base_nnu_mnu_BAO_Cooke17_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02187	$0.0221^{+0.0018}_{-0.0017}$	z_*	1089.32	$1087.9^{+2.9}_{-2.4}$	$H(0.51)$	87.4	$84.5^{+7.7}_{-6.2}$
$\Omega_{\text{c}}h^2$	0.1072	$0.078^{+0.045}_{-0.040}$	r_*	149.0	154^{+11}_{-13}	$D_{\text{M}}(0.51)$	2030	2102^{+160}_{-190}
$100\theta_{\text{MC}}$	1.04087	$1.0409^{+0.0016}_{-0.0015}$	$100\theta_*$	1.04143	$1.0417^{+0.0017}_{-0.0018}$	$H(0.61)$	92.8	$89.8^{+8.2}_{-6.6}$
Σm_{ν} [eV]	0.47	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.31	$14.8^{+1.1}_{-1.3}$	$D_{\text{M}}(0.61)$	2363	2447^{+180}_{-220}
N_{eff}	2.88	$2.96^{+0.77}_{-0.66}$	z_{drag}	1057.8	$1057.2^{+6.0}_{-5.5}$	$H(2.33)$	229.1	222^{+20}_{-16}
H_0	66.1	$63.9^{+6.4}_{-4.8}$	r_{drag}	151.9	157^{+12}_{-14}	$D_{\text{M}}(2.33)$	5920	6128^{+440}_{-530}
Ω_{Λ}	0.6935	$0.693^{+0.023}_{-0.024}$	k_{D}	0.1362	$0.132^{+0.012}_{-0.0087}$	χ^2_{Aver15}	0.02	$1.0 (\nu: 1.0)$
Ω_{m}	0.3065	$0.307^{+0.024}_{-0.023}$	$100\theta_{\text{D}}$	0.16117	$0.1608^{+0.0020}_{-0.0022}$	χ^2_{Cooke17}	0.00	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^2$	0.1339	$0.126^{+0.023}_{-0.018}$	z_{eq}	3153	2429^{+1000}_{-900}	$\chi^2_{6\text{DF}}$	0.000	$0.058 (\nu: 0.0)$
$\Omega_{\nu}h^2$	0.0048	< 0.0524	k_{eq}	0.00952	$0.0076^{+0.0029}_{-0.0025}$	χ^2_{MGS}	1.68	$1.71 (\nu: 0.2)$
$\Omega_{\text{m}}h^3$	0.0885	$0.080^{+0.023}_{-0.017}$	$100\theta_{\text{eq}}$	0.860	$1.10^{+0.45}_{-0.31}$	χ^2_{DR12BAO}	3.37	$4.3 (\nu: 1.1)$
$r_{\text{drag}}h$	100.42	$100.3^{+3.1}_{-3.0}$	$100\theta_{\text{s,eq}}$	0.474	$0.60^{+0.22}_{-0.16}$	χ^2_{prior}	0.00	$0.98 (\nu: 1.0)$
Y_{P}	0.2430	$0.244^{+0.010}_{-0.0098}$	$H(0.15)$	71.2	$68.8^{+6.7}_{-5.0}$	χ^2_{BAO}	5.04	$6.1 (\nu: 1.1)$
$Y_{\text{P}}^{\text{BBN}}$	0.2443	$0.245^{+0.011}_{-0.0099}$	$D_{\text{M}}(0.15)$	656	680^{+53}_{-62}	χ^2_{Abund}	0.03	$2.1 (\nu: 2.1)$
$10^5\text{D}/\text{H}$	2.623	$2.61^{+0.24}_{-0.25}$	$H(0.38)$	80.9	$78.3^{+7.4}_{-5.5}$			
Age/Gyr	14.17	$14.7^{+1.1}_{-1.3}$	$D_{\text{M}}(0.38)$	1567	1622^{+120}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 5.07$; $\bar{\chi}^2_{\text{eff}} = 9.13$; $R - 1 = 0.00353$

χ^2_{eff} : Abund - Yp_Aver2015: 0.02 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.37

9.56 base_nnu_mnu_BAO_Cooke17_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02193	$0.0220^{+0.0018}_{-0.0017}$	z_*	1089.73	$1087.8^{+2.9}_{-2.2}$	$H(0.51)$	88.5	$84.4^{+8.1}_{-6.0}$
$\Omega_{\text{c}}h^2$	0.1130	$0.078^{+0.045}_{-0.040}$	r_*	147.3	155^{+11}_{-13}	$D_{\text{M}}(0.51)$	2005	2104^{+160}_{-190}
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0014}_{-0.0015}$	$100\theta_*$	1.04129	$1.0417^{+0.0016}_{-0.0018}$	$H(0.61)$	94.0	$89.7^{+8.5}_{-6.3}$
Σm_{ν} [eV]	0.18	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.14	$14.8^{+1.0}_{-1.3}$	$D_{\text{M}}(0.61)$	2334	2449^{+190}_{-220}
N_{eff}	2.92	$2.94^{+0.73}_{-0.67}$	z_{drag}	1058.3	$1057.1^{+5.9}_{-5.4}$	$H(2.33)$	231.7	221^{+20}_{-15}
H_0	67.0	$63.9^{+6.5}_{-5.0}$	r_{drag}	150.2	158^{+12}_{-14}	$D_{\text{M}}(2.33)$	5850	6137^{+450}_{-540}
Ω_{Λ}	0.6949	$0.694^{+0.021}_{-0.022}$	k_{D}	0.1379	$0.132^{+0.012}_{-0.0085}$	χ^2_{Aver15}	0.00	$0.98 (\nu: 0.9)$
Ω_{m}	0.3051	$0.306^{+0.022}_{-0.021}$	$100\theta_{\text{D}}$	0.16109	$0.1607^{+0.0021}_{-0.0020}$	χ^2_{Cooke17}	0.00	$0.97 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1368	$0.125^{+0.024}_{-0.016}$	z_{eq}	3281	2422^{+1000}_{-900}	χ^2_{JLA}	1034.81	$1034.98 (\nu: 0.1)$
$\Omega_{\nu}h^2$	0.0019	< 0.0521	k_{eq}	0.00993	$0.0075^{+0.0029}_{-0.0025}$	$\chi^2_{6\text{DF}}$	0.000	$0.049 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0916	$0.080^{+0.023}_{-0.016}$	$100\theta_{\text{eq}}$	0.834	$1.11^{+0.44}_{-0.30}$	χ^2_{MGS}	1.75	$1.81 (\nu: 0.2)$
$r_{\text{drag}}h$	100.54	$100.5^{+2.8}_{-2.7}$	$100\theta_{\text{s,eq}}$	0.461	$0.60^{+0.22}_{-0.16}$	χ^2_{DR12BAO}	3.35	$4.1 (\nu: 0.7)$
Y_{P}	0.2435	$0.244^{+0.010}_{-0.010}$	$H(0.15)$	72.1	$68.8^{+6.8}_{-5.2}$	χ^2_{prior}	0.00	$0.9 (\nu: 0.8)$
$Y_{\text{P}}^{\text{BBN}}$	0.2448	$0.245^{+0.010}_{-0.010}$	$D_{\text{M}}(0.15)$	648	680^{+55}_{-63}	χ^2_{BAO}	5.10	$5.9 (\nu: 0.8)$
$10^5\text{D}/\text{H}$	2.623	$2.61^{+0.24}_{-0.24}$	$H(0.38)$	81.9	$78.2^{+7.5}_{-5.6}$	χ^2_{Abund}	0.00	$1.9 (\nu: 1.9)$
Age/Gyr	14.01	$14.7^{+1.1}_{-1.3}$	$D_{\text{M}}(0.38)$	1547	1623^{+130}_{-150}			

Best-fit $\chi^2_{\text{eff}} = 1039.91$; $\bar{\chi}^2_{\text{eff}} = 1043.81$; $R - 1 = 0.00806$

χ^2_{eff} : Abund - Yp_Aver2015: 0.00 D_Cooke2017: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.35 SN - JLA Pantheon18: 1034.81

9.57 base_nnu_mnu_BAO_Cooke17Marc_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02175	$0.0219^{+0.0015}_{-0.0014}$	Age/Gyr	13.23	$12.7^{+3.5}_{-2.8}$	$H(0.38)$	84.9	89^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.118	$0.14^{+0.16}_{-0.10}$	z_*	1091.9	$1093.7^{+9.9}_{-8.5}$	$D_{\text{M}}(0.38)$	1520	1467^{+300}_{-300}
$100\theta_{\text{MC}}$	1.097	$1.110^{+0.089}_{-0.11}$	r_*	143.3	138^{+30}_{-30}	$H(0.51)$	92.6	97^{+30}_{-20}
Σm_{ν} [eV]	2.67	—	$100\theta_*$	1.098	$1.111^{+0.089}_{-0.11}$	$D_{\text{M}}(0.51)$	1960	1890^{+400}_{-300}
N_{eff}	2.92	$2.98^{+0.74}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.06	$12.5^{+4.2}_{-3.1}$	$H(0.61)$	98.9	104^{+30}_{-20}
H_0	66.9	69^{+10}_{-10}	z_{drag}	1059.5	$1061.3^{+9.8}_{-8.8}$	$D_{\text{M}}(0.61)$	2274	2191^{+500}_{-400}
Ω_{Λ}	0.626	$0.61^{+0.13}_{-0.14}$	r_{drag}	146.1	141^{+30}_{-30}	$H(2.33)$	254	270^{+90}_{-70}
Ω_{m}	0.374	$0.39^{+0.14}_{-0.13}$	k_{D}	0.1430	$0.149^{+0.033}_{-0.028}$	$D_{\text{M}}(2.33)$	5530	5305^{+1000}_{-1000}
$\Omega_{\text{m}}h^2$	0.167	$0.192^{+0.15}_{-0.096}$	$100\theta_{\text{D}}$	0.1682	$0.170^{+0.013}_{-0.014}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\nu}h^2$	0.0279	< 0.0526	z_{eq}	3391	4018^{+4000}_{-2000}	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.0)$
$\Omega_{\text{m}}h^3$	0.112	$0.135^{+0.14}_{-0.077}$	k_{eq}	0.0104	$0.0124^{+0.011}_{-0.0073}$	$\chi^2_{6\text{DF}}$	0.20	$0.43 (\nu: 0.1)$
$r_{\text{drag}}h$	97.8	$97.2^{+5.7}_{-5.3}$	$100\theta_{\text{eq}}$	0.869	$0.82^{+0.59}_{-0.34}$	χ^2_{MGS}	0.67	$0.70 (\nu: 0.2)$
Y_{P}	0.2435	$0.244^{+0.010}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.481	$0.46^{+0.30}_{-0.18}$	χ^2_{DR12BAO}	2.11	$3.9 (\nu: 1.6)$
$Y_{\text{P}}^{\text{BBN}}$	0.2448	$0.245^{+0.010}_{-0.010}$	$H(0.15)$	73.1	76^{+20}_{-10}	χ^2_{BAO}	3.0	$5.0 (\nu: 2.0)$
$10^5\text{D}/\text{H}$	2.661	$2.66^{+0.11}_{-0.11}$	$D_{\text{M}}(0.15)$	644	623^{+100}_{-100}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.0)$

Best-fit $\chi^2_{\text{eff}} = 2.99$; $\bar{\chi}^2_{\text{eff}} = 7.06$; $R - 1 = 0.00313$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.20 MGS: 0.67 DR12BAO: 2.11

9.58 base_nnu_mnu_BAO_Cooke17Marc_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02179	$0.0219^{+0.0014}_{-0.0014}$	z_*	1090.16	$1088.8^{+4.3}_{-3.6}$	$H(0.51)$	89.1	86^{+10}_{-10}
$\Omega_{\text{c}}h^2$	0.115	$0.085^{+0.067}_{-0.054}$	r_*	146.7	152^{+16}_{-17}	$D_{\text{M}}(0.51)$	1996	2073^{+230}_{-240}
$100\theta_{\text{MC}}$	1.0475	$1.050^{+0.047}_{-0.051}$	$100\theta_*$	1.0479	$1.051^{+0.047}_{-0.050}$	$H(0.61)$	94.6	91^{+10}_{-10}
Σm_{ν} [eV]	0.35	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.00	$14.5^{+2.1}_{-2.0}$	$D_{\text{M}}(0.61)$	2323	2412^{+300}_{-300}
N_{eff}	2.94	$2.98^{+0.74}_{-0.70}$	z_{drag}	1058.1	$1057.2^{+6.2}_{-5.7}$	$H(2.33)$	234.5	227^{+40}_{-30}
H_0	67.1	65^{+8}_{-6}	r_{drag}	149.6	155^{+17}_{-17}	$D_{\text{M}}(2.33)$	5803	6021^{+800}_{-800}
Ω_{Λ}	0.6879	$0.685^{+0.049}_{-0.050}$	k_{D}	0.1383	$0.134^{+0.016}_{-0.014}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$1.0 (\nu: 1.0)$
Ω_{m}	0.3121	$0.315^{+0.050}_{-0.049}$	$100\theta_{\text{D}}$	0.1623	$0.1623^{+0.0061}_{-0.0064}$	χ^2_{Aver15}	0.00	$0.97 (\nu: 1.0)$
$\Omega_{\text{m}}h^2$	0.1404	$0.132^{+0.047}_{-0.036}$	z_{eq}	3317	2585^{+2000}_{-1000}	χ^2_{JLA}	1035.09	$1036.0 (\nu: 1.3)$
$\Omega_{\nu}h^2$	0.0036	< 0.0523	k_{eq}	0.01005	$0.0080^{+0.0046}_{-0.0035}$	$\chi^2_{6\text{DF}}$	0.000	$0.054 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0942	$0.086^{+0.043}_{-0.029}$	$100\theta_{\text{eq}}$	0.833	$1.07^{+0.59}_{-0.36}$	χ^2_{MGS}	1.68	$1.74 (\nu: 0.2)$
$r_{\text{drag}}h$	100.34	$100.3^{+3.1}_{-2.9}$	$100\theta_{\text{s,eq}}$	0.460	$0.58^{+0.29}_{-0.19}$	χ^2_{DR12BAO}	3.00	$3.9 (\nu: 1.2)$
Y_{P}	0.2437	$0.244^{+0.010}_{-0.011}$	$H(0.15)$	72.3	70^{+9}_{-7}	χ^2_{BAO}	4.68	$5.7 (\nu: 1.6)$
$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.245^{+0.010}_{-0.011}$	$D_{\text{M}}(0.15)$	646	672^{+71}_{-75}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.0)$
$10^5\text{D}/\text{H}$	2.660	$2.66^{+0.11}_{-0.11}$	$H(0.38)$	82.4	80^{+10}_{-9}			
Age/Gyr	13.89	$14.4^{+1.9}_{-1.8}$	$D_{\text{M}}(0.38)$	1541	1601^{+170}_{-180}			

Best-fit $\chi^2_{\text{eff}} = 1039.76$; $\bar{\chi}^2_{\text{eff}} = 1043.75$; $R - 1 = 0.00814$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.00 SN - JLA Pantheon18: 1035.09

9.59 base_nnu_mnu_BAO_Cooke17Marc_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathbf{b}}h^2$	0.02173	$0.0218^{+0.0015}_{-0.0014}$	z_*	1088.67	$1088.1^{+2.5}_{-1.7}$	$H(0.51)$	85.5	$84.2^{+8.3}_{-6.0}$
$\Omega_{\mathbf{c}}h^2$	0.0931	$0.077^{+0.045}_{-0.039}$	r_*	152.3	155^{+12}_{-14}	$D_{\text{M}}(0.51)$	2077	2112^{+160}_{-200}
$100\theta_{\text{MC}}$	1.04086	$1.0409^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04167	$1.0418^{+0.0018}_{-0.0018}$	$H(0.61)$	90.8	$89.4^{+8.7}_{-6.3}$
Σm_ν [eV]	1.31	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.62	$14.9^{+1.1}_{-1.3}$	$D_{\text{M}}(0.61)$	2417	2458^{+190}_{-230}
N_{eff}	2.91	$2.95^{+0.79}_{-0.67}$	z_{drag}	1056.7	$1056.5^{+5.3}_{-4.9}$	$H(2.33)$	224.4	221^{+21}_{-16}
H_0	64.6	$63.6^{+6.6}_{-4.8}$	r_{drag}	155.3	158^{+12}_{-14}	$D_{\text{M}}(2.33)$	6051	6152^{+460}_{-550}
Ω_{Λ}	0.6919	$0.692^{+0.022}_{-0.025}$	k_{D}	0.1331	$0.131^{+0.012}_{-0.0086}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$0.99 (\nu: 1.0)$
Ω_{m}	0.3081	$0.308^{+0.025}_{-0.022}$	$100\theta_{\text{D}}$	0.16148	$0.1611^{+0.0013}_{-0.0013}$	χ^2_{Aver15}	0.01	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^2$	0.1284	$0.125^{+0.025}_{-0.017}$	z_{eq}	2794	2388^{+1000}_{-900}	$\chi^2_{6\text{DF}}$	0.001	$0.057 (\nu: 0.0)$
$\Omega_{\nu}h^2$	0.0136	< 0.0525	k_{eq}	0.00850	$0.0075^{+0.0029}_{-0.0025}$	χ^2_{MGS}	1.61	$1.69 (\nu: 0.2)$
$\Omega_{\text{m}}h^3$	0.0829	$0.079^{+0.023}_{-0.017}$	$100\theta_{\text{eq}}$	0.946	$1.12^{+0.44}_{-0.32}$	χ^2_{DR12BAO}	3.37	$4.3 (\nu: 1.1)$
$r_{\text{drag}}h$	100.30	$100.3^{+2.9}_{-3.0}$	$100\theta_{\text{s,eq}}$	0.519	$0.61^{+0.22}_{-0.16}$	χ^2_{prior}	0.00	$1.0 (\nu: 1.1)$
Y_{P}	0.2433	$0.244^{+0.011}_{-0.010}$	$H(0.15)$	69.6	$68.5^{+6.6}_{-5.3}$	χ^2_{BAO}	4.98	$6.0 (\nu: 1.1)$
$Y_{\text{P}}^{\text{BBN}}$	0.2446	$0.245^{+0.011}_{-0.010}$	$D_{\text{M}}(0.15)$	672	683^{+53}_{-65}	χ^2_{Abund}	0.01	$2.0 (\nu: 2.1)$
$10^5\text{D}/\text{H}$	2.662	$2.66^{+0.11}_{-0.10}$	$H(0.38)$	79.1	$77.9^{+7.8}_{-5.6}$			
Age/Gyr	14.49	$14.7^{+1.1}_{-1.3}$	$D_{\text{M}}(0.38)$	1603	1630^{+120}_{-150}			

Best-fit $\chi^2_{\text{eff}} = 4.99$; $\bar{\chi}^2_{\text{eff}} = 9.06$; $R - 1 = 0.01055$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.01 BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.37

9.60 base_nnu_mnu_BAO_Cooke17Marc_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathbf{b}}h^2$	0.02176	$0.0218^{+0.0015}_{-0.0014}$	z_*	1089.95	$1088.1^{+2.4}_{-1.7}$	$H(0.51)$	88.3	$84.4^{+8.1}_{-6.0}$
$\Omega_{\mathbf{c}}h^2$	0.1127	$0.078^{+0.046}_{-0.041}$	r_*	147.4	155^{+12}_{-14}	$D_{\text{M}}(0.51)$	2009	2104^{+160}_{-190}
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0015}_{-0.0016}$	$100\theta_*$	1.04136	$1.0418^{+0.0017}_{-0.0018}$	$H(0.61)$	93.8	$89.7^{+8.7}_{-6.4}$
Σm_ν [eV]	0.22	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.16	$14.8^{+1.1}_{-1.3}$	$D_{\text{M}}(0.61)$	2338	2449^{+190}_{-220}
N_{eff}	2.93	$2.97^{+0.82}_{-0.69}$	z_{drag}	1057.9	$1056.6^{+5.7}_{-4.8}$	$H(2.33)$	231.6	221^{+21}_{-16}
H_0	66.8	$63.8^{+6.6}_{-4.8}$	r_{drag}	150.3	158^{+12}_{-14}	$D_{\text{M}}(2.33)$	5857	6136^{+460}_{-550}
Ω_{Λ}	0.6935	$0.693^{+0.021}_{-0.021}$	k_{D}	0.1375	$0.132^{+0.012}_{-0.0086}$	$\chi^2_{\text{Cooke17Marc}}$	0.00	$0.96 (\nu: 0.9)$
Ω_{m}	0.3065	$0.307^{+0.021}_{-0.021}$	$100\theta_{\text{D}}$	0.16141	$0.1611^{+0.0012}_{-0.0014}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^2$	0.1367	$0.125^{+0.024}_{-0.017}$	z_{eq}	3265	2414^{+1000}_{-900}	χ^2_{JLA}	1034.85	$1034.99 (\nu: 0.1)$
$\Omega_{\nu}h^2$	0.0022	< 0.0527	k_{eq}	0.00989	$0.0075^{+0.0030}_{-0.0025}$	$\chi^2_{6\text{DF}}$	0.000	$0.048 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0913	$0.080^{+0.024}_{-0.017}$	$100\theta_{\text{eq}}$	0.837	$1.11^{+0.45}_{-0.31}$	χ^2_{MGS}	1.68	$1.79 (\nu: 0.2)$
$r_{\text{drag}}h$	100.42	$100.5^{+2.8}_{-2.7}$	$100\theta_{\text{s,eq}}$	0.462	$0.60^{+0.22}_{-0.16}$	χ^2_{DR12BAO}	3.37	$4.1 (\nu: 0.7)$
Y_{P}	0.2436	$0.244^{+0.011}_{-0.010}$	$H(0.15)$	71.9	$68.8^{+7.0}_{-5.0}$	χ^2_{prior}	0.00	$1.0 (\nu: 1.0)$
$Y_{\text{P}}^{\text{BBN}}$	0.2449	$0.245^{+0.011}_{-0.010}$	$D_{\text{M}}(0.15)$	649	680^{+53}_{-64}	χ^2_{BAO}	5.04	$5.9 (\nu: 0.8)$
$10^5\text{D}/\text{H}$	2.662	$2.66^{+0.11}_{-0.11}$	$H(0.38)$	81.8	$78.2^{+7.6}_{-5.6}$	χ^2_{Abund}	0.00	$2.0 (\nu: 1.9)$
Age/Gyr	14.02	$14.7^{+1.1}_{-1.3}$	$D_{\text{M}}(0.38)$	1550	1624^{+130}_{-150}			

Best-fit $\chi^2_{\text{eff}} = 1039.90$; $\bar{\chi}^2_{\text{eff}} = 1043.87$; $R - 1 = 0.00926$

χ^2_{eff} : Abund - D.Cooke2017_marcucci: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 3.37 SN - JLA Pantheon18: 1034.85

9.61 base_nnu_mnu_BAO_Cooke17Adel_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02251	$0.0225^{+0.0017}_{-0.0016}$	Age/Gyr	12.33	$12.6^{+3.5}_{-3.0}$	$H(0.38)$	91.0	89^{+20}_{-20}
$\Omega_{\text{c}}h^2$	0.168	$0.15^{+0.17}_{-0.11}$	z_*	1093.5	$1093^{+11}_{-8.3}$	$D_{\text{M}}(0.38)$	1419	1459^{+300}_{-300}
$100\theta_{\text{MC}}$	1.102	$1.110^{+0.097}_{-0.11}$	r_*	134.0	138^{+30}_{-30}	$H(0.51)$	99.3	98^{+30}_{-20}
Σm_{ν} [eV]	0.26	—	$100\theta_*$	1.102	$1.111^{+0.097}_{-0.11}$	$D_{\text{M}}(0.51)$	1829	1880^{+400}_{-400}
N_{eff}	2.93	$2.94^{+0.76}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	12.16	$12.4^{+4.1}_{-3.2}$	$H(0.61)$	106.1	105^{+30}_{-20}
H_0	71.7	70^{+10}_{-10}	z_{drag}	1063.4	$1063^{+10}_{-8.7}$	$D_{\text{M}}(0.61)$	2121	2179^{+500}_{-400}
Ω_{Λ}	0.624	$0.61^{+0.13}_{-0.15}$	r_{drag}	136.4	140^{+30}_{-30}	$H(2.33)$	273	271^{+100}_{-70}
Ω_{m}	0.376	$0.39^{+0.15}_{-0.13}$	k_{D}	0.1535	$0.151^{+0.036}_{-0.029}$	$D_{\text{M}}(2.33)$	5155	5280^{+1000}_{-1000}
$\Omega_{\text{m}}h^2$	0.193	$0.194^{+0.17}_{-0.096}$	$100\theta_{\text{D}}$	0.1684	$0.169^{+0.014}_{-0.014}$	$\chi^2_{\text{Cooke17Adel}}$	0.01	$1.0 (\nu: 1.0)$
$\Omega_{\nu}h^2$	0.0027	< 0.0524	z_{eq}	4622	4096^{+4000}_{-3000}	χ^2_{Aver15}	0.01	$1.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	0.138	$0.138^{+0.14}_{-0.086}$	k_{eq}	0.0140	$0.0126^{+0.012}_{-0.0076}$	$\chi^2_{6\text{DF}}$	0.21	$0.43 (\nu: 0.1)$
$r_{\text{drag}}h$	97.7	$97.2^{+5.8}_{-5.7}$	$100\theta_{\text{eq}}$	0.688	$0.82^{+0.62}_{-0.36}$	χ^2_{MGS}	0.67	$0.74 (\nu: 0.2)$
Y_{P}	0.2439	$0.244^{+0.010}_{-0.011}$	$100\theta_{\text{s,eq}}$	0.384	$0.45^{+0.32}_{-0.19}$	χ^2_{DR12BAO}	2.11	$3.9 (\nu: 1.8)$
$Y_{\text{P}}^{\text{BBN}}$	0.2453	$0.245^{+0.010}_{-0.011}$	$H(0.15)$	78.4	77^{+20}_{-10}	χ^2_{BAO}	2.98	$5.1 (\nu: 2.2)$
$10^5\text{D}/\text{H}$	2.522	$2.52^{+0.17}_{-0.17}$	$D_{\text{M}}(0.15)$	601	619^{+100}_{-100}	χ^2_{Abund}	0.01	$2.0 (\nu: 2.1)$

Best-fit $\chi^2_{\text{eff}} = 3.00$; $\bar{\chi}^2_{\text{eff}} = 7.14$; $R - 1 = 0.00205$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.01 Yp_Aver2015: 0.01 BAO - 6DF: 0.21 MGS: 0.67 DR12BAO: 2.11

9.62 base_nnu_mnu_BAO_Cooke17Adel_Aver15_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02246	$0.0225^{+0.0016}_{-0.0016}$	z_*	1089.95	$1088.0^{+4.7}_{-4.0}$	$H(0.51)$	90.8	87^{+10}_{-10}
$\Omega_{\text{c}}h^2$	0.123	$0.086^{+0.071}_{-0.057}$	r_*	144.2	152^{+20}_{-20}	$D_{\text{M}}(0.51)$	1959	2063^{+300}_{-300}
$100\theta_{\text{MC}}$	1.051	$1.052^{+0.051}_{-0.053}$	$100\theta_*$	1.051	$1.052^{+0.051}_{-0.053}$	$H(0.61)$	96.5	92^{+10}_{-10}
Σm_{ν} [eV]	0.05	—	$D_{\text{M}}(z_*)/\text{Gpc}$	13.72	$14.4^{+2.5}_{-2.2}$	$D_{\text{M}}(0.61)$	2279	2400^{+300}_{-300}
N_{eff}	2.92	$2.94^{+0.75}_{-0.73}$	z_{drag}	1060.3	$1058.8^{+6.6}_{-7.0}$	$H(2.33)$	239.1	228^{+40}_{-40}
H_0	68.3	65^{+8}_{-7}	r_{drag}	146.8	155^{+20}_{-20}	$D_{\text{M}}(2.33)$	5693	5991^{+900}_{-800}
Ω_{Λ}	0.687	$0.685^{+0.051}_{-0.055}$	k_{D}	0.1417	$0.135^{+0.018}_{-0.016}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$1.0 (\nu: 1.1)$
Ω_{m}	0.313	$0.315^{+0.055}_{-0.051}$	$100\theta_{\text{D}}$	0.1616	$0.1614^{+0.0068}_{-0.0069}$	χ^2_{Aver15}	0.00	$1.1 (\nu: 1.1)$
$\Omega_{\text{m}}h^2$	0.1460	$0.134^{+0.053}_{-0.041}$	z_{eq}	3538	2625^{+2000}_{-1000}	χ^2_{JLA}	1035.12	$1036.1 (\nu: 1.6)$
$\Omega_{\nu}h^2$	0.0005	< 0.0524	k_{eq}	0.01071	$0.0082^{+0.0049}_{-0.0039}$	$\chi^2_{6\text{DF}}$	0.000	$0.053 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0998	$0.087^{+0.048}_{-0.033}$	$100\theta_{\text{eq}}$	0.80	$1.06^{+0.63}_{-0.38}$	χ^2_{MGS}	1.68	$1.74 (\nu: 0.2)$
$r_{\text{drag}}h$	100.33	$100.3^{+3.1}_{-3.0}$	$100\theta_{\text{s,eq}}$	0.441	$0.58^{+0.31}_{-0.19}$	χ^2_{DR12BAO}	2.97	$4.0 (\nu: 1.2)$
Y_{P}	0.2437	$0.244^{+0.010}_{-0.011}$	$H(0.15)$	73.7	70^{+9}_{-8}	χ^2_{BAO}	4.64	$5.7 (\nu: 1.6)$
$Y_{\text{P}}^{\text{BBN}}$	0.2451	$0.245^{+0.010}_{-0.011}$	$D_{\text{M}}(0.15)$	634	668^{+80}_{-80}	χ^2_{Abund}	0.00	$2.1 (\nu: 2.2)$
$10^5\text{D}/\text{H}$	2.526	$2.52^{+0.18}_{-0.17}$	$H(0.38)$	84.0	80^{+10}_{-10}			
Age/Gyr	13.63	$14.3^{+2.2}_{-2.0}$	$D_{\text{M}}(0.38)$	1512	1593^{+200}_{-200}			

Best-fit $\chi^2_{\text{eff}} = 1039.76$; $\bar{\chi}^2_{\text{eff}} = 1043.96$; $R - 1 = 0.00624$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 2.96 SN - JLA Pantheon18: 1035.12

9.63 base_nnu_mnu_BAO_Cooke17Adel_Aver15_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02240	$0.0225^{+0.0016}_{-0.0016}$	z_*	1088.62	$1087.3^{+2.5}_{-1.9}$	$H(0.51)$	87.6	$84.7^{+7.6}_{-6.1}$
$\Omega_{\text{c}}h^2$	0.1061	$0.079^{+0.044}_{-0.040}$	r_*	148.8	154^{+11}_{-13}	$D_{\text{M}}(0.51)$	2026	2096^{+160}_{-180}
$100\theta_{\text{MC}}$	1.04089	$1.0409^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04141	$1.0417^{+0.0017}_{-0.0018}$	$H(0.61)$	93.0	$90.0^{+8.0}_{-6.4}$
Σm_{ν} [eV]	0.56	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.29	$14.8^{+1.1}_{-1.2}$	$D_{\text{M}}(0.61)$	2359	2440^{+190}_{-210}
N_{eff}	2.90	$2.94^{+0.75}_{-0.67}$	z_{drag}	1058.9	$1058.2^{+5.3}_{-5.2}$	$H(2.33)$	229.5	222^{+19}_{-15}
H_0	66.2	$64.1^{+6.2}_{-5.1}$	r_{drag}	151.5	157^{+12}_{-13}	$D_{\text{M}}(2.33)$	5909	6114^{+460}_{-500}
Ω_{Λ}	0.6936	$0.694^{+0.022}_{-0.024}$	k_{D}	0.1370	$0.133^{+0.011}_{-0.0087}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$1.0 (\nu: 1.1)$
Ω_{m}	0.3064	$0.306^{+0.024}_{-0.022}$	$100\theta_{\text{D}}$	0.16049	$0.1601^{+0.0016}_{-0.0017}$	χ^2_{Aver15}	0.00	$1.0 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1343	$0.126^{+0.023}_{-0.017}$	z_{eq}	3134	2456^{+900}_{-900}	$\chi^2_{6\text{DF}}$	0.001	$0.056 (\nu: 0.0)$
$\Omega_{\nu}h^2$	0.0058	< 0.0522	k_{eq}	0.00948	$0.0076^{+0.0028}_{-0.0025}$	χ^2_{MGS}	1.61	$1.74 (\nu: 0.2)$
$\Omega_{\text{m}}h^3$	0.0890	$0.081^{+0.023}_{-0.016}$	$100\theta_{\text{eq}}$	0.866	$1.09^{+0.44}_{-0.30}$	χ^2_{DR12BAO}	3.51	$4.3 (\nu: 1.0)$
$r_{\text{drag}}h$	100.32	$100.4^{+3.0}_{-2.9}$	$100\theta_{\text{s,eq}}$	0.477	$0.59^{+0.22}_{-0.15}$	χ^2_{prior}	0.00	$1.0 (\nu: 1.1)$
Y_{P}	0.2434	$0.244^{+0.010}_{-0.010}$	$H(0.15)$	71.3	$69.0^{+6.5}_{-5.2}$	χ^2_{BAO}	5.12	$6.1 (\nu: 1.0)$
$Y_{\text{P}}^{\text{BBN}}$	0.2447	$0.245^{+0.010}_{-0.010}$	$D_{\text{M}}(0.15)$	655	678^{+56}_{-60}	χ^2_{Abund}	0.00	$2.0 (\nu: 2.0)$
$10^5\text{D}/\text{H}$	2.529	$2.53^{+0.17}_{-0.18}$	$H(0.38)$	81.1	$78.5^{+7.1}_{-5.7}$			
Age/Gyr	14.15	$14.6^{+1.1}_{-1.2}$	$D_{\text{M}}(0.38)$	1564	1618^{+130}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 5.12$; $\bar{\chi}^2_{\text{eff}} = 9.16$; $R - 1 = 0.00663$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 3.51

9.64 base_nnu_mnu_BAO_Cooke17Adel_Aver15_Pantheon18_theta

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02241	$0.0225^{+0.0015}_{-0.0014}$	z_*	1089.11	$1087.3^{+2.5}_{-1.8}$	$H(0.51)$	88.7	$84.5^{+7.7}_{-5.6}$
$\Omega_{\text{c}}h^2$	0.1128	$0.077^{+0.046}_{-0.040}$	r_*	147.0	154^{+11}_{-13}	$D_{\text{M}}(0.51)$	2000	2100^{+150}_{-180}
$100\theta_{\text{MC}}$	1.04095	$1.0409^{+0.0014}_{-0.0015}$	$100\theta_*$	1.04130	$1.0417^{+0.0016}_{-0.0017}$	$H(0.61)$	94.2	$89.8^{+8.1}_{-6.0}$
Σm_{ν} [eV]	0.19	—	$D_{\text{M}}(z_*)/\text{Gpc}$	14.12	$14.8^{+1.0}_{-1.2}$	$D_{\text{M}}(0.61)$	2328	2445^{+180}_{-210}
N_{eff}	2.90	$2.93^{+0.75}_{-0.65}$	z_{drag}	1059.40	$1058.1^{+5.2}_{-4.7}$	$H(2.33)$	232.0	221^{+19}_{-15}
H_0	67.2	$64.0^{+6.3}_{-4.5}$	r_{drag}	149.7	157^{+11}_{-13}	$D_{\text{M}}(2.33)$	5838	6130^{+420}_{-510}
Ω_{Λ}	0.6957	$0.695^{+0.021}_{-0.021}$	k_{D}	0.1387	$0.132^{+0.011}_{-0.0080}$	$\chi^2_{\text{Cooke17Adel}}$	0.00	$0.9 (\nu: 0.9)$
Ω_{m}	0.3043	$0.305^{+0.021}_{-0.021}$	$100\theta_{\text{D}}$	0.16038	$0.1601^{+0.0016}_{-0.0016}$	χ^2_{Aver15}	0.00	$0.97 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	0.1372	$0.125^{+0.023}_{-0.016}$	z_{eq}	3297	2409^{+1000}_{-900}	χ^2_{JLA}	1034.79	$1034.94 (\nu: 0.0)$
$\Omega_{\nu}h^2$	0.0020	< 0.0525	k_{eq}	0.00996	$0.0075^{+0.0030}_{-0.0025}$	$\chi^2_{6\text{DF}}$	0.000	$0.048 (\nu: 0.0)$
$\Omega_{\text{m}}h^3$	0.0921	$0.080^{+0.023}_{-0.015}$	$100\theta_{\text{eq}}$	0.833	$1.11^{+0.44}_{-0.32}$	χ^2_{MGS}	1.75	$1.82 (\nu: 0.2)$
$r_{\text{drag}}h$	100.55	$100.5^{+2.9}_{-2.6}$	$100\theta_{\text{s,eq}}$	0.459	$0.60^{+0.22}_{-0.17}$	χ^2_{DR12BAO}	3.42	$4.1 (\nu: 0.6)$
Y_{P}	0.2434	$0.244^{+0.010}_{-0.0096}$	$H(0.15)$	72.3	$68.9^{+6.6}_{-4.8}$	χ^2_{prior}	0.01	$0.96 (\nu: 0.9)$
$Y_{\text{P}}^{\text{BBN}}$	0.2447	$0.245^{+0.010}_{-0.0096}$	$D_{\text{M}}(0.15)$	646	679^{+50}_{-61}	χ^2_{BAO}	5.17	$6.0 (\nu: 0.8)$
$10^5\text{D}/\text{H}$	2.528	$2.53^{+0.16}_{-0.17}$	$H(0.38)$	82.1	$78.3^{+7.3}_{-5.2}$	χ^2_{Abund}	0.00	$1.9 (\nu: 1.6)$
Age/Gyr	13.98	$14.7^{+1.0}_{-1.2}$	$D_{\text{M}}(0.38)$	1543	1620^{+120}_{-140}			

Best-fit $\chi^2_{\text{eff}} = 1039.97$; $\bar{\chi}^2_{\text{eff}} = 1043.82$; $R - 1 = 0.01456$

χ^2_{eff} : Abund - D.Cooke2017_adelberger: 0.00 Yp_Aver2015: 0.00 BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.42 SN - JLA Pantheon18: 1034.79

10 nnu+nrn

10.1 base_nnu_nrn_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02216^{+0.00057}_{-0.00060}$	$\Omega_m h^2$	0.1385	$0.1390^{+0.0089}_{-0.0085}$	$100\theta_{\text{eq}}$	0.8044	$0.805^{+0.019}_{-0.020}$
$\Omega_c h^2$	0.1157	$0.1162^{+0.0086}_{-0.0081}$	$\Omega_m h^3$	0.0899	$0.091^{+0.012}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4449	$0.4452^{+0.0098}_{-0.0099}$
$100\theta_{\text{MC}}$	1.04144	$1.0414^{+0.0013}_{-0.0012}$	σ_8	0.7989	$0.800^{+0.031}_{-0.029}$	$H(0.15)$	70.25	$70.5^{+4.2}_{-4.0}$
τ	0.0548	$0.055^{+0.021}_{-0.021}$	S_8	0.8365	$0.836^{+0.042}_{-0.040}$	$D_{\text{M}}(0.15)$	666.7	665^{+42}_{-40}
N_{eff}	2.71	$2.74^{+0.59}_{-0.53}$	$\sigma_8 \Omega_m^{0.5}$	0.4582	$0.458^{+0.023}_{-0.022}$	$H(0.38)$	80.43	$80.7^{+4.2}_{-3.9}$
$\ln(10^{10} A_s)$	3.0364	$3.037^{+0.049}_{-0.047}$	$\sigma_8 \Omega_m^{0.25}$	0.6050	$0.605^{+0.023}_{-0.022}$	$D_{\text{M}}(0.38)$	1586	1582^{+92}_{-89}
n_s	0.9500	$0.950^{+0.026}_{-0.028}$	$\sigma_8/h^{0.5}$	0.9917	$0.991^{+0.031}_{-0.029}$	$H(0.51)$	87.17	$87.4^{+4.3}_{-4.0}$
$dn_s/d \ln k$	-0.0105	$-0.012^{+0.020}_{-0.021}$	$r_{\text{drag}} h$	97.52	$97.6^{+3.4}_{-3.6}$	$D_{\text{M}}(0.51)$	2051	2046^{+110}_{-110}
y_{cal}	1.0005	$1.0005^{+0.0067}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.458	$2.455^{+0.078}_{-0.075}$	$H(0.61)$	92.79	$93.0^{+4.4}_{-4.0}$
A_{217}^{CIB}	46.8	47^{+20}_{-20}	z_{re}	7.68	$7.7^{+2.0}_{-2.2}$	$D_{\text{M}}(0.61)$	2385	2379^{+130}_{-130}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.49	—	$10^9 A_s$	2.083	$2.08^{+0.10}_{-0.097}$	$H(2.33)$	232.4	$232.9^{+7.8}_{-7.4}$
A_{143}^{tSZ}	7.1	—	$10^9 A_s e^{-2\tau}$	1.8666	$1.868^{+0.047}_{-0.048}$	$D_{\text{M}}(2.33)$	5912	5899^{+250}_{-260}
A_{100}^{PS}	250	261^{+70}_{-70}	D_{40}	1225.2	1223^{+48}_{-48}	$f\sigma_8(0.15)$	0.4613	$0.461^{+0.021}_{-0.020}$
A_{143}^{PS}	48.8	47^{+20}_{-20}	D_{220}	5729	5729^{+100}_{-100}	$\sigma_8(0.15)$	0.7366	$0.737^{+0.030}_{-0.027}$
$A_{143 \times 217}^{\text{PS}}$	49.0	42^{+20}_{-20}	D_{810}	2540.0	2539^{+36}_{-35}	$f\sigma_8(0.38)$	0.4755	$0.475^{+0.018}_{-0.017}$
A_{217}^{PS}	120.4	115^{+30}_{-30}	D_{1420}	817.6	816^{+13}_{-13}	$\sigma_8(0.38)$	0.6511	$0.652^{+0.028}_{-0.026}$
A^{kSZ}	0.0	—	D_{2000}	231.55	$230.8^{+4.8}_{-4.9}$	$f\sigma_8(0.51)$	0.4721	$0.472^{+0.017}_{-0.016}$
A_{100}^{dustTT}	8.71	$8.8^{+4.7}_{-4.7}$	$n_{\text{s},0.002}$	0.984	$0.988^{+0.055}_{-0.054}$	$\sigma_8(0.51)$	0.6086	$0.609^{+0.027}_{-0.025}$
A_{143}^{dustTT}	10.87	$10.8^{+4.7}_{-4.7}$	Y_{P}	0.2407	$0.2411^{+0.0081}_{-0.0079}$	$f\sigma_8(0.61)$	0.4659	$0.466^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.5^{+8.8}_{-8.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.2420	$0.2424^{+0.0081}_{-0.0079}$	$\sigma_8(0.61)$	0.5787	$0.579^{+0.026}_{-0.024}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	$10^5 D/H$	2.513	$2.52^{+0.14}_{-0.13}$	$f\sigma_8(2.33)$	0.2912	$0.291^{+0.014}_{-0.013}$
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.094}$	Age/Gyr	14.15	$14.12^{+0.60}_{-0.61}$	$\sigma_8(2.33)$	0.2994	$0.300^{+0.015}_{-0.014}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.075}_{-0.077}$	z_*	1089.51	$1089.6^{+1.0}_{-0.93}$	f_{2000}^{143}	28.8	30^{+8}_{-8}
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.22}_{-0.22}$	r_*	147.5	$147.2^{+5.5}_{-5.4}$	$f_{2000}^{143 \times 217}$	31.9	33^{+6}_{-6}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04186	$1.0418^{+0.0016}_{-0.0016}$	f_{2000}^{217}	106.5	$107.3^{+5.1}_{-5.1}$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.20}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.15	$14.13^{+0.50}_{-0.50}$	χ_{small}^2	396.09	$397.1 (\nu: 1.5)$
A_{217}^{dustTE}	2.09	$2.08^{+0.69}_{-0.70}$	z_{drag}	1058.83	$1058.9^{+2.2}_{-2.2}$	χ_{lowl}^2	22.41	$22.5 (\nu: 1.1)$
c_{100}	0.99976	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	150.2	$150.0^{+5.7}_{-5.6}$	χ_{plik}^2	2343.2	$2360.1 (\nu: 18.4)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.13872	$0.1389^{+0.0041}_{-0.0039}$	χ_{prior}^2	1.5	$11.4 (\nu: 10.1)$
H_0	64.90	$65.1^{+4.3}_{-4.1}$	$100\theta_{\text{D}}$	0.16000	$0.1601^{+0.0013}_{-0.0013}$	χ_{CMB}^2	2761.7	$2779.7 (\nu: 18.5)$
Ω_{Λ}	0.6712	$0.672^{+0.028}_{-0.033}$	z_{eq}	3450	3448^{+110}_{-100}			
Ω_{m}	0.3288	$0.328^{+0.033}_{-0.028}$	k_{eq}	0.010290	$0.01031^{+0.00031}_{-0.00030}$			

Best-fit $\chi_{\text{eff}}^2 = 2763.19$; $\bar{\chi}_{\text{eff}}^2 = 2791.11$; $R - 1 = 0.01356$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.09 commander_dx12_v3.2.29: 22.41 plik_rd12_HM_v22b_TTTEE: 2343.18

10.2 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022331	$0.02236^{+0.00047}_{-0.00046}$	$\Omega_m h^3$	0.0929	$0.0937^{+0.010}_{-0.0098}$	$H(0.15)$	71.85	$72.1^{+3.4}_{-3.2}$
$\Omega_c h^2$	0.1166	$0.1172^{+0.0084}_{-0.0087}$	σ_8	0.8022	$0.803^{+0.031}_{-0.027}$	$D_M(0.15)$	650.8	649^{+31}_{-31}
$100\theta_{MC}$	1.04131	$1.0413^{+0.0012}_{-0.0012}$	S_8	0.8217	$0.822^{+0.036}_{-0.032}$	$H(0.38)$	81.90	$82.1^{+3.5}_{-3.3}$
τ	0.0568	$0.057^{+0.020}_{-0.021}$	$\sigma_8 \Omega_m^{0.5}$	0.4500	$0.450^{+0.019}_{-0.018}$	$D_M(0.38)$	1551	1547^{+71}_{-70}
N_{eff}	2.87	$2.91^{+0.51}_{-0.51}$	$\sigma_8 \Omega_m^{0.25}$	0.6008	$0.601^{+0.023}_{-0.021}$	$H(0.51)$	88.58	$88.8^{+3.5}_{-3.5}$
$\ln(10^{10} A_s)$	3.0423	$3.043^{+0.046}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9830	$0.982^{+0.028}_{-0.025}$	$D_M(0.51)$	2009	2003^{+89}_{-89}
n_s	0.9605	$0.960^{+0.021}_{-0.022}$	$r_{\text{drag}} h$	99.19	$99.3^{+2.0}_{-2.3}$	$H(0.61)$	94.16	$94.4^{+3.7}_{-3.6}$
$dn_s/d \ln k$	-0.0064	$-0.008^{+0.017}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.431^{+0.066}_{-0.063}$	$D_M(0.61)$	2337	2331^{+100}_{-100}
y_{cal}	1.0006	$1.0006^{+0.0066}_{-0.0061}$	z_{re}	7.86	$7.8^{+1.9}_{-2.2}$	$H(2.33)$	233.7	$234.3^{+7.2}_{-7.8}$
A_{217}^{CIB}	47.1	47^{+20}_{-20}	$10^9 A_s$	2.095	$2.098^{+0.099}_{-0.085}$	$D_M(2.33)$	5832	5817^{+220}_{-220}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.51	—	$10^9 A_s e^{-2\tau}$	1.8705	$1.873^{+0.046}_{-0.044}$	$f\sigma_8(0.15)$	0.4543	$0.454^{+0.019}_{-0.017}$
A_{143}^{tSZ}	7.11	$5.3^{+4.5}_{-4.6}$	D_{40}	1219.0	1217^{+47}_{-45}	$\sigma_8(0.15)$	0.7409	$0.742^{+0.030}_{-0.026}$
A_{100}^{PS}	249	262^{+80}_{-70}	D_{220}	5735	5738^{+95}_{-96}	$f\sigma_8(0.38)$	0.4718	$0.472^{+0.018}_{-0.016}$
A_{143}^{PS}	48.7	47^{+20}_{-20}	D_{810}	2540.2	2539^{+34}_{-34}	$\sigma_8(0.38)$	0.6564	$0.657^{+0.028}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	49.4	42^{+20}_{-20}	D_{1420}	818.5	817^{+12}_{-13}	$f\sigma_8(0.51)$	0.4700	$0.470^{+0.018}_{-0.016}$
A_{217}^{PS}	120.0	115^{+20}_{-30}	D_{2000}	231.61	$230.8^{+4.5}_{-4.7}$	$\sigma_8(0.51)$	0.6142	$0.615^{+0.026}_{-0.022}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.981	$0.986^{+0.053}_{-0.051}$	$f\sigma_8(0.61)$	0.4648	$0.465^{+0.018}_{-0.015}$
A_{100}^{dustTT}	8.80	$8.8^{+4.6}_{-4.6}$	Y_P	0.2430	$0.2435^{+0.0070}_{-0.0074}$	$\sigma_8(0.61)$	0.5843	$0.585^{+0.025}_{-0.021}$
A_{143}^{dustTT}	10.95	$10.9^{+4.6}_{-4.7}$	Y_P^{BBN}	0.2443	$0.2448^{+0.0070}_{-0.0074}$	$f\sigma_8(2.33)$	0.2945	$0.295^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.5^{+7.7}_{-8.2}$	$10^5 D/H$	2.532	$2.54^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	0.3035	$0.304^{+0.014}_{-0.012}$
A_{217}^{dustTT}	94.8	94^{+20}_{-20}	Age/Gyr	13.96	$13.93^{+0.53}_{-0.51}$	f_{2000}^{143}	28.7	30^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.097}$	z_*	1089.50	$1089.5^{+1.0}_{-0.95}$	$f_{2000}^{143 \times 217}$	31.9	33^{+6}_{-6}
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.134^{+0.077}_{-0.077}$	r_*	146.3	$145.9^{+5.4}_{-5.0}$	f_{2000}^{217}	106.5	$107.3^{+5.8}_{-5.3}$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	1.04162	$1.0415^{+0.0015}_{-0.0015}$	χ_{simall}^2	396.4	$397.2 (\nu: 1.8)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	14.041	$14.01^{+0.49}_{-0.46}$	χ_{lowl}^2	22.08	$22.2 (\nu: 1.1)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.20}$	z_{drag}	1059.47	$1059.6^{+2.0}_{-1.9}$	χ_{plik}^2	2344.7	$2361.1 (\nu: 19.5)$
A_{217}^{dustTE}	2.07	$2.06^{+0.66}_{-0.66}$	r_{drag}	149.0	$148.6^{+5.6}_{-5.2}$	$\chi_{6\text{DF}}^2$	0.070	$0.095 (\nu: 0.0)$
c_{100}	0.99975	$0.9997^{+0.0017}_{-0.0016}$	k_D	0.13957	$0.1399^{+0.0039}_{-0.0038}$	χ_{MGS}^2	0.98	$1.07 (\nu: 0.1)$
c_{217}	0.99820	$0.9982^{+0.0015}_{-0.0017}$	$100\theta_D$	0.16031	$0.1604^{+0.0012}_{-0.0012}$	χ_{DR12BAO}^2	5.26	$5.6 (\nu: 2.0)$
H_0	66.59	$66.8^{+3.4}_{-3.2}$	z_{eq}	3400	3399^{+69}_{-64}	χ_{prior}^2	1.6	$11.6 (\nu: 10.8)$
Ω_Λ	0.6852	$0.686^{+0.016}_{-0.019}$	k_{eq}	0.010255	$0.01028^{+0.00031}_{-0.00034}$	χ_{BAO}^2	6.31	$6.8 (\nu: 1.5)$
Ω_m	0.3148	$0.314^{+0.019}_{-0.016}$	$100\theta_{\text{eq}}$	0.8137	$0.814^{+0.012}_{-0.013}$	χ_{CMB}^2	2763.1	$2780.6 (\nu: 19.1)$
$\Omega_m h^2$	0.1396	$0.1402^{+0.0087}_{-0.0090}$	$100\theta_{s,\text{eq}}$	0.4496	$0.4497^{+0.0060}_{-0.0065}$			

Best-fit $\chi_{\text{eff}}^2 = 2770.98$; $\bar{\chi}_{\text{eff}}^2 = 2798.94$; $R - 1 = 0.03824$

χ_{eff}^2 : BAO - 6DF: 0.07 MGS: 0.98 DR12BAO: 5.26 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.37 commander_dx12_v3_2_29: 22.08 plik_rd12_HM_v22b_TTTEEE: 2344.66

10.3 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02211	$0.02216^{+0.00055}_{-0.00057}$	$\Omega_{\mathrm{m}}h^2$	0.1376	$0.1385^{+0.0090}_{-0.0082}$	$100\theta_{\mathrm{eq}}$	0.8049	$0.806^{+0.018}_{-0.017}$
$\Omega_{\mathrm{c}}h^2$	0.1149	$0.1157^{+0.0086}_{-0.0078}$	$\Omega_{\mathrm{m}}h^3$	0.0891	$0.0903^{+0.011}_{-0.0098}$	$100\theta_{\mathrm{s,eq}}$	0.4452	$0.4457^{+0.0090}_{-0.0088}$
$100\theta_{\mathrm{MC}}$	1.04153	$1.0414^{+0.0012}_{-0.0013}$	σ_8	0.7952	$0.797^{+0.030}_{-0.028}$	$H(0.15)$	70.08	$70.5^{+4.2}_{-3.8}$
τ	0.0536	$0.054^{+0.020}_{-0.020}$	S_8	0.8317	$0.831^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	668.2	665^{+40}_{-39}
N_{eff}	2.67	$2.73^{+0.57}_{-0.52}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4556	$0.455^{+0.018}_{-0.017}$	$H(0.38)$	80.22	$80.6^{+4.2}_{-3.8}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0309	$3.034^{+0.046}_{-0.044}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6019	$0.602^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1590	1581^{+89}_{-88}
n_{s}	0.9494	$0.950^{+0.026}_{-0.026}$	$\sigma_8/h^{0.5}$	0.9881	$0.988^{+0.023}_{-0.022}$	$H(0.51)$	86.94	$87.4^{+4.2}_{-3.8}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	-0.0098	$-0.011^{+0.020}_{-0.020}$	$r_{\mathrm{drag}}h$	97.61	$97.8^{+3.1}_{-3.1}$	$D_{\mathrm{M}}(0.51)$	2056	2046^{+110}_{-110}
y_{cal}	1.0003	$1.0004^{+0.0064}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.453	$2.450^{+0.062}_{-0.062}$	$H(0.61)$	92.54	$93.0^{+4.3}_{-3.9}$
A_{217}^{CIB}	45.6	47^{+20}_{-20}	z_{re}	7.53	$7.6^{+1.9}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2391	2379^{+120}_{-130}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.68	—	$10^9 A_{\mathrm{s}}$	2.072	$2.078^{+0.096}_{-0.091}$	$H(2.33)$	231.7	$232.5^{+7.8}_{-7.3}$
A_{143}^{tSZ}	7.0	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8611	$1.865^{+0.046}_{-0.047}$	$D_{\mathrm{M}}(2.33)$	5928	5903^{+250}_{-250}
A_{100}^{PS}	247	261^{+70}_{-70}	D_{40}	1225.8	1223^{+46}_{-48}	$f\sigma_8(0.15)$	0.4587	$0.459^{+0.016}_{-0.016}$
A_{143}^{PS}	50.6	46^{+20}_{-20}	D_{220}	5727	5731^{+96}_{-100}	$\sigma_8(0.15)$	0.7332	$0.735^{+0.028}_{-0.026}$
$A_{143\times 217}^{\mathrm{PS}}$	53.1	42^{+20}_{-20}	D_{810}	2538.1	2537^{+36}_{-34}	$f\sigma_8(0.38)$	0.4730	$0.473^{+0.015}_{-0.015}$
A_{217}^{PS}	121.8	115^{+30}_{-30}	D_{1420}	817.9	816^{+13}_{-13}	$\sigma_8(0.38)$	0.6482	$0.650^{+0.027}_{-0.025}$
A^{kSZ}	0.0	—	D_{2000}	231.82	$230.9^{+4.6}_{-4.8}$	$f\sigma_8(0.51)$	0.4697	$0.470^{+0.015}_{-0.014}$
$A_{100}^{\mathrm{dust}TT}$	8.72	$8.8^{+4.6}_{-4.5}$	$n_{\mathrm{s},0.002}$	0.981	$0.986^{+0.054}_{-0.053}$	$\sigma_8(0.51)$	0.6059	$0.608^{+0.026}_{-0.024}$
$A_{143}^{\mathrm{dust}TT}$	10.90	$10.8^{+4.5}_{-4.9}$	Y_{P}	0.2401	$0.2410^{+0.0080}_{-0.0077}$	$f\sigma_8(0.61)$	0.4636	$0.464^{+0.015}_{-0.014}$
$A_{143\times 217}^{\mathrm{dust}TT}$	20.0	$18.5^{+8.8}_{-8.1}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2415	$0.2423^{+0.0080}_{-0.0078}$	$\sigma_8(0.61)$	0.5761	$0.578^{+0.025}_{-0.023}$
$A_{217}^{\mathrm{dust}TT}$	95.4	94^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	2.503	$2.51^{+0.14}_{-0.13}$	$f\sigma_8(2.33)$	0.2899	$0.291^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TE}$	0.113	$0.115^{+0.10}_{-0.094}$	Age/Gyr	14.19	$14.13^{+0.59}_{-0.59}$	$\sigma_8(2.33)$	0.2981	$0.299^{+0.014}_{-0.013}$
$A_{100\times 143}^{\mathrm{dust}TE}$	0.135	$0.134^{+0.078}_{-0.079}$	z_*	1089.42	$1089.49^{+0.98}_{-0.91}$	f_{2000}^{143}	28.3	30^{+8}_{-8}
$A_{100\times 217}^{\mathrm{dust}TE}$	0.479	$0.48^{+0.21}_{-0.22}$	r_*	147.9	$147.4^{+5.4}_{-5.4}$	$f_{2000}^{143\times 217}$	31.6	32^{+6}_{-6}
$A_{143}^{\mathrm{dust}TE}$	0.226	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04198	$1.0419^{+0.0016}_{-0.0016}$	f_{2000}^{217}	106.1	$107.1^{+5.4}_{-5.2}$
$A_{143\times 217}^{\mathrm{dust}TE}$	0.664	$0.66^{+0.21}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.197	$14.15^{+0.50}_{-0.50}$	$\chi_{\mathrm{lensing}}^2$	8.63	$9.17 (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TE}$	2.07	$2.07^{+0.71}_{-0.69}$	z_{drag}	1058.67	$1058.9^{+2.2}_{-2.1}$	χ_{small}^2	395.91	$396.8 (\nu: 1.1)$
c_{100}	0.99976	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	150.7	$150.2^{+5.6}_{-5.6}$	χ_{lowl}^2	22.56	$22.6 (\nu: 1.2)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.13837	$0.1388^{+0.0040}_{-0.0038}$	χ_{plik}^2	2343.4	$2359.8 (\nu: 17.4)$
H_0	64.76	$65.2^{+4.2}_{-3.9}$	$100\theta_{\mathrm{D}}$	0.15992	$0.1600^{+0.0013}_{-0.0012}$	χ_{prior}^2	1.4	$11.4 (\nu: 10.1)$
Ω_{Λ}	0.6718	$0.673^{+0.026}_{-0.028}$	z_{eq}	3447	3441^{+94}_{-94}	χ_{CMB}^2	2770.6	$2788.4 (\nu: 18.5)$
Ω_{m}	0.3282	$0.327^{+0.028}_{-0.026}$	k_{eq}	0.010253	$0.01028^{+0.00029}_{-0.00029}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 2771.94$; $\bar{\chi}_{\mathrm{eff}}^2 = 2799.77$; $R - 1 = 0.01835$
 χ_{eff}^2 : CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.63 simall_100x143_offlike5_EE_Aplanck_B: 395.92 commander_dx12_v3.2.29: 22.56 plik_rd12_HM_v22b_TTTEEE: 2343.45

10.4 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00047}_{-0.00046}$	$\Omega_{\mathrm{m}}h^3$	$0.0934^{+0.010}_{-0.0098}$	$H(0.15)$	$71.9^{+3.4}_{-3.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1169^{+0.0082}_{-0.0086}$	σ_8	$0.803^{+0.029}_{-0.026}$	$D_{\mathrm{M}}(0.15)$	650^{+32}_{-31}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0013}_{-0.0012}$	S_8	$0.822^{+0.029}_{-0.028}$	$H(0.38)$	$82.0^{+3.4}_{-3.5}$
τ	$0.057^{+0.018}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1550^{+71}_{-69}
N_{eff}	$2.89^{+0.52}_{-0.52}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.019}_{-0.018}$	$H(0.51)$	$88.7^{+3.6}_{-3.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.042}_{-0.040}$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021}$	$D_{\mathrm{M}}(0.51)$	2007^{+91}_{-86}
n_{s}	$0.959^{+0.021}_{-0.022}$	$r_{\mathrm{drag}}h$	$99.2^{+2.1}_{-2.2}$	$H(0.61)$	$94.3^{+3.7}_{-3.7}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.008^{+0.019}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.057}_{-0.054}$	$D_{\mathrm{M}}(0.61)$	2335^{+110}_{-98}
y_{cal}	$1.0007^{+0.0067}_{-0.0061}$	z_{re}	$7.9^{+1.7}_{-2.0}$	$H(2.33)$	$234.0^{+7.4}_{-7.7}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.099^{+0.090}_{-0.083}$	$D_{\mathrm{M}}(2.33)$	5826^{+230}_{-210}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.044}_{-0.043}$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.3^{+4.4}_{-4.6}$	D_{40}	1220^{+46}_{-47}	$\sigma_8(0.15)$	$0.741^{+0.027}_{-0.025}$
A_{100}^{PS}	261^{+70}_{-70}	D_{220}	5741^{+98}_{-95}	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+34}_{-34}	$\sigma_8(0.38)$	$0.657^{+0.026}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.0^{+4.3}_{-4.8}$	$\sigma_8(0.51)$	$0.615^{+0.024}_{-0.022}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.984^{+0.052}_{-0.053}$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.014}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.7}_{-4.7}$	Y_{P}	$0.2432^{+0.0070}_{-0.0074}$	$\sigma_8(0.61)$	$0.585^{+0.023}_{-0.021}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2445^{+0.0070}_{-0.0075}$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+7.6}_{-8.1}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.54^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	$0.304^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.95^{+0.54}_{-0.50}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.097}$	z_*	$1089.52^{+0.96}_{-0.97}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.078}_{-0.077}$	r_*	$146.1^{+5.3}_{-4.9}$	f_{2000}^{217}	$107.2^{+5.6}_{-5.2}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0416^{+0.0015}_{-0.0015}$	$\chi_{\mathrm{lensing}}^2$	$9.09 (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.03^{+0.49}_{-0.46}$	χ_{simall}^2	$397.2 (\nu: 1.6)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1059.5^{+2.0}_{-1.9}$	χ_{lowl}^2	$22.4 (\nu: 1.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.06^{+0.67}_{-0.65}$	r_{drag}	$148.8^{+5.5}_{-5.1}$	χ_{plik}^2	$2360.6 (\nu: 18.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1397^{+0.0037}_{-0.0038}$	$\chi_{6\mathrm{DF}}^2$	$0.099 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1603^{+0.0012}_{-0.0012}$	χ_{MGS}^2	$1.04 (\nu: 0.1)$
H_0	$66.7^{+3.4}_{-3.2}$	z_{eq}	3401^{+66}_{-62}	$\chi_{\mathrm{DR12BAO}}^2$	$5.7 (\nu: 1.9)$
Ω_{Λ}	$0.685^{+0.016}_{-0.019}$	k_{eq}	$0.01027^{+0.00029}_{-0.00033}$	χ_{prior}^2	$11.5 (\nu: 10.4)$
Ω_{m}	$0.315^{+0.019}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.012}_{-0.012}$	χ_{CMB}^2	$2789.2 (\nu: 19.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1399^{+0.0085}_{-0.0089}$	$100\theta_{\mathrm{s,eq}}$	$0.4496^{+0.0058}_{-0.0062}$	χ_{BAO}^2	$6.8 (\nu: 1.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.63; R - 1 = 0.03868$$

10.5 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02216^{+0.00057}_{-0.00060}$	$\Omega_{\mathrm{m}}h^2$	$0.1390^{+0.0087}_{-0.0085}$	$100\theta_{\mathrm{eq}}$	$0.805^{+0.019}_{-0.020}$
$\Omega_{\mathrm{c}}h^2$	$0.1162^{+0.0084}_{-0.0081}$	$\Omega_{\mathrm{m}}h^3$	$0.091^{+0.012}_{-0.010}$	$100\theta_{\mathrm{s,eq}}$	$0.4452^{+0.0098}_{-0.010}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0013}_{-0.0012}$	σ_8	$0.800^{+0.031}_{-0.028}$	$H(0.15)$	$70.5^{+4.2}_{-4.0}$
τ	$0.056^{+0.019}_{-0.014}$	S_8	$0.837^{+0.042}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	665^{+42}_{-39}
N_{eff}	$2.75^{+0.58}_{-0.53}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.022}$	$H(0.38)$	$80.7^{+4.2}_{-3.9}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.039^{+0.047}_{-0.037}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1581^{+92}_{-89}
n_{s}	$0.950^{+0.026}_{-0.028}$	$\sigma_8/h^{0.5}$	$0.992^{+0.030}_{-0.028}$	$H(0.51)$	$87.4^{+4.3}_{-4.0}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.012^{+0.020}_{-0.020}$	$r_{\mathrm{drag}}h$	$97.6^{+3.5}_{-3.6}$	$D_{\mathrm{M}}(0.51)$	2045^{+110}_{-110}
y_{cal}	$1.0004^{+0.0066}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.077}_{-0.074}$	$H(0.61)$	$93.1^{+4.3}_{-4.0}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.53	$D_{\mathrm{M}}(0.61)$	2378^{+130}_{-130}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.076}$	$H(2.33)$	$232.9^{+7.7}_{-7.5}$
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.868^{+0.047}_{-0.049}$	$D_{\mathrm{M}}(2.33)$	5898^{+250}_{-250}
A_{100}^{PS}	261^{+70}_{-70}	D_{40}	1222^{+48}_{-48}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.020}$
A_{143}^{PS}	47^{+20}_{-20}	D_{220}	5729^{+100}_{-100}	$\sigma_8(0.15)$	$0.738^{+0.029}_{-0.027}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2538^{+36}_{-35}	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	816^{+12}_{-13}	$\sigma_8(0.38)$	$0.652^{+0.027}_{-0.024}$
A^{kSZ}	—	D_{2000}	$230.8^{+4.7}_{-4.8}$	$f\sigma_8(0.51)$	$0.473^{+0.017}_{-0.016}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.7}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.989^{+0.054}_{-0.054}$	$\sigma_8(0.51)$	$0.610^{+0.026}_{-0.023}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	Y_{P}	$0.2412^{+0.0080}_{-0.0079}$	$f\sigma_8(0.61)$	$0.466^{+0.016}_{-0.015}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.8}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2425^{+0.0081}_{-0.0079}$	$\sigma_8(0.61)$	$0.580^{+0.025}_{-0.023}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.52^{+0.14}_{-0.13}$	$f\sigma_8(2.33)$	$0.292^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.094}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.12^{+0.60}_{-0.60}$	$\sigma_8(2.33)$	$0.300^{+0.015}_{-0.013}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.076}_{-0.077}$	z_*	$1089.5^{+1.0}_{-0.93}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_*	$147.2^{+5.5}_{-5.3}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.0418^{+0.0016}_{-0.0015}$	f_{2000}^{217}	$107.3^{+5.1}_{-5.2}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.13^{+0.51}_{-0.50}$	χ_{simall}^2	$397.0\ (\nu: 1.6)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.70}$	z_{drag}	$1058.9^{+2.2}_{-2.2}$	χ_{lowl}^2	$22.5\ (\nu: 1.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$149.9^{+5.7}_{-5.6}$	χ_{plik}^2	$2360.0\ (\nu: 18.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1390^{+0.0040}_{-0.0039}$	χ_{prior}^2	$11.4\ (\nu: 10.1)$
H_0	$65.1^{+4.3}_{-4.1}$	$100\theta_{\mathrm{D}}$	$0.1601^{+0.0014}_{-0.0013}$	χ_{CMB}^2	$2779.5\ (\nu: 18.1)$
Ω_{Λ}	$0.672^{+0.028}_{-0.033}$	z_{eq}	3447^{+110}_{-100}		
Ω_{m}	$0.328^{+0.033}_{-0.028}$	k_{eq}	$0.01030^{+0.00030}_{-0.00031}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2790.91; R - 1 = 0.01332$$

10.6 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02236^{+0.00051}_{-0.00046}$	$\Omega_{\mathrm{m}}h^3$	$0.0937^{+0.010}_{-0.0098}$	$H(0.15)$	$72.1^{+3.3}_{-3.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1172^{+0.0084}_{-0.0086}$	σ_8	$0.803^{+0.031}_{-0.027}$	$D_{\mathrm{M}}(0.15)$	649^{+31}_{-30}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0012}_{-0.0012}$	S_8	$0.822^{+0.035}_{-0.033}$	$H(0.38)$	$82.1^{+3.4}_{-3.3}$
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.019}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1547^{+71}_{-67}
N_{eff}	$2.91^{+0.50}_{-0.51}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.023}_{-0.020}$	$H(0.51)$	$88.8^{+3.5}_{-3.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.045}_{-0.038}$	$\sigma_8/h^{0.5}$	$0.983^{+0.027}_{-0.024}$	$D_{\mathrm{M}}(0.51)$	2003^{+89}_{-84}
n_{s}	$0.960^{+0.022}_{-0.022}$	$r_{\mathrm{drag}}h$	$99.3^{+2.1}_{-2.3}$	$H(0.61)$	$94.4^{+3.6}_{-3.6}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.008^{+0.017}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.065}_{-0.056}$	$D_{\mathrm{M}}(0.61)$	2331^{+100}_{-97}
y_{cal}	$1.0006^{+0.0066}_{-0.0061}$	z_{re}	< 9.58	$H(2.33)$	$234.2^{+7.1}_{-7.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.100^{+0.096}_{-0.078}$	$D_{\mathrm{M}}(2.33)$	5818^{+220}_{-210}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.873^{+0.046}_{-0.044}$	$f\sigma_8(0.15)$	$0.455^{+0.019}_{-0.017}$
A_{143}^{tSZ}	$5.2^{+4.5}_{-4.6}$	D_{40}	1217^{+48}_{-45}	$\sigma_8(0.15)$	$0.742^{+0.030}_{-0.025}$
A_{100}^{PS}	262^{+80}_{-70}	D_{220}	5737^{+95}_{-96}	$f\sigma_8(0.38)$	$0.472^{+0.018}_{-0.016}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2539^{+34}_{-34}	$\sigma_8(0.38)$	$0.658^{+0.027}_{-0.023}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+11}_{-13}	$f\sigma_8(0.51)$	$0.471^{+0.018}_{-0.016}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$230.8^{+4.1}_{-4.7}$	$\sigma_8(0.51)$	$0.615^{+0.026}_{-0.022}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.986^{+0.052}_{-0.052}$	$f\sigma_8(0.61)$	$0.465^{+0.017}_{-0.015}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.7}_{-4.5}$	Y_{P}	$0.2435^{+0.0068}_{-0.0074}$	$\sigma_8(0.61)$	$0.585^{+0.025}_{-0.021}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2448^{+0.0068}_{-0.0074}$	$f\sigma_8(2.33)$	$0.295^{+0.013}_{-0.011}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+7.6}_{-8.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.54^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	$0.304^{+0.014}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.93^{+0.53}_{-0.49}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.097}$	z_*	$1089.5^{+1.0}_{-0.95}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.077}_{-0.077}$	r_*	$145.9^{+5.4}_{-4.9}$	f_{2000}^{217}	$107.3^{+5.5}_{-5.3}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0416^{+0.0015}_{-0.0014}$	χ_{simall}^2	$397.2\ (\nu: 1.8)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.01^{+0.49}_{-0.45}$	χ_{lowl}^2	$22.2\ (\nu: 1.1)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1059.6^{+1.9}_{-1.9}$	χ_{plik}^2	$2361.0\ (\nu: 19.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.06^{+0.66}_{-0.66}$	r_{drag}	$148.6^{+5.6}_{-5.1}$	$\chi_{6\mathrm{DF}}^2$	$0.094\ (\nu: 0.0)$
c_{100}	$0.9997^{+0.0017}_{-0.0016}$	k_{D}	$0.1398^{+0.0038}_{-0.0038}$	χ_{MGS}^2	$1.08\ (\nu: 0.1)$
c_{217}	$0.9982^{+0.0015}_{-0.0017}$	$100\theta_{\mathrm{D}}$	$0.1604^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.6\ (\nu: 1.9)$
H_0	$66.8^{+3.4}_{-3.2}$	z_{eq}	3399^{+69}_{-64}	χ_{prior}^2	$11.6\ (\nu: 10.8)$
Ω_{Λ}	$0.686^{+0.017}_{-0.019}$	k_{eq}	$0.01028^{+0.00030}_{-0.00034}$	χ_{BAO}^2	$6.8\ (\nu: 1.4)$
Ω_{m}	$0.314^{+0.019}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.012}_{-0.013}$	χ_{CMB}^2	$2780.4\ (\nu: 18.8)$
$\Omega_{\mathrm{m}}h^2$	$0.1402^{+0.0085}_{-0.0089}$	$100\theta_{\mathrm{s,eq}}$	$0.4498^{+0.0060}_{-0.0065}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2798.78; R - 1 = 0.04433$$

10.7 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02217^{+0.00055}_{-0.00057}$	$\Omega_{\mathrm{m}}h^2$	$0.1385^{+0.0089}_{-0.0081}$	$100\theta_{\mathrm{eq}}$	$0.806^{+0.017}_{-0.017}$
$\Omega_{\mathrm{c}}h^2$	$0.1157^{+0.0085}_{-0.0078}$	$\Omega_{\mathrm{m}}h^3$	$0.0904^{+0.011}_{-0.0098}$	$100\theta_{\mathrm{s,eq}}$	$0.4459^{+0.0089}_{-0.0087}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0012}_{-0.0012}$	σ_8	$0.798^{+0.029}_{-0.026}$	$H(0.15)$	$70.5^{+4.2}_{-3.8}$
τ	$0.055^{+0.018}_{-0.013}$	S_8	$0.832^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	664^{+40}_{-39}
N_{eff}	$2.73^{+0.58}_{-0.52}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.018}$	$H(0.38)$	$80.7^{+4.2}_{-3.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.036^{+0.044}_{-0.035}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1580^{+88}_{-88}
n_{s}	$0.950^{+0.026}_{-0.026}$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.022}$	$H(0.51)$	$87.4^{+4.2}_{-3.8}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.011^{+0.020}_{-0.020}$	$r_{\mathrm{drag}}h$	$97.9^{+3.0}_{-3.1}$	$D_{\mathrm{M}}(0.51)$	2045^{+110}_{-110}
y_{cal}	$1.0004^{+0.0064}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.062}_{-0.062}$	$H(0.61)$	$93.0^{+4.2}_{-3.9}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.29	$D_{\mathrm{M}}(0.61)$	2377^{+120}_{-130}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.082^{+0.093}_{-0.071}$	$H(2.33)$	$232.5^{+7.7}_{-7.4}$
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.865^{+0.046}_{-0.048}$	$D_{\mathrm{M}}(2.33)$	5901^{+250}_{-250}
A_{100}^{PS}	261^{+70}_{-70}	D_{40}	1223^{+46}_{-47}	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.016}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5731^{+96}_{-100}	$\sigma_8(0.15)$	$0.736^{+0.028}_{-0.025}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2537^{+36}_{-35}	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015}$
A_{217}^{PS}	114^{+30}_{-30}	D_{1420}	816^{+12}_{-13}	$\sigma_8(0.38)$	$0.651^{+0.026}_{-0.024}$
A^{kSZ}	—	D_{2000}	$230.9^{+4.5}_{-4.8}$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.6}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.986^{+0.054}_{-0.053}$	$\sigma_8(0.51)$	$0.608^{+0.025}_{-0.023}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.5}_{-4.9}$	Y_{P}	$0.2410^{+0.0079}_{-0.0078}$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.8}_{-8.1}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2423^{+0.0079}_{-0.0078}$	$\sigma_8(0.61)$	$0.579^{+0.025}_{-0.022}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.51^{+0.14}_{-0.13}$	$f\sigma_8(2.33)$	$0.291^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.094}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.12^{+0.59}_{-0.59}$	$\sigma_8(2.33)$	$0.300^{+0.014}_{-0.013}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.078}_{-0.080}$	z_*	$1089.48^{+0.98}_{-0.90}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.22}$	r_*	$147.4^{+5.4}_{-5.3}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.0419^{+0.0016}_{-0.0016}$	f_{2000}^{217}	$107.1^{+5.3}_{-5.2}$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.14^{+0.50}_{-0.49}$	$\chi_{\mathrm{lensing}}^2$	$9.18 (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.70}_{-0.68}$	z_{drag}	$1058.9^{+2.2}_{-2.1}$	χ_{simall}^2	$396.8 (\nu: 1.1)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	r_{drag}	$150.1^{+5.6}_{-5.5}$	χ_{lowl}^2	$22.6 (\nu: 1.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1388^{+0.0040}_{-0.0038}$	χ_{plik}^2	$2359.6 (\nu: 17.3)$
H_0	$65.2^{+4.2}_{-3.9}$	$100\theta_{\mathrm{D}}$	$0.1600^{+0.0013}_{-0.0012}$	χ_{prior}^2	$11.4 (\nu: 10.1)$
Ω_{Λ}	$0.674^{+0.025}_{-0.028}$	z_{eq}	3440^{+94}_{-93}	χ_{CMB}^2	$2788.2 (\nu: 18.0)$
Ω_{m}	$0.326^{+0.028}_{-0.025}$	k_{eq}	$0.01027^{+0.00029}_{-0.00028}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2799.54; R - 1 = 0.01748$$

10.8 base_nnu_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00047}_{-0.00046}$	$\Omega_{\mathrm{m}}h^3$	$0.0933^{+0.010}_{-0.0098}$	$H(0.15)$	$72.0^{+3.4}_{-3.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1169^{+0.0082}_{-0.0086}$	σ_8	$0.803^{+0.029}_{-0.026}$	$D_{\mathrm{M}}(0.15)$	650^{+32}_{-31}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0013}_{-0.0012}$	S_8	$0.822^{+0.029}_{-0.027}$	$H(0.38)$	$82.0^{+3.4}_{-3.4}$
τ	$0.057^{+0.018}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1550^{+71}_{-69}
N_{eff}	$2.89^{+0.52}_{-0.52}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.019}_{-0.018}$	$H(0.51)$	$88.7^{+3.6}_{-3.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.041}_{-0.036}$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.020}$	$D_{\mathrm{M}}(0.51)$	2007^{+91}_{-86}
n_{s}	$0.959^{+0.021}_{-0.022}$	$r_{\mathrm{drag}}h$	$99.2^{+2.1}_{-2.1}$	$H(0.61)$	$94.3^{+3.7}_{-3.6}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.008^{+0.019}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.057}_{-0.054}$	$D_{\mathrm{M}}(0.61)$	2335^{+110}_{-98}
y_{cal}	$1.0007^{+0.0067}_{-0.0061}$	z_{re}	< 9.54	$H(2.33)$	$234.0^{+7.4}_{-7.7}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.100^{+0.088}_{-0.074}$	$D_{\mathrm{M}}(2.33)$	5826^{+230}_{-210}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.872^{+0.044}_{-0.043}$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.015}$
A_{143}^{tSZ}	$5.3^{+4.5}_{-4.6}$	D_{40}	1219^{+47}_{-46}	$\sigma_8(0.15)$	$0.742^{+0.027}_{-0.025}$
A_{100}^{PS}	261^{+70}_{-70}	D_{220}	5741^{+99}_{-95}	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+34}_{-34}	$\sigma_8(0.38)$	$0.657^{+0.026}_{-0.023}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+11}_{-13}	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.0^{+4.0}_{-4.8}$	$\sigma_8(0.51)$	$0.615^{+0.024}_{-0.022}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.984^{+0.052}_{-0.052}$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.014}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.7}_{-4.6}$	Y_{P}	$0.2432^{+0.0070}_{-0.0074}$	$\sigma_8(0.61)$	$0.585^{+0.023}_{-0.021}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2445^{+0.0070}_{-0.0075}$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.011}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+7.6}_{-8.1}$	$10^5\mathrm{D}/\mathrm{H}$	$2.53^{+0.13}_{-0.13}$	$\sigma_8(2.33)$	$0.304^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.95^{+0.54}_{-0.50}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.097}$	z_*	$1089.52^{+0.97}_{-0.96}$	$f_{2000}^{143\times 217}$	32^{+6}_{-6}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.078}_{-0.077}$	r_*	$146.1^{+5.3}_{-4.9}$	f_{2000}^{217}	$107.2^{+5.4}_{-5.2}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.23}$	$100\theta_*$	$1.0416^{+0.0015}_{-0.0015}$	$\chi_{\mathrm{lensing}}^2$	$9.07\ (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.03^{+0.49}_{-0.45}$	χ_{simall}^2	$397.2\ (\nu: 1.6)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.19}$	z_{drag}	$1059.5^{+2.0}_{-1.9}$	χ_{lowl}^2	$22.4\ (\nu: 1.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.06^{+0.66}_{-0.65}$	r_{drag}	$148.8^{+5.5}_{-5.1}$	χ_{plik}^2	$2360.5\ (\nu: 18.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1397^{+0.0037}_{-0.0038}$	$\chi_{6\mathrm{DF}}^2$	$0.097\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1603^{+0.0012}_{-0.0012}$	χ_{MGS}^2	$1.05\ (\nu: 0.1)$
H_0	$66.7^{+3.4}_{-3.2}$	z_{eq}	3401^{+66}_{-61}	$\chi_{\mathrm{DR12BAO}}^2$	$5.7\ (\nu: 1.8)$
Ω_{Λ}	$0.685^{+0.016}_{-0.018}$	k_{eq}	$0.01027^{+0.00029}_{-0.00033}$	χ_{prior}^2	$11.5\ (\nu: 10.4)$
Ω_{m}	$0.315^{+0.018}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.012}_{-0.012}$	χ_{CMB}^2	$2789.2\ (\nu: 19.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1399^{+0.0084}_{-0.0089}$	$100\theta_{\mathrm{s,eq}}$	$0.4496^{+0.0058}_{-0.0061}$	χ_{BAO}^2	$6.8\ (\nu: 1.3)$

$\bar{\chi}_{\mathrm{eff}}^2 = 2807.49$; $R - 1 = 0.04192$

11 nnu+yhe

11.1 base_nnu_yhe_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02200	$0.02207^{+0.00083}_{-0.00083}$	S_8	0.846	$0.841^{+0.066}_{-0.061}$	$100\theta_{s,eq}$	0.4442	$0.447^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.1168	$0.119^{+0.023}_{-0.016}$	$\sigma_8 \Omega_m^{0.5}$	0.4635	$0.461^{+0.036}_{-0.034}$	$H(0.15)$	70.2	71^{+9}_{-8}
$100\theta_{MC}$	1.0415	$1.0413^{+0.0049}_{-0.0053}$	$\sigma_8 \Omega_m^{0.25}$	0.6107	$0.610^{+0.033}_{-0.030}$	$D_M(0.15)$	667	657^{+80}_{-80}
τ	0.0521	$0.052^{+0.022}_{-0.022}$	$\sigma_8/h^{0.5}$	0.9994	$0.994^{+0.043}_{-0.043}$	$H(0.38)$	80.5	82^{+9}_{-8}
N_{eff}	2.74	$2.9^{+1.6}_{-1.2}$	$r_{drag} h$	97.2	$98.0^{+6.2}_{-6.0}$	$D_M(0.38)$	1586	1562^{+200}_{-200}
Y_P	0.253	$0.251^{+0.074}_{-0.093}$	$\langle d^2 \rangle^{1/2}$	2.474	$2.46^{+0.12}_{-0.12}$	$H(0.51)$	87.3	$88.5^{+9.6}_{-7.8}$
$\ln(10^{10} A_s)$	3.033	$3.036^{+0.059}_{-0.060}$	z_{re}	7.50	$7.4^{+2.2}_{-2.5}$	$D_M(0.51)$	2051	2022^{+200}_{-200}
n_s	0.9561	$0.960^{+0.035}_{-0.035}$	$10^9 A_s$	2.077	$2.08^{+0.13}_{-0.12}$	$H(0.61)$	92.9	$94.1^{+9.8}_{-8.0}$
y_{cal}	1.0005	$1.0005^{+0.0066}_{-0.0066}$	$10^9 A_s e^{-2\tau}$	1.871	$1.878^{+0.071}_{-0.070}$	$D_M(0.61)$	2384	2351^{+260}_{-260}
A_{217}^{CIB}	47.0	48^{+20}_{-20}	D_{40}	1240	1236^{+58}_{-56}	$H(2.33)$	233.1	235^{+20}_{-15}
$\xi^{tSZ \times CIB}$	0.57	—	D_{220}	5708	5712^{+110}_{-110}	$D_M(2.33)$	5903	5837^{+510}_{-540}
A_{143}^{tSZ}	6.9	—	D_{810}	2537.2	2536^{+37}_{-38}	$f\sigma_8(0.15)$	0.4664	$0.464^{+0.033}_{-0.031}$
A_{100}^{PS}	251	264^{+70}_{-70}	D_{1420}	816.5	814^{+13}_{-14}	$\sigma_8(0.15)$	0.7417	$0.745^{+0.046}_{-0.040}$
A_{143}^{PS}	51.7	50^{+20}_{-20}	D_{2000}	230.8	$229.5^{+6.1}_{-6.2}$	$f\sigma_8(0.38)$	0.4801	$0.479^{+0.026}_{-0.024}$
$A_{143 \times 217}^{PS}$	52.6	44^{+20}_{-20}	$n_{s,0.002}$	0.9561	$0.960^{+0.035}_{-0.035}$	$\sigma_8(0.38)$	0.6553	$0.659^{+0.044}_{-0.039}$
A_{217}^{PS}	121.7	115^{+30}_{-30}	Y_P	0.253	$0.251^{+0.074}_{-0.093}$	$f\sigma_8(0.51)$	0.4763	$0.476^{+0.025}_{-0.022}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.254	$0.253^{+0.075}_{-0.093}$	$\sigma_8(0.51)$	0.6124	$0.616^{+0.042}_{-0.037}$
A_{100}^{dustTT}	8.82	$8.9^{+4.7}_{-4.7}$	Age/Gyr	14.13	$14.0^{+1.2}_{-1.3}$	$f\sigma_8(0.61)$	0.4698	$0.470^{+0.025}_{-0.021}$
A_{143}^{dustTT}	10.74	$10.7^{+4.6}_{-4.6}$	z_*	1090.28	$1090.4^{+1.9}_{-1.8}$	$\sigma_8(0.61)$	0.5822	$0.586^{+0.041}_{-0.036}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.3^{+8.6}_{-8.5}$	r_*	147.1	146^{+11}_{-12}	$f\sigma_8(2.33)$	0.2928	$0.295^{+0.022}_{-0.019}$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	$100\theta_*$	1.04163	$1.0414^{+0.0035}_{-0.0037}$	$\sigma_8(2.33)$	0.3010	$0.304^{+0.025}_{-0.021}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.12	$14.0^{+1.0}_{-1.1}$	f_{2000}^{143}	29.4	31^{+10}_{-10}
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1058.98	$1059.3^{+3.1}_{-3.1}$	$f_{2000}^{143 \times 217}$	32.7	34^{+7}_{-7}
H_0	64.8	66^{+9}_{-8}	r_{drag}	149.9	149^{+11}_{-13}	f_{2000}^{217}	107.1	$108.3^{+6.9}_{-6.7}$
Ω_Λ	0.668	$0.675^{+0.049}_{-0.057}$	k_D	0.1384	$0.139^{+0.013}_{-0.0094}$	χ_{simall}^2	395.90	$396.9 (\nu: 1.3)$
Ω_m	0.332	$0.325^{+0.057}_{-0.049}$	$100\theta_D$	0.16080	$0.1611^{+0.0020}_{-0.0020}$	χ_{lowl}^2	24.6	$24.3 (\nu: 2.6)$
$\Omega_m h^2$	0.1395	$0.142^{+0.024}_{-0.016}$	z_{eq}	3457	3432^{+220}_{-210}	χ_{plik}^2	757.4	$772.6 (\nu: 18.9)$
$\Omega_m h^3$	0.0904	$0.094^{+0.029}_{-0.020}$	k_{eq}	0.01034	$0.01037^{+0.00067}_{-0.00050}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.6)$
σ_8	0.8047	$0.808^{+0.047}_{-0.040}$	$100\theta_{eq}$	0.8028	$0.808^{+0.038}_{-0.037}$	χ_{CMB}^2	1177.9	$1193.8 (\nu: 17.5)$

Best-fit $\chi_{eff}^2 = 1179.18$; $\bar{\chi}_{eff}^2 = 1201.13$; $R - 1 = 0.01463$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.90 commander_dx12_v3.2_29: 24.59 plik_rd12_HM_v22_TT: 757.43

11.2 base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02226	$0.02226^{+0.00064}_{-0.00065}$	$\sigma_8 \Omega_m^{0.25}$	0.6026	$0.606^{+0.031}_{-0.028}$	$D_M(0.38)$	1526	1516^{+120}_{-120}
$\Omega_c h^2$	0.1192	$0.121^{+0.021}_{-0.016}$	$\sigma_8/h^{0.5}$	0.9814	$0.983^{+0.031}_{-0.029}$	$H(0.51)$	89.8	$90.5^{+7.5}_{-5.9}$
$100\theta_{MC}$	1.04105	$1.0408^{+0.0046}_{-0.0050}$	$r_{drag}h$	99.88	$99.9^{+2.8}_{-2.7}$	$D_M(0.51)$	1977	1964^{+150}_{-160}
τ	0.0533	$0.054^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.423	$2.426^{+0.072}_{-0.071}$	$H(0.61)$	95.4	$96.1^{+7.8}_{-6.2}$
N_{eff}	3.06	$3.2^{+1.3}_{-1.0}$	z_{re}	7.60	$7.7^{+2.3}_{-2.4}$	$D_M(0.61)$	2301	2286^{+170}_{-180}
Y_P	0.247	$0.245^{+0.079}_{-0.089}$	$10^9 A_s$	2.091	$2.10^{+0.12}_{-0.11}$	$H(2.33)$	236.0	238^{+17}_{-13}
$\ln(10^{10} A_s)$	3.040	$3.044^{+0.058}_{-0.054}$	$10^9 A_s e^{-2\tau}$	1.880	$1.886^{+0.066}_{-0.062}$	$D_M(2.33)$	5757	5721^{+380}_{-430}
n_s	0.9685	$0.970^{+0.022}_{-0.022}$	D_{40}	1221.8	1222^{+46}_{-43}	$f\sigma_8(0.15)$	0.4541	$0.456^{+0.024}_{-0.022}$
y_{cal}	1.0005	$1.0006^{+0.0064}_{-0.0067}$	D_{220}	5718	5719^{+100}_{-110}	$\sigma_8(0.15)$	0.7469	$0.751^{+0.043}_{-0.037}$
A_{217}^{CIB}	50.2	48^{+20}_{-20}	D_{810}	2537.1	2537^{+38}_{-37}	$f\sigma_8(0.38)$	0.4729	$0.475^{+0.024}_{-0.021}$
$\xi^{tSZ \times CIB}$	0.11	—	D_{1420}	815.9	815^{+13}_{-14}	$\sigma_8(0.38)$	0.6623	$0.666^{+0.039}_{-0.033}$
A_{143}^{tSZ}	7.1	—	D_{2000}	229.9	$229.3^{+6.2}_{-6.2}$	$f\sigma_8(0.51)$	0.4718	$0.474^{+0.025}_{-0.021}$
A_{100}^{PS}	256	266^{+80}_{-70}	$n_{s,0.002}$	0.9685	$0.970^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.6199	$0.623^{+0.037}_{-0.032}$
A_{143}^{PS}	46.6	50^{+20}_{-20}	Y_P	0.247	$0.245^{+0.079}_{-0.089}$	$f\sigma_8(0.61)$	0.4670	$0.469^{+0.024}_{-0.021}$
$A_{143 \times 217}^{PS}$	41	44^{+20}_{-20}	Y_P^{BBN}	0.249	$0.246^{+0.080}_{-0.089}$	$\sigma_8(0.61)$	0.5899	$0.593^{+0.036}_{-0.031}$
A_{217}^{PS}	116.9	115^{+30}_{-30}	Age/Gyr	13.78	$13.70^{+0.90}_{-1.0}$	$f\sigma_8(2.33)$	0.2975	$0.299^{+0.018}_{-0.016}$
A^{kSZ}	0.0	—	z_*	1090.08	$1090.2^{+1.8}_{-1.8}$	$\sigma_8(2.33)$	0.3068	$0.309^{+0.019}_{-0.017}$
A_{100}^{dustTT}	8.95	$9.0^{+5.0}_{-4.7}$	r_*	144.6	$143.7^{+9.2}_{-10}$	f_{2000}^{143}	30.7	32^{+10}_{-10}
A_{143}^{dustTT}	10.80	$10.8^{+4.5}_{-4.5}$	$100\theta_*$	1.04118	$1.0409^{+0.0031}_{-0.0035}$	$f_{2000}^{143 \times 217}$	33.4	34^{+7}_{-8}
$A_{143 \times 217}^{dustTT}$	19.1	$18.4^{+8.6}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.89	$13.81^{+0.85}_{-0.96}$	f_{2000}^{217}	107.9	$108.4^{+6.8}_{-7.1}$
A_{217}^{dustTT}	94.1	93^{+20}_{-20}	z_{drag}	1059.70	$1059.8^{+2.8}_{-2.8}$	χ_{small}^2	395.9	$397.0 (\nu: 1.6)$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.3	$146.4^{+9.4}_{-11}$	χ_{lowl}^2	22.69	$22.8 (\nu: 0.9)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_D	0.1404	$0.141^{+0.011}_{-0.0087}$	χ_{plik}^2	760.2	$774.2 (\nu: 17.6)$
H_0	67.8	$68.3^{+6.2}_{-5.2}$	$100\theta_D$	0.16110	$0.1613^{+0.0019}_{-0.0019}$	χ_{6DF}^2	0.015	$0.059 (\nu: 0.0)$
Ω_Λ	0.6908	$0.691^{+0.022}_{-0.023}$	z_{eq}	3372	3368^{+120}_{-110}	χ_{MGS}^2	1.34	$1.45 (\nu: 0.2)$
Ω_m	0.3092	$0.309^{+0.023}_{-0.022}$	k_{eq}	0.01031	$0.01037^{+0.00066}_{-0.00051}$	$\chi_{DR12BAO}^2$	4.04	$4.7 (\nu: 1.3)$
$\Omega_m h^2$	0.1421	$0.144^{+0.021}_{-0.016}$	$100\theta_{eq}$	0.8185	$0.819^{+0.019}_{-0.019}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.6)$
$\Omega_m h^3$	0.0964	$0.099^{+0.024}_{-0.017}$	$100\theta_{s,eq}$	0.4522	$0.4525^{+0.0099}_{-0.0096}$	χ_{BAO}^2	5.39	$6.2 (\nu: 0.9)$
σ_8	0.8080	$0.813^{+0.045}_{-0.039}$	$H(0.15)$	73.1	$73.6^{+6.4}_{-5.4}$	χ_{CMB}^2	1178.8	$1194.0 (\nu: 17.1)$
S_8	0.8204	$0.824^{+0.045}_{-0.041}$	$D_M(0.15)$	640	635^{+50}_{-52}			
$\sigma_8 \Omega_m^{0.5}$	0.4493	$0.451^{+0.024}_{-0.022}$	$H(0.38)$	83.1	$83.7^{+6.9}_{-5.7}$			

Best-fit $\chi_{eff}^2 = 1185.69$; $\bar{\chi}_{eff}^2 = 1207.58$; $R - 1 = 0.02042$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.34 DR12BAO: 4.04 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3.2.29: 22.69 plik_rd12_HM_v22.TT: 760.21

11.3 base_nnu_yhe_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02200	$0.02207^{+0.00077}_{-0.00080}$	$\sigma_8 \Omega_m^{0.5}$	0.4582	$0.458^{+0.023}_{-0.023}$	$D_M(0.15)$	672	661^{+80}_{-70}
$\Omega_c h^2$	0.1145	$0.117^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	0.6043	$0.606^{+0.023}_{-0.022}$	$H(0.38)$	79.9	$81.1^{+8.6}_{-7.1}$
$100\theta_{MC}$	1.04200	$1.0417^{+0.0047}_{-0.0050}$	$\sigma_8/h^{0.5}$	0.9930	$0.992^{+0.031}_{-0.031}$	$D_M(0.38)$	1597	1573^{+170}_{-170}
τ	0.0502	$0.051^{+0.022}_{-0.022}$	$r_{\text{drag}} h$	97.4	$98.0^{+5.1}_{-5.0}$	$H(0.51)$	86.6	$87.8^{+8.8}_{-7.2}$
N_{eff}	2.63	$2.8^{+1.4}_{-1.1}$	$\langle d^2 \rangle^{1/2}$	2.462	$2.455^{+0.081}_{-0.081}$	$D_M(0.51)$	2066	2036^{+210}_{-210}
Y_P	0.256	$0.256^{+0.070}_{-0.087}$	z_{re}	7.27	$7.4^{+2.2}_{-2.4}$	$H(0.61)$	92.2	$93.5^{+9.1}_{-7.3}$
$\ln(10^{10} A_s)$	3.024	$3.031^{+0.056}_{-0.057}$	$10^9 A_s$	2.058	$2.07^{+0.12}_{-0.12}$	$D_M(0.61)$	2401	2367^{+240}_{-240}
n_s	0.9547	$0.959^{+0.031}_{-0.031}$	$10^9 A_s e^{-2\tau}$	1.861	$1.871^{+0.064}_{-0.068}$	$H(2.33)$	231.3	233^{+18}_{-14}
y_{cal}	1.0003	$1.0004^{+0.0066}_{-0.0066}$	D_{40}	1239.1	1235^{+50}_{-48}	$D_M(2.33)$	5948	5878^{+470}_{-510}
A_{217}^{CIB}	46.5	48^{+20}_{-20}	D_{220}	5711	5714^{+110}_{-110}	$f\sigma_8(0.15)$	0.4612	$0.461^{+0.021}_{-0.021}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.62	—	D_{810}	2534.9	2535^{+38}_{-38}	$\sigma_8(0.15)$	0.7346	$0.741^{+0.042}_{-0.038}$
A_{143}^{tSZ}	6.9	—	D_{1420}	816.6	814^{+14}_{-14}	$f\sigma_8(0.38)$	0.4750	$0.476^{+0.018}_{-0.017}$
A_{100}^{PS}	250	263^{+70}_{-70}	D_{2000}	230.9	$229.6^{+6.1}_{-6.1}$	$\sigma_8(0.38)$	0.6492	$0.655^{+0.041}_{-0.037}$
A_{143}^{PS}	52.2	49^{+20}_{-20}	$n_{s,0.002}$	0.9547	$0.959^{+0.031}_{-0.031}$	$f\sigma_8(0.51)$	0.4714	$0.473^{+0.019}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	53.5	44^{+20}_{-20}	Y_P	0.256	$0.256^{+0.070}_{-0.087}$	$\sigma_8(0.51)$	0.6067	$0.613^{+0.039}_{-0.036}$
A_{217}^{PS}	122.2	115^{+20}_{-30}	Y_P^{BBN}	0.258	$0.257^{+0.070}_{-0.087}$	$f\sigma_8(0.61)$	0.4651	$0.467^{+0.019}_{-0.018}$
A^{kSZ}	0.0	—	Age/Gyr	14.23	$14.1^{+1.1}_{-1.2}$	$\sigma_8(0.61)$	0.5768	$0.583^{+0.038}_{-0.035}$
A_{100}^{dustTT}	8.83	$8.9^{+4.7}_{-4.6}$	z_*	1090.17	$1090.4^{+1.9}_{-1.8}$	$f\sigma_8(2.33)$	0.2902	$0.293^{+0.020}_{-0.019}$
A_{143}^{dustTT}	10.81	$10.7^{+4.5}_{-4.4}$	r_*	148.3	147^{+11}_{-12}	$\sigma_8(2.33)$	0.2983	$0.302^{+0.023}_{-0.021}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.3^{+8.7}_{-8.6}$	$100\theta_*$	1.04205	$1.0417^{+0.0035}_{-0.0035}$	f_{2000}^{143}	29.4	31^{+10}_{-10}
A_{217}^{dustTT}	95.4	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	14.23	$14.09^{+0.96}_{-1.1}$	$f_{2000}^{143 \times 217}$	32.6	34^{+7}_{-7}
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1058.90	$1059.3^{+3.0}_{-2.9}$	f_{2000}^{217}	106.9	$108.2^{+6.8}_{-6.8}$
c_{217}	0.99822	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	151.1	150^{+11}_{-12}	χ_{lensing}^2	8.48	$9.3 (\nu: 0.5)$
H_0	64.4	66^{+8}_{-7}	k_D	0.1374	$0.139^{+0.011}_{-0.0088}$	χ_{simall}^2	395.70	$396.8 (\nu: 1.1)$
Ω_Λ	0.6694	$0.675^{+0.041}_{-0.047}$	$100\theta_D$	0.16070	$0.1610^{+0.0020}_{-0.0019}$	χ_{lowl}^2	24.56	$24.3 (\nu: 1.9)$
Ω_m	0.3306	$0.325^{+0.047}_{-0.041}$	z_{eq}	3457	3435^{+190}_{-180}	χ_{plik}^2	757.9	$772.0 (\nu: 16.8)$
$\Omega_m h^2$	0.1372	$0.140^{+0.021}_{-0.016}$	k_{eq}	0.01025	$0.01031^{+0.00057}_{-0.00043}$	χ_{prior}^2	1.2	$7.3 (\nu: 6.5)$
$\Omega_m h^3$	0.0884	$0.092^{+0.026}_{-0.018}$	$100\theta_{\text{eq}}$	0.8031	$0.807^{+0.033}_{-0.031}$	χ_{CMB}^2	1186.7	$1202.4 (\nu: 17.5)$
σ_8	0.7969	$0.803^{+0.042}_{-0.038}$	$100\theta_{s,\text{eq}}$	0.4443	$0.446^{+0.017}_{-0.016}$			
S_8	0.8366	$0.836^{+0.043}_{-0.042}$	$H(0.15)$	69.7	71^{+8}_{-7}			

Best-fit $\chi_{\text{eff}}^2 = 1187.84$; $\bar{\chi}_{\text{eff}}^2 = 1209.69$; $R - 1 = 0.01748$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.48 simall_100x143_offlike5_EE_Aplanck_B: 395.70 commander_dx12_v3.2_29: 24.56 plik_rd12_HM_v22_TT: 757.94

11.4 base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02226^{+0.00063}_{-0.00065}$	$\sigma_8 \Omega_m^{0.5}$	0.4511	$0.452^{+0.019}_{-0.018}$	$D_M(0.15)$	641.9	639^{+49}_{-49}
$\Omega_c h^2$	0.1190	$0.120^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	0.6040	$0.605^{+0.024}_{-0.022}$	$H(0.38)$	82.9	$83.3^{+6.4}_{-5.4}$
$100\theta_{MC}$	1.04108	$1.0410^{+0.0044}_{-0.0047}$	$\sigma_8/h^{0.5}$	0.9842	$0.985^{+0.024}_{-0.024}$	$D_M(0.38)$	1531	1525^{+110}_{-110}
τ	0.0544	$0.055^{+0.020}_{-0.019}$	$r_{drag} h$	99.65	$99.8^{+2.8}_{-2.6}$	$H(0.51)$	89.6	$90.0^{+6.8}_{-5.6}$
N_{eff}	3.04	$3.10^{+1.2}_{-0.92}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.432^{+0.059}_{-0.059}$	$D_M(0.51)$	1983	1976^{+140}_{-150}
Y_P	0.247	$0.247^{+0.075}_{-0.089}$	z_{re}	7.71	$7.8^{+2.0}_{-2.0}$	$H(0.61)$	95.2	$95.6^{+7.0}_{-5.8}$
$\ln(10^{10} A_s)$	3.0425	$3.045^{+0.045}_{-0.045}$	$10^9 A_s$	2.096	$2.102^{+0.097}_{-0.092}$	$D_M(0.61)$	2308	2299^{+160}_{-170}
n_s	0.9675	$0.968^{+0.021}_{-0.022}$	$10^9 A_s e^{-2\tau}$	1.880	$1.883^{+0.056}_{-0.055}$	$H(2.33)$	235.8	237^{+16}_{-12}
y_{cal}	1.0005	$1.0007^{+0.0064}_{-0.0065}$	D_{40}	1224.0	1225^{+43}_{-43}	$D_M(2.33)$	5769	5749^{+360}_{-390}
A_{217}^{CIB}	48.4	48^{+20}_{-20}	D_{220}	5720	5723^{+100}_{-110}	$f\sigma_8(0.15)$	0.4557	$0.456^{+0.018}_{-0.018}$
$\xi^{tSZ \times CIB}$	0.34	—	D_{810}	2538.3	2538^{+38}_{-36}	$\sigma_8(0.15)$	0.7475	$0.750^{+0.035}_{-0.031}$
A_{143}^{tSZ}	7.1	—	D_{1420}	816.5	815^{+14}_{-14}	$f\sigma_8(0.38)$	0.4741	$0.475^{+0.019}_{-0.018}$
A_{100}^{PS}	253	266^{+80}_{-70}	D_{2000}	230.3	$229.6^{+6.3}_{-6.3}$	$\sigma_8(0.38)$	0.6626	$0.665^{+0.032}_{-0.030}$
A_{143}^{PS}	49.2	50^{+20}_{-20}	$n_{s,0.002}$	0.9675	$0.968^{+0.021}_{-0.022}$	$f\sigma_8(0.51)$	0.4728	$0.474^{+0.019}_{-0.018}$
$A_{143 \times 217}^{PS}$	47.3	44^{+20}_{-20}	Y_P	0.247	$0.247^{+0.075}_{-0.089}$	$\sigma_8(0.51)$	0.6201	$0.622^{+0.030}_{-0.028}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	Y_P^{BBN}	0.249	$0.249^{+0.076}_{-0.090}$	$f\sigma_8(0.61)$	0.4678	$0.469^{+0.019}_{-0.018}$
A^{kSZ}	0.0	—	Age/Gyr	13.81	$13.76^{+0.85}_{-0.94}$	$\sigma_8(0.61)$	0.5901	$0.592^{+0.029}_{-0.027}$
A_{100}^{dustTT}	8.90	$8.9^{+5.0}_{-4.7}$	z_*	1090.07	$1090.2^{+1.7}_{-1.8}$	$f\sigma_8(2.33)$	0.2975	$0.299^{+0.015}_{-0.014}$
A_{143}^{dustTT}	10.75	$10.7^{+4.4}_{-4.4}$	r_*	144.8	$144.4^{+8.6}_{-9.6}$	$\sigma_8(2.33)$	0.3068	$0.308^{+0.016}_{-0.015}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.7}_{-8.6}$	$100\theta_*$	1.04123	$1.0411^{+0.0030}_{-0.0031}$	$\chi^2_{lensing}$	8.87	$9.43 (\nu: 0.4)$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.91	$13.87^{+0.79}_{-0.88}$	χ^2_{small}	396.08	$397.1 (\nu: 1.5)$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.63	$1059.8^{+2.7}_{-2.9}$	χ^2_{lowl}	22.88	$23.0 (\nu: 0.9)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.5	$147.1^{+8.8}_{-9.7}$	χ^2_{plik}	759.9	$773.4 (\nu: 16.6)$
H_0	67.5	$67.9^{+5.7}_{-5.0}$	k_D	0.1403	$0.1406^{+0.0097}_{-0.0081}$	χ^2_{6DF}	0.029	$0.064 (\nu: 0.0)$
Ω_Λ	0.6890	$0.690^{+0.022}_{-0.022}$	$100\theta_D$	0.16104	$0.1612^{+0.0019}_{-0.0019}$	χ^2_{MGS}	1.22	$1.36 (\nu: 0.2)$
Ω_m	0.3110	$0.310^{+0.022}_{-0.022}$	z_{eq}	3380	3376^{+110}_{-110}	$\chi^2_{DR12BAO}$	4.36	$4.9 (\nu: 1.4)$
$\Omega_m h^2$	0.1419	$0.143^{+0.019}_{-0.015}$	k_{eq}	0.01031	$0.01034^{+0.00057}_{-0.00046}$	χ^2_{prior}	1.3	$7.3 (\nu: 6.7)$
$\Omega_m h^3$	0.0958	$0.097^{+0.022}_{-0.016}$	$100\theta_{eq}$	0.8171	$0.818^{+0.019}_{-0.018}$	χ^2_{CMB}	1187.7	$1202.9 (\nu: 17.4)$
σ_8	0.8088	$0.811^{+0.036}_{-0.033}$	$100\theta_{s,eq}$	0.4515	$0.4518^{+0.0099}_{-0.0095}$	χ^2_{BAO}	5.61	$6.3 (\nu: 1.0)$
S_8	0.8236	$0.825^{+0.034}_{-0.033}$	$H(0.15)$	72.8	$73.2^{+5.9}_{-5.1}$			

Best-fit $\chi^2_{eff} = 1194.67$; $\bar{\chi}^2_{eff} = 1216.49$; $R - 1 = 0.01644$
 χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.36 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.87 small_100x143_offlike5_EE_Aplanck_B: 396.08 comman-
der_dx12_v3_2_29: 22.88 plik_rd12_HM_v22_TT: 759.91

11.5 base_nnu_yhe_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02210^{+0.00082}_{-0.00080}$	S_8	$0.841^{+0.067}_{-0.061}$	$100\theta_{\mathrm{s,eq}}$	$0.447^{+0.019}_{-0.019}$
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.023}_{-0.016}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.037}_{-0.034}$	$H(0.15)$	72^{+9}_{-8}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0049}_{-0.0052}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.033}_{-0.030}$	$D_{\mathrm{M}}(0.15)$	655^{+80}_{-80}
τ	$0.053^{+0.019}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.995^{+0.043}_{-0.042}$	$H(0.38)$	82^{+9}_{-8}
N_{eff}	$2.9^{+1.6}_{-1.2}$	$r_{\mathrm{drag}}h$	$98.2^{+6.2}_{-5.9}$	$D_{\mathrm{M}}(0.38)$	1558^{+200}_{-200}
Y_{P}	$0.251^{+0.074}_{-0.092}$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.12}_{-0.12}$	$H(0.51)$	$88.7^{+9.5}_{-7.7}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.040^{+0.057}_{-0.048}$	z_{re}	< 9.45	$D_{\mathrm{M}}(0.51)$	2017^{+220}_{-230}
n_{s}	$0.961^{+0.035}_{-0.034}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.12}_{-0.099}$	$H(0.61)$	$94.3^{+9.7}_{-7.8}$
y_{cal}	$1.0005^{+0.0065}_{-0.0067}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.071}_{-0.069}$	$D_{\mathrm{M}}(0.61)$	2345^{+250}_{-260}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1235^{+59}_{-56}	$H(2.33)$	235^{+19}_{-15}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5712^{+110}_{-110}	$D_{\mathrm{M}}(2.33)$	5827^{+500}_{-540}
A_{143}^{tSZ}	—	D_{810}	2536^{+38}_{-38}	$f\sigma_8(0.15)$	$0.464^{+0.033}_{-0.031}$
A_{100}^{PS}	264^{+70}_{-70}	D_{1420}	814^{+13}_{-14}	$\sigma_8(0.15)$	$0.747^{+0.045}_{-0.039}$
A_{143}^{PS}	50^{+20}_{-20}	D_{2000}	$229.5^{+6.1}_{-6.2}$	$f\sigma_8(0.38)$	$0.479^{+0.026}_{-0.024}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.961^{+0.035}_{-0.034}$	$\sigma_8(0.38)$	$0.661^{+0.043}_{-0.037}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.251^{+0.074}_{-0.092}$	$f\sigma_8(0.51)$	$0.477^{+0.025}_{-0.022}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.253^{+0.074}_{-0.092}$	$\sigma_8(0.51)$	$0.618^{+0.042}_{-0.035}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	Age/Gyr	$13.9^{+1.2}_{-1.3}$	$f\sigma_8(0.61)$	$0.471^{+0.025}_{-0.021}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	z_*	$1090.4^{+1.9}_{-1.8}$	$\sigma_8(0.61)$	$0.588^{+0.041}_{-0.035}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.8}_{-8.5}$	r_*	146^{+11}_{-12}	$f\sigma_8(2.33)$	$0.296^{+0.022}_{-0.018}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_*$	$1.0413^{+0.0035}_{-0.0036}$	$\sigma_8(2.33)$	$0.305^{+0.024}_{-0.021}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.0^{+1.0}_{-1.1}$	f_{2000}^{143}	31^{+10}_{-10}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
H_0	66^{+9}_{-8}	r_{drag}	148^{+11}_{-13}	f_{2000}^{217}	$108.3^{+6.9}_{-6.8}$
Ω_{Λ}	$0.676^{+0.049}_{-0.056}$	k_{D}	$0.140^{+0.013}_{-0.0094}$	χ_{simall}^2	$396.8 (\nu: 1.3)$
Ω_{m}	$0.324^{+0.056}_{-0.049}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0020}_{-0.0020}$	χ_{lowl}^2	$24.2 (\nu: 2.5)$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.023}_{-0.017}$	z_{eq}	3427^{+220}_{-210}	χ_{plik}^2	$772.5 (\nu: 19.0)$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.029}_{-0.020}$	k_{eq}	$0.01037^{+0.00066}_{-0.00050}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.810^{+0.046}_{-0.040}$	$100\theta_{\mathrm{eq}}$	$0.809^{+0.038}_{-0.037}$	χ_{CMB}^2	$1193.5 (\nu: 17.1)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1200.83$; $R - 1 = 0.01329$

11.6 base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02227^{+0.00064}_{-0.00065}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.031}_{-0.026}$	$D_{\mathrm{M}}(0.38)$	1516^{+120}_{-120}
$\Omega_{\mathrm{c}} h^2$	$0.121^{+0.021}_{-0.016}$	$\sigma_8 / h^{0.5}$	$0.984^{+0.030}_{-0.027}$	$H(0.51)$	$90.5^{+7.5}_{-5.9}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0046}_{-0.0048}$	$r_{\mathrm{drag}} h$	$99.96^{+2.8}_{-2.7}$	$D_{\mathrm{M}}(0.51)$	1964^{+150}_{-160}
τ	$0.055^{+0.020}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.071}_{-0.070}$	$H(0.61)$	$96.1^{+7.8}_{-6.1}$
N_{eff}	$3.2^{+1.3}_{-1.0}$	z_{re}	< 9.69	$D_{\mathrm{M}}(0.61)$	2286^{+170}_{-180}
Y_{P}	$0.245^{+0.078}_{-0.088}$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.12}_{-0.089}$	$H(2.33)$	238^{+17}_{-13}
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.056}_{-0.043}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.066}_{-0.061}$	$D_{\mathrm{M}}(2.33)$	5721^{+380}_{-430}
n_{s}	$0.970^{+0.021}_{-0.022}$	D_{40}	1222^{+46}_{-44}	$f\sigma_8(0.15)$	$0.457^{+0.024}_{-0.021}$
y_{cal}	$1.0006^{+0.0064}_{-0.0066}$	D_{220}	5719^{+110}_{-110}	$\sigma_8(0.15)$	$0.752^{+0.043}_{-0.036}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+38}_{-37}	$f\sigma_8(0.38)$	$0.476^{+0.024}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-14}	$\sigma_8(0.38)$	$0.667^{+0.039}_{-0.033}$
A_{143}^{tSZ}	—	D_{2000}	$229.3^{+6.3}_{-6.2}$	$f\sigma_8(0.51)$	$0.475^{+0.024}_{-0.020}$
A_{100}^{PS}	266^{+80}_{-70}	$n_{\mathrm{s},0.002}$	$0.970^{+0.021}_{-0.022}$	$\sigma_8(0.51)$	$0.624^{+0.036}_{-0.031}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.245^{+0.078}_{-0.088}$	$f\sigma_8(0.61)$	$0.470^{+0.024}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.247^{+0.079}_{-0.088}$	$\sigma_8(0.61)$	$0.594^{+0.035}_{-0.030}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.70^{+0.90}_{-1.0}$	$f\sigma_8(2.33)$	$0.300^{+0.018}_{-0.015}$
A^{kSZ}	—	z_*	$1090.2^{+1.8}_{-1.8}$	$\sigma_8(2.33)$	$0.309^{+0.019}_{-0.016}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+5.0}_{-4.7}$	r_*	$143.7^{+9.2}_{-10}$	f_{2000}^{143}	32^{+10}_{-10}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.5}_{-4.4}$	$100\theta_*$	$1.0409^{+0.0031}_{-0.0034}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-8}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.6}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.81^{+0.85}_{-0.96}$	f_{2000}^{217}	$108.4^{+6.7}_{-7.2}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.8^{+2.7}_{-2.8}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$146.4^{+9.4}_{-11}$	χ_{lowl}^2	$22.8 (\nu: 0.9)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.141^{+0.011}_{-0.0087}$	χ_{plik}^2	$774.0 (\nu: 17.6)$
H_0	$68.3^{+6.2}_{-5.2}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0019}_{-0.0020}$	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
Ω_{Λ}	$0.691^{+0.022}_{-0.023}$	z_{eq}	3368^{+120}_{-110}	χ_{MGS}^2	$1.47 (\nu: 0.2)$
Ω_{m}	$0.309^{+0.023}_{-0.022}$	k_{eq}	$0.01036^{+0.00065}_{-0.00051}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^2$	$0.144^{+0.021}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.019}_{-0.019}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\Omega_{\mathrm{m}} h^3$	$0.099^{+0.024}_{-0.017}$	$100\theta_{\mathrm{s,eq}}$	$0.4526^{+0.0099}_{-0.0096}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
σ_8	$0.813^{+0.045}_{-0.038}$	$H(0.15)$	$73.6^{+6.4}_{-5.3}$	χ_{CMB}^2	$1193.8 (\nu: 16.7)$
S_8	$0.825^{+0.044}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	635^{+50}_{-52}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.024}_{-0.022}$	$H(0.38)$	$83.8^{+6.9}_{-5.7}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1207.34; R - 1 = 0.02392$

11.7 base_nnu_yhe_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02210^{+0.00076}_{-0.00074}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$D_{\text{M}}(0.15)$	659^{+70}_{-70}
$\Omega_{\text{c}}h^2$	$0.117^{+0.020}_{-0.016}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.606^{+0.023}_{-0.022}$	$H(0.38)$	$81.3^{+8.5}_{-7.0}$
$100\theta_{\text{MC}}$	$1.0416^{+0.0047}_{-0.0050}$	$\sigma_8/h^{0.5}$	$0.992^{+0.031}_{-0.030}$	$D_{\text{M}}(0.38)$	1568^{+160}_{-160}
τ	$0.053^{+0.019}_{-0.012}$	$r_{\text{drag}}h$	$98.3^{+5.0}_{-4.7}$	$H(0.51)$	$88.0^{+8.7}_{-7.1}$
N_{eff}	$2.8^{+1.4}_{-1.1}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.081}_{-0.080}$	$D_{\text{M}}(0.51)$	2030^{+210}_{-210}
Y_{P}	$0.255^{+0.070}_{-0.085}$	z_{re}	< 9.35	$H(0.61)$	$93.7^{+8.9}_{-7.4}$
$\ln(10^{10}A_{\text{s}})$	$3.036^{+0.053}_{-0.049}$	$10^9 A_{\text{s}}$	$2.08^{+0.11}_{-0.10}$	$D_{\text{M}}(0.61)$	2360^{+230}_{-230}
n_{s}	$0.960^{+0.030}_{-0.030}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.871^{+0.064}_{-0.068}$	$H(2.33)$	234^{+17}_{-14}
y_{cal}	$1.0005^{+0.0064}_{-0.0067}$	D_{40}	1234^{+49}_{-48}	$D_{\text{M}}(2.33)$	5866^{+480}_{-500}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5714^{+110}_{-110}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{810}	2535^{+38}_{-38}	$\sigma_8(0.15)$	$0.742^{+0.041}_{-0.037}$
A_{143}^{tSZ}	—	D_{1420}	814^{+14}_{-14}	$f\sigma_8(0.38)$	$0.476^{+0.018}_{-0.018}$
A_{100}^{PS}	264^{+70}_{-70}	D_{2000}	$229.6^{+6.1}_{-6.0}$	$\sigma_8(0.38)$	$0.657^{+0.040}_{-0.036}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\text{s},0.002}$	$0.960^{+0.030}_{-0.030}$	$f\sigma_8(0.51)$	$0.474^{+0.019}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	Y_{P}	$0.255^{+0.070}_{-0.085}$	$\sigma_8(0.51)$	$0.614^{+0.039}_{-0.034}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\text{P}}^{\text{BBN}}$	$0.257^{+0.070}_{-0.085}$	$f\sigma_8(0.61)$	$0.468^{+0.019}_{-0.018}$
A^{kSZ}	—	Age/Gyr	$14.0^{+1.1}_{-1.2}$	$\sigma_8(0.61)$	$0.584^{+0.038}_{-0.033}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	z_*	$1090.3^{+1.9}_{-1.8}$	$f\sigma_8(2.33)$	$0.294^{+0.020}_{-0.018}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.4}$	r_*	147^{+11}_{-11}	$\sigma_8(2.33)$	$0.303^{+0.022}_{-0.020}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.7}_{-8.5}$	$100\theta_*$	$1.0416^{+0.0036}_{-0.0034}$	f_{2000}^{143}	31^{+10}_{-10}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.08^{+0.97}_{-1.1}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+3.0}_{-2.9}$	f_{2000}^{217}	$108.2^{+6.8}_{-6.9}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	149^{+11}_{-12}	χ_{lensing}^2	$9.3 (\nu: 0.5)$
H_0	66^{+8}_{-7}	k_{D}	$0.139^{+0.011}_{-0.0088}$	χ_{simall}^2	$396.7 (\nu: 1.1)$
Ω_{Λ}	$0.677^{+0.040}_{-0.044}$	$100\theta_{\text{D}}$	$0.1611^{+0.0020}_{-0.0019}$	χ_{lowl}^2	$24.1 (\nu: 1.8)$
Ω_{m}	$0.323^{+0.044}_{-0.040}$	z_{eq}	3428^{+180}_{-180}	χ_{plik}^2	$772.0 (\nu: 16.8)$
$\Omega_{\text{m}}h^2$	$0.140^{+0.020}_{-0.016}$	k_{eq}	$0.01030^{+0.00056}_{-0.00044}$	χ_{prior}^2	$7.3 (\nu: 6.5)$
$\Omega_{\text{m}}h^3$	$0.092^{+0.025}_{-0.019}$	$100\theta_{\text{eq}}$	$0.809^{+0.032}_{-0.030}$	χ_{CMB}^2	$1202.1 (\nu: 17.0)$
σ_8	$0.805^{+0.041}_{-0.038}$	$100\theta_{\text{s,eq}}$	$0.447^{+0.016}_{-0.015}$		
S_8	$0.835^{+0.043}_{-0.042}$	$H(0.15)$	71^{+8}_{-7}		

$$\bar{\chi}_{\text{eff}}^2 = 1209.43; R - 1 = 0.01928$$

11.8 base_nnu_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00062}_{-0.00065}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.024}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1525^{+110}_{-110}
$\Omega_{\mathrm{c}} h^2$	$0.120^{+0.019}_{-0.015}$	$\sigma_8 / h^{0.5}$	$0.985^{+0.024}_{-0.023}$	$H(0.51)$	$90.0^{+6.7}_{-5.6}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0044}_{-0.0046}$	$r_{\mathrm{drag}} h$	$99.8^{+2.8}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1976^{+140}_{-150}
τ	$0.056^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.059}_{-0.059}$	$H(0.61)$	$95.6^{+7.0}_{-5.8}$
N_{eff}	$3.10^{+1.2}_{-0.91}$	z_{re}	< 9.61	$D_{\mathrm{M}}(0.61)$	2299^{+160}_{-170}
Y_{P}	$0.248^{+0.076}_{-0.089}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.095}_{-0.082}$	$H(2.33)$	237^{+15}_{-12}
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.044}_{-0.039}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.056}_{-0.055}$	$D_{\mathrm{M}}(2.33)$	5750^{+360}_{-390}
n_{s}	$0.968^{+0.021}_{-0.021}$	D_{40}	1225^{+43}_{-43}	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.018}$
y_{cal}	$1.0007^{+0.0063}_{-0.0065}$	D_{220}	5723^{+100}_{-110}	$\sigma_8(0.15)$	$0.750^{+0.035}_{-0.032}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+37}_{-35}	$f\sigma_8(0.38)$	$0.475^{+0.019}_{-0.017}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-14}	$\sigma_8(0.38)$	$0.665^{+0.032}_{-0.029}$
A_{143}^{tSZ}	—	D_{2000}	$229.6^{+6.3}_{-6.3}$	$f\sigma_8(0.51)$	$0.474^{+0.019}_{-0.018}$
A_{100}^{PS}	266^{+80}_{-70}	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.021}$	$\sigma_8(0.51)$	$0.622^{+0.030}_{-0.028}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.248^{+0.076}_{-0.089}$	$f\sigma_8(0.61)$	$0.469^{+0.019}_{-0.018}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.249^{+0.076}_{-0.090}$	$\sigma_8(0.61)$	$0.592^{+0.029}_{-0.027}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.77^{+0.85}_{-0.92}$	$f\sigma_8(2.33)$	$0.299^{+0.015}_{-0.014}$
A^{kSZ}	—	z_*	$1090.2^{+1.8}_{-1.8}$	$\sigma_8(2.33)$	$0.308^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+5.0}_{-4.7}$	r_*	$144.4^{+8.5}_{-9.4}$	f_{2000}^{143}	32^{+10}_{-10}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.4}_{-4.4}$	$100\theta_*$	$1.0411^{+0.0030}_{-0.0031}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-8}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.8}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.79}_{-0.87}$	f_{2000}^{217}	$108.3^{+6.7}_{-7.1}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.8^{+2.7}_{-2.9}$	$\chi_{\mathrm{lensing}}^2$	$9.39 (\nu: 0.3)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.1^{+8.7}_{-9.6}$	χ_{simall}^2	$397.0 (\nu: 1.5)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1406^{+0.0097}_{-0.0081}$	χ_{lowl}^2	$23.0 (\nu: 0.9)$
H_0	$67.9^{+5.7}_{-5.0}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0019}$	χ_{plik}^2	$773.3 (\nu: 16.5)$
Ω_{Λ}	$0.690^{+0.022}_{-0.022}$	z_{eq}	3376^{+110}_{-110}	$\chi_{6\mathrm{DF}}^2$	$0.062 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.022}_{-0.022}$	k_{eq}	$0.01033^{+0.00056}_{-0.00045}$	χ_{MGS}^2	$1.37 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.143^{+0.019}_{-0.014}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.019}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.4)$
$\Omega_{\mathrm{m}} h^3$	$0.097^{+0.021}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0099}_{-0.0095}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.812^{+0.036}_{-0.033}$	$H(0.15)$	$73.2^{+5.9}_{-5.1}$	χ_{CMB}^2	$1202.8 (\nu: 17.1)$
S_8	$0.825^{+0.034}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	639^{+49}_{-49}	χ_{BAO}^2	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.019}_{-0.018}$	$H(0.38)$	$83.3^{+6.3}_{-5.4}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1216.32; R - 1 = 0.01882$$

11.9 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02225^{+0.00057}_{-0.00057}$	Ω_m	0.3227	$0.321^{+0.029}_{-0.027}$	k_{eq}	0.010297	$0.01033^{+0.00042}_{-0.00038}$
$\Omega_c h^2$	0.1167	$0.118^{+0.013}_{-0.011}$	$\Omega_m h^2$	0.1395	$0.141^{+0.013}_{-0.011}$	$100\theta_{\text{eq}}$	0.8083	$0.809^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	1.04140	$1.0413^{+0.0031}_{-0.0031}$	$\Omega_m h^3$	0.0918	$0.093^{+0.015}_{-0.012}$	$100\theta_{\text{s,eq}}$	0.4469	$0.447^{+0.010}_{-0.0099}$
τ	0.0539	$0.054^{+0.021}_{-0.022}$	σ_8	0.8029	$0.806^{+0.033}_{-0.032}$	$H(0.15)$	71.08	$71.6^{+5.0}_{-4.4}$
N_{eff}	2.81	$2.89^{+0.83}_{-0.70}$	S_8	0.8327	$0.833^{+0.043}_{-0.043}$	$D_{\text{M}}(0.15)$	658.4	654^{+44}_{-45}
Y_{P}	0.2449	$0.246^{+0.043}_{-0.049}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4561	$0.456^{+0.024}_{-0.023}$	$H(0.38)$	81.22	$81.7^{+5.1}_{-4.5}$
$\ln(10^{10} A_{\text{s}})$	3.036	$3.038^{+0.052}_{-0.049}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6051	$0.606^{+0.024}_{-0.025}$	$D_{\text{M}}(0.38)$	1568	1558^{+99}_{-100}
n_{s}	0.9584	$0.960^{+0.022}_{-0.022}$	$\sigma_8/h^{0.5}$	0.9901	$0.990^{+0.030}_{-0.033}$	$H(0.51)$	87.95	$88.5^{+5.2}_{-4.5}$
y_{cal}	1.0005	$1.0007^{+0.0066}_{-0.0062}$	$r_{\text{drag}} h$	98.23	$98.4^{+3.4}_{-3.3}$	$D_{\text{M}}(0.51)$	2029	2017^{+120}_{-130}
A_{217}^{CIB}	43.8	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.457	$2.456^{+0.076}_{-0.080}$	$H(0.61)$	93.6	$94.1^{+5.4}_{-4.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.89	—	z_{re}	7.60	$7.6^{+2.0}_{-2.3}$	$D_{\text{M}}(0.61)$	2359	2345^{+140}_{-150}
A_{143}^{tSZ}	6.90	> 0.937	$10^9 A_{\text{s}}$	2.082	$2.09^{+0.11}_{-0.10}$	$H(2.33)$	233.5	$235^{+11}_{-9.6}$
A_{100}^{PS}	244	257^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.869	$1.874^{+0.051}_{-0.053}$	$D_{\text{M}}(2.33)$	5865	5834^{+290}_{-310}
A_{143}^{PS}	51.4	45^{+20}_{-20}	D_{40}	1238.1	1238^{+43}_{-40}	$f\sigma_8(0.15)$	0.4597	$0.460^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	57.2	42^{+20}_{-20}	D_{220}	5730	5733^{+96}_{-96}	$\sigma_8(0.15)$	0.7408	$0.743^{+0.031}_{-0.030}$
A_{217}^{PS}	124.0	115^{+30}_{-30}	D_{810}	2539.1	2538^{+36}_{-34}	$f\sigma_8(0.38)$	0.4754	$0.476^{+0.019}_{-0.020}$
A^{kSZ}	0.0	—	D_{1420}	819.7	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6555	$0.658^{+0.029}_{-0.028}$
A_{100}^{dustTT}	8.69	$8.9^{+4.7}_{-4.7}$	D_{2000}	232.45	$231.5^{+4.6}_{-4.7}$	$f\sigma_8(0.51)$	0.4727	$0.474^{+0.019}_{-0.019}$
A_{143}^{dustTT}	10.86	$10.8^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	0.9584	$0.960^{+0.022}_{-0.022}$	$\sigma_8(0.51)$	0.6130	$0.615^{+0.028}_{-0.026}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.5^{+8.5}_{-8.5}$	Y_{P}	0.2449	$0.246^{+0.043}_{-0.049}$	$f\sigma_8(0.61)$	0.4669	$0.468^{+0.018}_{-0.018}$
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2463	$0.247^{+0.043}_{-0.049}$	$\sigma_8(0.61)$	0.5829	$0.585^{+0.027}_{-0.026}$
A_{100}^{dustTE}	0.115	$0.115^{+0.097}_{-0.096}$	Age/Gyr	14.04	$13.97^{+0.70}_{-0.74}$	$f\sigma_8(2.33)$	0.2935	$0.295^{+0.014}_{-0.013}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.078}_{-0.075}$	z_*	1089.70	$1089.9^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3021	$0.303^{+0.015}_{-0.014}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	r_*	146.6	$145.9^{+6.8}_{-7.1}$	f_{2000}^{143}	27.2	29^{+8}_{-8}
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04168	$1.0415^{+0.0023}_{-0.0023}$	$f_{2000}^{143 \times 217}$	30.9	32^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.21}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.08	$14.01^{+0.62}_{-0.66}$	f_{2000}^{217}	105.5	$106.6^{+5.3}_{-5.3}$
A_{217}^{dustTE}	2.09	$2.09^{+0.68}_{-0.69}$	z_{drag}	1059.25	$1059.5^{+2.1}_{-2.2}$	χ_{simall}^2	396.03	$397.1 (\nu: 1.6)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	149.4	$148.7^{+7.0}_{-7.4}$	χ_{lowl}^2	24.26	$24.3 (\nu: 1.2)$
c_{217}	0.99814	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.1392	$0.1397^{+0.0067}_{-0.0059}$	χ_{plik}^2	2343.1	$2360.3 (\nu: 19.0)$
H_0	65.76	$66.2^{+5.0}_{-4.4}$	$100\theta_{\text{D}}$	0.16035	$0.1606^{+0.0012}_{-0.0012}$	χ_{prior}^2	1.4	$11.5 (\nu: 10.3)$
Ω_{Λ}	0.6773	$0.679^{+0.027}_{-0.029}$	z_{eq}	3429	3424^{+110}_{-110}	χ_{CMB}^2	2763.3	$2781.7 (\nu: 18.8)$

Best-fit $\chi_{\text{eff}}^2 = 2764.72$; $\bar{\chi}_{\text{eff}}^2 = 2793.18$; $R - 1 = 0.01243$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3.2_29: 24.26 plik_rd12_HM_v22b_TTTEEE: 2343.05

11.10 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022350	$0.02239^{+0.00048}_{-0.00048}$	$\Omega_m h^3$	0.0946	$0.096^{+0.014}_{-0.013}$	$D_M(0.15)$	645.7	643^{+37}_{-36}
$\Omega_c h^2$	0.1179	$0.119^{+0.013}_{-0.012}$	σ_8	0.8053	$0.807^{+0.033}_{-0.033}$	$H(0.38)$	82.48	$82.8^{+4.5}_{-4.2}$
$100\theta_{MC}$	1.04108	$1.0411^{+0.0030}_{-0.0030}$	S_8	0.8222	$0.823^{+0.037}_{-0.038}$	$D_M(0.38)$	1540	1534^{+86}_{-84}
τ	0.0551	$0.055^{+0.020}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4503	$0.451^{+0.020}_{-0.021}$	$H(0.51)$	89.17	$89.5^{+4.7}_{-4.4}$
N_{eff}	2.96	$3.01^{+0.78}_{-0.70}$	$\sigma_8 \Omega_m^{0.25}$	0.6022	$0.603^{+0.024}_{-0.025}$	$D_M(0.51)$	1994	1987^{+110}_{-110}
Y_P	0.2422	$0.244^{+0.042}_{-0.049}$	$\sigma_8/h^{0.5}$	0.9829	$0.983^{+0.028}_{-0.029}$	$H(0.61)$	94.77	$95.1^{+4.9}_{-4.5}$
$\ln(10^{10} A_s)$	3.0401	$3.043^{+0.049}_{-0.049}$	$r_{\text{drag}} h$	99.42	$99.5^{+2.2}_{-2.2}$	$D_M(0.61)$	2320	2313^{+130}_{-120}
n_s	0.9648	$0.965^{+0.017}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	2.435	$2.437^{+0.068}_{-0.066}$	$H(2.33)$	234.9	236^{+11}_{-10}
y_{cal}	1.0003	$1.0007^{+0.0062}_{-0.0063}$	z_{re}	7.71	$7.7^{+2.0}_{-2.2}$	$D_M(2.33)$	5796	5779^{+280}_{-280}
A_{217}^{CIB}	44.5	46^{+20}_{-20}	$10^9 A_s$	2.091	$2.10^{+0.11}_{-0.10}$	$f\sigma_8(0.15)$	0.4548	$0.455^{+0.019}_{-0.020}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.82	—	$10^9 A_s e^{-2\tau}$	1.8726	$1.877^{+0.048}_{-0.050}$	$\sigma_8(0.15)$	0.7440	$0.746^{+0.031}_{-0.031}$
A_{143}^{tSZ}	7.03	> 1.03	D_{40}	1227.9	1230^{+38}_{-35}	$f\sigma_8(0.38)$	0.4728	$0.474^{+0.019}_{-0.019}$
A_{100}^{PS}	244	257^{+70}_{-70}	D_{220}	5729	5738^{+95}_{-97}	$\sigma_8(0.38)$	0.6594	$0.661^{+0.028}_{-0.028}$
A_{143}^{PS}	50.7	45^{+20}_{-20}	D_{810}	2538.4	2539^{+34}_{-35}	$f\sigma_8(0.51)$	0.4712	$0.472^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	55.6	42^{+20}_{-20}	D_{1420}	819.4	818^{+12}_{-12}	$\sigma_8(0.51)$	0.6170	$0.619^{+0.027}_{-0.026}$
A_{217}^{PS}	122.8	115^{+30}_{-30}	D_{2000}	232.14	$231.4^{+4.6}_{-4.7}$	$f\sigma_8(0.61)$	0.4662	$0.467^{+0.018}_{-0.019}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9648	$0.965^{+0.017}_{-0.018}$	$\sigma_8(0.61)$	0.5871	$0.589^{+0.026}_{-0.025}$
A_{100}^{dustTT}	8.83	$8.9^{+4.6}_{-4.7}$	Y_P	0.2422	$0.244^{+0.042}_{-0.049}$	$f\sigma_8(2.33)$	0.2960	$0.297^{+0.013}_{-0.013}$
A_{143}^{dustTT}	10.99	$10.9^{+4.5}_{-4.6}$	Y_P^{BBN}	0.2435	$0.246^{+0.043}_{-0.049}$	$\sigma_8(2.33)$	0.3051	$0.306^{+0.014}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	20.3	$18.6^{+9.4}_{-8.4}$	Age/Gyr	13.87	$13.83^{+0.67}_{-0.66}$	f_{2000}^{143}	27.5	29^{+8}_{-8}
A_{217}^{dustTT}	95.9	94^{+20}_{-20}	z_*	1089.60	$1089.7^{+1.1}_{-1.1}$	$f_{2000}^{143 \times 217}$	31.1	32^{+5}_{-6}
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.094}$	r_*	145.4	$145.1^{+6.9}_{-6.8}$	f_{2000}^{217}	105.6	$106.7^{+5.2}_{-5.4}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.077}_{-0.076}$	$100\theta_*$	1.04138	$1.0413^{+0.0024}_{-0.0023}$	χ_{small}^2	396.16	$397.3 (\nu: 2.0)$
$A_{100 \times 217}^{\text{dustTE}}$	0.483	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.96	$13.93^{+0.63}_{-0.62}$	χ_{lowl}^2	23.25	$23.4 (\nu: 0.7)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	z_{drag}	1059.59	$1059.8^{+1.9}_{-2.0}$	χ_{plik}^2	2344.8	$2361.2 (\nu: 19.0)$
$A_{143 \times 217}^{\text{dustTE}}$	0.667	$0.66^{+0.19}_{-0.21}$	r_{drag}	148.1	$147.7^{+7.0}_{-7.0}$	$\chi_{6\text{DF}}^2$	0.047	$0.069 (\nu: 0.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.67}_{-0.66}$	k_D	0.1402	$0.1405^{+0.0065}_{-0.0060}$	χ_{MGS}^2	1.10	$1.23 (\nu: 0.1)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	0.16047	$0.1606^{+0.0012}_{-0.0012}$	χ_{DR12BAO}^2	4.80	$5.1 (\nu: 1.4)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	z_{eq}	3391	3389^{+83}_{-82}	χ_{prior}^2	1.5	$11.6 (\nu: 10.2)$
H_0	67.13	$67.4^{+4.1}_{-3.8}$	k_{eq}	0.010291	$0.01031^{+0.00041}_{-0.00040}$	χ_{BAO}^2	5.94	$6.4 (\nu: 1.0)$
Ω_Λ	0.6873	$0.688^{+0.018}_{-0.019}$	$100\theta_{\text{eq}}$	0.8153	$0.816^{+0.014}_{-0.014}$	χ_{CMB}^2	2764.2	$2781.9 (\nu: 18.1)$
Ω_m	0.3127	$0.312^{+0.019}_{-0.018}$	$100\theta_{s,\text{eq}}$	0.4505	$0.4507^{+0.0072}_{-0.0072}$			
$\Omega_m h^2$	0.1409	$0.142^{+0.013}_{-0.012}$	$H(0.15)$	72.40	$72.7^{+4.2}_{-3.9}$			

Best-fit $\chi_{\text{eff}}^2 = 2771.61$; $\bar{\chi}_{\text{eff}}^2 = 2799.87$; $R - 1 = 0.02630$
 χ_{eff}^2 : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.80 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.16 commander_dx12_v3_2_29: 23.25 plik_rd12_HM_v22b_TTTEEE: 2344.78

11.11 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02222	$0.02224^{+0.00057}_{-0.00056}$	$\Omega_{\text{m}}h^2$	0.1391	$0.140^{+0.012}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4470	$0.4474^{+0.0098}_{-0.0095}$
$\Omega_{\text{c}}h^2$	0.1163	$0.117^{+0.012}_{-0.010}$	$\Omega_{\text{m}}h^3$	0.0914	$0.092^{+0.015}_{-0.012}$	$H(0.15)$	71.01	$71.3^{+4.9}_{-4.3}$
$100\theta_{\text{MC}}$	1.04151	$1.0415^{+0.0030}_{-0.0031}$	σ_8	0.8019	$0.803^{+0.030}_{-0.029}$	$D_{\text{M}}(0.15)$	659.0	656^{+44}_{-44}
τ	0.0539	$0.053^{+0.020}_{-0.021}$	S_8	0.8312	$0.831^{+0.034}_{-0.034}$	$H(0.38)$	81.14	$81.5^{+5.0}_{-4.4}$
N_{eff}	2.79	$2.84^{+0.82}_{-0.67}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4552	$0.455^{+0.018}_{-0.019}$	$D_{\text{M}}(0.38)$	1569	1563^{+97}_{-99}
Y_{P}	0.2458	$0.247^{+0.042}_{-0.048}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.6042	$0.605^{+0.020}_{-0.020}$	$H(0.51)$	87.85	$88.2^{+5.2}_{-4.4}$
$\ln(10^{10}A_{\text{s}})$	3.0349	$3.036^{+0.047}_{-0.045}$	$\sigma_8/h^{0.5}$	0.9893	$0.989^{+0.024}_{-0.024}$	$D_{\text{M}}(0.51)$	2031	2023^{+120}_{-130}
n_{s}	0.9583	$0.959^{+0.021}_{-0.023}$	$r_{\text{drag}}h$	98.28	$98.4^{+3.2}_{-3.0}$	$H(0.61)$	93.46	$93.8^{+5.3}_{-4.5}$
y_{cal}	1.0005	$1.0007^{+0.0064}_{-0.0061}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.454^{+0.061}_{-0.063}$	$D_{\text{M}}(0.61)$	2362	2353^{+140}_{-140}
A_{217}^{CIB}	44.0	46^{+20}_{-20}	z_{re}	7.60	$7.6^{+1.9}_{-2.3}$	$H(2.33)$	233.1	$234^{+11}_{-9.1}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.89	—	$10^9 A_{\text{s}}$	2.080	$2.082^{+0.099}_{-0.092}$	$D_{\text{M}}(2.33)$	5872	5853^{+290}_{-310}
A_{143}^{tSZ}	6.95	> 0.942	$10^9 A_{\text{s}} e^{-2\tau}$	1.8673	$1.871^{+0.048}_{-0.049}$	$f\sigma_8(0.15)$	0.4589	$0.459^{+0.017}_{-0.018}$
A_{100}^{PS}	244	256^{+70}_{-70}	D_{40}	1237.7	1238^{+41}_{-39}	$\sigma_8(0.15)$	0.7399	$0.741^{+0.029}_{-0.028}$
A_{143}^{PS}	51.6	45^{+20}_{-20}	D_{220}	5730	5734^{+96}_{-97}	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	57.1	42^{+20}_{-20}	D_{810}	2538.7	2538^{+35}_{-32}	$\sigma_8(0.38)$	0.6547	$0.656^{+0.028}_{-0.026}$
A_{217}^{PS}	123.5	115^{+30}_{-30}	D_{1420}	819.6	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4720	$0.472^{+0.015}_{-0.015}$
A^{kSZ}	0.0	—	D_{2000}	232.44	$231.6^{+4.6}_{-4.7}$	$\sigma_8(0.51)$	0.6123	$0.614^{+0.027}_{-0.025}$
$A_{100}^{\text{dust}TT}$	8.71	$8.9^{+4.6}_{-4.8}$	$n_{\text{s},0.002}$	0.9583	$0.959^{+0.021}_{-0.023}$	$f\sigma_8(0.61)$	0.4663	$0.467^{+0.016}_{-0.015}$
$A_{143}^{\text{dust}TT}$	10.92	$10.8^{+4.7}_{-4.6}$	Y_{P}	0.2458	$0.247^{+0.042}_{-0.048}$	$\sigma_8(0.61)$	0.5823	$0.584^{+0.026}_{-0.024}$
$A_{143 \times 217}^{\text{dust}TT}$	20.3	$18.5^{+8.7}_{-8.9}$	$Y_{\text{P}}^{\text{BBN}}$	0.2472	$0.249^{+0.043}_{-0.049}$	$f\sigma_8(2.33)$	0.2932	$0.294^{+0.014}_{-0.013}$
$A_{217}^{\text{dust}TT}$	96.0	94^{+20}_{-20}	Age/Gyr	14.06	$14.01^{+0.69}_{-0.73}$	$\sigma_8(2.33)$	0.3018	$0.303^{+0.015}_{-0.014}$
$A_{100}^{\text{dust}TE}$	0.114	$0.115^{+0.098}_{-0.095}$	z_*	1089.69	$1089.8^{+1.1}_{-1.1}$	f_{2000}^{143}	27.3	29^{+8}_{-8}
$A_{100 \times 143}^{\text{dust}TE}$	0.135	$0.135^{+0.078}_{-0.075}$	r_*	146.8	$146.4^{+6.5}_{-7.1}$	$f_{2000}^{143 \times 217}$	31.0	32^{+6}_{-6}
$A_{100 \times 217}^{\text{dust}TE}$	0.483	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04177	$1.0417^{+0.0023}_{-0.0023}$	f_{2000}^{217}	105.5	$106.6^{+5.3}_{-5.2}$
$A_{143}^{\text{dust}TE}$	0.227	$0.22^{+0.14}_{-0.14}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.10	$14.05^{+0.59}_{-0.65}$	χ_{lensing}^2	8.49	$9.01 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dust}TE}$	0.667	$0.67^{+0.20}_{-0.21}$	z_{drag}	1059.25	$1059.4^{+2.1}_{-2.2}$	χ_{small}^2	396.03	$396.9 (\nu: 1.3)$
$A_{217}^{\text{dust}TE}$	2.09	$2.09^{+0.69}_{-0.68}$	r_{drag}	149.6	$149.1^{+6.7}_{-7.3}$	χ_{lowl}^2	24.24	$24.3 (\nu: 1.1)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.1390	$0.1393^{+0.0067}_{-0.0058}$	χ_{plik}^2	2343.0	$2359.9 (\nu: 18.0)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_{\text{D}}$	0.16035	$0.1605^{+0.0012}_{-0.0012}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.0)$
H_0	65.70	$66.0^{+4.8}_{-4.3}$	z_{eq}	3429	3425^{+110}_{-110}	χ_{CMB}^2	2771.8	$2790.2 (\nu: 19.0)$
Ω_{Λ}	0.6777	$0.679^{+0.026}_{-0.027}$	k_{eq}	0.010281	$0.01030^{+0.00037}_{-0.00033}$			
Ω_{m}	0.3223	$0.321^{+0.027}_{-0.026}$	$100\theta_{\text{eq}}$	0.8085	$0.809^{+0.019}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 2773.24$; $\bar{\chi}_{\text{eff}}^2 = 2801.64$; $R - 1 = 0.01539$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.49 small_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3.2_29: 24.23 plik_rd12_HM_v22b_TTTEEE: 2343.02

11.12 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022358	$0.02238^{+0.00049}_{-0.00049}$	$\Omega_m h^2$	0.1404	$0.141^{+0.012}_{-0.011}$	$100\theta_{s,eq}$	0.4503	$0.4504^{+0.0072}_{-0.0070}$
$\Omega_c h^2$	0.1174	$0.118^{+0.012}_{-0.011}$	$\Omega_m h^3$	0.0940	$0.095^{+0.014}_{-0.012}$	$H(0.15)$	72.24	$72.5^{+4.3}_{-3.8}$
$100\theta_{MC}$	1.04126	$1.0412^{+0.0029}_{-0.0029}$	σ_8	0.8054	$0.807^{+0.029}_{-0.028}$	$D_M(0.15)$	647.1	645^{+37}_{-37}
τ	0.0563	$0.056^{+0.018}_{-0.019}$	S_8	0.8225	$0.824^{+0.029}_{-0.030}$	$H(0.38)$	82.30	$82.6^{+4.5}_{-4.1}$
N_{eff}	2.93	$2.97^{+0.77}_{-0.67}$	$\sigma_8 \Omega_m^{0.5}$	0.4505	$0.451^{+0.016}_{-0.016}$	$D_M(0.38)$	1543	1538^{+84}_{-86}
Y_P	0.2443	$0.245^{+0.042}_{-0.049}$	$\sigma_8 \Omega_m^{0.25}$	0.6024	$0.603^{+0.020}_{-0.020}$	$H(0.51)$	88.98	$89.3^{+4.7}_{-4.2}$
$\ln(10^{10} A_s)$	3.0426	$3.044^{+0.044}_{-0.042}$	$\sigma_8/h^{0.5}$	0.9841	$0.984^{+0.023}_{-0.023}$	$D_M(0.51)$	1999	1993^{+110}_{-110}
n_s	0.9644	$0.964^{+0.018}_{-0.018}$	$r_{drag} h$	99.42	$99.5^{+2.2}_{-2.2}$	$H(0.61)$	94.57	$94.9^{+4.8}_{-4.4}$
y_{cal}	1.0007	$1.0008^{+0.0061}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.440^{+0.055}_{-0.056}$	$D_M(0.61)$	2325	2319^{+120}_{-120}
A_{217}^{CIB}	44.4	46^{+20}_{-20}	z_{re}	7.83	$7.8^{+1.8}_{-2.0}$	$H(2.33)$	234.4	$235^{+10}_{-9.3}$
$\xi^{tSZ \times CIB}$	0.80	—	$10^9 A_s$	2.096	$2.099^{+0.095}_{-0.088}$	$D_M(2.33)$	5808	5791^{+270}_{-280}
A_{143}^{tSZ}	7.00	> 1.02	$10^9 A_s e^{-2\tau}$	1.8727	$1.875^{+0.045}_{-0.048}$	$f\sigma_8(0.15)$	0.4550	$0.456^{+0.016}_{-0.016}$
A_{100}^{PS}	245	257^{+70}_{-70}	D_{40}	1229.6	1231^{+36}_{-35}	$\sigma_8(0.15)$	0.7441	$0.746^{+0.028}_{-0.027}$
A_{143}^{PS}	50.5	45^{+20}_{-20}	D_{220}	5737	5741^{+96}_{-99}	$f\sigma_8(0.38)$	0.4729	$0.474^{+0.015}_{-0.016}$
$A_{143 \times 217}^{PS}$	55.2	42^{+20}_{-20}	D_{810}	2540.5	2539^{+33}_{-33}	$\sigma_8(0.38)$	0.6595	$0.661^{+0.026}_{-0.025}$
A_{217}^{PS}	123.0	115^{+30}_{-30}	D_{1420}	820.1	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4713	$0.472^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	D_{2000}	232.36	$231.5^{+4.5}_{-4.8}$	$\sigma_8(0.51)$	0.6171	$0.618^{+0.024}_{-0.024}$
A_{100}^{dustTT}	8.82	$8.9^{+4.7}_{-4.7}$	$n_{s,0.002}$	0.9644	$0.964^{+0.018}_{-0.018}$	$f\sigma_8(0.61)$	0.4663	$0.467^{+0.016}_{-0.016}$
A_{143}^{dustTT}	10.98	$10.8^{+4.7}_{-4.6}$	Y_P	0.2443	$0.245^{+0.042}_{-0.049}$	$\sigma_8(0.61)$	0.5871	$0.588^{+0.024}_{-0.023}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.6^{+9.2}_{-8.7}$	Y_P^{BBN}	0.2456	$0.246^{+0.043}_{-0.050}$	$f\sigma_8(2.33)$	0.2960	$0.297^{+0.012}_{-0.012}$
A_{217}^{dustTT}	96.0	94^{+20}_{-20}	Age/Gyr	13.90	$13.86^{+0.64}_{-0.66}$	$\sigma_8(2.33)$	0.3051	$0.306^{+0.013}_{-0.012}$
A_{100}^{dustTE}	0.115	$0.114^{+0.098}_{-0.094}$	z_*	1089.61	$1089.7^{+1.1}_{-1.1}$	$\chi^2_{lensing}$	8.56	$9.06 (\nu: 0.2)$
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.077}_{-0.076}$	r_*	145.7	$145.3^{+6.6}_{-6.6}$	χ^2_{small}	396.43	$397.3 (\nu: 1.8)$
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04150	$1.0414^{+0.0022}_{-0.0023}$	χ^2_{lowl}	23.32	$23.5 (\nu: 0.7)$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.99	$13.96^{+0.60}_{-0.60}$	χ^2_{plik}	2344.5	$2360.6 (\nu: 17.9)$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.19}_{-0.21}$	z_{drag}	1059.63	$1059.8^{+2.0}_{-2.0}$	χ^2_{6DF}	0.048	$0.074 (\nu: 0.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.67}_{-0.67}$	r_{drag}	148.4	$148.0^{+6.7}_{-6.7}$	χ^2_{MGS}	1.10	$1.18 (\nu: 0.1)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.1399	$0.1402^{+0.0063}_{-0.0056}$	$\chi^2_{DR12BAO}$	4.79	$5.2 (\nu: 1.4)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_D$	0.16047	$0.1606^{+0.0012}_{-0.0012}$	χ^2_{prior}	1.5	$11.6 (\nu: 10.1)$
H_0	66.98	$67.2^{+4.2}_{-3.7}$	z_{eq}	3393	3393^{+82}_{-80}	χ^2_{CMB}	2772.8	$2790.5 (\nu: 18.3)$
Ω_Λ	0.6872	$0.687^{+0.018}_{-0.019}$	k_{eq}	0.010274	$0.01030^{+0.00038}_{-0.00036}$	χ^2_{BAO}	5.94	$6.4 (\nu: 1.0)$
Ω_m	0.3128	$0.313^{+0.019}_{-0.018}$	$100\theta_{eq}$	0.8150	$0.815^{+0.014}_{-0.014}$			

Best-fit $\chi^2_{eff} = 2780.20$; $\bar{\chi}^2_{eff} = 2808.46$; $R - 1 = 0.02254$
 χ^2_{eff} : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.79 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.56 small_100x143_offlike5_EE_Aplanck_B: 396.44 commander_dx12.v3_2_29: 23.32 plik_rd12_HM_v22b_TTTEEE: 2344.47

11.13 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02226^{+0.00056}_{-0.00054}$	Ω_m	$0.321^{+0.028}_{-0.027}$	k_{eq}	$0.01033^{+0.00042}_{-0.00038}$
$\Omega_c h^2$	$0.118^{+0.013}_{-0.011}$	$\Omega_m h^2$	$0.141^{+0.013}_{-0.011}$	$100\theta_{\text{eq}}$	$0.810^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	$1.0413^{+0.0031}_{-0.0031}$	$\Omega_m h^3$	$0.093^{+0.015}_{-0.012}$	$100\theta_{\text{s,eq}}$	$0.448^{+0.010}_{-0.0099}$
τ	$0.055^{+0.019}_{-0.013}$	σ_8	$0.807^{+0.032}_{-0.031}$	$H(0.15)$	$71.6^{+5.0}_{-4.3}$
N_{eff}	$2.89^{+0.83}_{-0.70}$	S_8	$0.834^{+0.043}_{-0.043}$	$D_{\text{M}}(0.15)$	654^{+43}_{-45}
Y_{P}	$0.246^{+0.043}_{-0.049}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$H(0.38)$	$81.8^{+5.1}_{-4.4}$
$\ln(10^{10} A_{\text{s}})$	$3.041^{+0.049}_{-0.040}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.607^{+0.024}_{-0.024}$	$D_{\text{M}}(0.38)$	1557^{+98}_{-100}
n_{s}	$0.960^{+0.021}_{-0.021}$	$\sigma_8/h^{0.5}$	$0.991^{+0.029}_{-0.031}$	$H(0.51)$	$88.5^{+5.2}_{-4.5}$
y_{cal}	$1.0007^{+0.0065}_{-0.0061}$	$r_{\text{drag}} h$	$98.5^{+3.3}_{-3.2}$	$D_{\text{M}}(0.51)$	2015^{+120}_{-130}
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.458^{+0.075}_{-0.076}$	$H(0.61)$	$94.2^{+5.4}_{-4.7}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.43	$D_{\text{M}}(0.61)$	2344^{+140}_{-140}
A_{143}^{tSZ}	> 0.948	$10^9 A_{\text{s}}$	$2.09^{+0.11}_{-0.081}$	$H(2.33)$	$235^{+11}_{-9.6}$
A_{100}^{PS}	256^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	$1.874^{+0.051}_{-0.053}$	$D_{\text{M}}(2.33)$	5832^{+290}_{-310}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1238^{+42}_{-40}	$f\sigma_8(0.15)$	$0.461^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5733^{+96}_{-96}	$\sigma_8(0.15)$	$0.745^{+0.030}_{-0.029}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2538^{+35}_{-34}	$f\sigma_8(0.38)$	$0.477^{+0.019}_{-0.020}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.38)$	$0.659^{+0.028}_{-0.027}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	D_{2000}	$231.5^{+4.6}_{-4.7}$	$f\sigma_8(0.51)$	$0.474^{+0.018}_{-0.018}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	$0.960^{+0.021}_{-0.021}$	$\sigma_8(0.51)$	$0.616^{+0.027}_{-0.025}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.6}$	Y_{P}	$0.246^{+0.043}_{-0.049}$	$f\sigma_8(0.61)$	$0.469^{+0.018}_{-0.017}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.248^{+0.043}_{-0.049}$	$\sigma_8(0.61)$	$0.586^{+0.026}_{-0.024}$
A_{100}^{dustTE}	$0.115^{+0.097}_{-0.096}$	Age/Gyr	$13.96^{+0.70}_{-0.74}$	$f\sigma_8(2.33)$	$0.295^{+0.014}_{-0.013}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.075}$	z_*	$1089.8^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.304^{+0.015}_{-0.014}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$145.9^{+6.8}_{-7.1}$	f_{2000}^{143}	29^{+8}_{-8}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.0415^{+0.0023}_{-0.0023}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.01^{+0.62}_{-0.66}$	f_{2000}^{217}	$106.6^{+5.3}_{-5.3}$
A_{217}^{dustTE}	$2.09^{+0.69}_{-0.69}$	z_{drag}	$1059.5^{+2.1}_{-2.1}$	χ_{small}^2	$397.0 (\nu: 1.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$148.6^{+7.0}_{-7.3}$	χ_{lowl}^2	$24.3 (\nu: 1.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1397^{+0.0066}_{-0.0058}$	χ_{plik}^2	$2360.1 (\nu: 18.9)$
H_0	$66.3^{+5.0}_{-4.3}$	$100\theta_{\text{D}}$	$0.1606^{+0.0012}_{-0.0012}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{Λ}	$0.679^{+0.027}_{-0.028}$	z_{eq}	3422^{+110}_{-110}	χ_{CMB}^2	$2781.4 (\nu: 18.3)$

$$\bar{\chi}_{\text{eff}}^2 = 2792.90; R - 1 = 0.01223$$

11.14 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00048}_{-0.00048}$	$\Omega_{\mathrm{m}}h^3$	$0.096^{+0.014}_{-0.012}$	$D_{\mathrm{M}}(0.15)$	643^{+37}_{-36}
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.013}_{-0.011}$	σ_8	$0.808^{+0.032}_{-0.032}$	$H(0.38)$	$82.8^{+4.5}_{-4.2}$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0030}_{-0.0031}$	S_8	$0.824^{+0.036}_{-0.039}$	$D_{\mathrm{M}}(0.38)$	1534^{+86}_{-84}
τ	$0.056^{+0.019}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.020}_{-0.021}$	$H(0.51)$	$89.5^{+4.7}_{-4.4}$
N_{eff}	$3.01^{+0.78}_{-0.70}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.024}_{-0.024}$	$D_{\mathrm{M}}(0.51)$	1987^{+110}_{-110}
Y_{P}	$0.244^{+0.043}_{-0.050}$	$\sigma_8/h^{0.5}$	$0.984^{+0.027}_{-0.028}$	$H(0.61)$	$95.1^{+4.8}_{-4.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.049}_{-0.041}$	$r_{\mathrm{drag}}h$	$99.6^{+2.2}_{-2.2}$	$D_{\mathrm{M}}(0.61)$	2312^{+130}_{-120}
n_{s}	$0.965^{+0.017}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.066}_{-0.062}$	$H(2.33)$	$236^{+11}_{-9.9}$
y_{cal}	$1.0007^{+0.0061}_{-0.0063}$	z_{re}	< 9.54	$D_{\mathrm{M}}(2.33)$	5778^{+280}_{-280}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.084}$	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.020}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.877^{+0.049}_{-0.051}$	$\sigma_8(0.15)$	$0.747^{+0.031}_{-0.030}$
A_{143}^{tSZ}	> 1.04	D_{40}	1230^{+38}_{-37}	$f\sigma_8(0.38)$	$0.474^{+0.019}_{-0.019}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5738^{+94}_{-99}	$\sigma_8(0.38)$	$0.662^{+0.028}_{-0.027}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-35}	$f\sigma_8(0.51)$	$0.473^{+0.018}_{-0.019}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.619^{+0.026}_{-0.026}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+4.6}_{-4.7}$	$f\sigma_8(0.61)$	$0.468^{+0.018}_{-0.018}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.017}_{-0.018}$	$\sigma_8(0.61)$	$0.589^{+0.025}_{-0.025}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.6}$	Y_{P}	$0.244^{+0.043}_{-0.050}$	$f\sigma_8(2.33)$	$0.297^{+0.013}_{-0.013}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.246^{+0.043}_{-0.050}$	$\sigma_8(2.33)$	$0.306^{+0.014}_{-0.013}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+9.5}_{-8.4}$	Age/Gyr	$13.83^{+0.67}_{-0.66}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.7^{+1.1}_{-1.1}$	$f_{2000}^{143\times 217}$	32^{+6}_{-6}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.098}_{-0.094}$	r_*	$145.0^{+6.9}_{-6.8}$	f_{2000}^{217}	$106.7^{+5.3}_{-5.4}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.076}$	$100\theta_*$	$1.0413^{+0.0023}_{-0.0023}$	χ_{simall}^2	$397.3 (\nu: 2.1)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.63}_{-0.62}$	χ_{lowl}^2	$23.4 (\nu: 0.7)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.8^{+1.9}_{-2.0}$	χ_{plik}^2	$2361.0 (\nu: 18.7)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$147.7^{+7.0}_{-6.9}$	$\chi_{6\mathrm{DF}}^2$	$0.068 (\nu: 0.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.67}_{-0.66}$	k_{D}	$0.1405^{+0.0065}_{-0.0059}$	χ_{MGS}^2	$1.23 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.1 (\nu: 1.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0018}$	z_{eq}	3389^{+84}_{-82}	χ_{prior}^2	$11.6 (\nu: 10.3)$
H_0	$67.4^{+4.1}_{-3.8}$	k_{eq}	$0.01031^{+0.00041}_{-0.00039}$	χ_{BAO}^2	$6.3 (\nu: 0.9)$
Ω_{Λ}	$0.688^{+0.018}_{-0.019}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.014}$	χ_{CMB}^2	$2781.7 (\nu: 17.7)$
Ω_{m}	$0.312^{+0.019}_{-0.018}$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0072}_{-0.0072}$		
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.013}_{-0.011}$	$H(0.15)$	$72.7^{+4.2}_{-3.9}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2799.64; R - 1 = 0.02640$$

11.15 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02225^{+0.00056}_{-0.00053}$	$\Omega_{\mathrm{m}} h^2$	$0.140^{+0.013}_{-0.010}$	$100\theta_{\mathrm{s,eq}}$	$0.4476^{+0.0096}_{-0.0091}$
$\Omega_{\mathrm{c}} h^2$	$0.117^{+0.012}_{-0.010}$	$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.015}_{-0.012}$	$H(0.15)$	$71.4^{+4.9}_{-4.3}$
$100\theta_{\mathrm{MC}}$	$1.0415^{+0.0029}_{-0.0031}$	σ_8	$0.804^{+0.030}_{-0.027}$	$D_{\mathrm{M}}(0.15)$	656^{+43}_{-44}
τ	$0.055^{+0.018}_{-0.013}$	S_8	$0.831^{+0.034}_{-0.034}$	$H(0.38)$	$81.5^{+5.0}_{-4.4}$
N_{eff}	$2.85^{+0.82}_{-0.68}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1561^{+98}_{-100}
Y_{P}	$0.248^{+0.042}_{-0.049}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.020}$	$H(0.51)$	$88.3^{+5.1}_{-4.5}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.045}_{-0.036}$	$\sigma_8/h^{0.5}$	$0.989^{+0.024}_{-0.024}$	$D_{\mathrm{M}}(0.51)$	2021^{+120}_{-130}
n_{s}	$0.959^{+0.021}_{-0.021}$	$r_{\mathrm{drag}} h$	$98.5^{+3.1}_{-2.9}$	$H(0.61)$	$93.9^{+5.3}_{-4.5}$
y_{cal}	$1.0006^{+0.0063}_{-0.0061}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.061}_{-0.061}$	$D_{\mathrm{M}}(0.61)$	2351^{+140}_{-140}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.34	$H(2.33)$	$234^{+11}_{-9.1}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.087^{+0.095}_{-0.075}$	$D_{\mathrm{M}}(2.33)$	5850^{+290}_{-310}
A_{143}^{tSZ}	> 0.957	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.048}_{-0.049}$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.018}$
A_{100}^{PS}	256^{+70}_{-70}	D_{40}	1238^{+40}_{-39}	$\sigma_8(0.15)$	$0.742^{+0.029}_{-0.027}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5734^{+96}_{-97}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2537^{+34}_{-33}	$\sigma_8(0.38)$	$0.657^{+0.027}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.473^{+0.015}_{-0.015}$
A^{kSZ}	—	D_{2000}	$231.5^{+4.6}_{-4.7}$	$\sigma_8(0.51)$	$0.614^{+0.026}_{-0.024}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.6}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.021}_{-0.021}$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.015}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	Y_{P}	$0.248^{+0.042}_{-0.049}$	$\sigma_8(0.61)$	$0.584^{+0.025}_{-0.024}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.6}_{-8.9}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.249^{+0.043}_{-0.049}$	$f\sigma_8(2.33)$	$0.294^{+0.013}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	Age/Gyr	$14.00^{+0.69}_{-0.74}$	$\sigma_8(2.33)$	$0.303^{+0.015}_{-0.013}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.098}_{-0.095}$	z_*	$1089.8^{+1.1}_{-1.1}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.078}_{-0.075}$	r_*	$146.4^{+6.5}_{-7.0}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.0417^{+0.0023}_{-0.0023}$	f_{2000}^{217}	$106.5^{+5.3}_{-5.2}$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.05^{+0.59}_{-0.65}$	$\chi_{\mathrm{lensing}}^2$	$9.00 (\nu: 0.3)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.21}$	z_{drag}	$1059.5^{+2.1}_{-2.1}$	χ_{simall}^2	$396.9 (\nu: 1.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.09^{+0.69}_{-0.68}$	r_{drag}	$149.1^{+6.7}_{-7.3}$	χ_{lowl}^2	$24.3 (\nu: 1.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1393^{+0.0067}_{-0.0057}$	χ_{plik}^2	$2359.7 (\nu: 17.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	$100\theta_{\mathrm{D}}$	$0.1605^{+0.0012}_{-0.0012}$	χ_{prior}^2	$11.4 (\nu: 10.0)$
H_0	$66.1^{+4.8}_{-4.2}$	z_{eq}	3423^{+100}_{-110}	χ_{CMB}^2	$2789.9 (\nu: 18.5)$
Ω_{Λ}	$0.679^{+0.025}_{-0.025}$	k_{eq}	$0.01030^{+0.00038}_{-0.00034}$		
Ω_{m}	$0.321^{+0.025}_{-0.025}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.019}_{-0.018}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2801.36; R - 1 = 0.01489$$

11.16 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02238^{+0.00049}_{-0.00049}$	$\Omega_{\mathrm{m}}h^3$	$0.095^{+0.014}_{-0.012}$	$D_{\mathrm{M}}(0.15)$	645^{+36}_{-37}
$\Omega_{\mathrm{c}}h^2$	$0.118^{+0.012}_{-0.011}$	σ_8	$0.807^{+0.029}_{-0.028}$	$H(0.38)$	$82.6^{+4.5}_{-4.1}$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0029}_{-0.0029}$	S_8	$0.824^{+0.029}_{-0.029}$	$D_{\mathrm{M}}(0.38)$	1538^{+84}_{-86}
τ	$0.057^{+0.018}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.016}_{-0.016}$	$H(0.51)$	$89.3^{+4.7}_{-4.2}$
N_{eff}	$2.97^{+0.77}_{-0.67}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.020}_{-0.020}$	$D_{\mathrm{M}}(0.51)$	1993^{+110}_{-110}
Y_{P}	$0.245^{+0.042}_{-0.050}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.022}$	$H(0.61)$	$94.9^{+4.8}_{-4.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.044}_{-0.036}$	$r_{\mathrm{drag}}h$	$99.5^{+2.2}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2318^{+120}_{-120}
n_{s}	$0.964^{+0.018}_{-0.018}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.054}_{-0.052}$	$H(2.33)$	$235^{+10}_{-9.3}$
y_{cal}	$1.0008^{+0.0062}_{-0.0063}$	z_{re}	< 9.47	$D_{\mathrm{M}}(2.33)$	5791^{+270}_{-280}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.101^{+0.094}_{-0.075}$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.875^{+0.045}_{-0.048}$	$\sigma_8(0.15)$	$0.746^{+0.028}_{-0.027}$
A_{143}^{tSZ}	> 1.02	D_{40}	1231^{+36}_{-35}	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5740^{+94}_{-99}	$\sigma_8(0.38)$	$0.661^{+0.025}_{-0.024}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-33}	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.619^{+0.024}_{-0.023}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.5}_{-4.8}$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.015}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.018}_{-0.018}$	$\sigma_8(0.61)$	$0.589^{+0.023}_{-0.022}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	Y_{P}	$0.245^{+0.042}_{-0.050}$	$f\sigma_8(2.33)$	$0.297^{+0.012}_{-0.012}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.247^{+0.042}_{-0.050}$	$\sigma_8(2.33)$	$0.306^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+9.2}_{-8.7}$	Age/Gyr	$13.86^{+0.64}_{-0.66}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.7^{+1.1}_{-1.1}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-6}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.098}_{-0.094}$	r_*	$145.3^{+6.6}_{-6.5}$	f_{2000}^{217}	$106.6^{+5.3}_{-5.4}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.076}_{-0.076}$	$100\theta_*$	$1.0414^{+0.0022}_{-0.0023}$	$\chi_{\mathrm{lensing}}^2$	$9.03 (\nu: 0.2)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.60}_{-0.60}$	χ_{simall}^2	$397.3 (\nu: 1.9)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.8^{+2.0}_{-2.0}$	χ_{lowl}^2	$23.5 (\nu: 0.7)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$148.0^{+6.7}_{-6.7}$	χ_{plik}^2	$2360.5 (\nu: 17.8)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.67}_{-0.67}$	k_{D}	$0.1402^{+0.0063}_{-0.0056}$	$\chi_{6\mathrm{DF}}^2$	$0.072 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0012}$	χ_{MGS}^2	$1.19 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	z_{eq}	3392^{+82}_{-80}	$\chi_{\mathrm{DR12BAO}}^2$	$5.1 (\nu: 1.4)$
H_0	$67.2^{+4.2}_{-3.7}$	k_{eq}	$0.01030^{+0.00037}_{-0.00036}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_{Λ}	$0.688^{+0.018}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.014}$	χ_{CMB}^2	$2790.3 (\nu: 18.1)$
Ω_{m}	$0.312^{+0.018}_{-0.018}$	$100\theta_{\mathrm{s,eq}}$	$0.4504^{+0.0072}_{-0.0070}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
$\Omega_{\mathrm{m}}h^2$	$0.141^{+0.012}_{-0.011}$	$H(0.15)$	$72.5^{+4.3}_{-3.8}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2808.31; R - 1 = 0.02301$$

11.17 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02219	$0.02222^{+0.00061}_{-0.00058} \quad (-0.2\sigma)$	$\Omega_{\mathrm{m}}h^3$	0.0905	$0.091^{+0.016}_{-0.013} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8098	$0.811^{+0.020}_{-0.020} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.1151	$0.116^{+0.014}_{-0.011} \quad (-0.5\sigma)$	σ_8	0.7983	$0.800^{+0.035}_{-0.031} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4477	$0.448^{+0.010}_{-0.010} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04185	$1.0419^{+0.0034}_{-0.0037} \quad (+0.5\sigma)$	S_8	0.8246	$0.824^{+0.043}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	70.9	$71.2^{+5.4}_{-4.7} \quad (-0.2\sigma)$
τ	0.0527	$0.053^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4516	$0.452^{+0.024}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	659.9	$657^{+47}_{-48} \quad (+0.2\sigma)$
N_{eff}	2.74	$2.78^{+0.91}_{-0.74} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6004	$0.601^{+0.025}_{-0.024} \quad (-0.6\sigma)$	$H(0.38)$	81.0	$81.3^{+5.5}_{-4.8} \quad (-0.2\sigma)$
Y_{P}	0.255	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\sigma_8/h^{0.5}$	0.9853	$0.985^{+0.031}_{-0.029} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	1572	$1566^{+110}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.029	$3.031^{+0.051}_{-0.051} \quad (-0.4\sigma)$	$r_{\mathrm{drag}}h$	98.58	$98.8^{+3.4}_{-3.5} \quad (+0.3\sigma)$	$H(0.51)$	87.6	$88.0^{+5.6}_{-4.9} \quad (-0.3\sigma)$
n_{s}	0.9609	$0.962^{+0.025}_{-0.025} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.440	$2.438^{+0.082}_{-0.075} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	2034	$2027^{+130}_{-140} \quad (+0.2\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0066} \quad (-0.1\sigma)$	z_{re}	7.50	$7.5^{+2.1}_{-2.5} \quad (-0.1\sigma)$	$H(0.61)$	93.2	$93.5^{+5.8}_{-5.0} \quad (-0.3\sigma)$
A_{100}^{PS}	232	$240^{+70}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	2.069	$2.07^{+0.11}_{-0.10} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	2366	$2358^{+150}_{-160} \quad (+0.2\sigma)$
A_{143}^{PS}	44.4	$40^{+20}_{-20} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.862	$1.865^{+0.054}_{-0.053} \quad (-0.4\sigma)$	$H(2.33)$	232.2	$233^{+12}_{-9.9} \quad (-0.4\sigma)$
A_{217}^{PS}	106.8	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{40}	1228.2	$1228^{+48}_{-45} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	5889	$5872^{+320}_{-340} \quad (+0.3\sigma)$
A_{217}^{CIB}	39.8	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5711	$5715^{+100}_{-99} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4555	$0.455^{+0.022}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{tSZ}	5.46	$< 8.80 \quad (-0.9\sigma)$	D_{810}	2533.2	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7368	$0.738^{+0.033}_{-0.030} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.731	$0.66^{+0.31}_{-0.32}$	D_{1420}	816.8	$816^{+13}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	0.4716	$0.472^{+0.020}_{-0.019} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.65	—	D_{2000}	231.0	$230.4^{+6.1}_{-6.2} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	0.6522	$0.654^{+0.031}_{-0.028} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.62	—	$n_{\mathrm{s},0.002}$	0.9609	$0.962^{+0.025}_{-0.025} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	0.4693	$0.470^{+0.019}_{-0.018} \quad (-0.6\sigma)$
A^{kSZ}	1.6	—	Y_{P}	0.255	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\sigma_8(0.51)$	0.6100	$0.611^{+0.029}_{-0.027} \quad (-0.4\sigma)$
A_{100}^{dust}	0.99	$1.01^{+0.51}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.256	$0.258^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	0.4637	$0.464^{+0.019}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{dust}	0.963	$0.96^{+0.45}_{-0.45}$	Age/Gyr	14.10	$14.06^{+0.76}_{-0.80} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	0.5802	$0.582^{+0.028}_{-0.026} \quad (-0.4\sigma)$
A_{217}^{dust}	0.978	$0.97^{+0.27}_{-0.26}$	z_*	1089.96	$1090.1^{+1.6}_{-1.5} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.2922	$0.293^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.046	$1.02^{+0.43}_{-0.41}$	r_*	147.4	$147.1^{+7.3}_{-7.9} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3009	$0.302^{+0.016}_{-0.015} \quad (-0.3\sigma)$
c_{100}	0.99771	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04190	$1.0419^{+0.0025}_{-0.0026} \quad (+0.4\sigma)$	f_{2000}^{143}	29.0	$30^{+10}_{-10} \quad (+0.3\sigma)$
c_{217}	1.00096	$1.0011^{+0.0042}_{-0.0042} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	14.15	$14.12^{+0.67}_{-0.73} \quad (+0.4\sigma)$	f_{2000}^{217}	106.2	$107.0^{+7.0}_{-6.7} \quad (+0.2\sigma)$
c_{TE}	0.9966	$0.997^{+0.014}_{-0.014}$	z_{drag}	1059.36	$1059.5^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	31.7	$32^{+8}_{-8} \quad (+0.3\sigma)$
c_{EE}	0.9917	$0.993^{+0.018}_{-0.017}$	r_{drag}	150.2	$149.8^{+7.5}_{-8.1} \quad (+0.4\sigma)$	χ_{small}^2	395.87	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	65.6	$65.9^{+5.3}_{-4.7} \quad (-0.2\sigma)$	k_{D}	0.1382	$0.1384^{+0.0078}_{-0.0063} \quad (-0.5\sigma)$	χ_{lowl}^2	23.44	$23.5 \quad (\nu: 1.2) \quad (-0.5\sigma)$
Ω_{Λ}	0.6799	$0.681^{+0.027}_{-0.031} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	0.16070	$0.1609^{+0.0019}_{-0.0018} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.8	$11515.3 \quad (\nu: 18.4)$
Ω_{m}	0.3201	$0.319^{+0.031}_{-0.027} \quad (-0.2\sigma)$	z_{eq}	3422	$3418^{+120}_{-110} \quad (-0.1\sigma)$	χ_{prior}^2	1.9	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.1379	$0.139^{+0.014}_{-0.011} \quad (-0.5\sigma)$	k_{eq}	0.010225	$0.01024^{+0.00043}_{-0.00038} \quad (-0.6\sigma)$	χ_{CMB}^2	11918.1	$11935.7 \quad (\nu: 19.1) \quad (+1491.5\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 11920.00$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.28$; $\bar{\chi}_{\mathrm{eff}}^2 = 11943.57$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.40$; $R - 1 = 0.00989$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ -0.16) commander_dx12.v3.2.29: 23.44 (Δ -0.82) CamSpec like_10.7HM.1400.unified: 11498.75

11.18 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00055}_{-0.00051} \quad (-0.3\sigma)$	S_8	$0.816^{+0.035}_{-0.036} \quad (-0.5\sigma)$	$H(0.38)$	$82.2^{+4.9}_{-4.1} \quad (-0.4\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.116^{+0.014}_{-0.011} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.019}_{-0.020} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1545^{+85}_{-92} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0418^{+0.0035}_{-0.0036} \quad (+0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.599^{+0.024}_{-0.024} \quad (-0.5\sigma)$	$H(0.51)$	$88.8^{+5.1}_{-4.2} \quad (-0.4\sigma)$
τ	$0.054^{+0.021}_{-0.020} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.028}_{-0.026} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$2002^{+110}_{-120} \quad (+0.3\sigma)$
N_{eff}	$2.88^{+0.87}_{-0.69} \quad (-0.4\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+2.4}_{-2.2} \quad (+0.2\sigma)$	$H(0.61)$	$94.4^{+5.3}_{-4.4} \quad (-0.4\sigma)$
Y_{P}	$0.257^{+0.055}_{-0.060} \quad (+0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.067}_{-0.066} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	$2330^{+120}_{-130} \quad (+0.3\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.036^{+0.053}_{-0.049} \quad (-0.4\sigma)$	z_{re}	$7.6^{+2.0}_{-2.1} \quad (-0.1\sigma)$	$H(2.33)$	$234^{+12}_{-9.8} \quad (-0.5\sigma)$
n_{s}	$0.967^{+0.021}_{-0.021} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.08^{+0.11}_{-0.10} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5823^{+280}_{-300} \quad (+0.4\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.869^{+0.050}_{-0.055} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.019}_{-0.019} \quad (-0.5\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.5\sigma)$	D_{40}	$1220^{+43}_{-38} \quad (-0.6\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.031}_{-0.030} \quad (-0.4\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.5\sigma)$	D_{220}	$5719^{+110}_{-100} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.470^{+0.019}_{-0.019} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.657^{+0.029}_{-0.027} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.019}_{-0.019} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.97 \quad (-0.9\sigma)$	D_{2000}	$230.1^{+5.9}_{-6.2} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.615^{+0.027}_{-0.025} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.021}_{-0.021} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.019}_{-0.018} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.257^{+0.055}_{-0.060} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.585^{+0.026}_{-0.024} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.258^{+0.055}_{-0.061} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.014}_{-0.012} \quad (-0.4\sigma)$
A^{kSZ}	—	Age/Gyr	$13.94^{+0.68}_{-0.73} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.304^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	z_*	$1090.1^{+1.5}_{-1.6} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	r_*	$146.3^{+6.9}_{-7.4} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.3^{+6.6}_{-6.6} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	$1.0417^{+0.0024}_{-0.0025} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-7} \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.04^{+0.63}_{-0.68} \quad (+0.4\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.9^{+2.4}_{-2.3} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.7) \quad (-0.5\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$149.0^{+7.1}_{-7.6} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11516.0 \quad (\nu: 18.2)$
c_{TE}	$0.998^{+0.014}_{-0.013}$	k_{D}	$0.1390^{+0.0074}_{-0.0061} \quad (-0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.058 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{EE}	$0.994^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0017} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.32 \quad (\nu: 0.1) \quad (+0.2\sigma)$
H_0	$67.0^{+4.4}_{-3.7} \quad (-0.3\sigma)$	z_{eq}	$3390^{+87}_{-88} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{Λ}	$0.689^{+0.019}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01023^{+0.00044}_{-0.00040} \quad (-0.5\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.015}_{-0.014} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.139^{+0.014}_{-0.011} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4508^{+0.0077}_{-0.0073} \quad (+0.1\sigma)$	χ_{CMB}^2	$11935.7 \quad (\nu: 18.6) \quad (+1519.9\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.093^{+0.015}_{-0.012} \quad (-0.4\sigma)$	$H(0.15)$	$72.2^{+4.5}_{-3.8} \quad (-0.3\sigma)$		
σ_8	$0.802^{+0.033}_{-0.032} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$648^{+37}_{-39} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.72; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.85; R - 1 = 0.01974$$

11.19 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02220^{+0.00062}_{-0.00057} \quad (-0.2\sigma)$	σ_8	$0.800^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$H(0.15)$	$71.0^{+5.2}_{-4.7} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.116^{+0.013}_{-0.011} \quad (-0.3\sigma)$	S_8	$0.827^{+0.034}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$659^{+48}_{-47} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0419^{+0.0034}_{-0.0036} \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$81.1^{+5.2}_{-4.8} \quad (-0.2\sigma)$
τ	$0.054^{+0.021}_{-0.020} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.020}_{-0.020} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1570^{+110}_{-110} \quad (+0.2\sigma)$
N_{eff}	$2.76^{+0.86}_{-0.73} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.025}_{-0.024} \quad (-0.1\sigma)$	$H(0.51)$	$87.8^{+5.4}_{-4.9} \quad (-0.2\sigma)$
Y_{P}	$0.255^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$r_{\mathrm{drag}} h$	$98.6^{+3.4}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2033^{+140}_{-130} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.046}_{-0.044} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.067}_{-0.065} \quad (-0.4\sigma)$	$H(0.61)$	$93.4^{+5.5}_{-5.1} \quad (-0.2\sigma)$
n_{s}	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	z_{re}	$7.6^{+2.0}_{-2.1} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2364^{+160}_{-150} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0063}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.075^{+0.098}_{-0.090} \quad (-0.2\sigma)$	$H(2.33)$	$233^{+11}_{-9.6} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.864^{+0.051}_{-0.052} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5883^{+330}_{-320} \quad (+0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.7\sigma)$	D_{40}	$1231^{+44}_{-42} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5717^{+100}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.030}_{-0.029} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-14} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.654^{+0.028}_{-0.027} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{2000}	$230.6^{+5.8}_{-6.1} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.612^{+0.027}_{-0.026} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.255^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.257^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.582^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	Age/Gyr	$14.08^{+0.78}_{-0.77} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.293^{+0.014}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1090.0^{+1.5}_{-1.6} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.015}_{-0.014} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$147.2^{+7.1}_{-7.5} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.42}_{-0.42}$	$100\theta_*$	$1.0419^{+0.0025}_{-0.0025} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.8^{+6.7}_{-6.7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.13^{+0.65}_{-0.69} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.5^{+2.5}_{-2.5} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.05 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	r_{drag}	$150.0^{+7.3}_{-7.7} \quad (+0.3\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.3) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.017}_{-0.017}$	k_{D}	$0.1383^{+0.0072}_{-0.0064} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.8 \quad (\nu: 1.2) \quad (-0.4\sigma)$
H_0	$65.7^{+5.2}_{-4.7} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0018}_{-0.0018} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 17.3)$
Ω_{Λ}	$0.679^{+0.028}_{-0.029} \quad (+0.1\sigma)$	z_{eq}	$3424^{+110}_{-110} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
Ω_{m}	$0.321^{+0.029}_{-0.028} \quad (-0.1\sigma)$	k_{eq}	$0.01024^{+0.00040}_{-0.00035} \quad (-0.4\sigma)$	χ_{CMB}^2	$11944.4 \quad (\nu: 18.8) \quad (+1484.3\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.138^{+0.013}_{-0.011} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.021}_{-0.020} \quad (+0.0\sigma)$		
$\Omega_{\mathrm{m}} h^3$	$0.091^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.011}_{-0.0099} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.22; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.58; R - 1 = 0.01363$$

11.20 base_nnu_yhe_CamSpecHM_TTTEE_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00054}_{-0.00051} \quad (-0.3\sigma)$	S_8	$0.820^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$H(0.38)$	$82.1^{+4.7}_{-4.0} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.116^{+0.013}_{-0.011} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1548^{+83}_{-91} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0417^{+0.0035}_{-0.0036} \quad (+0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$88.7^{+4.9}_{-4.1} \quad (-0.3\sigma)$
τ	$0.056^{+0.020}_{-0.019} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2005^{+100}_{-120} \quad (+0.3\sigma)$
N_{eff}	$2.88^{+0.79}_{-0.68} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.5^{+2.3}_{-2.2} \quad (+0.1\sigma)$	$H(0.61)$	$94.3^{+5.1}_{-4.3} \quad (-0.3\sigma)$
Y_{P}	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.056}_{-0.055} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2333^{+120}_{-130} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.041}_{-0.041} \quad (-0.2\sigma)$	z_{re}	$7.8^{+1.9}_{-2.0} \quad (-0.0\sigma)$	$H(2.33)$	$234^{+11}_{-9.7} \quad (-0.4\sigma)$
n_{s}	$0.966^{+0.020}_{-0.021} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.091^{+0.088}_{-0.084} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5828^{+280}_{-290} \quad (+0.3\sigma)$
y_{cal}	$1.0008^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.047}_{-0.049} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.016}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.5\sigma)$	D_{40}	$1224^{+41}_{-39} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.027}_{-0.027} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5724^{+110}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.026}_{-0.025} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.94 \quad (-0.9\sigma)$	D_{2000}	$230.3^{+5.8}_{-6.4} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.025}_{-0.023} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.020}_{-0.021} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.024}_{-0.023} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.257^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	Age/Gyr	$13.95^{+0.66}_{-0.70} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.013} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.52}$	z_*	$1090.0^{+1.5}_{-1.6} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.45}$	r_*	$146.3^{+6.8}_{-7.0} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.2^{+6.9}_{-6.8} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.0417^{+0.0024}_{-0.0025} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.04^{+0.62}_{-0.65} \quad (+0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.27 \quad (\nu: 0.4) \quad (+0.3\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0029} \quad (-3.5\sigma)$	z_{drag}	$1059.9^{+2.3}_{-2.4} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.7\sigma)$	r_{drag}	$149.0^{+6.9}_{-7.3} \quad (+0.4\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.8) \quad (-0.5\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	k_{D}	$0.1390^{+0.0069}_{-0.0060} \quad (-0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.3 \quad (\nu: 17.8)$
c_{EE}	$0.993^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0018} \quad (+0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.068 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$66.8^{+4.4}_{-3.7} \quad (-0.3\sigma)$	z_{eq}	$3395^{+85}_{-88} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.22 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{Λ}	$0.688^{+0.019}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01024^{+0.00041}_{-0.00037} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 \quad (\nu: 1.3) \quad (-0.1\sigma)$
Ω_{m}	$0.312^{+0.018}_{-0.019} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.015}_{-0.014} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.139^{+0.013}_{-0.011} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4504^{+0.0079}_{-0.0072} \quad (-0.0\sigma)$	χ_{CMB}^2	$11944.7 \quad (\nu: 19.1) \quad (+1513.5\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.015}_{-0.012} \quad (-0.3\sigma)$	$H(0.15)$	$72.1^{+4.5}_{-3.7} \quad (-0.3\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.9) \quad (-0.1\sigma)$
σ_8	$0.804^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$649^{+36}_{-40} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.81; \Delta\chi_{\mathrm{eff}}^2 = 9150.35; R - 1 = 0.01792$$

11.21 base_nnu_yhe_CamSpecHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02223^{+0.00061}_{-0.00058} \quad (-0.2\sigma)$	$\Omega_{\text{m}}h^3$	$0.092^{+0.016}_{-0.013} \quad (-0.4\sigma)$	$100\theta_{\text{eq}}$	$0.811^{+0.020}_{-0.020} \quad (+0.2\sigma)$
$\Omega_{\text{c}}h^2$	$0.116^{+0.014}_{-0.011} \quad (-0.5\sigma)$	σ_8	$0.801^{+0.034}_{-0.030} \quad (-0.5\sigma)$	$100\theta_{\text{s,eq}}$	$0.448^{+0.010}_{-0.010} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	$1.0419^{+0.0034}_{-0.0037} \quad (+0.5\sigma)$	S_8	$0.825^{+0.044}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	$71.3^{+5.4}_{-4.7} \quad (-0.2\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.452^{+0.024}_{-0.022} \quad (-0.5\sigma)$	$D_{\text{M}}(0.15)$	$657^{+48}_{-48} \quad (+0.2\sigma)$
N_{eff}	$2.78^{+0.88}_{-0.74} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.602^{+0.024}_{-0.023} \quad (-0.6\sigma)$	$H(0.38)$	$81.3^{+5.5}_{-4.8} \quad (-0.3\sigma)$
Y_{P}	$0.257^{+0.053}_{-0.060} \quad (+0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.030}_{-0.028} \quad (-0.4\sigma)$	$D_{\text{M}}(0.38)$	$1565^{+110}_{-110} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.034^{+0.048}_{-0.040} \quad (-0.4\sigma)$	$r_{\text{drag}}h$	$98.8^{+3.4}_{-3.4} \quad (+0.3\sigma)$	$H(0.51)$	$88.0^{+5.6}_{-4.9} \quad (-0.3\sigma)$
n_{s}	$0.962^{+0.025}_{-0.024} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.082}_{-0.075} \quad (-0.6\sigma)$	$D_{\text{M}}(0.51)$	$2026^{+140}_{-140} \quad (+0.2\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0066} \quad (-0.1\sigma)$	z_{re}	$< 9.47 \quad (-0.1\sigma)$	$H(0.61)$	$93.6^{+5.8}_{-5.0} \quad (-0.3\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	$2.08^{+0.10}_{-0.082} \quad (-0.4\sigma)$	$D_{\text{M}}(0.61)$	$2357^{+150}_{-160} \quad (+0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.865^{+0.054}_{-0.054} \quad (-0.5\sigma)$	$H(2.33)$	$233^{+12}_{-10} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{40}	$1227^{+47}_{-45} \quad (-0.6\sigma)$	$D_{\text{M}}(2.33)$	$5871^{+320}_{-330} \quad (+0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5715^{+100}_{-98} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.022}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.9\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.740^{+0.032}_{-0.029} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.32}$	D_{1420}	$816^{+13}_{-14} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.019}_{-0.018} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$230.4^{+6.0}_{-6.2} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	$0.655^{+0.030}_{-0.027} \quad (-0.4\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s},0.002}$	$0.962^{+0.025}_{-0.024} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.019}_{-0.018} \quad (-0.6\sigma)$
A^{kSZ}	—	Y_{P}	$0.257^{+0.053}_{-0.060} \quad (+0.6\sigma)$	$\sigma_8(0.51)$	$0.613^{+0.029}_{-0.025} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	$0.258^{+0.053}_{-0.060} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.018}_{-0.017} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	Age/Gyr	$14.05^{+0.77}_{-0.79} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.583^{+0.028}_{-0.025} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1090.1^{+1.6}_{-1.6} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.015}_{-0.013} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.43}_{-0.41}$	r_*	$147.1^{+7.3}_{-7.8} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.016}_{-0.014} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.0419^{+0.0025}_{-0.0026} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+10}_{-9} \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0042} \quad (+4.7\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.11^{+0.67}_{-0.72} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.0^{+7.1}_{-6.7} \quad (+0.2\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.014}$	z_{drag}	$1059.6^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-8} \quad (+0.3\sigma)$
c_{EE}	$0.993^{+0.018}_{-0.017}$	r_{drag}	$149.8^{+7.5}_{-8.0} \quad (+0.4\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	$66.0^{+5.3}_{-4.7} \quad (-0.2\sigma)$	k_{D}	$0.1384^{+0.0075}_{-0.0063} \quad (-0.5\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 1.2) \quad (-0.5\sigma)$
Ω_{Λ}	$0.682^{+0.027}_{-0.031} \quad (+0.2\sigma)$	$100\theta_{\text{D}}$	$0.1609^{+0.0019}_{-0.0018} \quad (+0.7\sigma)$	χ_{CamSpec}^2	$11515.2 \quad (\nu: 18.5)$
Ω_{m}	$0.318^{+0.031}_{-0.027} \quad (-0.2\sigma)$	z_{eq}	$3417^{+120}_{-110} \quad (-0.1\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\text{m}}h^2$	$0.139^{+0.014}_{-0.011} \quad (-0.5\sigma)$	k_{eq}	$0.01024^{+0.00043}_{-0.00038} \quad (-0.6\sigma)$	χ_{CMB}^2	$11935.4 \quad (\nu: 18.9) \quad (+1511.4\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11943.30; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.41; R - 1 = 0.00937$$

11.22 base_nnu_yhe_CamSpecHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00054}_{-0.00051} \quad (-0.3\sigma)$	S_8	$0.817^{+0.035}_{-0.035} \quad (-0.5\sigma)$	$H(0.38)$	$82.2^{+4.9}_{-4.0} \quad (-0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.116^{+0.014}_{-0.011} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.019}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1545^{+84}_{-92} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0418^{+0.0035}_{-0.0037} \quad (+0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.599^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$H(0.51)$	$88.8^{+5.1}_{-4.2} \quad (-0.4\sigma)$
τ	$0.055^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.028}_{-0.024} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$2002^{+110}_{-120} \quad (+0.3\sigma)$
N_{eff}	$2.88^{+0.87}_{-0.68} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.4}_{-2.2} \quad (+0.2\sigma)$	$H(0.61)$	$94.4^{+5.3}_{-4.5} \quad (-0.4\sigma)$
Y_{P}	$0.257^{+0.054}_{-0.061} \quad (+0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.065}_{-0.062} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	$2329^{+120}_{-130} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.051}_{-0.038} \quad (-0.4\sigma)$	z_{re}	$< 9.47 \quad (-0.1\sigma)$	$H(2.33)$	$234^{+12}_{-9.9} \quad (-0.5\sigma)$
n_{s}	$0.967^{+0.021}_{-0.021} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.079} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5823^{+280}_{-300} \quad (+0.4\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.869^{+0.050}_{-0.054} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.019}_{-0.018} \quad (-0.5\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.5\sigma)$	D_{40}	$1220^{+43}_{-38} \quad (-0.6\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.031}_{-0.029} \quad (-0.4\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5719^{+110}_{-99} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.019}_{-0.018} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2534^{+35}_{-37} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.028}_{-0.026} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-14} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.019}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.92 \quad (-0.9\sigma)$	D_{2000}	$230.1^{+5.9}_{-6.2} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.027}_{-0.025} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.021}_{-0.021} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.019}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.257^{+0.054}_{-0.061} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.026}_{-0.023} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.258^{+0.055}_{-0.061} \quad (+0.7\sigma)$	$f\sigma_8(2.33)$	$0.295^{+0.013}_{-0.012} \quad (-0.4\sigma)$
A^{kSZ}	—	Age/Gyr	$13.94^{+0.67}_{-0.73} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	z_*	$1090.0^{+1.5}_{-1.6} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.45}$	r_*	$146.3^{+6.9}_{-7.5} \quad (+0.5\sigma)$	f_{2000}^{217}	$107.3^{+6.8}_{-6.6} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	$1.0417^{+0.0024}_{-0.0026} \quad (+0.4\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-7} \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.04^{+0.63}_{-0.69} \quad (+0.5\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.6) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0029} \quad (-3.5\sigma)$	z_{drag}	$1059.9^{+2.5}_{-2.4} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.8 \quad (\nu: 0.7) \quad (-0.5\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$149.0^{+7.1}_{-7.6} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.8 \quad (\nu: 18.0)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	k_{D}	$0.1390^{+0.0074}_{-0.0060} \quad (-0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{EE}	$0.994^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0017} \quad (+0.8\sigma)$	χ_{MGS}^2	$1.33 \quad (\nu: 0.1) \quad (+0.2\sigma)$
H_0	$67.0^{+4.5}_{-3.7} \quad (-0.3\sigma)$	z_{eq}	$3389^{+86}_{-88} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{Λ}	$0.689^{+0.019}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01023^{+0.00044}_{-0.00039} \quad (-0.5\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.015}_{-0.014} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.139^{+0.014}_{-0.011} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0077}_{-0.0073} \quad (+0.1\sigma)$	χ_{CMB}^2	$11935.5 \quad (\nu: 18.2) \quad (+1536.4\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.016}_{-0.012} \quad (-0.4\sigma)$	$H(0.15)$	$72.2^{+4.5}_{-3.8} \quad (-0.3\sigma)$		
σ_8	$0.803^{+0.033}_{-0.031} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$648^{+37}_{-40} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.50; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.86; R - 1 = 0.02228$$

11.23 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02221^{+0.00062}_{-0.00057} \quad (-0.2\sigma)$	σ_8	$0.801^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$H(0.15)$	$71.1^{+5.2}_{-4.7} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.116^{+0.013}_{-0.011} \quad (-0.3\sigma)$	S_8	$0.827^{+0.034}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$659^{+48}_{-47} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0419^{+0.0034}_{-0.0037} \quad (+0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$81.1^{+5.2}_{-4.7} \quad (-0.2\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1569^{+110}_{-110} \quad (+0.2\sigma)$
N_{eff}	$2.76^{+0.87}_{-0.73} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.025}_{-0.023} \quad (-0.1\sigma)$	$H(0.51)$	$87.8^{+5.4}_{-4.9} \quad (-0.2\sigma)$
Y_{P}	$0.256^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$r_{\mathrm{drag}}h$	$98.6^{+3.4}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2031^{+140}_{-130} \quad (+0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.035^{+0.044}_{-0.039} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.067}_{-0.064} \quad (-0.4\sigma)$	$H(0.61)$	$93.4^{+5.5}_{-5.1} \quad (-0.3\sigma)$
n_{s}	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	z_{re}	$< 9.38 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2363^{+150}_{-150} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0063}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.080^{+0.094}_{-0.080} \quad (-0.2\sigma)$	$H(2.33)$	$233^{+11}_{-9.6} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+70}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.864^{+0.051}_{-0.053} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5881^{+330}_{-320} \quad (+0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.7\sigma)$	D_{40}	$1230^{+43}_{-42} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5717^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.029}_{-0.027} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+35}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-14} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.655^{+0.028}_{-0.026} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.32}$	D_{2000}	$230.6^{+5.7}_{-6.1} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.961^{+0.024}_{-0.024} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.612^{+0.027}_{-0.025} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.256^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.257^{+0.056}_{-0.060} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.582^{+0.026}_{-0.024} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	Age/Gyr	$14.08^{+0.77}_{-0.77} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.293^{+0.014}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1090.0^{+1.6}_{-1.6} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.015}_{-0.014} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$147.2^{+7.1}_{-7.5} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.42}$	$100\theta_*$	$1.0419^{+0.0025}_{-0.0025} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.8^{+6.9}_{-6.8} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.6\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.13^{+0.65}_{-0.69} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-8} \quad (+0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.5^{+2.5}_{-2.5} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.02 \quad (\nu: 0.3) \quad (+0.0\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	r_{drag}	$150.0^{+7.4}_{-7.8} \quad (+0.3\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.017}_{-0.017}$	k_{D}	$0.1383^{+0.0072}_{-0.0064} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.7 \quad (\nu: 1.2) \quad (-0.4\sigma)$
H_0	$65.8^{+5.2}_{-4.8} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0018}_{-0.0018} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.6 \quad (\nu: 17.3)$
Ω_{Λ}	$0.680^{+0.027}_{-0.030} \quad (+0.1\sigma)$	z_{eq}	$3422^{+110}_{-110} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
Ω_{m}	$0.320^{+0.030}_{-0.027} \quad (-0.1\sigma)$	k_{eq}	$0.01024^{+0.00040}_{-0.00035} \quad (-0.4\sigma)$	χ_{CMB}^2	$11944.2 \quad (\nu: 18.4) \quad (+1506.7\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.138^{+0.013}_{-0.011} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.021}_{-0.019} \quad (+0.0\sigma)$		
$\Omega_{\mathrm{m}}h^3$	$0.091^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.011}_{-0.0099} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.01; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.66; R - 1 = 0.01202$$

11.24 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00054}_{-0.00051} \quad (-0.3\sigma)$	S_8	$0.820^{+0.029}_{-0.029} \quad (-0.3\sigma)$	$H(0.38)$	$82.1^{+4.7}_{-3.9} \quad (-0.3\sigma)$
$\Omega_c h^2$	$0.116^{+0.013}_{-0.011} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.449^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.38)$	$1548^{+82}_{-90} \quad (+0.3\sigma)$
$100\theta_{MC}$	$1.0418^{+0.0035}_{-0.0036} \quad (+0.5\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$88.7^{+4.9}_{-4.1} \quad (-0.3\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$D_M(0.51)$	$2005^{+100}_{-120} \quad (+0.3\sigma)$
N_{eff}	$2.87^{+0.79}_{-0.67} \quad (-0.3\sigma)$	$r_{\text{drag}} h$	$99.6^{+2.3}_{-2.1} \quad (+0.1\sigma)$	$H(0.61)$	$94.3^{+5.0}_{-4.4} \quad (-0.3\sigma)$
Y_P	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.055}_{-0.054} \quad (-0.4\sigma)$	$D_M(0.61)$	$2333^{+120}_{-130} \quad (+0.3\sigma)$
$\ln(10^{10} A_s)$	$3.041^{+0.041}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$< 9.50 \quad (-0.0\sigma)$	$H(2.33)$	$234^{+11}_{-9.6} \quad (-0.4\sigma)$
n_s	$0.966^{+0.020}_{-0.021} \quad (+0.3\sigma)$	$10^9 A_s$	$2.093^{+0.087}_{-0.077} \quad (-0.2\sigma)$	$D_M(2.33)$	$5828^{+280}_{-290} \quad (+0.3\sigma)$
y_{cal}	$1.0008^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.870^{+0.047}_{-0.049} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.016}_{-0.016} \quad (-0.3\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.5\sigma)$	D_{40}	$1224^{+41}_{-39} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.743^{+0.027}_{-0.026} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5724^{+110}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.025}_{-0.024} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+13}_{-14} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.94 \quad (-0.9\sigma)$	D_{2000}	$230.3^{+5.8}_{-6.4} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.024}_{-0.023} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{s,0.002}$	$0.966^{+0.020}_{-0.021} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_P	$0.256^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.024}_{-0.022} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Y_P^{BBN}	$0.258^{+0.054}_{-0.061} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	Age/Gyr	$13.95^{+0.66}_{-0.70} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.012} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	z_*	$1090.0^{+1.5}_{-1.6} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.45}$	r_*	$146.3^{+6.8}_{-7.0} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.2^{+7.0}_{-6.8} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.0417^{+0.0024}_{-0.0025} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	$14.05^{+0.62}_{-0.65} \quad (+0.4\sigma)$	χ_{lensing}^2	$9.23 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0029} \quad (-3.5\sigma)$	z_{drag}	$1059.9^{+2.3}_{-2.4} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.8) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.7\sigma)$	r_{drag}	$149.0^{+6.9}_{-7.3} \quad (+0.4\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.8) \quad (-0.5\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	k_D	$0.1390^{+0.0069}_{-0.0060} \quad (-0.5\sigma)$	χ_{CamSpec}^2	$11515.2 \quad (\nu: 17.8)$
c_{EE}	$0.993^{+0.017}_{-0.017}$	$100\theta_D$	$0.1610^{+0.0017}_{-0.0018} \quad (+0.8\sigma)$	$\chi_{6\text{DF}}^2$	$0.067 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$66.8^{+4.4}_{-3.7} \quad (-0.3\sigma)$	z_{eq}	$3394^{+85}_{-88} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.23 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_Λ	$0.688^{+0.018}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01024^{+0.00041}_{-0.00037} \quad (-0.4\sigma)$	χ_{DR12BAO}^2	$5.0 \quad (\nu: 1.2) \quad (-0.1\sigma)$
Ω_m	$0.312^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.815^{+0.015}_{-0.014} \quad (-0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^2$	$0.139^{+0.013}_{-0.011} \quad (-0.4\sigma)$	$100\theta_{s,\text{eq}}$	$0.4504^{+0.0079}_{-0.0072} \quad (-0.0\sigma)$	χ_{CMB}^2	$11944.6 \quad (\nu: 18.9) \quad (+1522.4\sigma)$
$\Omega_m h^3$	$0.093^{+0.015}_{-0.012} \quad (-0.3\sigma)$	$H(0.15)$	$72.1^{+4.5}_{-3.7} \quad (-0.3\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.8) \quad (-0.1\sigma)$
σ_8	$0.804^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$D_M(0.15)$	$649^{+36}_{-40} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11958.67; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.36; R - 1 = 0.01939$$

11.25 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02201	$0.02207^{+0.00084}_{-0.00082}$	S_8	0.843	$0.840^{+0.067}_{-0.060}$	$100\theta_{s,eq}$	0.4460	$0.448^{+0.017}_{-0.017}$
$\Omega_c h^2$	0.1185	$0.120^{+0.013}_{-0.011}$	$\sigma_8 \Omega_m^{0.5}$	0.4615	$0.460^{+0.037}_{-0.033}$	$H(0.15)$	71.0	$71.9^{+6.8}_{-6.5}$
$100\theta_{MC}$	1.04099	$1.0408^{+0.0021}_{-0.0019}$	$\sigma_8 \Omega_m^{0.25}$	0.6100	$0.610^{+0.032}_{-0.029}$	$D_M(0.15)$	659	652^{+68}_{-60}
τ	0.0515	$0.051^{+0.023}_{-0.023}$	$\sigma_8/h^{0.5}$	0.9951	$0.993^{+0.043}_{-0.041}$	$H(0.38)$	81.3	$82.1^{+6.5}_{-6.3}$
N_{eff}	2.88	$3.00^{+0.90}_{-0.84}$	$r_{drag} h$	97.6	$98.2^{+6.0}_{-6.0}$	$D_M(0.38)$	1568	1552^{+150}_{-130}
Y_P	0.2439	$0.244^{+0.011}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.465	$2.46^{+0.12}_{-0.11}$	$H(0.51)$	88.1	$89.0^{+6.5}_{-6.3}$
$\ln(10^{10} A_s)$	3.034	$3.036^{+0.057}_{-0.062}$	z_{re}	7.43	$7.4^{+2.3}_{-2.7}$	$D_M(0.51)$	2029	2009^{+190}_{-170}
n_s	0.9575	$0.960^{+0.035}_{-0.036}$	$10^9 A_s$	2.077	$2.08^{+0.12}_{-0.13}$	$H(0.61)$	93.8	$94.6^{+6.5}_{-6.3}$
y_{cal}	1.0002	$1.0005^{+0.0065}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.874	$1.881^{+0.061}_{-0.061}$	$D_M(0.61)$	2359	2336^{+210}_{-190}
A_{217}^{CIB}	47.0	48^{+20}_{-20}	D_{40}	1239	1237^{+60}_{-56}	$H(2.33)$	234.7	236^{+11}_{-10}
$\xi^{tSZ \times CIB}$	0.51	—	D_{220}	5706	5714^{+110}_{-110}	$D_M(2.33)$	5851	5803^{+390}_{-360}
A_{143}^{tSZ}	7.0	—	D_{810}	2535.3	2536^{+37}_{-36}	$f\sigma_8(0.15)$	0.4647	$0.464^{+0.032}_{-0.030}$
A_{100}^{PS}	250	262^{+80}_{-70}	D_{1420}	816.1	815^{+13}_{-12}	$\sigma_8(0.15)$	0.7435	$0.747^{+0.037}_{-0.037}$
A_{143}^{PS}	50.0	48^{+20}_{-20}	D_{2000}	230.8	$229.9^{+5.5}_{-5.4}$	$f\sigma_8(0.38)$	0.4793	$0.479^{+0.026}_{-0.024}$
$A_{143 \times 217}^{PS}$	50.4	43^{+20}_{-20}	$n_{s,0.002}$	0.9575	$0.960^{+0.035}_{-0.036}$	$\sigma_8(0.38)$	0.6574	$0.661^{+0.036}_{-0.035}$
A_{217}^{PS}	120.9	115^{+30}_{-30}	Y_P	0.2439	$0.244^{+0.011}_{-0.010}$	$f\sigma_8(0.51)$	0.4761	$0.477^{+0.023}_{-0.022}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.2453	$0.245^{+0.011}_{-0.010}$	$\sigma_8(0.51)$	0.6145	$0.618^{+0.035}_{-0.034}$
A_{100}^{dustTT}	8.83	$8.9^{+4.8}_{-4.7}$	Age/Gyr	14.00	$13.89^{+0.93}_{-0.85}$	$f\sigma_8(0.61)$	0.4699	$0.471^{+0.022}_{-0.021}$
A_{143}^{dustTT}	10.75	$10.7^{+4.5}_{-4.6}$	z_*	1090.12	$1090.2^{+1.2}_{-1.1}$	$\sigma_8(0.61)$	0.5843	$0.588^{+0.034}_{-0.033}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.2^{+8.6}_{-8.3}$	r_*	145.9	$145.0^{+7.9}_{-7.5}$	$f\sigma_8(2.33)$	0.2940	$0.296^{+0.018}_{-0.018}$
A_{217}^{dustTT}	94.9	93^{+20}_{-20}	$100\theta_*$	1.04129	$1.0411^{+0.0023}_{-0.0021}$	$\sigma_8(2.33)$	0.3024	$0.304^{+0.020}_{-0.019}$
c_{100}	0.99964	$0.9996^{+0.0015}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	14.01	$13.92^{+0.73}_{-0.70}$	χ_{simall}^2	395.81	$396.9 (\nu: 1.3)$
c_{217}	0.99824	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1058.90	$1059.2^{+2.7}_{-2.8}$	χ_{lowl}^2	24.4	$24.5 (\nu: 2.7)$
H_0	65.7	$66.5^{+7.0}_{-6.7}$	r_{drag}	148.7	$147.7^{+8.3}_{-7.9}$	χ_{plik}^2	757.7	$771.7 (\nu: 17.4)$
Ω_Λ	0.672	$0.676^{+0.047}_{-0.056}$	k_D	0.1395	$0.1402^{+0.0062}_{-0.0060}$	χ_{Aver15}^2	0.01	$1.0 (\nu: 1.0)$
Ω_m	0.328	$0.324^{+0.056}_{-0.047}$	$100\theta_D$	0.16071	$0.1609^{+0.0016}_{-0.0016}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
$\Omega_m h^2$	0.1412	$0.143^{+0.013}_{-0.012}$	z_{eq}	3436	3421^{+190}_{-170}	χ_{CMB}^2	1178.0	$1193.0 (\nu: 16.2)$
$\Omega_m h^3$	0.0927	$0.095^{+0.018}_{-0.016}$	k_{eq}	0.010368	$0.01040^{+0.00047}_{-0.00041}$			
σ_8	0.8063	$0.809^{+0.039}_{-0.037}$	$100\theta_{eq}$	0.8063	$0.809^{+0.034}_{-0.034}$			

Best-fit $\chi_{eff}^2 = 1179.25$; $\bar{\chi}_{eff}^2 = 1201.30$; $R - 1 = 0.00666$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.01 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.81 commander_dx12_v3.2_29: 24.45 plik_rd12_HM_v22_TT: 757.69

11.26 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00057}_{-0.00058}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.029}_{-0.026}$	$D_{\mathrm{M}}(0.38)$	1515^{+87}_{-86}
$\Omega_{\mathrm{c}}h^2$	$0.121^{+0.013}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.983^{+0.032}_{-0.031}$	$H(0.51)$	$90.5^{+4.9}_{-4.4}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0019}_{-0.0019}$	$r_{\mathrm{drag}}h$	$99.95^{+2.8}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1963^{+110}_{-110}
τ	$0.053^{+0.021}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.073}_{-0.071}$	$H(0.61)$	$96.1^{+5.1}_{-4.5}$
N_{eff}	$3.18^{+0.79}_{-0.66}$	z_{re}	$7.6^{+2.1}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2285^{+130}_{-130}
Y_{P}	$0.244^{+0.010}_{-0.0096}$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.11}_{-0.10}$	$H(2.33)$	$238^{+11}_{-9.6}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.050}_{-0.051}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.057}_{-0.056}$	$D_{\mathrm{M}}(2.33)$	5718^{+270}_{-280}
n_{s}	$0.969^{+0.024}_{-0.022}$	D_{40}	1223^{+39}_{-39}	$f\sigma_8(0.15)$	$0.456^{+0.023}_{-0.022}$
y_{cal}	$1.0006^{+0.0065}_{-0.0060}$	D_{220}	5720^{+100}_{-100}	$\sigma_8(0.15)$	$0.751^{+0.036}_{-0.035}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+39}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.023}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.666^{+0.032}_{-0.032}$
A_{143}^{tSZ}	—	D_{2000}	$229.5^{+5.4}_{-5.5}$	$f\sigma_8(0.51)$	$0.474^{+0.022}_{-0.020}$
A_{100}^{PS}	265^{+80}_{-70}	$n_{\mathrm{s},0.002}$	$0.969^{+0.024}_{-0.022}$	$\sigma_8(0.51)$	$0.623^{+0.030}_{-0.030}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.0096}$	$f\sigma_8(0.61)$	$0.469^{+0.022}_{-0.021}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.593^{+0.028}_{-0.029}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.69^{+0.64}_{-0.67}$	$f\sigma_8(2.33)$	$0.299^{+0.015}_{-0.015}$
A^{kSZ}	—	z_*	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.309^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.6}$	r_*	$143.7^{+6.4}_{-6.7}$	f_{2000}^{143}	31^{+9}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.8}_{-4.9}$	$100\theta_*$	$1.0409^{+0.0020}_{-0.0020}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.4}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.80^{+0.59}_{-0.62}$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.8^{+2.1}_{-2.1}$	χ_{simall}^2	$397.0 (\nu: 1.4)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$146.3^{+6.6}_{-7.0}$	χ_{lowl}^2	$22.8 (\nu: 0.7)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	$0.1413^{+0.0055}_{-0.0051}$	χ_{plik}^2	$773.2 (\nu: 15.4)$
H_0	$68.3^{+4.4}_{-4.0}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0014}_{-0.0013}$	χ_{Aver15}^2	$0.96 (\nu: 0.9)$
Ω_{Λ}	$0.691^{+0.021}_{-0.022}$	z_{eq}	3366^{+85}_{-83}	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
Ω_{m}	$0.309^{+0.022}_{-0.021}$	k_{eq}	$0.01036^{+0.00046}_{-0.00040}$	χ_{MGS}^2	$1.46 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.144^{+0.014}_{-0.011}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.016}_{-0.015}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.3)$
$\Omega_{\mathrm{m}}h^3$	$0.098^{+0.015}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4527^{+0.0081}_{-0.0078}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
σ_8	$0.812^{+0.038}_{-0.037}$	$H(0.15)$	$73.6^{+4.5}_{-4.1}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.823^{+0.043}_{-0.041}$	$D_{\mathrm{M}}(0.15)$	635^{+38}_{-38}	χ_{CMB}^2	$1193.0 (\nu: 14.9)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.024}_{-0.022}$	$H(0.38)$	$83.7^{+4.7}_{-4.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1207.49; R - 1 = 0.02393$$

11.27 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02206^{+0.00078}_{-0.00080}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	654^{+62}_{-57}
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.012}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.022}_{-0.021}$	$H(0.38)$	$81.9^{+6.3}_{-5.9}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0020}_{-0.0018}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1557^{+140}_{-130}
τ	$0.051^{+0.023}_{-0.024}$	$r_{\mathrm{drag}}h$	$98.3^{+5.1}_{-4.9}$	$H(0.51)$	$88.6^{+6.3}_{-5.9}$
N_{eff}	$2.94^{+0.88}_{-0.79}$	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.083}_{-0.082}$	$D_{\mathrm{M}}(0.51)$	2015^{+170}_{-160}
Y_{P}	$0.244^{+0.010}_{-0.010}$	z_{re}	$7.4^{+2.2}_{-2.7}$	$H(0.61)$	$94.3^{+6.3}_{-5.9}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.033^{+0.056}_{-0.062}$	$10^9 A_{\mathrm{s}}$	$2.08^{+0.12}_{-0.13}$	$D_{\mathrm{M}}(0.61)$	2343^{+190}_{-180}
n_{s}	$0.959^{+0.033}_{-0.033}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.875^{+0.057}_{-0.057}$	$H(2.33)$	235^{+11}_{-10}
y_{cal}	$1.0004^{+0.0065}_{-0.0064}$	D_{40}	1238^{+51}_{-49}	$D_{\mathrm{M}}(2.33)$	5824^{+360}_{-350}
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5716^{+100}_{-110}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2535^{+37}_{-36}	$\sigma_8(0.15)$	$0.743^{+0.036}_{-0.035}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017}$
A_{100}^{PS}	262^{+70}_{-80}	D_{2000}	$230.1^{+5.4}_{-5.4}$	$\sigma_8(0.38)$	$0.658^{+0.035}_{-0.034}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.959^{+0.033}_{-0.033}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.017}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.010}$	$\sigma_8(0.51)$	$0.615^{+0.034}_{-0.034}$
A_{217}^{PS}	115^{+30}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.017}$
A^{kSZ}	—	Age/Gyr	$13.94^{+0.87}_{-0.83}$	$\sigma_8(0.61)$	$0.585^{+0.033}_{-0.033}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.7}$	z_*	$1090.1^{+1.1}_{-1.0}$	$f\sigma_8(2.33)$	$0.295^{+0.018}_{-0.018}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-4.6}$	r_*	$145.6^{+7.5}_{-7.4}$	$\sigma_8(2.33)$	$0.303^{+0.020}_{-0.020}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.2^{+8.7}_{-8.4}$	$100\theta_*$	$1.0412^{+0.0022}_{-0.0020}$	f_{2000}^{143}	31^{+9}_{-9}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.98^{+0.70}_{-0.68}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	$1059.1^{+2.6}_{-2.8}$	f_{2000}^{217}	$107.7^{+5.8}_{-5.4}$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$148.3^{+7.9}_{-7.6}$	$\chi_{\mathrm{lensing}}^2$	$9.4 (\nu: 0.5)$
H_0	$66.3^{+6.5}_{-6.1}$	k_{D}	$0.1398^{+0.0060}_{-0.0057}$	χ_{simall}^2	$396.8 (\nu: 1.2)$
Ω_{Λ}	$0.677^{+0.040}_{-0.045}$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0015}_{-0.0015}$	χ_{lowl}^2	$24.5 (\nu: 2.1)$
Ω_{m}	$0.323^{+0.045}_{-0.040}$	z_{eq}	3417^{+160}_{-150}	χ_{plik}^2	$771.1 (\nu: 14.8)$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.012}_{-0.011}$	k_{eq}	$0.01035^{+0.00038}_{-0.00036}$	χ_{Aver15}^2	$0.99 (\nu: 1.0)$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.017}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.029}_{-0.028}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.806^{+0.035}_{-0.035}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.015}_{-0.014}$	χ_{CMB}^2	$1201.8 (\nu: 15.9)$
S_8	$0.835^{+0.043}_{-0.042}$	$H(0.15)$	$71.6^{+6.4}_{-6.0}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1210.08; R - 1 = 0.01169$$

11.28 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02225^{+0.00057}_{-0.00058}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1521^{+87}_{-83}
$\Omega_{\mathrm{c}}h^2$	$0.121^{+0.011}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.984^{+0.024}_{-0.024}$	$H(0.51)$	$90.2^{+4.6}_{-4.4}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0018}_{-0.0017}$	$r_{\mathrm{drag}}h$	$99.8^{+2.6}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1970^{+110}_{-110}
τ	$0.055^{+0.019}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.059}_{-0.058}$	$H(0.61)$	$95.8^{+4.6}_{-4.5}$
N_{eff}	$3.14^{+0.72}_{-0.64}$	z_{re}	$7.7^{+1.9}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2293^{+120}_{-120}
Y_{P}	$0.244^{+0.010}_{-0.0097}$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.093}_{-0.091}$	$H(2.33)$	$237.0^{+9.7}_{-9.2}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.043}_{-0.044}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.053}_{-0.052}$	$D_{\mathrm{M}}(2.33)$	5734^{+270}_{-260}
n_{s}	$0.968^{+0.021}_{-0.021}$	D_{40}	1226^{+39}_{-38}	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.017}$
y_{cal}	$1.0007^{+0.0065}_{-0.0061}$	D_{220}	5724^{+100}_{-100}	$\sigma_8(0.15)$	$0.750^{+0.030}_{-0.029}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+38}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.017}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.665^{+0.028}_{-0.027}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+5.7}_{-5.6}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.016}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.021}$	$\sigma_8(0.51)$	$0.623^{+0.027}_{-0.026}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.0097}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.016}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.593^{+0.025}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.73^{+0.64}_{-0.62}$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.013}$
A^{kSZ}	—	z_*	$1090.1^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	$0.308^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.6}_{-4.7}$	r_*	$144.0^{+6.3}_{-6.2}$	f_{2000}^{143}	31^{+9}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-5.0}$	$100\theta_*$	$1.0409^{+0.0019}_{-0.0018}$	$f_{2000}^{143\times 217}$	34^{+6}_{-6}
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.5}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.83^{+0.58}_{-0.57}$	f_{2000}^{217}	$108.1^{+5.5}_{-5.4}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.7^{+2.0}_{-2.0}$	$\chi_{\mathrm{lensing}}^2$	$9.43\ (\nu: 0.3)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$146.7^{+6.5}_{-6.4}$	χ_{simall}^2	$397.0\ (\nu: 1.4)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	k_{D}	$0.1410^{+0.0050}_{-0.0049}$	χ_{lowl}^2	$23.1\ (\nu: 0.7)$
H_0	$68.1^{+4.2}_{-4.0}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0013}_{-0.0012}$	χ_{plik}^2	$772.4\ (\nu: 14.1)$
Ω_{Λ}	$0.690^{+0.021}_{-0.021}$	z_{eq}	3371^{+81}_{-81}	χ_{Aver15}^2	$0.97\ (\nu: 0.9)$
Ω_{m}	$0.310^{+0.021}_{-0.021}$	k_{eq}	$0.01035^{+0.00040}_{-0.00038}$	$\chi_{6\mathrm{DF}}^2$	$0.060\ (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.143^{+0.012}_{-0.010}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.015}_{-0.015}$	χ_{MGS}^2	$1.37\ (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^3$	$0.098^{+0.014}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0078}_{-0.0075}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8\ (\nu: 1.4)$
σ_8	$0.812^{+0.032}_{-0.030}$	$H(0.15)$	$73.3^{+4.3}_{-4.0}$	χ_{prior}^2	$7.3\ (\nu: 6.7)$
S_8	$0.825^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	637^{+38}_{-37}	χ_{CMB}^2	$1201.9\ (\nu: 14.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$H(0.38)$	$83.5^{+4.4}_{-4.2}$	χ_{BAO}^2	$6.2\ (\nu: 0.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1216.46; R - 1 = 0.02078$$

11.29 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02210^{+0.00082}_{-0.00081}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.037}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	650^{+67}_{-59}
$\Omega_{\mathrm{c}}h^2$	$0.120^{+0.013}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.032}_{-0.029}$	$H(0.38)$	$82.3^{+6.4}_{-6.3}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0021}_{-0.0019}$	$\sigma_8/h^{0.5}$	$0.994^{+0.043}_{-0.041}$	$D_{\mathrm{M}}(0.38)$	1548^{+150}_{-130}
τ	$0.053^{+0.019}_{-0.012}$	$r_{\mathrm{drag}}h$	$98.3^{+6.0}_{-5.8}$	$H(0.51)$	$89.1^{+6.4}_{-6.2}$
N_{eff}	$3.02^{+0.89}_{-0.84}$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.12}_{-0.11}$	$D_{\mathrm{M}}(0.51)$	2003^{+180}_{-160}
Y_{P}	$0.244^{+0.011}_{-0.010}$	z_{re}	< 9.41	$H(0.61)$	$94.8^{+6.4}_{-6.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.053}_{-0.044}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.091}$	$D_{\mathrm{M}}(0.61)$	2330^{+210}_{-180}
n_{s}	$0.961^{+0.035}_{-0.035}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.881^{+0.061}_{-0.061}$	$H(2.33)$	236^{+11}_{-11}
y_{cal}	$1.0005^{+0.0064}_{-0.0061}$	D_{40}	1236^{+58}_{-56}	$D_{\mathrm{M}}(2.33)$	5793^{+390}_{-350}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5714^{+110}_{-100}	$f\sigma_8(0.15)$	$0.464^{+0.032}_{-0.030}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2536^{+37}_{-36}	$\sigma_8(0.15)$	$0.749^{+0.036}_{-0.033}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-12}	$f\sigma_8(0.38)$	$0.480^{+0.026}_{-0.024}$
A_{100}^{PS}	262^{+70}_{-70}	D_{2000}	$229.9^{+5.6}_{-5.4}$	$\sigma_8(0.38)$	$0.663^{+0.035}_{-0.032}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.961^{+0.035}_{-0.035}$	$f\sigma_8(0.51)$	$0.477^{+0.023}_{-0.021}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.244^{+0.011}_{-0.010}$	$\sigma_8(0.51)$	$0.620^{+0.033}_{-0.031}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.011}_{-0.010}$	$f\sigma_8(0.61)$	$0.471^{+0.021}_{-0.019}$
A^{kSZ}	—	Age/Gyr	$13.87^{+0.93}_{-0.84}$	$\sigma_8(0.61)$	$0.589^{+0.032}_{-0.031}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.7}$	z_*	$1090.2^{+1.2}_{-1.1}$	$f\sigma_8(2.33)$	$0.297^{+0.017}_{-0.016}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-4.6}$	r_*	$144.8^{+7.9}_{-7.4}$	$\sigma_8(2.33)$	$0.306^{+0.020}_{-0.018}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.2^{+8.6}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0023}_{-0.0021}$	f_{2000}^{143}	31^{+9}_{-9}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.91^{+0.74}_{-0.69}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	z_{drag}	$1059.3^{+2.7}_{-2.8}$	f_{2000}^{217}	$107.9^{+5.8}_{-5.6}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.5^{+8.2}_{-7.7}$	χ_{simall}^2	$396.7 (\nu: 1.2)$
H_0	$66.7^{+6.9}_{-6.7}$	k_{D}	$0.1404^{+0.0061}_{-0.0060}$	χ_{lowl}^2	$24.3 (\nu: 2.6)$
Ω_{Λ}	$0.678^{+0.046}_{-0.054}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0016}_{-0.0016}$	χ_{plik}^2	$771.6 (\nu: 17.5)$
Ω_{m}	$0.322^{+0.054}_{-0.046}$	z_{eq}	3415^{+180}_{-170}	χ_{Aver15}^2	$1.0 (\nu: 1.0)$
$\Omega_{\mathrm{m}}h^2$	$0.143^{+0.013}_{-0.012}$	k_{eq}	$0.01040^{+0.00048}_{-0.00041}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\Omega_{\mathrm{m}}h^3$	$0.095^{+0.017}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.034}_{-0.033}$	χ_{CMB}^2	$1192.7 (\nu: 15.7)$
σ_8	$0.811^{+0.038}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.017}_{-0.017}$		
S_8	$0.841^{+0.067}_{-0.060}$	$H(0.15)$	$72.1^{+6.7}_{-6.5}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1200.97; R - 1 = 0.00742$$

11.30 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02227^{+0.00056}_{-0.00057}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.028}_{-0.026}$	$D_{\mathrm{M}}(0.38)$	1514^{+87}_{-86}
$\Omega_{\mathrm{c}} h^2$	$0.121^{+0.013}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.984^{+0.030}_{-0.030}$	$H(0.51)$	$90.5^{+4.9}_{-4.4}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0019}_{-0.0018}$	$r_{\mathrm{drag}} h$	$99.98^{+2.8}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1962^{+110}_{-110}
τ	$0.055^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.071}_{-0.065}$	$H(0.61)$	$96.2^{+5.1}_{-4.5}$
N_{eff}	$3.18^{+0.79}_{-0.67}$	z_{re}	< 9.53	$D_{\mathrm{M}}(0.61)$	2284^{+130}_{-130}
Y_{P}	$0.244^{+0.010}_{-0.0096}$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.11}_{-0.086}$	$H(2.33)$	$238^{+11}_{-9.7}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.049}_{-0.042}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.058}_{-0.056}$	$D_{\mathrm{M}}(2.33)$	5716^{+270}_{-280}
n_{s}	$0.970^{+0.024}_{-0.022}$	D_{40}	1223^{+40}_{-39}	$f\sigma_8(0.15)$	$0.456^{+0.023}_{-0.021}$
y_{cal}	$1.0006^{+0.0064}_{-0.0060}$	D_{220}	5719^{+100}_{-100}	$\sigma_8(0.15)$	$0.752^{+0.035}_{-0.033}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+39}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.022}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.667^{+0.032}_{-0.030}$
A_{143}^{tSZ}	—	D_{2000}	$229.5^{+5.6}_{-5.5}$	$f\sigma_8(0.51)$	$0.474^{+0.022}_{-0.020}$
A_{100}^{PS}	264^{+80}_{-70}	$n_{\mathrm{s},0.002}$	$0.970^{+0.024}_{-0.022}$	$\sigma_8(0.51)$	$0.624^{+0.030}_{-0.028}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.0096}$	$f\sigma_8(0.61)$	$0.470^{+0.021}_{-0.020}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.594^{+0.029}_{-0.027}$
A_{217}^{PS}	115^{+30}_{-20}	Age/Gyr	$13.69^{+0.64}_{-0.67}$	$f\sigma_8(2.33)$	$0.300^{+0.014}_{-0.014}$
A^{kSZ}	—	z_*	$1090.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.309^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.6}_{-4.7}$	r_*	$143.6^{+6.5}_{-6.9}$	f_{2000}^{143}	31^{+9}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.8}_{-5.0}$	$100\theta_*$	$1.0409^{+0.0021}_{-0.0020}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.4}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.80^{+0.60}_{-0.64}$	f_{2000}^{217}	$108.3^{+5.5}_{-5.5}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.8^{+2.1}_{-2.1}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$146.3^{+6.7}_{-7.1}$	χ_{lowl}^2	$22.8 (\nu: 0.7)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	$0.1413^{+0.0054}_{-0.0051}$	χ_{plik}^2	$773.0 (\nu: 15.4)$
H_0	$68.4^{+4.4}_{-4.0}$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0014}_{-0.0013}$	χ_{Aver15}^2	$0.97 (\nu: 1.0)$
Ω_{Λ}	$0.692^{+0.021}_{-0.022}$	z_{eq}	3365^{+85}_{-83}	$\chi_{6\mathrm{DF}}^2$	$0.056 (\nu: 0.0)$
Ω_{m}	$0.308^{+0.022}_{-0.021}$	k_{eq}	$0.01036^{+0.00047}_{-0.00040}$	χ_{MGS}^2	$1.48 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^2$	$0.144^{+0.014}_{-0.011}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.016}_{-0.015}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^3$	$0.099^{+0.015}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4527^{+0.0080}_{-0.0078}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
σ_8	$0.813^{+0.037}_{-0.034}$	$H(0.15)$	$73.7^{+4.4}_{-4.1}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.824^{+0.043}_{-0.041}$	$D_{\mathrm{M}}(0.15)$	635^{+38}_{-37}	χ_{CMB}^2	$1192.8 (\nu: 14.6)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.024}_{-0.022}$	$H(0.38)$	$83.8^{+4.7}_{-4.2}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1207.26; R - 1 = 0.02342$$

11.31 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02209^{+0.00079}_{-0.00079}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	652^{+58}_{-56}
$\Omega_{\mathrm{c}}h^2$	$0.119^{+0.012}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.021}_{-0.021}$	$H(0.38)$	$82.1^{+6.2}_{-5.6}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0020}_{-0.0018}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1552^{+130}_{-120}
τ	$0.053^{+0.019}_{-0.012}$	$r_{\mathrm{drag}}h$	$98.5^{+4.9}_{-4.4}$	$H(0.51)$	$88.8^{+6.2}_{-5.7}$
N_{eff}	$2.97^{+0.86}_{-0.79}$	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.084}_{-0.082}$	$D_{\mathrm{M}}(0.51)$	2009^{+160}_{-150}
Y_{P}	$0.244^{+0.010}_{-0.010}$	z_{re}	< 9.38	$H(0.61)$	$94.5^{+6.1}_{-5.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.038^{+0.052}_{-0.043}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.089}$	$D_{\mathrm{M}}(0.61)$	2336^{+180}_{-180}
n_{s}	$0.960^{+0.032}_{-0.030}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.876^{+0.057}_{-0.057}$	$H(2.33)$	235^{+11}_{-10}
y_{cal}	$1.0004^{+0.0065}_{-0.0062}$	D_{40}	1236^{+47}_{-49}	$D_{\mathrm{M}}(2.33)$	5813^{+360}_{-340}
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5717^{+100}_{-110}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2535^{+37}_{-35}	$\sigma_8(0.15)$	$0.745^{+0.034}_{-0.032}$
A_{143}^{tSZ}	$5.2^{+4.6}_{-4.6}$	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017}$
A_{100}^{PS}	262^{+70}_{-80}	D_{2000}	$230.1^{+5.4}_{-5.5}$	$\sigma_8(0.38)$	$0.660^{+0.033}_{-0.031}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.960^{+0.032}_{-0.030}$	$f\sigma_8(0.51)$	$0.475^{+0.016}_{-0.016}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.010}$	$\sigma_8(0.51)$	$0.617^{+0.033}_{-0.030}$
A_{217}^{PS}	115^{+30}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.015}$
A^{kSZ}	—	Age/Gyr	$13.91^{+0.86}_{-0.81}$	$\sigma_8(0.61)$	$0.587^{+0.032}_{-0.029}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	z_*	$1090.1^{+1.1}_{-1.0}$	$f\sigma_8(2.33)$	$0.296^{+0.018}_{-0.016}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	r_*	$145.4^{+7.5}_{-7.4}$	$\sigma_8(2.33)$	$0.304^{+0.019}_{-0.017}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.7}_{-8.4}$	$100\theta_*$	$1.0412^{+0.0022}_{-0.0020}$	f_{2000}^{143}	31^{+9}_{-8}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.69}_{-0.69}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	$1059.1^{+2.6}_{-2.7}$	f_{2000}^{217}	$107.7^{+5.7}_{-5.4}$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$148.1^{+7.8}_{-7.6}$	$\chi_{\mathrm{lensing}}^2$	$9.4 (\nu: 0.5)$
H_0	$66.5^{+6.4}_{-5.7}$	k_{D}	$0.1399^{+0.0059}_{-0.0057}$	χ_{simall}^2	$396.7 (\nu: 1.1)$
Ω_{Λ}	$0.679^{+0.039}_{-0.041}$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0015}_{-0.0014}$	χ_{lowl}^2	$24.3 (\nu: 1.8)$
Ω_{m}	$0.321^{+0.041}_{-0.039}$	z_{eq}	3410^{+140}_{-140}	χ_{plik}^2	$771.1 (\nu: 14.9)$
$\Omega_{\mathrm{m}}h^2$	$0.142^{+0.012}_{-0.011}$	k_{eq}	$0.01035^{+0.00038}_{-0.00036}$	χ_{Aver15}^2	$1.0 (\nu: 1.0)$
$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.017}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.028}_{-0.026}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.808^{+0.035}_{-0.032}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.014}_{-0.013}$	χ_{CMB}^2	$1201.5 (\nu: 15.3)$
S_8	$0.835^{+0.042}_{-0.042}$	$H(0.15)$	$71.9^{+6.3}_{-5.7}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1209.75; R - 1 = 0.01470$$

11.32 base_nnu_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00057}_{-0.00058}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1520^{+86}_{-83}
$\Omega_{\mathrm{c}} h^2$	$0.121^{+0.011}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.022}$	$H(0.51)$	$90.2^{+4.5}_{-4.4}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0018}_{-0.0017}$	$r_{\mathrm{drag}} h$	$99.8^{+2.6}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1970^{+110}_{-100}
τ	$0.055^{+0.018}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.059}_{-0.055}$	$H(0.61)$	$95.9^{+4.7}_{-4.5}$
N_{eff}	$3.14^{+0.72}_{-0.64}$	z_{re}	< 9.44	$D_{\mathrm{M}}(0.61)$	2292^{+120}_{-120}
Y_{P}	$0.244^{+0.010}_{-0.0097}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.090}_{-0.082}$	$H(2.33)$	$237.0^{+9.7}_{-9.2}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.042}_{-0.040}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.884^{+0.052}_{-0.052}$	$D_{\mathrm{M}}(2.33)$	5734^{+270}_{-260}
n_{s}	$0.968^{+0.021}_{-0.022}$	D_{40}	1226^{+38}_{-38}	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
y_{cal}	$1.0007^{+0.0064}_{-0.0061}$	D_{220}	5724^{+100}_{-100}	$\sigma_8(0.15)$	$0.751^{+0.030}_{-0.029}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+39}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.666^{+0.027}_{-0.027}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+5.7}_{-5.6}$	$f\sigma_8(0.51)$	$0.474^{+0.016}_{-0.016}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.022}$	$\sigma_8(0.51)$	$0.623^{+0.026}_{-0.026}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.244^{+0.010}_{-0.0097}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.593^{+0.025}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-20}	Age/Gyr	$13.73^{+0.64}_{-0.62}$	$f\sigma_8(2.33)$	$0.299^{+0.013}_{-0.013}$
A^{kSZ}	—	z_*	$1090.1^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	$0.308^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.5}_{-4.7}$	r_*	$144.0^{+6.3}_{-6.2}$	f_{2000}^{143}	31^{+9}_{-8}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-5.0}$	$100\theta_*$	$1.0409^{+0.0019}_{-0.0018}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.5}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.83^{+0.58}_{-0.57}$	f_{2000}^{217}	$108.1^{+5.6}_{-5.4}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.7^{+2.0}_{-2.0}$	$\chi_{\mathrm{lensing}}^2$	$9.39 (\nu: 0.3)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$146.7^{+6.5}_{-6.4}$	χ_{simall}^2	$397.0 (\nu: 1.4)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	$0.1410^{+0.0050}_{-0.0049}$	χ_{lowl}^2	$23.1 (\nu: 0.7)$
H_0	$68.1^{+4.2}_{-4.0}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0013}_{-0.0012}$	χ_{plik}^2	$772.3 (\nu: 14.0)$
Ω_{Λ}	$0.690^{+0.020}_{-0.021}$	z_{eq}	3370^{+81}_{-81}	χ_{Aver15}^2	$0.97 (\nu: 0.9)$
Ω_{m}	$0.310^{+0.021}_{-0.020}$	k_{eq}	$0.01035^{+0.00040}_{-0.00038}$	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.143^{+0.012}_{-0.011}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.015}_{-0.014}$	χ_{MGS}^2	$1.39 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.098^{+0.014}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4523^{+0.0078}_{-0.0074}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.3)$
σ_8	$0.812^{+0.032}_{-0.030}$	$H(0.15)$	$73.4^{+4.2}_{-4.0}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.825^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	637^{+38}_{-37}	χ_{CMB}^2	$1201.8 (\nu: 14.4)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$H(0.38)$	$83.5^{+4.4}_{-4.2}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1216.27; R - 1 = 0.02175$$

11.33 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02222	$0.02225^{+0.00054}_{-0.00054}$	Ω_{m}	0.3217	$0.321^{+0.028}_{-0.025}$	k_{eq}	0.010318	$0.01035^{+0.00035}_{-0.00034}$
$\Omega_{\text{c}}h^2$	0.1175	$0.1184^{+0.0095}_{-0.0088}$	$\Omega_{\text{m}}h^2$	0.1403	$0.1412^{+0.0098}_{-0.0090}$	$100\theta_{\text{eq}}$	0.8091	$0.810^{+0.018}_{-0.018}$
$100\theta_{\text{MC}}$	1.04124	$1.0411^{+0.0016}_{-0.0016}$	$\Omega_{\text{m}}h^3$	0.0927	$0.094^{+0.012}_{-0.010}$	$100\theta_{\text{s,eq}}$	0.4473	$0.4477^{+0.0091}_{-0.0091}$
τ	0.0539	$0.053^{+0.022}_{-0.021}$	σ_8	0.8045	$0.806^{+0.031}_{-0.031}$	$H(0.15)$	71.37	$71.7^{+4.0}_{-3.8}$
N_{eff}	2.86	$2.92^{+0.60}_{-0.56}$	S_8	0.8331	$0.833^{+0.041}_{-0.042}$	$D_{\text{M}}(0.15)$	655.6	653^{+38}_{-36}
Y_{P}	0.2437	$0.2437^{+0.0094}_{-0.011}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4563	$0.456^{+0.023}_{-0.023}$	$H(0.38)$	81.54	$81.9^{+4.1}_{-3.8}$
$\ln(10^{10}A_{\text{s}})$	3.0371	$3.037^{+0.048}_{-0.051}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.6059	$0.607^{+0.023}_{-0.025}$	$D_{\text{M}}(0.38)$	1561	1555^{+85}_{-82}
n_{s}	0.9590	$0.960^{+0.021}_{-0.021}$	$\sigma_8/h^{0.5}$	0.9900	$0.989^{+0.029}_{-0.031}$	$H(0.51)$	88.27	$88.6^{+4.1}_{-3.9}$
y_{cal}	1.0005	$1.0006^{+0.0065}_{-0.0065}$	$r_{\text{drag}}h$	98.34	$98.4^{+3.1}_{-3.2}$	$D_{\text{M}}(0.51)$	2021	2013^{+110}_{-100}
A_{217}^{CIB}	45.8	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.457	$2.455^{+0.076}_{-0.075}$	$H(0.61)$	93.90	$94.3^{+4.2}_{-4.0}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.56	—	z_{re}	7.61	$7.5^{+2.1}_{-2.3}$	$D_{\text{M}}(0.61)$	2350	2341^{+120}_{-120}
A_{143}^{tSZ}	7.13	> 0.944	$10^9 A_{\text{s}}$	2.085	$2.09^{+0.10}_{-0.10}$	$H(2.33)$	234.1	$234.9^{+8.3}_{-7.7}$
A_{100}^{PS}	247	256^{+70}_{-70}	$10^9 A_{\text{s}}e^{-2\tau}$	1.8716	$1.875^{+0.049}_{-0.047}$	$D_{\text{M}}(2.33)$	5845	5824^{+250}_{-240}
A_{143}^{PS}	47.1	45^{+20}_{-20}	D_{40}	1238.0	1239^{+41}_{-39}	$f\sigma_8(0.15)$	0.4600	$0.460^{+0.021}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	49.3	42^{+20}_{-20}	D_{220}	5730	5733^{+99}_{-100}	$\sigma_8(0.15)$	0.7424	$0.744^{+0.029}_{-0.029}$
A_{217}^{PS}	120.6	115^{+30}_{-30}	D_{810}	2538.5	2538^{+36}_{-35}	$f\sigma_8(0.38)$	0.4760	$0.476^{+0.019}_{-0.020}$
A^{kSZ}	0.0	—	D_{1420}	818.9	818^{+13}_{-13}	$\sigma_8(0.38)$	0.6570	$0.658^{+0.027}_{-0.027}$
$A_{100}^{\text{dust}TT}$	8.71	$8.9^{+4.6}_{-4.7}$	D_{2000}	232.08	$231.5^{+4.8}_{-4.6}$	$f\sigma_8(0.51)$	0.4734	$0.474^{+0.017}_{-0.019}$
$A_{143}^{\text{dust}TT}$	10.89	$10.8^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	0.9590	$0.960^{+0.021}_{-0.021}$	$\sigma_8(0.51)$	0.6144	$0.616^{+0.025}_{-0.025}$
$A_{143 \times 217}^{\text{dust}TT}$	19.7	$18.5^{+8.3}_{-8.5}$	Y_{P}	0.2437	$0.2437^{+0.0094}_{-0.011}$	$f\sigma_8(0.61)$	0.4677	$0.468^{+0.017}_{-0.018}$
$A_{217}^{\text{dust}TT}$	95.1	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2450	$0.2450^{+0.0094}_{-0.011}$	$\sigma_8(0.61)$	0.5844	$0.586^{+0.024}_{-0.024}$
$A_{100}^{\text{dust}TE}$	0.114	$0.114^{+0.096}_{-0.095}$	Age/Gyr	13.99	$13.94^{+0.59}_{-0.58}$	$f\sigma_8(2.33)$	0.2943	$0.295^{+0.013}_{-0.013}$
$A_{100 \times 143}^{\text{dust}TE}$	0.135	$0.135^{+0.077}_{-0.075}$	z_*	1089.74	$1089.81^{+0.87}_{-0.88}$	$\sigma_8(2.33)$	0.3029	$0.304^{+0.014}_{-0.014}$
$A_{100 \times 217}^{\text{dust}TE}$	0.481	$0.48^{+0.22}_{-0.22}$	r_*	146.2	$145.7^{+5.5}_{-5.4}$	χ_{simall}^2	396.03	$397.0 (\nu: 1.5)$
$A_{143}^{\text{dust}TE}$	0.225	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04153	$1.0414^{+0.0017}_{-0.0017}$	χ_{lowl}^2	24.23	$24.3 (\nu: 1.1)$
$A_{143 \times 217}^{\text{dust}TE}$	0.670	$0.67^{+0.21}_{-0.21}$	$D_{\text{M}}(z_*)/\text{Gpc}$	14.03	$13.99^{+0.51}_{-0.50}$	χ_{plik}^2	2343.0	$2359.4 (\nu: 18.3)$
$A_{217}^{\text{dust}TE}$	2.10	$2.08^{+0.70}_{-0.68}$	z_{drag}	1059.28	$1059.4^{+1.8}_{-1.9}$	χ_{Aver15}^2	0.00	$0.98 (\nu: 1.0)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	148.9	$148.4^{+5.7}_{-5.6}$	χ_{prior}^2	1.6	$11.5 (\nu: 10.1)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.13956	$0.1400^{+0.0045}_{-0.0044}$	χ_{CMB}^2	2763.2	$2780.8 (\nu: 18.0)$
H_0	66.05	$66.4^{+4.0}_{-3.8}$	$100\theta_{\text{D}}$	0.16041	$0.16051^{+0.00096}_{-0.0010}$			
Ω_{Λ}	0.6783	$0.679^{+0.025}_{-0.028}$	z_{eq}	3424	3421^{+99}_{-95}			

Best-fit $\chi_{\text{eff}}^2 = 2764.84$; $\bar{\chi}_{\text{eff}}^2 = 2793.22$; $R - 1 = 0.01284$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.00 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3.2_29: 24.23 plik_rd12_HM_v22b_TTTEEE: 2342.98

11.34 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00048}_{-0.00046}$	$\Omega_m h^3$	$0.096^{+0.011}_{-0.010}$	$D_M(0.15)$	643^{+32}_{-28}
$\Omega_c h^2$	$0.1188^{+0.0093}_{-0.0090}$	σ_8	$0.808^{+0.030}_{-0.031}$	$H(0.38)$	$82.8^{+3.4}_{-3.5}$
$100\theta_{MC}$	$1.0410^{+0.0016}_{-0.0016}$	S_8	$0.823^{+0.035}_{-0.037}$	$D_M(0.38)$	1533^{+73}_{-64}
τ	$0.055^{+0.021}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.019}_{-0.020}$	$H(0.51)$	$89.5^{+3.5}_{-3.7}$
N_{eff}	$3.02^{+0.54}_{-0.55}$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.023}_{-0.023}$	$D_M(0.51)$	1986^{+92}_{-82}
Y_P	$0.2437^{+0.0095}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.983^{+0.027}_{-0.030}$	$H(0.61)$	$95.2^{+3.6}_{-3.8}$
$\ln(10^{10} A_s)$	$3.043^{+0.045}_{-0.048}$	$r_{\text{drag}} h$	$99.6^{+2.1}_{-2.2}$	$D_M(0.61)$	2311^{+110}_{-94}
n_s	$0.965^{+0.018}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.064}_{-0.065}$	$H(2.33)$	$235.7^{+7.8}_{-7.9}$
y_{cal}	$1.0007^{+0.0064}_{-0.0064}$	z_{re}	$7.7^{+2.0}_{-2.2}$	$D_M(2.33)$	5774^{+230}_{-210}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.096^{+0.097}_{-0.099}$	$f\sigma_8(0.15)$	$0.455^{+0.019}_{-0.020}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.877^{+0.050}_{-0.047}$	$\sigma_8(0.15)$	$0.746^{+0.028}_{-0.029}$
A_{143}^{tSZ}	—	D_{40}	1230^{+34}_{-34}	$f\sigma_8(0.38)$	$0.474^{+0.018}_{-0.019}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5737^{+100}_{-100}	$\sigma_8(0.38)$	$0.661^{+0.025}_{-0.026}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+36}_{-34}	$f\sigma_8(0.51)$	$0.472^{+0.018}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.619^{+0.023}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+4.7}_{-4.6}$	$f\sigma_8(0.61)$	$0.467^{+0.018}_{-0.018}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.018}_{-0.019}$	$\sigma_8(0.61)$	$0.589^{+0.022}_{-0.024}$
A_{100}^{dustTT}	$8.9^{+4.4}_{-4.6}$	Y_P	$0.2437^{+0.0095}_{-0.010}$	$f\sigma_8(2.33)$	$0.297^{+0.012}_{-0.012}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	$0.2450^{+0.0095}_{-0.010}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.0}_{-8.4}$	Age/Gyr	$13.82^{+0.55}_{-0.50}$	f_{2000}^{143}	29^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.72^{+0.81}_{-0.88}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.095}_{-0.092}$	r_*	$144.9^{+5.6}_{-5.0}$	f_{2000}^{217}	$106.7^{+5.1}_{-4.9}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.073}_{-0.077}$	$100\theta_*$	$1.0413^{+0.0016}_{-0.0016}$	χ_{simall}^2	$397.2 (\nu: 2.0)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.92^{+0.51}_{-0.47}$	χ_{lowl}^2	$23.4 (\nu: 0.6)$
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.14}$	z_{drag}	$1059.8^{+1.7}_{-1.7}$	χ_{plik}^2	$2360.6 (\nu: 19.7)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.22}$	r_{drag}	$147.6^{+5.8}_{-5.2}$	χ_{Aver15}^2	$0.98 (\nu: 0.9)$
A_{217}^{dustTE}	$2.07^{+0.72}_{-0.69}$	k_D	$0.1406^{+0.0042}_{-0.0043}$	$\chi_{6\text{DF}}^2$	$0.067 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16062^{+0.00092}_{-0.00099}$	χ_{MGS}^2	$1.23 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3388^{+70}_{-66}	χ_{DR12BAO}^2	$5.1 (\nu: 1.4)$
H_0	$67.5^{+3.2}_{-3.3}$	k_{eq}	$0.01032^{+0.00035}_{-0.00034}$	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_Λ	$0.688^{+0.017}_{-0.019}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.013}$	χ_{BAO}^2	$6.3 (\nu: 1.0)$
Ω_m	$0.312^{+0.019}_{-0.017}$	$100\theta_{s,\text{eq}}$	$0.4508^{+0.0065}_{-0.0065}$	χ_{CMB}^2	$2781.2 (\nu: 19.0)$
$\Omega_m h^2$	$0.1418^{+0.0095}_{-0.0092}$	$H(0.15)$	$72.7^{+3.2}_{-3.4}$		

$$\bar{\chi}_{\text{eff}}^2 = 2800.04; R - 1 = 0.03428$$

11.35 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02223^{+0.00054}_{-0.00053}$	$\Omega_{\text{m}}h^2$	$0.1406^{+0.0097}_{-0.0086}$	$100\theta_{\text{s,eq}}$	$0.4477^{+0.0085}_{-0.0088}$
$\Omega_{\text{c}}h^2$	$0.1177^{+0.0093}_{-0.0084}$	$\Omega_{\text{m}}h^3$	$0.093^{+0.012}_{-0.010}$	$H(0.15)$	$71.5^{+4.0}_{-3.9}$
$100\theta_{\text{MC}}$	$1.0412^{+0.0016}_{-0.0016}$	σ_8	$0.804^{+0.028}_{-0.027}$	$D_{\text{M}}(0.15)$	654^{+39}_{-37}
τ	$0.053^{+0.022}_{-0.020}$	S_8	$0.831^{+0.033}_{-0.033}$	$H(0.38)$	$81.7^{+4.1}_{-3.8}$
N_{eff}	$2.88^{+0.62}_{-0.55}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.455^{+0.018}_{-0.018}$	$D_{\text{M}}(0.38)$	1558^{+86}_{-83}
Y_{P}	$0.2438^{+0.0091}_{-0.010}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.605^{+0.019}_{-0.020}$	$H(0.51)$	$88.4^{+4.2}_{-3.9}$
$\ln(10^{10}A_{\text{s}})$	$3.036^{+0.047}_{-0.045}$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.024}$	$D_{\text{M}}(0.51)$	2017^{+110}_{-100}
n_{s}	$0.959^{+0.021}_{-0.021}$	$r_{\text{drag}}h$	$98.5^{+2.9}_{-3.1}$	$H(0.61)$	$94.1^{+4.3}_{-3.9}$
y_{cal}	$1.0005^{+0.0064}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.060}_{-0.061}$	$D_{\text{M}}(0.61)$	2346^{+120}_{-120}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	$7.5^{+2.0}_{-2.2}$	$H(2.33)$	$234.4^{+8.2}_{-7.6}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_{\text{s}}$	$2.082^{+0.099}_{-0.092}$	$D_{\text{M}}(2.33)$	5837^{+250}_{-250}
A_{143}^{tSZ}	> 0.881	$10^9 A_{\text{s}}e^{-2\tau}$	$1.872^{+0.048}_{-0.045}$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017}$
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1239^{+40}_{-37}	$\sigma_8(0.15)$	$0.742^{+0.028}_{-0.026}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5734^{+99}_{-99}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{810}	2537^{+36}_{-34}	$\sigma_8(0.38)$	$0.657^{+0.026}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.015}$
A^{kSZ}	—	D_{2000}	$231.6^{+4.7}_{-4.6}$	$\sigma_8(0.51)$	$0.614^{+0.025}_{-0.024}$
A_{100}^{dustTT}	$8.8^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	$0.959^{+0.021}_{-0.021}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.015}$
A_{143}^{dustTT}	$10.8^{+4.6}_{-4.6}$	Y_{P}	$0.2438^{+0.0091}_{-0.010}$	$\sigma_8(0.61)$	$0.584^{+0.024}_{-0.023}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.1}_{-8.4}$	$Y_{\text{P}}^{\text{BBN}}$	$0.2451^{+0.0092}_{-0.011}$	$f\sigma_8(2.33)$	$0.294^{+0.013}_{-0.012}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.97^{+0.59}_{-0.59}$	$\sigma_8(2.33)$	$0.303^{+0.014}_{-0.013}$
A_{100}^{dustTE}	$0.114^{+0.095}_{-0.094}$	z_*	$1089.75^{+0.81}_{-0.83}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.077}$	r_*	$146.0^{+5.3}_{-5.5}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$100\theta_*$	$1.0415^{+0.0017}_{-0.0017}$	f_{2000}^{217}	$106.4^{+4.9}_{-4.9}$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$14.02^{+0.49}_{-0.51}$	χ_{lensing}^2	$9.01 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.3^{+1.9}_{-1.8}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.71}$	r_{drag}	$148.7^{+5.5}_{-5.7}$	χ_{lowl}^2	$24.4 (\nu: 1.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1397^{+0.0046}_{-0.0041}$	χ_{plik}^2	$2359.1 (\nu: 17.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	$0.16046^{+0.00099}_{-0.00097}$	χ_{Aver15}^2	$0.99 (\nu: 0.9)$
H_0	$66.2^{+4.1}_{-3.9}$	z_{eq}	3420^{+95}_{-90}	χ_{prior}^2	$11.5 (\nu: 9.8)$
Ω_{Λ}	$0.679^{+0.024}_{-0.027}$	k_{eq}	$0.01032^{+0.00033}_{-0.00032}$	χ_{CMB}^2	$2789.4 (\nu: 18.1)$
Ω_{m}	$0.321^{+0.027}_{-0.024}$	$100\theta_{\text{eq}}$	$0.810^{+0.017}_{-0.017}$		

$$\bar{\chi}_{\text{eff}}^2 = 2801.87; R - 1 = 0.01524$$

11.36 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00047}_{-0.00046}$	$\Omega_m h^3$	$0.0953^{+0.011}_{-0.0099}$	$D_M(0.15)$	644^{+31}_{-29}
$\Omega_c h^2$	$0.1185^{+0.0091}_{-0.0087}$	σ_8	$0.807^{+0.026}_{-0.027}$	$H(0.38)$	$82.7^{+3.4}_{-3.4}$
$100\theta_{MC}$	$1.0411^{+0.0016}_{-0.0016}$	S_8	$0.824^{+0.029}_{-0.031}$	$D_M(0.38)$	1536^{+70}_{-66}
τ	$0.056^{+0.020}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.016}_{-0.017}$	$H(0.51)$	$89.4^{+3.6}_{-3.6}$
N_{eff}	$2.99^{+0.55}_{-0.53}$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.018}_{-0.020}$	$D_M(0.51)$	1990^{+89}_{-84}
Y_P	$0.2437^{+0.0095}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.984^{+0.021}_{-0.022}$	$H(0.61)$	$95.0^{+3.7}_{-3.7}$
$\ln(10^{10} A_s)$	$3.044^{+0.041}_{-0.042}$	$r_{\text{drag}} h$	$99.5^{+2.0}_{-2.2}$	$D_M(0.61)$	2315^{+100}_{-96}
n_s	$0.964^{+0.018}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.055}_{-0.054}$	$H(2.33)$	$235.4^{+7.8}_{-7.6}$
y_{cal}	$1.0007^{+0.0061}_{-0.0060}$	z_{re}	$7.8^{+1.9}_{-1.9}$	$D_M(2.33)$	5784^{+220}_{-210}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_s$	$2.098^{+0.088}_{-0.086}$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.016}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.876^{+0.047}_{-0.045}$	$\sigma_8(0.15)$	$0.746^{+0.025}_{-0.026}$
A_{143}^{tSZ}	—	D_{40}	1232^{+34}_{-33}	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.016}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5739^{+99}_{-96}	$\sigma_8(0.38)$	$0.661^{+0.023}_{-0.024}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+36}_{-34}	$f\sigma_8(0.51)$	$0.472^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.619^{+0.022}_{-0.023}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.7}_{-4.5}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.015}$
A^{kSZ}	—	$n_{s,0.002}$	$0.964^{+0.018}_{-0.019}$	$\sigma_8(0.61)$	$0.589^{+0.021}_{-0.022}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.5}$	Y_P	$0.2437^{+0.0095}_{-0.010}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.011}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	$0.2450^{+0.0095}_{-0.010}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.0}_{-8.1}$	Age/Gyr	$13.85^{+0.54}_{-0.51}$	f_{2000}^{143}	29^{+7}_{-7}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.69^{+0.79}_{-0.80}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{100}^{dustTE}	$0.114^{+0.093}_{-0.092}$	r_*	$145.1^{+5.3}_{-5.1}$	f_{2000}^{217}	$106.5^{+4.9}_{-4.9}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.077}$	$100\theta_*$	$1.0413^{+0.0017}_{-0.0016}$	χ_{lensing}^2	$9.04 (\nu: 0.2)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.94^{+0.49}_{-0.47}$	χ_{simall}^2	$397.3 (\nu: 2.0)$
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.14}$	z_{drag}	$1059.7^{+1.7}_{-1.8}$	χ_{lowl}^2	$23.5 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.22}$	r_{drag}	$147.8^{+5.6}_{-5.3}$	χ_{plik}^2	$2359.9 (\nu: 18.2)$
A_{217}^{dustTE}	$2.07^{+0.72}_{-0.70}$	k_D	$0.1404^{+0.0042}_{-0.0042}$	χ_{Aver15}^2	$0.98 (\nu: 0.9)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16058^{+0.00093}_{-0.00095}$	$\chi_{6\text{DF}}^2$	$0.071 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3390^{+68}_{-62}	χ_{MGS}^2	$1.18 (\nu: 0.1)$
H_0	$67.3^{+3.2}_{-3.2}$	k_{eq}	$0.01031^{+0.00033}_{-0.00033}$	χ_{DR12BAO}^2	$5.2 (\nu: 1.4)$
Ω_Λ	$0.688^{+0.016}_{-0.018}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{prior}^2	$11.5 (\nu: 9.7)$
Ω_m	$0.312^{+0.018}_{-0.016}$	$100\theta_{s,\text{eq}}$	$0.4506^{+0.0060}_{-0.0063}$	χ_{CMB}^2	$2789.8 (\nu: 18.8)$
$\Omega_m h^2$	$0.1415^{+0.0093}_{-0.0088}$	$H(0.15)$	$72.6^{+3.2}_{-3.2}$	χ_{BAO}^2	$6.4 (\nu: 1.0)$

$$\bar{\chi}_{\text{eff}}^2 = 2808.62; R - 1 = 0.03124$$

11.37 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00053}_{-0.00053}$	$\Omega_{\mathrm{m}}h^2$	$0.1413^{+0.0097}_{-0.0090}$	$100\theta_{\mathrm{s,eq}}$	$0.4478^{+0.0090}_{-0.0090}$
$\Omega_{\mathrm{c}}h^2$	$0.1184^{+0.0095}_{-0.0087}$	$\Omega_{\mathrm{m}}h^3$	$0.094^{+0.012}_{-0.010}$	$H(0.15)$	$71.8^{+4.0}_{-3.7}$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0016}_{-0.0016}$	σ_8	$0.807^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(0.15)$	652^{+38}_{-36}
τ	$0.055^{+0.019}_{-0.013}$	S_8	$0.834^{+0.041}_{-0.041}$	$H(0.38)$	$82.0^{+4.0}_{-3.8}$
N_{eff}	$2.92^{+0.59}_{-0.55}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.022}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1553^{+83}_{-81}
Y_{P}	$0.2437^{+0.0094}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.023}_{-0.023}$	$H(0.51)$	$88.7^{+4.1}_{-3.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.040^{+0.046}_{-0.038}$	$\sigma_8/h^{0.5}$	$0.990^{+0.028}_{-0.029}$	$D_{\mathrm{M}}(0.51)$	2011^{+100}_{-100}
n_{s}	$0.960^{+0.021}_{-0.021}$	$r_{\mathrm{drag}}h$	$98.5^{+3.1}_{-3.1}$	$H(0.61)$	$94.4^{+4.2}_{-3.9}$
y_{cal}	$1.0006^{+0.0064}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.075}_{-0.072}$	$D_{\mathrm{M}}(0.61)$	2338^{+120}_{-120}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.42	$H(2.33)$	$235.0^{+8.3}_{-7.7}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.092^{+0.098}_{-0.078}$	$D_{\mathrm{M}}(2.33)$	5820^{+240}_{-240}
A_{143}^{tSZ}	> 0.890	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.875^{+0.049}_{-0.047}$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
A_{100}^{PS}	256^{+70}_{-70}	D_{40}	1238^{+39}_{-38}	$\sigma_8(0.15)$	$0.745^{+0.028}_{-0.027}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5732^{+98}_{-99}	$f\sigma_8(0.38)$	$0.477^{+0.018}_{-0.019}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2538^{+36}_{-35}	$\sigma_8(0.38)$	$0.659^{+0.026}_{-0.024}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.475^{+0.017}_{-0.017}$
A^{kSZ}	—	D_{2000}	$231.5^{+4.7}_{-4.7}$	$\sigma_8(0.51)$	$0.617^{+0.024}_{-0.023}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.6}_{-4.8}$	$n_{\mathrm{s},0.002}$	$0.960^{+0.021}_{-0.021}$	$f\sigma_8(0.61)$	$0.469^{+0.016}_{-0.017}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.6}_{-4.6}$	Y_{P}	$0.2437^{+0.0094}_{-0.011}$	$\sigma_8(0.61)$	$0.587^{+0.023}_{-0.022}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.4}_{-8.4}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2450^{+0.0095}_{-0.011}$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	Age/Gyr	$13.93^{+0.57}_{-0.57}$	$\sigma_8(2.33)$	$0.304^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.096}_{-0.095}$	z_*	$1089.81^{+0.87}_{-0.88}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.075}$	r_*	$145.6^{+5.5}_{-5.4}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.0414^{+0.0017}_{-0.0017}$	f_{2000}^{217}	$106.5^{+5.0}_{-4.9}$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.98^{+0.50}_{-0.50}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.5^{+1.9}_{-1.8}$	χ_{lowl}^2	$24.3 (\nu: 1.1)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.70}_{-0.68}$	r_{drag}	$148.3^{+5.7}_{-5.6}$	χ_{plik}^2	$2359.2 (\nu: 18.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.1400^{+0.0045}_{-0.0042}$	χ_{Aver15}^2	$0.99 (\nu: 1.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16052^{+0.00096}_{-0.00099}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
H_0	$66.4^{+4.0}_{-3.8}$	z_{eq}	3419^{+97}_{-95}	χ_{CMB}^2	$2780.5 (\nu: 17.4)$
Ω_{Λ}	$0.680^{+0.025}_{-0.028}$	k_{eq}	$0.01035^{+0.00035}_{-0.00034}$		
Ω_{m}	$0.320^{+0.028}_{-0.025}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.018}_{-0.018}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2792.93; R - 1 = 0.01332$$

11.38 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00049}_{-0.00046}$	$\Omega_m h^3$	$0.096^{+0.011}_{-0.010}$	$D_M(0.15)$	642^{+32}_{-29}
$\Omega_c h^2$	$0.1189^{+0.0095}_{-0.0089}$	σ_8	$0.808^{+0.029}_{-0.029}$	$H(0.38)$	$82.9^{+3.3}_{-3.5}$
$100\theta_{MC}$	$1.0410^{+0.0016}_{-0.0016}$	S_8	$0.824^{+0.035}_{-0.037}$	$D_M(0.38)$	1532^{+72}_{-66}
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.019}_{-0.020}$	$H(0.51)$	$89.6^{+3.5}_{-3.6}$
N_{eff}	$3.02^{+0.56}_{-0.53}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.022}_{-0.022}$	$D_M(0.51)$	1985^{+91}_{-83}
Y_P	$0.2437^{+0.0095}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.984^{+0.026}_{-0.027}$	$H(0.61)$	$95.2^{+3.6}_{-3.8}$
$\ln(10^{10} A_s)$	$3.045^{+0.044}_{-0.039}$	$r_{\text{drag}} h$	$99.6^{+2.1}_{-2.2}$	$D_M(0.61)$	2310^{+100}_{-95}
n_s	$0.965^{+0.017}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.063}_{-0.059}$	$H(2.33)$	$235.7^{+7.9}_{-7.8}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	z_{re}	< 9.63	$D_M(2.33)$	5772^{+230}_{-210}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.100^{+0.095}_{-0.081}$	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.877^{+0.050}_{-0.047}$	$\sigma_8(0.15)$	$0.747^{+0.027}_{-0.027}$
A_{143}^{tSZ}	—	D_{40}	1230^{+34}_{-34}	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.018}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5737^{+100}_{-99}	$\sigma_8(0.38)$	$0.662^{+0.024}_{-0.024}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+36}_{-34}	$f\sigma_8(0.51)$	$0.473^{+0.017}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.620^{+0.023}_{-0.023}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.4^{+4.6}_{-4.7}$	$f\sigma_8(0.61)$	$0.468^{+0.017}_{-0.016}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.017}_{-0.019}$	$\sigma_8(0.61)$	$0.590^{+0.022}_{-0.022}$
$A_{100}^{\text{dust}TT}$	$8.9^{+4.4}_{-4.6}$	Y_P	$0.2437^{+0.0095}_{-0.010}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.011}$
$A_{143}^{\text{dust}TT}$	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	$0.2450^{+0.0095}_{-0.010}$	$\sigma_8(2.33)$	$0.307^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dust}TT}$	$18.5^{+8.0}_{-8.1}$	Age/Gyr	$13.82^{+0.55}_{-0.50}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\text{dust}TT}$	94^{+20}_{-20}	z_*	$1089.72^{+0.81}_{-0.87}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100}^{\text{dust}TE}$	$0.114^{+0.093}_{-0.092}$	r_*	$144.9^{+5.3}_{-5.0}$	f_{2000}^{217}	$106.6^{+4.7}_{-4.9}$
$A_{100 \times 143}^{\text{dust}TE}$	$0.135^{+0.075}_{-0.077}$	$100\theta_*$	$1.0413^{+0.0017}_{-0.0016}$	χ_{simall}^2	$397.2 (\nu: 2.0)$
$A_{100 \times 217}^{\text{dust}TE}$	$0.48^{+0.23}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.91^{+0.50}_{-0.47}$	χ_{lowl}^2	$23.4 (\nu: 0.6)$
$A_{143}^{\text{dust}TE}$	$0.23^{+0.13}_{-0.14}$	z_{drag}	$1059.8^{+1.8}_{-1.8}$	χ_{plik}^2	$2360.4 (\nu: 19.5)$
$A_{143 \times 217}^{\text{dust}TE}$	$0.67^{+0.21}_{-0.22}$	r_{drag}	$147.5^{+5.5}_{-5.2}$	χ_{Aver15}^2	$0.98 (\nu: 1.0)$
$A_{217}^{\text{dust}TE}$	$2.07^{+0.72}_{-0.68}$	k_D	$0.1406^{+0.0042}_{-0.0042}$	$\chi_{6\text{DF}}^2$	$0.066 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	$0.16063^{+0.00092}_{-0.00096}$	χ_{MGS}^2	$1.23 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3387^{+70}_{-68}	χ_{DR12BAO}^2	$5.0 (\nu: 1.4)$
H_0	$67.5^{+3.2}_{-3.3}$	k_{eq}	$0.01032^{+0.00035}_{-0.00034}$	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_Λ	$0.688^{+0.016}_{-0.019}$	$100\theta_{\text{eq}}$	$0.816^{+0.012}_{-0.013}$	χ_{BAO}^2	$6.3 (\nu: 0.9)$
Ω_m	$0.312^{+0.019}_{-0.016}$	$100\theta_{s,\text{eq}}$	$0.4508^{+0.0064}_{-0.0065}$	χ_{CMB}^2	$2781.0 (\nu: 18.4)$
$\Omega_m h^2$	$0.1419^{+0.0098}_{-0.0091}$	$H(0.15)$	$72.8^{+3.3}_{-3.3}$		

$$\bar{\chi}_{\text{eff}}^2 = 2799.83; R - 1 = 0.03359$$

11.39 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02225^{+0.00053}_{-0.00051}$	$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0096}_{-0.0087}$	$100\theta_{\mathrm{s,eq}}$	$0.4479^{+0.0084}_{-0.0084}$
$\Omega_{\mathrm{c}}h^2$	$0.1178^{+0.0093}_{-0.0085}$	$\Omega_{\mathrm{m}}h^3$	$0.0933^{+0.012}_{-0.0098}$	$H(0.15)$	$71.6^{+4.0}_{-3.7}$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0016}_{-0.0016}$	σ_8	$0.805^{+0.028}_{-0.025}$	$D_{\mathrm{M}}(0.15)$	653^{+36}_{-36}
τ	$0.054^{+0.018}_{-0.013}$	S_8	$0.831^{+0.033}_{-0.033}$	$H(0.38)$	$81.8^{+4.1}_{-3.7}$
N_{eff}	$2.89^{+0.61}_{-0.52}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1556^{+82}_{-81}
Y_{P}	$0.2438^{+0.0092}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.018}_{-0.019}$	$H(0.51)$	$88.5^{+4.2}_{-3.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.038^{+0.044}_{-0.035}$	$\sigma_8/h^{0.5}$	$0.989^{+0.022}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	2015^{+100}_{-100}
n_{s}	$0.959^{+0.021}_{-0.020}$	$r_{\mathrm{drag}}h$	$98.6^{+2.9}_{-2.9}$	$H(0.61)$	$94.1^{+4.3}_{-3.8}$
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.059}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2343^{+120}_{-120}
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.32	$H(2.33)$	$234.5^{+8.2}_{-7.5}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.087^{+0.094}_{-0.072}$	$D_{\mathrm{M}}(2.33)$	5833^{+240}_{-250}
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.872^{+0.047}_{-0.045}$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017}$
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1239^{+36}_{-36}	$\sigma_8(0.15)$	$0.743^{+0.027}_{-0.024}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5733^{+98}_{-97}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2537^{+36}_{-33}	$\sigma_8(0.38)$	$0.658^{+0.025}_{-0.023}$
A_{217}^{PS}	115^{+30}_{-30}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.015}$
A^{kSZ}	—	D_{2000}	$231.6^{+4.6}_{-4.6}$	$\sigma_8(0.51)$	$0.615^{+0.024}_{-0.022}$
$A_{100}^{\mathrm{dustTT}}$	$8.8^{+4.7}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.959^{+0.021}_{-0.020}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.014}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.5}$	Y_{P}	$0.2438^{+0.0092}_{-0.011}$	$\sigma_8(0.61)$	$0.585^{+0.024}_{-0.021}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+7.9}_{-8.4}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2451^{+0.0092}_{-0.011}$	$f\sigma_8(2.33)$	$0.295^{+0.012}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	Age/Gyr	$13.96^{+0.56}_{-0.59}$	$\sigma_8(2.33)$	$0.303^{+0.014}_{-0.012}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.095}_{-0.094}$	z_*	$1089.75^{+0.79}_{-0.82}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.077}_{-0.077}$	r_*	$145.9^{+5.3}_{-5.5}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$100\theta_*$	$1.0415^{+0.0016}_{-0.0017}$	f_{2000}^{217}	$106.4^{+4.8}_{-4.9}$
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.01^{+0.48}_{-0.51}$	$\chi_{\mathrm{lensing}}^2$	$9.00 (\nu: 0.2)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.4^{+1.9}_{-1.7}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.70}_{-0.71}$	r_{drag}	$148.7^{+5.4}_{-5.7}$	χ_{lowl}^2	$24.4 (\nu: 1.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_{D}	$0.1397^{+0.0046}_{-0.0042}$	χ_{plik}^2	$2358.9 (\nu: 17.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16047^{+0.00099}_{-0.00094}$	χ_{Aver15}^2	$1.0 (\nu: 0.9)$
H_0	$66.3^{+4.0}_{-3.7}$	z_{eq}	3418^{+93}_{-87}	χ_{prior}^2	$11.5 (\nu: 9.9)$
Ω_{Λ}	$0.680^{+0.023}_{-0.026}$	k_{eq}	$0.01032^{+0.00033}_{-0.00032}$	χ_{CMB}^2	$2789.1 (\nu: 17.7)$
Ω_{m}	$0.320^{+0.026}_{-0.023}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.016}_{-0.016}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2801.62; R - 1 = 0.01633$$

11.40 base_nnu_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02237^{+0.00047}_{-0.00046}$	$\Omega_{\mathrm{m}}h^3$	$0.0953^{+0.011}_{-0.0097}$	$D_{\mathrm{M}}(0.15)$	644^{+31}_{-29}
$\Omega_{\mathrm{c}}h^2$	$0.1185^{+0.0091}_{-0.0087}$	σ_8	$0.808^{+0.026}_{-0.026}$	$H(0.38)$	$82.7^{+3.5}_{-3.4}$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0016}_{-0.0016}$	S_8	$0.824^{+0.029}_{-0.030}$	$D_{\mathrm{M}}(0.38)$	1536^{+70}_{-66}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.016}_{-0.017}$	$H(0.51)$	$89.4^{+3.6}_{-3.6}$
N_{eff}	$2.99^{+0.54}_{-0.53}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.018}_{-0.019}$	$D_{\mathrm{M}}(0.51)$	1989^{+89}_{-83}
Y_{P}	$0.2437^{+0.0095}_{-0.010}$	$\sigma_8/h^{0.5}$	$0.984^{+0.021}_{-0.022}$	$H(0.61)$	$95.0^{+3.7}_{-3.7}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.040}_{-0.037}$	$r_{\mathrm{drag}}h$	$99.5^{+2.0}_{-2.1}$	$D_{\mathrm{M}}(0.61)$	2315^{+100}_{-95}
n_{s}	$0.964^{+0.017}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.054}_{-0.053}$	$H(2.33)$	$235.4^{+7.8}_{-7.6}$
y_{cal}	$1.0007^{+0.0062}_{-0.0060}$	z_{re}	< 9.62	$D_{\mathrm{M}}(2.33)$	5783^{+220}_{-210}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.101^{+0.086}_{-0.076}$	$f\sigma_8(0.15)$	$0.456^{+0.015}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.876^{+0.047}_{-0.045}$	$\sigma_8(0.15)$	$0.746^{+0.025}_{-0.025}$
A_{143}^{tSZ}	—	D_{40}	1231^{+34}_{-33}	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.015}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5739^{+99}_{-96}	$\sigma_8(0.38)$	$0.662^{+0.023}_{-0.023}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2538^{+35}_{-34}	$f\sigma_8(0.51)$	$0.472^{+0.014}_{-0.015}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.51)$	$0.619^{+0.022}_{-0.022}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.5^{+4.7}_{-4.5}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.015}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.017}_{-0.019}$	$\sigma_8(0.61)$	$0.589^{+0.021}_{-0.021}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.5}_{-4.6}$	Y_{P}	$0.2437^{+0.0095}_{-0.010}$	$f\sigma_8(2.33)$	$0.297^{+0.011}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2451^{+0.0095}_{-0.010}$	$\sigma_8(2.33)$	$0.306^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.5^{+8.0}_{-8.0}$	Age/Gyr	$13.85^{+0.53}_{-0.51}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.69^{+0.79}_{-0.79}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.093}_{-0.092}$	r_*	$145.1^{+5.3}_{-5.1}$	f_{2000}^{217}	$106.5^{+4.8}_{-5.1}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.078}$	$100\theta_*$	$1.0413^{+0.0017}_{-0.0016}$	$\chi_{\mathrm{lensing}}^2$	$9.02 (\nu: 0.2)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.23}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.94^{+0.49}_{-0.47}$	χ_{simall}^2	$397.3 (\nu: 2.1)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.13}_{-0.14}$	z_{drag}	$1059.8^{+1.7}_{-1.7}$	χ_{lowl}^2	$23.5 (\nu: 0.6)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.22}$	r_{drag}	$147.8^{+5.5}_{-5.3}$	χ_{plik}^2	$2359.8 (\nu: 18.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.72}_{-0.70}$	k_{D}	$0.1404^{+0.0042}_{-0.0042}$	χ_{Aver15}^2	$0.98 (\nu: 1.0)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16058^{+0.00092}_{-0.00095}$	$\chi_{6\mathrm{DF}}^2$	$0.069 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3390^{+67}_{-62}	χ_{MGS}^2	$1.19 (\nu: 0.1)$
H_0	$67.3^{+3.2}_{-3.2}$	k_{eq}	$0.01031^{+0.00033}_{-0.00033}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.1 (\nu: 1.3)$
Ω_{Λ}	$0.688^{+0.016}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.012}_{-0.012}$	χ_{prior}^2	$11.5 (\nu: 9.7)$
Ω_{m}	$0.312^{+0.018}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4506^{+0.0059}_{-0.0062}$	χ_{CMB}^2	$2789.7 (\nu: 18.6)$
$\Omega_{\mathrm{m}}h^2$	$0.1415^{+0.0093}_{-0.0088}$	$H(0.15)$	$72.6^{+3.3}_{-3.2}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2808.47; R - 1 = 0.03303$$

11.41 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02236	$0.02219^{+0.00058}_{-0.00057} \quad (-0.3\sigma)$	σ_8	0.8214	$0.801^{+0.032}_{-0.031} \quad (-0.4\sigma)$	$H(0.15)$	73.26	$71.7^{+4.9}_{-4.2} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.1208	$0.117^{+0.010}_{-0.0098} \quad (-0.3\sigma)$	S_8	0.8367	$0.826^{+0.040}_{-0.041} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	638.0	$653^{+43}_{-44} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04069	$1.0412^{+0.0018}_{-0.0017} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4583	$0.452^{+0.022}_{-0.022} \quad (-0.5\sigma)$	$H(0.38)$	83.43	$81.8^{+4.8}_{-4.3} \quad (-0.1\sigma)$
τ	0.0637	$0.052^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6135	$0.602^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	1522	$1556^{+95}_{-98} \quad (+0.0\sigma)$
N_{eff}	3.13	$2.89^{+0.70}_{-0.63} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9964	$0.984^{+0.029}_{-0.030} \quad (-0.5\sigma)$	$H(0.51)$	90.18	$88.5^{+4.9}_{-4.4} \quad (-0.1\sigma)$
Y_{P}	0.2438	$0.244^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	99.56	$98.7^{+3.6}_{-3.4} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	1971	$2014^{+120}_{-120} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.067	$3.031^{+0.050}_{-0.050} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.459	$2.441^{+0.076}_{-0.076} \quad (-0.5\sigma)$	$H(0.61)$	95.83	$94.1^{+4.9}_{-4.5} \quad (-0.1\sigma)$
n_{s}	0.9690	$0.960^{+0.024}_{-0.023} \quad (+0.1\sigma)$	z_{re}	8.63	$7.4^{+2.0}_{-2.4} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	2294	$2343^{+140}_{-140} \quad (+0.0\sigma)$
y_{cal}	1.0019	$1.0004^{+0.0064}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	2.147	$2.07^{+0.11}_{-0.10} \quad (-0.3\sigma)$	$H(2.33)$	237.3	$234.1^{+9.0}_{-8.9} \quad (-0.2\sigma)$
A_{100}^{PS}	234	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.890	$1.867^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	5732	$5835^{+280}_{-280} \quad (+0.1\sigma)$
A_{143}^{PS}	47.2	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	1229.3	$1232^{+41}_{-40} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4629	$0.456^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	105.6	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	5736	$5717^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7590	$0.740^{+0.031}_{-0.030} \quad (-0.3\sigma)$
A_{217}^{CIB}	40.8	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2544.7	$2532^{+37}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4816	$0.473^{+0.018}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{tSZ}	5.40	$< 8.92 \quad (-0.8\sigma)$	D_{1420}	818.8	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6728	$0.655^{+0.029}_{-0.027} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.732	$0.66^{+0.31}_{-0.34}$	D_{2000}	231.3	$231.0^{+5.2}_{-5.0} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4802	$0.471^{+0.018}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.74	—	$n_{\mathrm{s},0.002}$	0.9690	$0.960^{+0.024}_{-0.023} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6297	$0.613^{+0.028}_{-0.026} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.76	—	Y_{P}	0.2438	$0.244^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4752	$0.465^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A^{kSZ}	1.7	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2452	$0.245^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	0.5991	$0.583^{+0.027}_{-0.025} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.72	$13.97^{+0.67}_{-0.66} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.3021	$0.294^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{dust}	0.955	$0.96^{+0.46}_{-0.46}$	z_*	1089.97	$1089.80^{+0.99}_{-0.95} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	0.3115	$0.302^{+0.016}_{-0.014} \quad (-0.2\sigma)$
A_{217}^{dust}	0.978	$0.98^{+0.27}_{-0.27}$	r_*	143.8	$146.1^{+6.4}_{-6.1} \quad (+0.2\sigma)$	f_{2000}^{143}	29.4	$29^{+8}_{-8} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.021	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	1.04089	$1.0415^{+0.0019}_{-0.0018} \quad (+0.1\sigma)$	f_{2000}^{217}	106.6	$106.2^{+5.6}_{-5.6} \quad (-0.2\sigma)$
c_{100}	0.99783	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.82	$14.03^{+0.58}_{-0.57} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{217}	1.00118	$1.0011^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	1059.93	$1059.2^{+2.0}_{-2.0} \quad (-0.3\sigma)$	χ_{small}^2	399.05	$396.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{TE}	0.9961	$0.996^{+0.013}_{-0.013}$	r_{drag}	146.5	$148.8^{+6.6}_{-6.3} \quad (+0.2\sigma)$	χ_{lowl}^2	23.05	$23.9 \quad (\nu: 1.0) \quad (-0.3\sigma)$
c_{EE}	0.9923	$0.990^{+0.015}_{-0.014}$	k_{D}	0.14128	$0.1395^{+0.0049}_{-0.0048} \quad (-0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11514.4 \quad (\nu: 17.1)$
H_0	67.96	$66.4^{+4.9}_{-4.3} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	0.16091	$0.1606^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	χ_{Aver15}^2	0.00	$0.96 \quad (\nu: 0.9) \quad (-0.0\sigma)$
Ω_{Λ}	0.6887	$0.681^{+0.029}_{-0.030} \quad (+0.2\sigma)$	z_{eq}	3383	$3408^{+110}_{-110} \quad (-0.3\sigma)$	χ_{prior}^2	2.4	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
Ω_{m}	0.3113	$0.319^{+0.030}_{-0.029} \quad (-0.2\sigma)$	k_{eq}	0.010381	$0.01029^{+0.00034}_{-0.00035} \quad (-0.4\sigma)$	χ_{CMB}^2	11921.6	$11935.1 \quad (\nu: 17.2) \quad (+1525.5\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.1438	$0.140^{+0.011}_{-0.010} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8166	$0.812^{+0.021}_{-0.020} \quad (+0.3\sigma)$			
$\Omega_{\mathrm{m}} h^3$	0.0977	$0.093^{+0.013}_{-0.012} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4511	$0.449^{+0.011}_{-0.010} \quad (+0.3\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11924.04$; $\Delta\chi_{\mathrm{eff}}^2 = 9159.20$; $\bar{\chi}_{\mathrm{eff}}^2 = 11943.94$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.72$; $R - 1 = 0.01231$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.01 (Δ 0.00) CMB - simall_100x143_offlike5_EE_Aplanck_B: 399.05 (Δ 3.02) commander_dx12_v3.2.29: 23.05 (Δ -1.17) CamSpec like_10.7HM_1400_unified: 11499.50

11.42 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00047}_{-0.00047} \quad (-0.5\sigma)$	S_8	$0.817^{+0.035}_{-0.035} \quad (-0.4\sigma)$	$H(0.38)$	$82.7^{+3.9}_{-3.7} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.118^{+0.010}_{-0.0096} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.019}_{-0.019} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1535^{+76}_{-76} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0016}_{-0.0016} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.023}_{-0.024} \quad (-0.4\sigma)$	$H(0.51)$	$89.4^{+4.0}_{-3.8} \quad (-0.1\sigma)$
τ	$0.053^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1988^{+97}_{-95} \quad (+0.1\sigma)$
N_{eff}	$3.00^{+0.63}_{-0.57} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.3}_{-2.3} \quad (+0.2\sigma)$	$H(0.61)$	$95.0^{+4.2}_{-4.0} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0097}_{-0.010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.066}_{-0.066} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2314^{+110}_{-110} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.035^{+0.051}_{-0.047} \quad (-0.4\sigma)$	z_{re}	$7.5^{+2.0}_{-2.2} \quad (-0.3\sigma)$	$H(2.33)$	$235.1^{+9.0}_{-8.4} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.08^{+0.11}_{-0.096} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5785^{+250}_{-240} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0061} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.052}_{-0.052} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.019}_{-0.019} \quad (-0.4\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.742^{+0.031}_{-0.029} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.018}_{-0.019} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2534^{+37}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.658^{+0.028}_{-0.027} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+14}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	D_{2000}	$230.7^{+5.1}_{-5.0} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.616^{+0.026}_{-0.025} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.018}_{-0.018} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0097}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.586^{+0.025}_{-0.024} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2455^{+0.0098}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A^{kSZ}	—	Age/Gyr	$13.85^{+0.58}_{-0.57} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1089.77^{+0.94}_{-0.97} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.45}_{-0.45}$	r_*	$145.3^{+5.7}_{-5.7} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.5^{+5.7}_{-5.8} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0017}_{-0.0017} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.53}_{-0.53} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.2) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0029} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.8}_{-1.8} \quad (-0.3\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.6) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.6\sigma)$	r_{drag}	$148.0^{+5.9}_{-5.9} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.0 \quad (\nu: 16.1)$
c_{TE}	$0.996^{+0.012}_{-0.012}$	k_{D}	$0.1401^{+0.0046}_{-0.0044} \quad (-0.2\sigma)$	χ_{Aver15}^2	$0.97 \quad (\nu: 0.9) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.058 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$67.4^{+3.7}_{-3.5} \quad (-0.0\sigma)$	z_{eq}	$3379^{+72}_{-71} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.31 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019} \quad (+0.2\sigma)$	k_{eq}	$0.01028^{+0.00036}_{-0.00034} \quad (-0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.2) \quad (-0.2\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.018} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.141^{+0.011}_{-0.0098} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0068}_{-0.0067} \quad (+0.3\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.095^{+0.012}_{-0.011} \quad (-0.1\sigma)$	$H(0.15)$	$72.7^{+3.8}_{-3.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11934.9 \quad (\nu: 15.8) \quad (+1485.9\sigma)$
σ_8	$0.803^{+0.033}_{-0.031} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+34}_{-33} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.86; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.82; R - 1 = 0.01509$$

11.43 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02216^{+0.00057}_{-0.00054} \quad (-0.4\sigma)$	σ_8	$0.801^{+0.030}_{-0.028} \quad (-0.3\sigma)$	$H(0.15)$	$71.4^{+4.7}_{-4.3} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.117^{+0.010}_{-0.0090} \quad (-0.2\sigma)$	S_8	$0.828^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$656^{+44}_{-43} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0017}_{-0.0017} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$81.5^{+4.8}_{-4.4} \quad (-0.1\sigma)$
τ	$0.053^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1562^{+97}_{-96} \quad (+0.1\sigma)$
N_{eff}	$2.85^{+0.71}_{-0.62} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.022}_{-0.023} \quad (-0.3\sigma)$	$H(0.51)$	$88.2^{+4.9}_{-4.3} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.5^{+3.3}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2022^{+120}_{-120} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.031^{+0.046}_{-0.048} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.063}_{-0.065} \quad (-0.3\sigma)$	$H(0.61)$	$93.8^{+5.0}_{-4.4} \quad (-0.1\sigma)$
n_{s}	$0.959^{+0.023}_{-0.023} \quad (+0.0\sigma)$	z_{re}	$7.5^{+1.9}_{-2.2} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2352^{+140}_{-140} \quad (+0.1\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.073^{+0.098}_{-0.098} \quad (-0.2\sigma)$	$H(2.33)$	$233.7^{+9.1}_{-8.1} \quad (-0.2\sigma)$
A_{100}^{PS}	$236^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.866^{+0.051}_{-0.051} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5852^{+280}_{-290} \quad (+0.2\sigma)$
A_{143}^{PS}	$37^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1235^{+37}_{-37} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5719^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.739^{+0.029}_{-0.027} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2533^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.8\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.655^{+0.027}_{-0.026} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.31}_{-0.33}$	D_{2000}	$231.3^{+5.2}_{-5.1} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.959^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.612^{+0.026}_{-0.025} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0099}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.582^{+0.026}_{-0.025} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$14.01^{+0.65}_{-0.68} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.293^{+0.014}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.44}$	z_*	$1089.78^{+0.92}_{-0.89} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.302^{+0.015}_{-0.015} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$146.4^{+5.9}_{-6.2} \quad (+0.2\sigma)$	f_{2000}^{143}	$28^{+8}_{-8} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.41}$	$100\theta_*$	$1.0415^{+0.0018}_{-0.0018} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.0^{+5.5}_{-5.4} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.06^{+0.54}_{-0.57} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{217}	$1.0010^{+0.0040}_{-0.0039} \quad (+4.5\sigma)$	z_{drag}	$1059.1^{+2.0}_{-1.9} \quad (-0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.03 \quad (\nu: 0.3) \quad (+0.0\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	r_{drag}	$149.2^{+6.1}_{-6.4} \quad (+0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.1) \quad (-0.1\sigma)$
c_{EE}	$0.990^{+0.014}_{-0.014}$	k_{D}	$0.1393^{+0.0050}_{-0.0045} \quad (-0.2\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 1.0) \quad (-0.2\sigma)$
H_0	$66.1^{+4.8}_{-4.4} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1605^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.6 \quad (\nu: 15.4)$
Ω_{Λ}	$0.680^{+0.027}_{-0.029} \quad (+0.0\sigma)$	z_{eq}	$3415^{+110}_{-100} \quad (-0.1\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.9) \quad (-0.0\sigma)$
Ω_{m}	$0.320^{+0.029}_{-0.027} \quad (-0.0\sigma)$	k_{eq}	$0.01028^{+0.00033}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.140^{+0.010}_{-0.0093} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.019}_{-0.019} \quad (+0.1\sigma)$	χ_{CMB}^2	$11943.6 \quad (\nu: 16.6) \quad (+1519.6\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.092^{+0.014}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4481^{+0.0099}_{-0.0097} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.31; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.44; R - 1 = 0.01285$$

11.44 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00048}_{-0.00047} \quad (-0.5\sigma)$	S_8	$0.821^{+0.028}_{-0.029} \quad (-0.3\sigma)$	$H(0.38)$	$82.6^{+3.9}_{-3.6} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0099}_{-0.0095} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1538^{+76}_{-75} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0016}_{-0.0016} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$89.2^{+4.1}_{-3.8} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1993^{+96}_{-96} \quad (+0.1\sigma)$
N_{eff}	$2.98^{+0.61}_{-0.57} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.5^{+2.2}_{-2.2} \quad (+0.1\sigma)$	$H(0.61)$	$94.8^{+4.2}_{-3.9} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0097}_{-0.011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.055}_{-0.055} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2319^{+110}_{-110} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.042}_{-0.041} \quad (-0.3\sigma)$	z_{re}	$7.7^{+1.8}_{-1.9} \quad (-0.1\sigma)$	$H(2.33)$	$234.9^{+8.4}_{-8.2} \quad (-0.1\sigma)$
n_{s}	$0.964^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.089^{+0.090}_{-0.084} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5793^{+240}_{-240} \quad (+0.1\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.050}_{-0.049} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1228^{+33}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.027}_{-0.026} \quad (-0.2\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5726^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.014}_{-0.015} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+36}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.025}_{-0.024} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{2000}	$230.9^{+5.0}_{-5.0} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.024}_{-0.023} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0097}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.023}_{-0.022} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0098}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A^{kSZ}	—	Age/Gyr	$13.87^{+0.58}_{-0.57} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.012} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1089.77^{+0.89}_{-0.91} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.44}$	r_*	$145.4^{+5.6}_{-5.6} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.8}_{-5.7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0016}_{-0.0017} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.52}_{-0.51} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.26 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0029} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.8}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.3) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.5\sigma)$	r_{drag}	$148.1^{+5.8}_{-5.7} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	k_{D}	$0.1401^{+0.0045}_{-0.0044} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.1 \quad (\nu: 15.2)$
c_{EE}	$0.991^{+0.014}_{-0.014}$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0011}_{-0.0011} \quad (+0.3\sigma)$	χ_{Aver15}^2	$0.96 \quad (\nu: 0.9) \quad (-0.0\sigma)$
H_0	$67.2^{+3.8}_{-3.4} \quad (-0.1\sigma)$	z_{eq}	$3385^{+71}_{-74} \quad (-0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.068 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.688^{+0.018}_{-0.019} \quad (+0.0\sigma)$	k_{eq}	$0.01028^{+0.00033}_{-0.00033} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.22 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{m}	$0.312^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.013}_{-0.013} \quad (+0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.141^{+0.010}_{-0.0095} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0070}_{-0.0065} \quad (+0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.095^{+0.012}_{-0.011} \quad (-0.1\sigma)$	$H(0.15)$	$72.5^{+3.8}_{-3.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.7 \quad (\nu: 15.9) \quad (+1493.2\sigma)$
σ_8	$0.805^{+0.029}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+33}_{-33} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.9) \quad (-0.1\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 11958.76$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.14$; $R - 1 = 0.01459$

11.45 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02220^{+0.00057}_{-0.00058} \quad (-0.3\sigma)$	σ_8	$0.803^{+0.032}_{-0.029} \quad (-0.4\sigma)$	$H(0.15)$	$71.7^{+4.9}_{-4.3} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.117^{+0.010}_{-0.0099} \quad (-0.3\sigma)$	S_8	$0.826^{+0.040}_{-0.041} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$652^{+43}_{-44} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0018}_{-0.0017} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.022}_{-0.023} \quad (-0.5\sigma)$	$H(0.38)$	$81.9^{+4.9}_{-4.3} \quad (-0.1\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1554^{+96}_{-98} \quad (+0.0\sigma)$
N_{eff}	$2.90^{+0.69}_{-0.63} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.028}_{-0.029} \quad (-0.5\sigma)$	$H(0.51)$	$88.6^{+4.9}_{-4.3} \quad (-0.1\sigma)$
Y_{P}	$0.244^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.8^{+3.6}_{-3.4} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$2012^{+120}_{-120} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.035^{+0.047}_{-0.037} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.444^{+0.076}_{-0.075} \quad (-0.5\sigma)$	$H(0.61)$	$94.2^{+4.9}_{-4.4} \quad (-0.1\sigma)$
n_{s}	$0.961^{+0.024}_{-0.022} \quad (+0.1\sigma)$	z_{re}	$< 9.26 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2341^{+140}_{-140} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.08^{+0.10}_{-0.077} \quad (-0.4\sigma)$	$H(2.33)$	$234.2^{+9.0}_{-8.9} \quad (-0.3\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.867^{+0.054}_{-0.055} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5831^{+280}_{-280} \quad (+0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1232^{+41}_{-40} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5716^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.741^{+0.030}_{-0.028} \quad (-0.4\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2532^{+36}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.018}_{-0.018} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.94 \quad (-0.8\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.028}_{-0.026} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$231.0^{+5.3}_{-5.0} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.961^{+0.024}_{-0.022} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.614^{+0.027}_{-0.024} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.244^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.584^{+0.027}_{-0.024} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$13.96^{+0.66}_{-0.66} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.46}$	z_*	$1089.8^{+1.0}_{-0.95} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$146.0^{+6.4}_{-6.1} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	$1.0414^{+0.0019}_{-0.0018} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.1^{+5.6}_{-5.6} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.02^{+0.59}_{-0.56} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	z_{drag}	$1059.3^{+2.0}_{-2.0} \quad (-0.3\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$148.8^{+6.6}_{-6.3} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.9 \quad (\nu: 1.0) \quad (-0.3\sigma)$
c_{EE}	$0.990^{+0.015}_{-0.014}$	k_{D}	$0.1396^{+0.0049}_{-0.0048} \quad (-0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.2 \quad (\nu: 17.2)$
H_0	$66.5^{+4.9}_{-4.3} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	χ_{Aver15}^2	$0.96 \quad (\nu: 0.9) \quad (-0.0\sigma)$
Ω_{Λ}	$0.682^{+0.029}_{-0.030} \quad (+0.2\sigma)$	z_{eq}	$3406^{+110}_{-110} \quad (-0.3\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
Ω_{m}	$0.318^{+0.030}_{-0.029} \quad (-0.2\sigma)$	k_{eq}	$0.01029^{+0.00035}_{-0.00035} \quad (-0.4\sigma)$	χ_{CMB}^2	$11934.8 \quad (\nu: 16.9) \quad (+1551.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.140^{+0.011}_{-0.010} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.021}_{-0.019} \quad (+0.3\sigma)$		
$\Omega_{\mathrm{m}} h^3$	$0.093^{+0.013}_{-0.012} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.011}_{-0.0098} \quad (+0.3\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11943.65$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.72$; $R - 1 = 0.01349$

11.46 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00047}_{-0.00048} \quad (-0.5\sigma)$	S_8	$0.818^{+0.035}_{-0.033} \quad (-0.4\sigma)$	$H(0.38)$	$82.7^{+3.9}_{-3.7} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.118^{+0.011}_{-0.0096} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.019}_{-0.018} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+77}_{-75} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0016}_{-0.0017} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.022}_{-0.021} \quad (-0.4\sigma)$	$H(0.51)$	$89.4^{+4.0}_{-3.9} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.024} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1988^{+97}_{-95} \quad (+0.1\sigma)$
N_{eff}	$3.00^{+0.63}_{-0.58} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.3}_{-2.2} \quad (+0.2\sigma)$	$H(0.61)$	$95.0^{+4.1}_{-4.0} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.064}_{-0.058} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2313^{+110}_{-110} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.048}_{-0.035} \quad (-0.4\sigma)$	z_{re}	$< 9.34 \quad (-0.2\sigma)$	$H(2.33)$	$235.1^{+9.0}_{-8.4} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.073} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5784^{+250}_{-240} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0061} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.052}_{-0.052} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.030}_{-0.027} \quad (-0.3\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5721^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.018}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2533^{+37}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.659^{+0.027}_{-0.024} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.8\sigma)$	D_{2000}	$230.7^{+5.1}_{-5.1} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.026}_{-0.023} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.017}_{-0.017} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.025}_{-0.022} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.013}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	Age/Gyr	$13.85^{+0.59}_{-0.56} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1089.77^{+0.94}_{-0.98} \quad (+0.1\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$145.3^{+5.7}_{-5.7} \quad (+0.2\sigma)$	f_{2000}^{217}	$106.4^{+5.8}_{-5.7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.28}$	$100\theta_*$	$1.0413^{+0.0017}_{-0.0017} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.95^{+0.53}_{-0.53} \quad (+0.2\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.2) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0029} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.8}_{-1.8} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.6) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0038} \quad (+4.6\sigma)$	r_{drag}	$147.9^{+5.9}_{-5.8} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.8 \quad (\nu: 16.2)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	k_{D}	$0.1402^{+0.0046}_{-0.0044} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.96 \quad (\nu: 0.9) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0012}_{-0.0011} \quad (+0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.056 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$67.4^{+3.7}_{-3.5} \quad (-0.1\sigma)$	z_{eq}	$3378^{+72}_{-70} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.33 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{Λ}	$0.690^{+0.018}_{-0.019} \quad (+0.2\sigma)$	k_{eq}	$0.01028^{+0.00036}_{-0.00034} \quad (-0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.018} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.013} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.141^{+0.011}_{-0.0098} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0067}_{-0.0067} \quad (+0.3\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.095^{+0.012}_{-0.011} \quad (-0.2\sigma)$	$H(0.15)$	$72.7^{+3.8}_{-3.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11934.7 \quad (\nu: 15.7) \quad (+1507.0\sigma)$
σ_8	$0.805^{+0.032}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+34}_{-33} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.59; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.76; R - 1 = 0.01728$$

11.47 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02217^{+0.00056}_{-0.00054} \quad (-0.4\sigma)$	σ_8	$0.802^{+0.029}_{-0.026} \quad (-0.3\sigma)$	$H(0.15)$	$71.5^{+4.7}_{-4.2} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.117^{+0.010}_{-0.0091} \quad (-0.2\sigma)$	S_8	$0.828^{+0.033}_{-0.032} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$655^{+42}_{-42} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0017}_{-0.0017} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$81.6^{+4.8}_{-4.3} \quad (-0.1\sigma)$
τ	$0.054^{+0.017}_{-0.012} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1560^{+96}_{-96} \quad (+0.1\sigma)$
N_{eff}	$2.86^{+0.70}_{-0.62} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.022}_{-0.023} \quad (-0.3\sigma)$	$H(0.51)$	$88.3^{+4.8}_{-4.4} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$98.6^{+3.3}_{-3.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$2020^{+120}_{-120} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.034^{+0.045}_{-0.036} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.062}_{-0.064} \quad (-0.3\sigma)$	$H(0.61)$	$93.9^{+4.9}_{-4.4} \quad (-0.1\sigma)$
n_{s}	$0.959^{+0.023}_{-0.022} \quad (+0.0\sigma)$	z_{re}	$< 9.17 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2349^{+140}_{-140} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0062} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.079^{+0.095}_{-0.073} \quad (-0.2\sigma)$	$H(2.33)$	$233.8^{+9.1}_{-8.1} \quad (-0.2\sigma)$
A_{100}^{PS}	$236^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.866^{+0.052}_{-0.051} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5848^{+280}_{-280} \quad (+0.2\sigma)$
A_{143}^{PS}	$37^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1235^{+35}_{-37} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.016} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.1\sigma)$	D_{220}	$5719^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.740^{+0.029}_{-0.025} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2533^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.656^{+0.027}_{-0.024} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.30}_{-0.33}$	D_{2000}	$231.2^{+5.2}_{-5.1} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.959^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.613^{+0.026}_{-0.023} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0098}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0099}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.583^{+0.025}_{-0.023} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	Age/Gyr	$14.00^{+0.66}_{-0.67} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.294^{+0.014}_{-0.012} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.45}$	z_*	$1089.77^{+0.89}_{-0.89} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.303^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.26}$	r_*	$146.4^{+5.9}_{-6.2} \quad (+0.2\sigma)$	f_{2000}^{143}	$28^{+8}_{-8} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.40}$	$100\theta_*$	$1.0415^{+0.0018}_{-0.0018} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.0^{+5.5}_{-5.4} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$14.05^{+0.55}_{-0.57} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-6} \quad (-0.1\sigma)$
c_{217}	$1.0010^{+0.0040}_{-0.0039} \quad (+4.4\sigma)$	z_{drag}	$1059.1^{+2.0}_{-1.9} \quad (-0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$8.99 \quad (\nu: 0.2) \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	r_{drag}	$149.1^{+6.2}_{-6.4} \quad (+0.2\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.1) \quad (-0.1\sigma)$
c_{EE}	$0.990^{+0.014}_{-0.014}$	k_{D}	$0.1393^{+0.0050}_{-0.0046} \quad (-0.3\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 0.9) \quad (-0.2\sigma)$
H_0	$66.2^{+4.7}_{-4.2} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.1605^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.5 \quad (\nu: 15.4)$
Ω_{Λ}	$0.680^{+0.027}_{-0.027} \quad (+0.1\sigma)$	z_{eq}	$3412^{+100}_{-100} \quad (-0.2\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.9) \quad (-0.0\sigma)$
Ω_{m}	$0.320^{+0.027}_{-0.027} \quad (-0.1\sigma)$	k_{eq}	$0.01028^{+0.00032}_{-0.00032} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.140^{+0.010}_{-0.0093} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.019}_{-0.018} \quad (+0.1\sigma)$	χ_{CMB}^2	$11943.3 \quad (\nu: 16.2) \quad (+1537.2\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.093^{+0.014}_{-0.011} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4484^{+0.0097}_{-0.0092} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.02; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.40; R - 1 = 0.01312$$

11.48 base_nnu_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00048}_{-0.00047} \quad (-0.5\sigma)$	S_8	$0.821^{+0.028}_{-0.029} \quad (-0.3\sigma)$	$H(0.38)$	$82.6^{+3.9}_{-3.6} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1180^{+0.0098}_{-0.0095} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1538^{+76}_{-75} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0016}_{-0.0016} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.51)$	$89.2^{+4.0}_{-3.8} \quad (-0.1\sigma)$
τ	$0.056^{+0.017}_{-0.014} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.020} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1993^{+96}_{-95} \quad (+0.1\sigma)$
N_{eff}	$2.98^{+0.61}_{-0.57} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.6^{+2.2}_{-2.2} \quad (+0.1\sigma)$	$H(0.61)$	$94.8^{+4.1}_{-3.9} \quad (-0.1\sigma)$
Y_{P}	$0.2441^{+0.0097}_{-0.011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.054}_{-0.053} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2319^{+110}_{-110} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.035} \quad (-0.3\sigma)$	z_{re}	$< 9.33 \quad (-0.1\sigma)$	$H(2.33)$	$234.9^{+8.4}_{-8.2} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.088}_{-0.072} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5793^{+240}_{-240} \quad (+0.1\sigma)$
y_{cal}	$1.0007^{+0.0063}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.050}_{-0.049} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{100}^{PS}	$237^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1228^{+33}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.027}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5726^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+36}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.025}_{-0.023} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{2000}	$231.0^{+5.0}_{-4.9} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.617^{+0.024}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.965^{+0.019}_{-0.018} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2441^{+0.0097}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.587^{+0.023}_{-0.021} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0098}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.296^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A^{kSZ}	—	Age/Gyr	$13.87^{+0.58}_{-0.57} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.013}_{-0.012} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	z_*	$1089.76^{+0.90}_{-0.91} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.95^{+0.44}_{-0.45}$	r_*	$145.4^{+5.6}_{-5.6} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.4^{+5.7}_{-5.7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0016}_{-0.0017} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.40}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.96^{+0.52}_{-0.51} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.21 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0029} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.8}_{-1.8} \quad (-0.3\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.5\sigma)$	r_{drag}	$148.1^{+5.8}_{-5.7} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	k_{D}	$0.1401^{+0.0045}_{-0.0044} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.1 \quad (\nu: 15.2)$
c_{EE}	$0.991^{+0.014}_{-0.014}$	$100\theta_{\mathrm{D}}$	$0.1607^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	χ_{Aver15}^2	$0.96 \quad (\nu: 0.9) \quad (-0.0\sigma)$
H_0	$67.2^{+3.7}_{-3.5} \quad (-0.1\sigma)$	z_{eq}	$3384^{+70}_{-73} \quad (-0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.066 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.688^{+0.018}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01028^{+0.00033}_{-0.00033} \quad (-0.2\sigma)$	χ_{MGS}^2	$1.23 \quad (\nu: 0.1) \quad (+0.1\sigma)$
Ω_{m}	$0.312^{+0.018}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.013}_{-0.013} \quad (+0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 \quad (\nu: 1.3) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.141^{+0.010}_{-0.0095} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4511^{+0.0069}_{-0.0065} \quad (+0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.095^{+0.012}_{-0.011} \quad (-0.1\sigma)$	$H(0.15)$	$72.5^{+3.7}_{-3.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.6 \quad (\nu: 15.8) \quad (+1498.8\sigma)$
σ_8	$0.805^{+0.028}_{-0.026} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+33}_{-33} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.9) \quad (-0.1\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.57; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.10; R - 1 = 0.01608$$

12 nrun

12.1 base_nrun_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02216^{+0.00061}_{-0.00059}$	$\sigma_8 \Omega_m^{0.5}$	0.4595	$0.460^{+0.036}_{-0.033}$	$100\theta_{s,eq}$	0.4483	$0.448^{+0.012}_{-0.012}$
$\Omega_c h^2$	0.1206	$0.1208^{+0.0056}_{-0.0052}$	$\sigma_8 \Omega_m^{0.25}$	0.6110	$0.612^{+0.031}_{-0.030}$	$H(0.15)$	72.32	$72.3^{+2.0}_{-2.0}$
$100\theta_{MC}$	1.04080	$1.0408^{+0.0012}_{-0.0012}$	$\sigma_8/h^{0.5}$	0.9928	$0.994^{+0.042}_{-0.041}$	$D_M(0.15)$	646.9	648^{+21}_{-20}
τ	0.0531	$0.053^{+0.023}_{-0.022}$	$r_{drag}h$	98.52	$98.4^{+4.1}_{-4.2}$	$H(0.38)$	82.57	$82.5^{+1.5}_{-1.4}$
$\ln(10^{10} A_s)$	3.0432	$3.044^{+0.047}_{-0.047}$	$\langle d^2 \rangle^{1/2}$	2.447	$2.45^{+0.10}_{-0.097}$	$D_M(0.38)$	1540.8	1542^{+41}_{-40}
n_s	0.9635	$0.962^{+0.016}_{-0.015}$	z_{re}	7.60	$7.6^{+2.2}_{-2.5}$	$H(0.51)$	89.37	$89.3^{+1.2}_{-1.1}$
$dn_s/d \ln k$	-0.0029	$-0.004^{+0.020}_{-0.019}$	$10^9 A_s$	2.097	$2.10^{+0.10}_{-0.096}$	$D_M(0.51)$	1994.7	1996^{+48}_{-47}
y_{cal}	1.0004	$1.0004^{+0.0063}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8860	$1.887^{+0.036}_{-0.036}$	$H(0.61)$	95.06	$95.03^{+0.95}_{-0.87}$
A_{217}^{CIB}	49.4	48^{+20}_{-20}	D_{40}	1224	1225^{+54}_{-55}	$D_M(0.61)$	2320	2322^{+52}_{-51}
$\xi^{tSZ \times CIB}$	0.24	—	D_{220}	5712	5713^{+110}_{-110}	$H(2.33)$	236.75	$236.8^{+3.4}_{-3.3}$
A_{143}^{tSZ}	7.0	—	D_{810}	2539.2	2538^{+36}_{-36}	$D_M(2.33)$	5774.7	5776^{+41}_{-43}
A_{100}^{PS}	256	266^{+70}_{-70}	D_{1420}	815.3	814^{+13}_{-14}	$f\sigma_8(0.15)$	0.4634	$0.464^{+0.033}_{-0.031}$
A_{143}^{PS}	49.3	50^{+20}_{-20}	D_{2000}	229.8	$229.1^{+4.9}_{-5.1}$	$\sigma_8(0.15)$	0.7498	$0.750^{+0.019}_{-0.020}$
$A_{143 \times 217}^{PS}$	45.4	44^{+20}_{-20}	$n_{s,0.002}$	0.973	$0.976^{+0.060}_{-0.059}$	$f\sigma_8(0.38)$	0.4799	$0.480^{+0.025}_{-0.024}$
A_{217}^{PS}	118.7	115^{+30}_{-30}	Y_P	0.245317	$0.24530^{+0.00024}_{-0.00028}$	$\sigma_8(0.38)$	0.6637	$0.664^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246643	$0.24663^{+0.00024}_{-0.00028}$	$f\sigma_8(0.51)$	0.4775	$0.478^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.89	$9.0^{+4.8}_{-4.7}$	$10^5 D/H$	2.622	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6208	$0.621^{+0.014}_{-0.015}$
A_{143}^{dustTT}	10.86	$10.8^{+4.5}_{-4.6}$	Age/Gyr	13.823	$13.826^{+0.094}_{-0.096}$	$f\sigma_8(0.61)$	0.4718	$0.472^{+0.019}_{-0.019}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.8}_{-8.7}$	z_*	1090.21	$1090.3^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.014}_{-0.014}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	r_*	144.43	$144.4^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	0.2974	$0.2972^{+0.0068}_{-0.0068}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04100	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3062	$0.3060^{+0.0072}_{-0.0071}$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.874	$13.87^{+0.12}_{-0.12}$	f_{2000}^{143}	30.9	32^{+8}_{-8}
H_0	66.95	$66.9^{+2.4}_{-2.4}$	z_{drag}	1059.55	$1059.5^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	33.6	34^{+6}_{-6}
Ω_Λ	0.6801	$0.679^{+0.032}_{-0.036}$	r_{drag}	147.15	$147.1^{+1.3}_{-1.3}$	f_{2000}^{217}	108.0	$108.6^{+5.4}_{-5.3}$
Ω_m	0.3199	$0.321^{+0.036}_{-0.032}$	k_D	0.14066	$0.1407^{+0.0015}_{-0.0015}$	χ_{small}^2	395.91	$397.1 (\nu: 1.5)$
$\Omega_m h^2$	0.1434	$0.1436^{+0.0053}_{-0.0051}$	$100\theta_D$	0.16099	$0.16101^{+0.00075}_{-0.00072}$	χ_{lowl}^2	22.74	$23.1 (\nu: 2.2)$
$\Omega_m h^3$	0.09601	$0.0960^{+0.0013}_{-0.0013}$	z_{eq}	3412	3415^{+130}_{-120}	χ_{plik}^2	759.4	$772.7 (\nu: 16.2)$
σ_8	0.8123	$0.812^{+0.023}_{-0.024}$	k_{eq}	0.010413	$0.01042^{+0.00039}_{-0.00037}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
S_8	0.839	$0.841^{+0.065}_{-0.060}$	$100\theta_{eq}$	0.8110	$0.810^{+0.023}_{-0.023}$	χ_{CMB}^2	1178.0	$1192.9 (\nu: 15.8)$

Best-fit $\chi_{eff}^2 = 1179.45$; $\bar{\chi}_{eff}^2 = 1200.22$; $R - 1 = 0.00668$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.91 commander_dx12_v3.2_29: 22.74 plik_rd12_HM_v22_TT: 759.37

12.2 base_nrun_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02225^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	0.9819	$0.982^{+0.029}_{-0.030}$	$D_M(0.38)$	1529.2	1529^{+24}_{-24}
$\Omega_c h^2$	0.11900	$0.1190^{+0.0032}_{-0.0031}$	$r_{\text{drag}} h$	99.76	$99.8^{+2.4}_{-2.4}$	$H(0.51)$	89.69	$89.69^{+0.79}_{-0.75}$
$100\theta_{\text{MC}}$	1.04101	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.423	$2.424^{+0.072}_{-0.073}$	$D_M(0.51)$	1981.1	1981^{+29}_{-28}
τ	0.0549	$0.055^{+0.024}_{-0.022}$	z_{re}	7.75	$7.7^{+2.3}_{-2.3}$	$H(0.61)$	95.29	$95.29^{+0.68}_{-0.64}$
$\ln(10^{10} A_s)$	3.0428	$3.043^{+0.050}_{-0.046}$	$10^9 A_s$	2.096	$2.10^{+0.11}_{-0.096}$	$D_M(0.61)$	2305.4	2305^{+31}_{-31}
n_s	0.9663	$0.966^{+0.012}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8784	$1.879^{+0.032}_{-0.031}$	$H(2.33)$	235.79	$235.8^{+2.1}_{-2.1}$
$dn_s/d \ln k$	-0.0034	$-0.004^{+0.020}_{-0.019}$	D_{40}	1217	1218^{+51}_{-53}	$D_M(2.33)$	5765.1	5765^{+33}_{-33}
y_{cal}	1.0003	$1.0006^{+0.0065}_{-0.0063}$	D_{220}	5717	5721^{+100}_{-100}	$f\sigma_8(0.15)$	0.4544	$0.454^{+0.020}_{-0.019}$
A_{217}^{CIB}	51.1	48^{+20}_{-20}	D_{810}	2536.4	2537^{+37}_{-36}	$\sigma_8(0.15)$	0.7463	$0.746^{+0.018}_{-0.018}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.06	—	D_{1420}	815.0	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4730	$0.473^{+0.017}_{-0.016}$
A_{143}^{tSZ}	7.2	—	D_{2000}	229.65	$229.6^{+4.8}_{-4.8}$	$\sigma_8(0.38)$	0.6617	$0.662^{+0.016}_{-0.016}$
A_{100}^{PS}	258	264^{+70}_{-70}	$n_{s,0.002}$	0.977	$0.977^{+0.060}_{-0.060}$	$f\sigma_8(0.51)$	0.4718	$0.472^{+0.015}_{-0.015}$
A_{143}^{PS}	46.5	49^{+20}_{-20}	Y_{P}	0.245348	$0.24534^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	0.6193	$0.619^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	40	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246675	$0.24667^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.4669	$0.467^{+0.014}_{-0.014}$
A_{217}^{PS}	115.5	114^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.607	$2.61^{+0.10}_{-0.099}$	$\sigma_8(0.61)$	0.5893	$0.589^{+0.014}_{-0.014}$
A^{kSZ}	0.1	—	Age/Gyr	13.802	$13.802^{+0.077}_{-0.077}$	$f\sigma_8(2.33)$	0.2972	$0.2972^{+0.0072}_{-0.0069}$
A_{100}^{dustTT}	8.98	$9.0^{+4.7}_{-4.8}$	z_*	1089.98	$1089.98^{+0.81}_{-0.79}$	$\sigma_8(2.33)$	0.3065	$0.3065^{+0.0074}_{-0.0070}$
A_{143}^{dustTT}	10.79	$10.8^{+4.6}_{-4.7}$	r_*	144.78	$144.79^{+0.88}_{-0.85}$	f_{2000}^{143}	31.1	32^{+8}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.4^{+8.2}_{-8.5}$	$100\theta_*$	1.04120	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.7	34^{+6}_{-6}
A_{217}^{dustTT}	93.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.905	$13.906^{+0.087}_{-0.083}$	f_{2000}^{217}	108.0	$108.3^{+5.4}_{-5.2}$
c_{100}	0.99963	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	1059.59	$1059.6^{+1.3}_{-1.3}$	χ_{small}^2	396.07	$397.2 (\nu: 1.7)$
c_{217}	0.99828	$0.9983^{+0.0016}_{-0.0017}$	r_{drag}	147.49	$147.5^{+1.0}_{-0.94}$	χ_{lowl}^2	22.13	$22.6 (\nu: 1.7)$
H_0	67.64	$67.6^{+1.4}_{-1.4}$	k_{D}	0.14036	$0.1404^{+0.0012}_{-0.0013}$	χ_{plik}^2	760.4	$773.1 (\nu: 16.1)$
Ω_Λ	0.6898	$0.690^{+0.018}_{-0.020}$	$100\theta_{\text{D}}$	0.16096	$0.16097^{+0.00072}_{-0.00069}$	$\chi_{6\text{DF}}^2$	0.022	$0.058 (\nu: 0.0)$
Ω_{m}	0.3102	$0.310^{+0.020}_{-0.018}$	z_{eq}	3376	3375^{+76}_{-73}	χ_{MGS}^2	1.28	$1.36 (\nu: 0.1)$
$\Omega_{\text{m}} h^2$	0.14190	$0.1419^{+0.0032}_{-0.0030}$	k_{eq}	0.010303	$0.01030^{+0.00023}_{-0.00022}$	χ_{DR12BAO}^2	4.20	$4.8 (\nu: 1.3)$
$\Omega_{\text{m}} h^3$	0.09598	$0.0960^{+0.0013}_{-0.0013}$	$100\theta_{\text{eq}}$	0.8178	$0.818^{+0.013}_{-0.014}$	χ_{prior}^2	1.6	$7.4 (\nu: 6.9)$
σ_8	0.8075	$0.808^{+0.021}_{-0.020}$	$100\theta_{\text{s,eq}}$	0.4518	$0.4519^{+0.0070}_{-0.0071}$	χ_{BAO}^2	5.50	$6.2 (\nu: 0.9)$
S_8	0.8211	$0.821^{+0.039}_{-0.037}$	$H(0.15)$	72.90	$72.9^{+1.2}_{-1.2}$	χ_{CMB}^2	1178.6	$1192.9 (\nu: 15.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4497	$0.450^{+0.021}_{-0.020}$	$D_M(0.15)$	641.0	641^{+12}_{-12}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6026	$0.603^{+0.021}_{-0.020}$	$H(0.38)$	82.99	$82.99^{+0.93}_{-0.90}$			

Best-fit $\chi_{\text{eff}}^2 = 1185.71$; $\bar{\chi}_{\text{eff}}^2 = 1206.47$; $R - 1 = 0.01307$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.20 CMB - simall_100x143.offlike5_EE_Aplanck_B: 396.07 commander_dx12_v3.2.29: 22.13 plik_rd12_HM_v22.TT: 760.40

12.3 base_nrun_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02218^{+0.00059}_{-0.00058}$	$\sigma_8 \Omega_m^{0.25}$	0.6087	$0.609^{+0.020}_{-0.020}$	$D_M(0.15)$	646.0	646^{+16}_{-16}
$\Omega_c h^2$	0.12026	$0.1202^{+0.0041}_{-0.0039}$	$\sigma_8/h^{0.5}$	0.9898	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	82.63	$82.7^{+1.2}_{-1.2}$
$100\theta_{MC}$	1.04081	$1.0408^{+0.0011}_{-0.0012}$	$r_{drag}h$	98.75	$98.8^{+3.2}_{-3.2}$	$D_M(0.38)$	1539.0	1538^{+33}_{-31}
τ	0.0527	$0.053^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.443^{+0.068}_{-0.070}$	$H(0.51)$	89.41	$89.44^{+0.98}_{-0.92}$
$\ln(10^{10} A_s)$	3.0407	$3.043^{+0.042}_{-0.041}$	z_{re}	7.56	$7.6^{+2.0}_{-2.3}$	$D_M(0.51)$	1992.6	1992^{+38}_{-37}
n_s	0.9634	$0.963^{+0.013}_{-0.013}$	$10^9 A_s$	2.092	$2.096^{+0.089}_{-0.084}$	$H(0.61)$	95.08	$95.10^{+0.81}_{-0.77}$
$dn_s/d \ln k$	-0.0016	$-0.003^{+0.020}_{-0.019}$	$10^9 A_s e^{-2\tau}$	1.8827	$1.884^{+0.031}_{-0.031}$	$D_M(0.61)$	2317.8	2317^{+41}_{-40}
y_{cal}	1.0002	$1.0005^{+0.0063}_{-0.0064}$	D_{40}	1227	1225^{+52}_{-52}	$H(2.33)$	236.52	$236.5^{+2.5}_{-2.5}$
A_{217}^{CIB}	51.0	48^{+20}_{-20}	D_{220}	5713	5716^{+100}_{-110}	$D_M(2.33)$	5774.2	5773^{+38}_{-38}
$\xi^{tSZ \times CIB}$	0.01	—	D_{810}	2535.9	2537^{+36}_{-36}	$f\sigma_8(0.15)$	0.4612	$0.461^{+0.021}_{-0.021}$
A_{143}^{tSZ}	7.2	—	D_{1420}	814.3	814^{+14}_{-14}	$\sigma_8(0.15)$	0.7483	$0.748^{+0.014}_{-0.014}$
A_{100}^{PS}	258	265^{+70}_{-70}	D_{2000}	229.5	$229.3^{+4.9}_{-5.1}$	$f\sigma_8(0.38)$	0.4781	$0.478^{+0.016}_{-0.016}$
A_{143}^{PS}	45.8	50^{+20}_{-20}	$n_{s,0.002}$	0.968	$0.973^{+0.059}_{-0.059}$	$\sigma_8(0.38)$	0.6626	$0.663^{+0.013}_{-0.013}$
$A_{143 \times 217}^{PS}$	39	43^{+20}_{-20}	Y_P	0.245313	$0.24531^{+0.00023}_{-0.00027}$	$f\sigma_8(0.51)$	0.4759	$0.476^{+0.014}_{-0.014}$
A_{217}^{PS}	115.9	115^{+30}_{-30}	Y_P^{BBN}	0.246639	$0.24664^{+0.00023}_{-0.00028}$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.624	$2.62^{+0.11}_{-0.11}$	$f\sigma_8(0.61)$	0.4704	$0.470^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.95	$9.0^{+4.7}_{-4.8}$	Age/Gyr	13.822	$13.820^{+0.087}_{-0.088}$	$\sigma_8(0.61)$	0.5896	$0.590^{+0.011}_{-0.012}$
A_{143}^{dustTT}	10.82	$10.7^{+4.5}_{-4.6}$	z_*	1090.20	$1090.18^{+0.97}_{-0.95}$	$f\sigma_8(2.33)$	0.2970	$0.2971^{+0.0061}_{-0.0061}$
$A_{143 \times 217}^{dustTT}$	19.0	$18.4^{+8.3}_{-8.5}$	r_*	144.52	$144.53^{+0.98}_{-0.97}$	$\sigma_8(2.33)$	0.3059	$0.3060^{+0.0066}_{-0.0067}$
A_{217}^{dustTT}	93.8	93^{+20}_{-20}	$100\theta_*$	1.04102	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{143}	31.2	32^{+8}_{-8}
c_{100}	0.99962	$0.9996^{+0.0016}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.882	$13.884^{+0.093}_{-0.090}$	$f_{2000}^{143 \times 217}$	33.7	34^{+6}_{-6}
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.47	$1059.5^{+1.3}_{-1.3}$	f_{2000}^{217}	108.2	$108.5^{+5.5}_{-5.3}$
H_0	67.06	$67.1^{+1.8}_{-1.8}$	r_{drag}	147.25	$147.3^{+1.0}_{-1.0}$	$\chi^2_{lensing}$	8.93	$9.59 (\nu: 0.5)$
Ω_Λ	0.6819	$0.682^{+0.024}_{-0.027}$	k_D	0.14055	$0.1405^{+0.0013}_{-0.0013}$	χ^2_{small}	395.89	$397.0 (\nu: 1.3)$
Ω_m	0.3181	$0.318^{+0.027}_{-0.024}$	$100\theta_D$	0.16102	$0.16101^{+0.00074}_{-0.00071}$	χ^2_{lowl}	23.13	$23.2 (\nu: 2.2)$
$\Omega_m h^2$	0.14307	$0.1430^{+0.0039}_{-0.0038}$	z_{eq}	3404	3402^{+94}_{-91}	χ^2_{plik}	758.9	$772.1 (\nu: 15.2)$
$\Omega_m h^3$	0.09595	$0.0960^{+0.0013}_{-0.0012}$	k_{eq}	0.010388	$0.01038^{+0.00029}_{-0.00028}$	χ^2_{prior}	1.6	$7.3 (\nu: 6.8)$
σ_8	0.8105	$0.811^{+0.016}_{-0.016}$	$100\theta_{eq}$	0.8124	$0.813^{+0.017}_{-0.017}$	χ^2_{CMB}	1186.9	$1201.9 (\nu: 15.7)$
S_8	0.8347	$0.834^{+0.043}_{-0.041}$	$100\theta_{s,eq}$	0.4491	$0.4493^{+0.0090}_{-0.0089}$			
$\sigma_8 \Omega_m^{0.5}$	0.4572	$0.457^{+0.023}_{-0.022}$	$H(0.15)$	72.41	$72.4^{+1.6}_{-1.6}$			

Best-fit $\chi^2_{eff} = 1188.47$; $\bar{\chi}^2_{eff} = 1209.27$; $R - 1 = 0.01153$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 8.93 small_100x143_offlike5_EE_Aplanck_B: 395.89 commander_dx12_v3.2.29: 23.13 plik_rd12_HM.v22.TT: 758.91

12.4 base_nrun_plikHM_TT_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02226	$0.02225^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	0.9836	$0.984^{+0.023}_{-0.023}$	$D_M(0.38)$	1529.3	1530^{+23}_{-22}
$\Omega_c h^2$	0.11902	$0.1191^{+0.0029}_{-0.0027}$	$r_{\text{drag}} h$	99.74	$99.7^{+2.1}_{-2.2}$	$H(0.51)$	89.68	$89.67^{+0.75}_{-0.72}$
$100\theta_{\text{MC}}$	1.04101	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.430	$2.431^{+0.059}_{-0.061}$	$D_M(0.51)$	1981.2	1982^{+27}_{-27}
τ	0.0553	$0.056^{+0.022}_{-0.020}$	z_{re}	7.79	$7.9^{+2.0}_{-2.1}$	$H(0.61)$	95.29	$95.28^{+0.64}_{-0.63}$
$\ln(10^{10} A_s)$	3.0442	$3.046^{+0.043}_{-0.040}$	$10^9 A_s$	2.099	$2.104^{+0.092}_{-0.082}$	$D_M(0.61)$	2305.6	2306^{+29}_{-29}
n_s	0.9672	$0.966^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8795	$1.880^{+0.030}_{-0.030}$	$H(2.33)$	235.81	$235.8^{+1.8}_{-1.9}$
$dn_s/d \ln k$	-0.0008	$-0.003^{+0.020}_{-0.019}$	D_{40}	1223	1221^{+49}_{-53}	$D_M(2.33)$	5765.1	5766^{+33}_{-33}
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0064}$	D_{220}	5723	5725^{+100}_{-100}	$f\sigma_8(0.15)$	0.4553	$0.456^{+0.016}_{-0.015}$
A_{217}^{CIB}	48.8	48^{+20}_{-20}	D_{810}	2538.8	2538^{+36}_{-36}	$\sigma_8(0.15)$	0.7476	$0.748^{+0.015}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.32	—	D_{1420}	816.8	815^{+14}_{-13}	$f\sigma_8(0.38)$	0.4739	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.43	$229.8^{+4.9}_{-4.8}$	$\sigma_8(0.38)$	0.6628	$0.663^{+0.013}_{-0.013}$
A_{100}^{PS}	254	264^{+70}_{-70}	$n_{s,0.002}$	0.970	$0.975^{+0.059}_{-0.059}$	$f\sigma_8(0.51)$	0.4726	$0.473^{+0.012}_{-0.012}$
A_{143}^{PS}	49.0	49^{+20}_{-20}	Y_{P}	0.245350	$0.24534^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	0.6204	$0.620^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	46.7	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246676	$0.24667^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.4677	$0.468^{+0.011}_{-0.011}$
A_{217}^{PS}	119.1	114^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.607	$2.61^{+0.10}_{-0.099}$	$\sigma_8(0.61)$	0.5903	$0.590^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	Age/Gyr	13.802	$13.803^{+0.076}_{-0.074}$	$f\sigma_8(2.33)$	0.2977	$0.2977^{+0.0060}_{-0.0059}$
A_{100}^{dustTT}	8.86	$9.0^{+4.6}_{-4.8}$	z_*	1089.98	$1089.99^{+0.81}_{-0.77}$	$\sigma_8(2.33)$	0.3070	$0.3069^{+0.0063}_{-0.0063}$
A_{143}^{dustTT}	10.79	$10.7^{+4.6}_{-4.7}$	r_*	144.77	$144.76^{+0.78}_{-0.77}$	f_{2000}^{143}	30.1	31^{+8}_{-9}
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.4^{+8.1}_{-8.5}$	$100\theta_*$	1.04120	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.1	34^{+6}_{-6}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.904	$13.903^{+0.079}_{-0.075}$	f_{2000}^{217}	107.6	$108.2^{+5.4}_{-5.2}$
c_{100}	0.99965	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.2}$	χ^2_{lensing}	8.88	$9.35 (\nu: 0.3)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.48	$147.47^{+0.89}_{-0.86}$	χ^2_{small}	396.19	$397.2 (\nu: 1.7)$
H_0	67.63	$67.6^{+1.3}_{-1.3}$	k_{D}	0.14038	$0.1404^{+0.0012}_{-0.0012}$	χ^2_{lowl}	22.70	$22.8 (\nu: 1.8)$
Ω_Λ	0.6897	$0.689^{+0.016}_{-0.017}$	$100\theta_{\text{D}}$	0.16096	$0.16097^{+0.00072}_{-0.00069}$	χ^2_{plik}	759.9	$772.4 (\nu: 15.2)$
Ω_{m}	0.3103	$0.311^{+0.017}_{-0.016}$	z_{eq}	3376	3378^{+67}_{-66}	$\chi^2_{6\text{DF}}$	0.023	$0.056 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14193	$0.1420^{+0.0028}_{-0.0027}$	k_{eq}	0.010305	$0.01031^{+0.00020}_{-0.00020}$	χ^2_{MGS}	1.28	$1.30 (\nu: 0.1)$
$\Omega_{\text{m}} h^3$	0.09599	$0.0960^{+0.0013}_{-0.0013}$	$100\theta_{\text{eq}}$	0.8177	$0.817^{+0.012}_{-0.012}$	χ^2_{DR12BAO}	4.23	$4.8 (\nu: 1.1)$
σ_8	0.8089	$0.809^{+0.016}_{-0.016}$	$100\theta_{\text{s,eq}}$	0.4518	$0.4517^{+0.0063}_{-0.0063}$	χ^2_{prior}	1.4	$7.4 (\nu: 6.9)$
S_8	0.8227	$0.823^{+0.031}_{-0.030}$	$H(0.15)$	72.90	$72.9^{+1.1}_{-1.1}$	χ^2_{CMB}	1187.7	$1201.8 (\nu: 15.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4506	$0.451^{+0.017}_{-0.016}$	$D_M(0.15)$	641.1	641^{+11}_{-11}	χ^2_{BAO}	5.53	$6.1 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6037	$0.604^{+0.016}_{-0.016}$	$H(0.38)$	82.98	$82.96^{+0.87}_{-0.85}$			

Best-fit $\chi^2_{\text{eff}} = 1194.63$; $\bar{\chi}^2_{\text{eff}} = 1215.34$; $R - 1 = 0.01612$

χ^2_{eff} : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.23 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.88 small_100x143.offlike5_EE_Aplanck_B: 396.19 commander_dx12.v3.2.29: 22.70 plik_rd12_HM.v22_TT: 759.95

12.5 base_nrun_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02239	$0.02240^{+0.00053}_{-0.00059}$	$\sigma_8 \Omega_m^{0.25}$	0.5941	$0.595^{+0.027}_{-0.024}$	$D_M(0.15)$	634.5	635^{+18}_{-15}
$\Omega_c h^2$	0.11735	$0.1175^{+0.0046}_{-0.0043}$	$\sigma_8/h^{0.5}$	0.9706	$0.972^{+0.037}_{-0.034}$	$H(0.38)$	83.47	$83.5^{+1.2}_{-1.3}$
$100\theta_{MC}$	1.04122	$1.0413^{+0.0012}_{-0.0012}$	$r_{drag}h$	101.10	$101.0^{+3.0}_{-3.6}$	$D_M(0.38)$	1516.0	1516^{+35}_{-30}
τ	0.0562	$0.057^{+0.024}_{-0.023}$	$\langle d^2 \rangle^{1/2}$	2.399	$2.400^{+0.088}_{-0.080}$	$H(0.51)$	90.07	$90.07^{+0.97}_{-1.0}$
$\ln(10^{10} A_s)$	3.0418	$3.044^{+0.050}_{-0.046}$	z_{re}	7.83	$7.9^{+2.2}_{-2.5}$	$D_M(0.51)$	1965.7	1966^{+41}_{-36}
n_s	0.9709	$0.970^{+0.013}_{-0.014}$	$10^9 A_s$	2.094	$2.10^{+0.11}_{-0.095}$	$H(0.61)$	95.59	$95.60^{+0.80}_{-0.84}$
$dn_s/d \ln k$	-0.0017	$-0.004^{+0.021}_{-0.020}$	$10^9 A_s e^{-2\tau}$	1.8716	$1.873^{+0.035}_{-0.027}$	$D_M(0.61)$	2288.8	2289^{+44}_{-39}
y_{cal}	1.0005	$1.0007^{+0.0060}_{-0.0066}$	D_{40}	1212	1209^{+55}_{-50}	$H(2.33)$	234.86	$235.0^{+2.9}_{-2.4}$
A_{217}^{CIB}	49.2	48^{+20}_{-20}	D_{220}	5728	5731^{+93}_{-110}	$D_M(2.33)$	5752.4	5752^{+39}_{-36}
$\xi^{tSZ \times CIB}$	0.26	—	D_{810}	2536.5	2537^{+35}_{-36}	$f\sigma_8(0.15)$	0.4451	$0.446^{+0.027}_{-0.025}$
A_{143}^{tSZ}	7.1	—	D_{1420}	817.2	817^{+14}_{-14}	$\sigma_8(0.15)$	0.7430	$0.744^{+0.020}_{-0.022}$
A_{100}^{PS}	255	262^{+70}_{-70}	D_{2000}	230.6	$230.3^{+5.1}_{-5.2}$	$f\sigma_8(0.38)$	0.4659	$0.466^{+0.022}_{-0.020}$
A_{143}^{PS}	47.4	48^{+20}_{-20}	$n_{s,0.002}$	0.976	$0.983^{+0.060}_{-0.064}$	$\sigma_8(0.38)$	0.6599	$0.660^{+0.016}_{-0.018}$
$A_{143 \times 217}^{PS}$	44.4	43^{+20}_{-20}	Y_P	0.245403	$0.24540^{+0.00021}_{-0.00026}$	$f\sigma_8(0.51)$	0.4658	$0.466^{+0.019}_{-0.018}$
A_{217}^{PS}	117.6	114^{+30}_{-30}	Y_P^{BBN}	0.246730	$0.24673^{+0.00021}_{-0.00026}$	$\sigma_8(0.51)$	0.6181	$0.618^{+0.015}_{-0.016}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.582	$2.58^{+0.11}_{-0.095}$	$f\sigma_8(0.61)$	0.4618	$0.462^{+0.017}_{-0.016}$
A_{100}^{dustTT}	8.91	$9.1^{+4.5}_{-4.6}$	Age/Gyr	13.775	$13.773^{+0.088}_{-0.083}$	$\sigma_8(0.61)$	0.5884	$0.589^{+0.014}_{-0.015}$
A_{143}^{dustTT}	10.84	$10.8^{+4.5}_{-4.8}$	z_*	1089.66	$1089.66^{+0.96}_{-0.87}$	$f\sigma_8(2.33)$	0.2972	$0.2973^{+0.0072}_{-0.0068}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.5^{+7.5}_{-8.7}$	r_*	145.11	$145.1^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3069	$0.3070^{+0.0070}_{-0.0072}$
A_{217}^{dustTT}	94.4	94^{+20}_{-20}	$100\theta_*$	1.04141	$1.0414^{+0.0012}_{-0.0012}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
c_{100}	0.99965	$0.9996^{+0.0015}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.934	$13.93^{+0.11}_{-0.11}$	$f_{2000}^{143 \times 217}$	32.9	33^{+6}_{-6}
c_{217}	0.99827	$0.9982^{+0.0016}_{-0.0019}$	z_{drag}	1059.78	$1059.8^{+1.2}_{-1.4}$	f_{2000}^{217}	107.3	$107.9^{+5.6}_{-5.3}$
H_0	68.42	$68.4^{+1.8}_{-2.1}$	r_{drag}	147.78	$147.7^{+1.4}_{-1.2}$	χ_{simall}^2	396.2	$397.4 (\nu: 2.1)$
Ω_Λ	0.7001	$0.699^{+0.022}_{-0.028}$	k_D	0.14016	$0.1402^{+0.0014}_{-0.0018}$	χ_{lowl}^2	21.84	$22.0 (\nu: 1.3)$
Ω_m	0.2999	$0.301^{+0.028}_{-0.022}$	$100\theta_D$	0.16086	$0.16085^{+0.00079}_{-0.00069}$	χ_{plik}^2	762.8	$775.9 (\nu: 19.9)$
$\Omega_m h^2$	0.14038	$0.1405^{+0.0045}_{-0.0036}$	z_{eq}	3339	3343^{+110}_{-86}	$\chi_{H073p45}^2$	9.2	$9.5 (\nu: 4.1)$
$\Omega_m h^3$	0.09604	$0.0961^{+0.0013}_{-0.0015}$	k_{eq}	0.010192	$0.01020^{+0.00033}_{-0.00026}$	χ_{prior}^2	1.4	$7.5 (\nu: 7.0)$
σ_8	0.8028	$0.803^{+0.023}_{-0.025}$	$100\theta_{eq}$	0.8250	$0.825^{+0.019}_{-0.020}$	χ_{CMB}^2	1180.9	$1195.2 (\nu: 18.8)$
S_8	0.803	$0.804^{+0.054}_{-0.048}$	$100\theta_{s,eq}$	0.4555	$0.455^{+0.010}_{-0.011}$			
$\sigma_8 \Omega_m^{0.5}$	0.4397	$0.440^{+0.030}_{-0.026}$	$H(0.15)$	73.57	$73.6^{+1.6}_{-1.8}$			

Best-fit $\chi_{eff}^2 = 1191.49$; $\bar{\chi}_{eff}^2 = 1212.16$; $R - 1 = 0.05554$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3.2_29: 21.84 plik_rd12_HM_v22_TT: 762.82 Hubble - H073p45: 9.20

12.6 base_nrun_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00061}_{-0.00057}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.461^{+0.036}_{-0.033}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.012}_{-0.012}$
$\Omega_{\mathrm{c}} h^2$	$0.1207^{+0.0055}_{-0.0052}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.031}_{-0.029}$	$H(0.15)$	$72.3^{+2.0}_{-2.0}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$\sigma_8/h^{0.5}$	$0.994^{+0.042}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	647^{+21}_{-20}
τ	$0.055^{+0.019}_{-0.014}$	$r_{\mathrm{drag}} h$	$98.5^{+4.1}_{-4.1}$	$H(0.38)$	$82.6^{+1.5}_{-1.4}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.045}_{-0.034}$	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.099}_{-0.096}$	$D_{\mathrm{M}}(0.38)$	1542^{+41}_{-40}
n_{s}	$0.962^{+0.016}_{-0.015}$	z_{re}	< 9.57	$H(0.51)$	$89.4^{+1.2}_{-1.1}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.005^{+0.019}_{-0.019}$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.096}_{-0.070}$	$D_{\mathrm{M}}(0.51)$	1996^{+47}_{-47}
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.887^{+0.037}_{-0.036}$	$H(0.61)$	$95.05^{+0.95}_{-0.86}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1224^{+53}_{-55}	$D_{\mathrm{M}}(0.61)$	2321^{+51}_{-50}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5713^{+110}_{-110}	$H(2.33)$	$236.8^{+3.4}_{-3.2}$
A_{143}^{tSZ}	—	D_{810}	2538^{+36}_{-37}	$D_{\mathrm{M}}(2.33)$	5775^{+41}_{-43}
A_{100}^{PS}	266^{+70}_{-70}	D_{1420}	814^{+13}_{-14}	$f\sigma_8(0.15)$	$0.464^{+0.032}_{-0.030}$
A_{143}^{PS}	50^{+20}_{-20}	D_{2000}	$229.2^{+4.9}_{-5.1}$	$\sigma_8(0.15)$	$0.751^{+0.019}_{-0.018}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.977^{+0.059}_{-0.059}$	$f\sigma_8(0.38)$	$0.481^{+0.025}_{-0.024}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24531^{+0.00024}_{-0.00027}$	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.013}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00024}_{-0.00027}$	$f\sigma_8(0.51)$	$0.478^{+0.021}_{-0.021}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.8}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.012}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.5}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.824^{+0.092}_{-0.096}$	$f\sigma_8(0.61)$	$0.473^{+0.019}_{-0.018}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.7}_{-8.7}$	z_*	$1090.2^{+1.0}_{-1.0}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.011}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	r_*	$144.4^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	$0.2977^{+0.0065}_{-0.0050}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.3065^{+0.0068}_{-0.0051}$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.12}_{-0.12}$	f_{2000}^{143}	32^{+8}_{-8}
H_0	$66.9^{+2.3}_{-2.3}$	z_{drag}	$1059.5^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
Ω_{Λ}	$0.679^{+0.031}_{-0.035}$	r_{drag}	$147.1^{+1.3}_{-1.3}$	f_{2000}^{217}	$108.6^{+5.4}_{-5.4}$
Ω_{m}	$0.321^{+0.035}_{-0.031}$	k_{D}	$0.1407^{+0.0015}_{-0.0015}$	χ_{simall}^2	$397.0 (\nu: 1.5)$
$\Omega_{\mathrm{m}} h^2$	$0.1435^{+0.0053}_{-0.0050}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00074}_{-0.00072}$	χ_{lowl}^2	$23.0 (\nu: 2.0)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0013}$	z_{eq}	3414^{+130}_{-120}	χ_{plik}^2	$772.6 (\nu: 16.2)$
σ_8	$0.813^{+0.023}_{-0.022}$	k_{eq}	$0.01042^{+0.00039}_{-0.00037}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.841^{+0.065}_{-0.059}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.023}_{-0.023}$	χ_{CMB}^2	$1192.6 (\nu: 15.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1199.98; R - 1 = 0.00614$$

12.7 base_nrun_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00054}_{-0.00053}$	$\sigma_8/h^{0.5}$	$0.983^{+0.029}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1529^{+24}_{-24}
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0032}_{-0.0031}$	$r_{\mathrm{drag}} h$	$99.8^{+2.4}_{-2.4}$	$H(0.51)$	$89.70^{+0.78}_{-0.75}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.071}_{-0.070}$	$D_{\mathrm{M}}(0.51)$	1981^{+29}_{-28}
τ	$0.056^{+0.021}_{-0.015}$	z_{re}	< 9.71	$H(0.61)$	$95.30^{+0.68}_{-0.64}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.048}_{-0.033}$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.096}_{-0.075}$	$D_{\mathrm{M}}(0.61)$	2305^{+31}_{-31}
n_{s}	$0.966^{+0.012}_{-0.012}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.032}_{-0.031}$	$H(2.33)$	$235.8^{+2.1}_{-2.1}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.004^{+0.020}_{-0.019}$	D_{40}	1218^{+51}_{-53}	$D_{\mathrm{M}}(2.33)$	5765^{+33}_{-33}
y_{cal}	$1.0006^{+0.0065}_{-0.0063}$	D_{220}	5721^{+100}_{-100}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.019}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+37}_{-36}	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.015}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.473^{+0.016}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$229.6^{+4.8}_{-4.8}$	$\sigma_8(0.38)$	$0.662^{+0.016}_{-0.013}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.978^{+0.059}_{-0.059}$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24535^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.013}$
A_{217}^{PS}	114^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.099}$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.011}$
A^{kSZ}	—	Age/Gyr	$13.801^{+0.076}_{-0.077}$	$f\sigma_8(2.33)$	$0.2976^{+0.0069}_{-0.0052}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.6}_{-4.8}$	z_*	$1089.97^{+0.81}_{-0.78}$	$\sigma_8(2.33)$	$0.3068^{+0.0072}_{-0.0053}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.6}_{-4.7}$	r_*	$144.78^{+0.88}_{-0.85}$	f_{2000}^{143}	32^{+8}_{-9}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.4^{+8.4}_{-8.5}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.087}_{-0.083}$	f_{2000}^{217}	$108.3^{+5.5}_{-5.2}$
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	$1059.6^{+1.2}_{-1.3}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	r_{drag}	$147.5^{+1.0}_{-0.94}$	χ_{lowl}^2	$22.6 (\nu: 1.6)$
H_0	$67.7^{+1.4}_{-1.4}$	k_{D}	$0.1404^{+0.0012}_{-0.0013}$	χ_{plik}^2	$773.0 (\nu: 16.0)$
Ω_{Λ}	$0.690^{+0.018}_{-0.019}$	$100\theta_{\mathrm{D}}$	$0.16096^{+0.00073}_{-0.00069}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.019}_{-0.018}$	z_{eq}	3375^{+76}_{-73}	χ_{MGS}^2	$1.36 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0032}_{-0.0030}$	k_{eq}	$0.01030^{+0.00023}_{-0.00022}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0013}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.014}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
σ_8	$0.808^{+0.020}_{-0.017}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0071}_{-0.0071}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.822^{+0.039}_{-0.036}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{CMB}^2	$1192.6 (\nu: 15.1)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.15)$	641^{+12}_{-12}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.020}_{-0.019}$	$H(0.38)$	$83.00^{+0.93}_{-0.90}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.22; R - 1 = 0.01231$

12.8 base_nrun_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00058}_{-0.00057}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.019}$	$D_{\mathrm{M}}(0.15)$	645^{+16}_{-15}
$\Omega_{\mathrm{c}} h^2$	$0.1200^{+0.0040}_{-0.0039}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027}$	$H(0.38)$	$82.7^{+1.2}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}} h$	$98.9^{+3.1}_{-3.0}$	$D_{\mathrm{M}}(0.38)$	1537^{+31}_{-31}
τ	$0.055^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.444^{+0.068}_{-0.069}$	$H(0.51)$	$89.47^{+0.96}_{-0.89}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.040}_{-0.030}$	z_{re}	< 9.43	$D_{\mathrm{M}}(0.51)$	1991^{+37}_{-36}
n_{s}	$0.963^{+0.013}_{-0.013}$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.085}_{-0.063}$	$H(0.61)$	$95.12^{+0.81}_{-0.74}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.003^{+0.019}_{-0.019}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.61)$	2316^{+40}_{-39}
y_{cal}	$1.0004^{+0.0063}_{-0.0065}$	D_{40}	1224^{+51}_{-52}	$H(2.33)$	$236.4^{+2.5}_{-2.5}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5717^{+100}_{-110}	$D_{\mathrm{M}}(2.33)$	5772^{+37}_{-38}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2537^{+36}_{-36}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.020}$
A_{143}^{tSZ}	—	D_{1420}	814^{+14}_{-14}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
A_{100}^{PS}	265^{+70}_{-70}	D_{2000}	$229.3^{+4.9}_{-5.1}$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.016}$
A_{143}^{PS}	50^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.974^{+0.059}_{-0.057}$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24532^{+0.00023}_{-0.00027}$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00027}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.0098}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11}$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.012}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.8}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.818^{+0.083}_{-0.087}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0093}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.5}_{-4.6}$	z_{*}	$1090.15^{+0.92}_{-0.92}$	$f\sigma_8(2.33)$	$0.2975^{+0.0058}_{-0.0048}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.4^{+8.3}_{-8.6}$	r_{*}	$144.56^{+0.98}_{-0.96}$	$\sigma_8(2.33)$	$0.3065^{+0.0063}_{-0.0051}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_{*}$	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{143}	32^{+8}_{-9}
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.886^{+0.093}_{-0.090}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.3}_{-1.2}$	f_{2000}^{217}	$108.4^{+5.5}_{-5.3}$
H_0	$67.2^{+1.8}_{-1.8}$	r_{drag}	$147.3^{+1.0}_{-1.0}$	$\chi_{\mathrm{lensing}}^2$	$9.58 (\nu: 0.5)$
Ω_{Λ}	$0.683^{+0.024}_{-0.026}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
Ω_{m}	$0.317^{+0.026}_{-0.024}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00073}_{-0.00070}$	χ_{lowl}^2	$23.1 (\nu: 2.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1429^{+0.0038}_{-0.0038}$	z_{eq}	3399^{+91}_{-90}	χ_{plik}^2	$772.1 (\nu: 15.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0012}_{-0.0013}$	k_{eq}	$0.01037^{+0.00028}_{-0.00027}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.811^{+0.015}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.017}_{-0.017}$	χ_{CMB}^2	$1201.7 (\nu: 15.3)$
S_8	$0.834^{+0.042}_{-0.040}$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0088}_{-0.0086}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.022}$	$H(0.15)$	$72.5^{+1.5}_{-1.5}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1209.03$; $R - 1 = 0.01103$

12.9 base_nrun_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00054}_{-0.00054}$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1530^{+22}_{-22}
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0028}_{-0.0027}$	$r_{\mathrm{drag}} h$	$99.7^{+2.1}_{-2.1}$	$H(0.51)$	$89.68^{+0.74}_{-0.71}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.059}_{-0.059}$	$D_{\mathrm{M}}(0.51)$	1982^{+26}_{-27}
τ	$0.057^{+0.019}_{-0.015}$	z_{re}	< 9.61	$H(0.61)$	$95.29^{+0.64}_{-0.62}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.042}_{-0.033}$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.089}_{-0.068}$	$D_{\mathrm{M}}(0.61)$	2306^{+29}_{-29}
n_{s}	$0.966^{+0.011}_{-0.011}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.029}_{-0.030}$	$H(2.33)$	$235.8^{+1.8}_{-1.9}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.003^{+0.019}_{-0.019}$	D_{40}	1221^{+48}_{-54}	$D_{\mathrm{M}}(2.33)$	5765^{+33}_{-33}
y_{cal}	$1.0007^{+0.0064}_{-0.0064}$	D_{220}	5725^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+37}_{-36}	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.013}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+14}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.8}_{-4.8}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011}$
A_{100}^{PS}	264^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.976^{+0.059}_{-0.058}$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24535^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010}$
A_{217}^{PS}	114^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.098}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0096}$
A^{kSZ}	—	Age/Gyr	$13.803^{+0.076}_{-0.074}$	$f\sigma_8(2.33)$	$0.2979^{+0.0059}_{-0.0049}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.6}_{-4.8}$	z_*	$1089.98^{+0.80}_{-0.77}$	$\sigma_8(2.33)$	$0.3071^{+0.0063}_{-0.0052}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.7}$	r_*	$144.76^{+0.79}_{-0.76}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.4^{+8.1}_{-8.5}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.079}_{-0.075}$	f_{2000}^{217}	$108.2^{+5.4}_{-5.2}$
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	z_{drag}	$1059.6^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.32 (\nu: 0.2)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.47^{+0.88}_{-0.86}$	χ_{simall}^2	$397.2 (\nu: 1.7)$
H_0	$67.6^{+1.3}_{-1.3}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$22.8 (\nu: 1.8)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.16096^{+0.00073}_{-0.00068}$	χ_{plik}^2	$772.4 (\nu: 15.2)$
Ω_{m}	$0.311^{+0.017}_{-0.016}$	z_{eq}	3377^{+66}_{-66}	$\chi_{6\mathrm{DF}}^2$	$0.054 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0027}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	χ_{MGS}^2	$1.31 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0013}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.1)$
σ_8	$0.809^{+0.016}_{-0.014}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0062}_{-0.0062}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
S_8	$0.824^{+0.031}_{-0.030}$	$H(0.15)$	$72.9^{+1.1}_{-1.1}$	χ_{CMB}^2	$1201.7 (\nu: 15.2)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.016}$	$D_{\mathrm{M}}(0.15)$	641^{+11}_{-11}	χ_{BAO}^2	$6.1 (\nu: 0.7)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.015}$	$H(0.38)$	$82.97^{+0.87}_{-0.84}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1215.17; R - 1 = 0.01603$$

12.10 base_nrun_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02241^{+0.00052}_{-0.00059}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.595^{+0.027}_{-0.024}$	$D_{\mathrm{M}}(0.15)$	635^{+17}_{-15}
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0047}_{-0.0049}$	$\sigma_8/h^{0.5}$	$0.972^{+0.037}_{-0.031}$	$H(0.38)$	$83.5^{+1.2}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0011}_{-0.0012}$	$r_{\mathrm{drag}}h$	$101.1^{+3.3}_{-3.6}$	$D_{\mathrm{M}}(0.38)$	1516^{+35}_{-30}
τ	$0.058^{+0.021}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.402^{+0.086}_{-0.082}$	$H(0.51)$	$90.08^{+0.97}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.048}_{-0.035}$	z_{re}	< 9.83	$D_{\mathrm{M}}(0.51)$	1966^{+41}_{-36}
n_{s}	$0.970^{+0.013}_{-0.014}$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.073}$	$H(0.61)$	$95.61^{+0.80}_{-0.83}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.004^{+0.021}_{-0.020}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.874^{+0.035}_{-0.028}$	$D_{\mathrm{M}}(0.61)$	2289^{+44}_{-39}
y_{cal}	$1.0007^{+0.0063}_{-0.0066}$	D_{40}	1209^{+54}_{-50}	$H(2.33)$	$235.0^{+2.9}_{-3.5}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5731^{+92}_{-110}	$D_{\mathrm{M}}(2.33)$	5751^{+39}_{-36}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2537^{+35}_{-36}	$f\sigma_8(0.15)$	$0.446^{+0.027}_{-0.025}$
A_{143}^{tSZ}	—	D_{1420}	817^{+14}_{-14}	$\sigma_8(0.15)$	$0.744^{+0.019}_{-0.016}$
A_{100}^{PS}	262^{+70}_{-70}	D_{2000}	$230.3^{+5.1}_{-5.2}$	$f\sigma_8(0.38)$	$0.467^{+0.022}_{-0.020}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.984^{+0.060}_{-0.065}$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.013}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24541^{+0.00021}_{-0.00026}$	$f\sigma_8(0.51)$	$0.467^{+0.019}_{-0.018}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00021}_{-0.00026}$	$\sigma_8(0.51)$	$0.619^{+0.015}_{-0.012}$
A^{kSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.58^{+0.11}_{-0.094}$	$f\sigma_8(0.61)$	$0.463^{+0.017}_{-0.016}$
$A_{100}^{\mathrm{dust}TT}$	$9.1^{+4.5}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.772^{+0.088}_{-0.083}$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.5}_{-4.8}$	z_{*}	$1089.65^{+0.95}_{-0.87}$	$f\sigma_8(2.33)$	$0.2976^{+0.0069}_{-0.0053}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+7.5}_{-8.7}$	r_{*}	$145.1^{+1.5}_{-1.1}$	$\sigma_8(2.33)$	$0.3073^{+0.0067}_{-0.0056}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$100\theta_{*}$	$1.0414^{+0.0011}_{-0.0012}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0015}_{-0.0015}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.93^{+0.15}_{-0.11}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
c_{217}	$0.9982^{+0.0016}_{-0.0019}$	z_{drag}	$1059.8^{+1.2}_{-1.4}$	f_{2000}^{217}	$107.9^{+5.6}_{-5.3}$
H_0	$68.4^{+1.8}_{-2.0}$	r_{drag}	$147.7^{+1.7}_{-1.2}$	χ_{simall}^2	$397.4\ (\nu: 2.1)$
Ω_{Λ}	$0.699^{+0.023}_{-0.028}$	k_{D}	$0.1402^{+0.0014}_{-0.0019}$	χ_{lowl}^2	$21.9\ (\nu: 1.3)$
Ω_{m}	$0.301^{+0.028}_{-0.023}$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00079}_{-0.00073}$	χ_{plik}^2	$775.7\ (\nu: 19.6)$
$\Omega_{\mathrm{m}}h^2$	$0.1405^{+0.0045}_{-0.0052}$	z_{eq}	3343^{+110}_{-120}	$\chi_{\mathrm{H073p45}}^2$	$9.5\ (\nu: 4.0)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0013}_{-0.0015}$	k_{eq}	$0.01020^{+0.00033}_{-0.00038}$	χ_{prior}^2	$7.5\ (\nu: 7.1)$
σ_8	$0.804^{+0.021}_{-0.020}$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.022}_{-0.020}$	χ_{CMB}^2	$1195.0\ (\nu: 18.5)$
S_8	$0.805^{+0.054}_{-0.048}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.012}_{-0.010}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.441^{+0.029}_{-0.027}$	$H(0.15)$	$73.6^{+1.6}_{-1.8}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1211.96$; $R - 1 = 0.05098$

12.11 base_nrun_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022392	$0.02239^{+0.00041}_{-0.00039}$	$\Omega_m h^2$	0.14339	$0.1434^{+0.0033}_{-0.0033}$	k_{eq}	0.010411	$0.01041^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.12035	$0.1203^{+0.0035}_{-0.0035}$	$\Omega_m h^3$	0.09641	$0.09640^{+0.00081}_{-0.00080}$	$100\theta_{\text{eq}}$	0.8117	$0.812^{+0.015}_{-0.015}$
$100\theta_{\text{MC}}$	1.04089	$1.04090^{+0.00080}_{-0.00081}$	σ_8	0.8122	$0.813^{+0.020}_{-0.020}$	$100\theta_{\text{s,eq}}$	0.4486	$0.4486^{+0.0076}_{-0.0074}$
τ	0.0548	$0.056^{+0.022}_{-0.020}$	S_8	0.8351	$0.836^{+0.043}_{-0.042}$	$H(0.15)$	72.58	$72.6^{+1.4}_{-1.3}$
$\ln(10^{10} A_s)$	3.0469	$3.049^{+0.047}_{-0.044}$	$\sigma_8 \Omega_m^{0.5}$	0.4574	$0.458^{+0.023}_{-0.023}$	$D_M(0.15)$	644.4	644^{+14}_{-13}
n_s	0.9643	$0.964^{+0.012}_{-0.011}$	$\sigma_8 \Omega_m^{0.25}$	0.6095	$0.610^{+0.022}_{-0.022}$	$H(0.38)$	82.81	$82.8^{+1.0}_{-0.96}$
$dn_s/d \ln k$	-0.0047	$-0.006^{+0.017}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9905	$0.991^{+0.032}_{-0.032}$	$D_M(0.38)$	1535.4	1535^{+27}_{-27}
y_{cal}	1.0004	$1.0007^{+0.0064}_{-0.0064}$	$r_{\text{drag}} h$	98.82	$98.8^{+2.7}_{-2.7}$	$H(0.51)$	89.59	$89.59^{+0.81}_{-0.75}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.442	$2.445^{+0.076}_{-0.076}$	$D_M(0.51)$	1988.0	1988^{+31}_{-31}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.24	—	z_{re}	7.73	$7.8^{+2.1}_{-2.2}$	$H(0.61)$	95.26	$95.26^{+0.67}_{-0.60}$
A_{143}^{tSZ}	7.3	—	$10^9 A_s$	2.105	$2.11^{+0.10}_{-0.090}$	$D_M(0.61)$	2312.6	2313^{+34}_{-34}
A_{100}^{PS}	254	263^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8867	$1.887^{+0.031}_{-0.031}$	$H(2.33)$	236.81	$236.8^{+2.1}_{-2.1}$
A_{143}^{PS}	46.8	48^{+20}_{-20}	D_{40}	1220.4	1221^{+49}_{-47}	$D_M(2.33)$	5763.9	5764^{+28}_{-30}
$A_{143 \times 217}^{\text{PS}}$	43.9	42^{+20}_{-20}	D_{220}	5728	5733^{+99}_{-100}	$f\sigma_8(0.15)$	0.4615	$0.462^{+0.022}_{-0.022}$
A_{217}^{PS}	118.2	115^{+30}_{-30}	D_{810}	2541.5	2542^{+35}_{-35}	$\sigma_8(0.15)$	0.7499	$0.750^{+0.018}_{-0.017}$
A^{kSZ}	0.0	—	D_{1420}	816.8	816^{+13}_{-13}	$f\sigma_8(0.38)$	0.4786	$0.479^{+0.018}_{-0.018}$
A_{100}^{dustTT}	8.93	$8.9^{+4.6}_{-4.7}$	D_{2000}	230.48	$230.2^{+4.5}_{-4.8}$	$\sigma_8(0.38)$	0.6642	$0.665^{+0.015}_{-0.015}$
A_{143}^{dustTT}	11.07	$11.0^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.979	$0.981^{+0.052}_{-0.054}$	$f\sigma_8(0.51)$	0.4766	$0.477^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.5}_{-8.3}$	Y_{P}	0.245404	$0.24540^{+0.00015}_{-0.00016}$	$\sigma_8(0.51)$	0.6213	$0.622^{+0.014}_{-0.014}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246731	$0.24673^{+0.00016}_{-0.00016}$	$f\sigma_8(0.61)$	0.4711	$0.471^{+0.014}_{-0.015}$
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.095}$	$10^5 D/H$	2.581	$2.583^{+0.075}_{-0.074}$	$\sigma_8(0.61)$	0.5910	$0.591^{+0.014}_{-0.013}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.075}_{-0.074}$	Age/Gyr	13.798	$13.798^{+0.063}_{-0.065}$	$f\sigma_8(2.33)$	0.2978	$0.2980^{+0.0068}_{-0.0064}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.92	$1089.93^{+0.72}_{-0.74}$	$\sigma_8(2.33)$	0.3067	$0.3070^{+0.0070}_{-0.0065}$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	r_*	144.32	$144.33^{+0.77}_{-0.77}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	0.667	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04107	$1.04108^{+0.00079}_{-0.00080}$	$f_{2000}^{143 \times 217}$	32.8	33^{+6}_{-6}
A_{217}^{dustTE}	2.09	$2.09^{+0.67}_{-0.69}$	$D_M(z_*)/\text{Gpc}$	13.863	$13.864^{+0.072}_{-0.072}$	f_{2000}^{217}	107.4	$107.8^{+5.1}_{-5.2}$
c_{100}	0.99972	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	1060.01	$1060.00^{+0.81}_{-0.79}$	χ_{small}^2	396.1	397.3 ($\nu: 2.0$)
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	146.97	$146.99^{+0.77}_{-0.78}$	χ_{lowl}^2	22.25	22.6 ($\nu: 1.3$)
H_0	67.24	$67.2^{+1.6}_{-1.6}$	k_{D}	0.14101	$0.14099^{+0.00087}_{-0.00085}$	χ_{plik}^2	2345.3	2360.9 ($\nu: 17.7$)
Ω_Λ	0.6828	$0.683^{+0.021}_{-0.023}$	$100\theta_{\text{D}}$	0.160712	$0.16072^{+0.00046}_{-0.00047}$	χ_{prior}^2	1.8	11.5 ($\nu: 10.4$)
Ω_{m}	0.3172	$0.317^{+0.023}_{-0.021}$	z_{eq}	3411	3411^{+79}_{-78}	χ_{CMB}^2	2763.6	2780.7 ($\nu: 17.5$)

Best-fit $\chi_{\text{eff}}^2 = 2765.41$; $\bar{\chi}_{\text{eff}}^2 = 2792.22$; $R - 1 = 0.01212$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.07 commander_dx12_v3.2_29: 22.25 plik_rd12_HM_v22b_TTTEEE: 2345.28

12.12 base_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022465	$0.02245^{+0.00038}_{-0.00035}$	σ_8	0.8102	$0.810^{+0.020}_{-0.019}$	$D_M(0.15)$	640.3	$640.8^{+9.9}_{-9.9}$
$\Omega_c h^2$	0.11929	$0.1194^{+0.0026}_{-0.0026}$	S_8	0.8243	$0.825^{+0.034}_{-0.033}$	$H(0.38)$	83.09	$83.06^{+0.79}_{-0.72}$
$100\theta_{MC}$	1.04100	$1.04101^{+0.00075}_{-0.00080}$	$\sigma_8 \Omega_m^{0.5}$	0.4515	$0.452^{+0.018}_{-0.018}$	$D_M(0.38)$	1527.3	1528^{+20}_{-20}
τ	0.0566	$0.057^{+0.023}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6048	$0.605^{+0.019}_{-0.018}$	$H(0.51)$	89.81	$89.78^{+0.65}_{-0.58}$
$\ln(10^{10} A_s)$	3.0483	$3.049^{+0.049}_{-0.044}$	$\sigma_8/h^{0.5}$	0.9846	$0.985^{+0.028}_{-0.027}$	$D_M(0.51)$	1978.7	1980^{+23}_{-24}
n_s	0.9674	$0.966^{+0.010}_{-0.010}$	$r_{drag} h$	99.66	$99.6^{+2.0}_{-2.0}$	$H(0.61)$	95.43	$95.41^{+0.54}_{-0.48}$
$dn_s/d \ln k$	-0.0034	$-0.005^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.429	$2.431^{+0.068}_{-0.064}$	$D_M(0.61)$	2302.6	2304^{+25}_{-26}
y_{cal}	1.0006	$1.0007^{+0.0061}_{-0.0062}$	z_{re}	7.88	$7.9^{+2.2}_{-2.1}$	$H(2.33)$	236.19	$236.2^{+1.6}_{-1.6}$
A_{217}^{CIB}	47.4	48^{+20}_{-20}	$10^9 A_s$	2.108	$2.11^{+0.11}_{-0.091}$	$D_M(2.33)$	5756.8	5758^{+23}_{-25}
$\xi^{tSZ \times CIB}$	0.48	—	$10^9 A_s e^{-2\tau}$	1.8824	$1.883^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	0.4562	$0.457^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.2	—	D_{40}	1218.0	1218^{+46}_{-47}	$\sigma_8(0.15)$	0.7487	$0.749^{+0.018}_{-0.017}$
A_{100}^{PS}	251	262^{+70}_{-70}	D_{220}	5735	5737^{+95}_{-99}	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.015}_{-0.015}$
A_{143}^{PS}	49.3	47^{+20}_{-20}	D_{810}	2541.7	2541^{+35}_{-33}	$\sigma_8(0.38)$	0.6638	$0.664^{+0.016}_{-0.015}$
$A_{143 \times 217}^{PS}$	49.4	42^{+20}_{-20}	D_{1420}	818.3	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4734	$0.474^{+0.014}_{-0.013}$
A_{217}^{PS}	120.2	114^{+30}_{-30}	D_{2000}	231.12	$230.5^{+4.3}_{-4.5}$	$\sigma_8(0.51)$	0.6212	$0.621^{+0.015}_{-0.013}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.978	$0.982^{+0.053}_{-0.054}$	$f\sigma_8(0.61)$	0.4685	$0.469^{+0.013}_{-0.013}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.6}$	Y_P	0.245432	$0.24542^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.014}_{-0.013}$
A_{143}^{dustTT}	11.05	$11.0^{+4.6}_{-4.7}$	Y_P^{BBN}	0.246758	$0.24675^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	0.2981	$0.2980^{+0.0070}_{-0.0064}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.6^{+8.6}_{-8.6}$	$10^5 D/H$	2.568	$2.572^{+0.066}_{-0.067}$	$\sigma_8(2.33)$	0.3074	$0.3072^{+0.0072}_{-0.0065}$
A_{217}^{dustTT}	95.0	93^{+20}_{-20}	Age/Gyr	13.782	$13.784^{+0.053}_{-0.057}$	f_{2000}^{143}	29.3	30^{+8}_{-8}
A_{100}^{dustTE}	0.114	$0.115^{+0.095}_{-0.095}$	z_*	1089.74	$1089.77^{+0.58}_{-0.61}$	$f_{2000}^{143 \times 217}$	32.3	33^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.076}_{-0.074}$	r_*	144.54	$144.53^{+0.59}_{-0.62}$	f_{2000}^{217}	106.9	$107.6^{+5.0}_{-5.1}$
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04118	$1.04119^{+0.00073}_{-0.00082}$	χ_{small}^2	396.4	$397.4 (\nu: 2.4)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.883	$13.881^{+0.057}_{-0.059}$	χ_{lowl}^2	22.10	$22.3 (\nu: 1.2)$
$A_{143 \times 217}^{dustTE}$	0.662	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.09	$1060.07^{+0.78}_{-0.79}$	χ_{plik}^2	2345.8	$2360.9 (\nu: 17.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.65}$	r_{drag}	147.18	$147.17^{+0.62}_{-0.64}$	χ_{6DF}^2	0.029	$0.060 (\nu: 0.0)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14085	$0.14085^{+0.00078}_{-0.00078}$	χ_{MGS}^2	1.22	$1.23 (\nu: 0.1)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160664	$0.16069^{+0.00046}_{-0.00046}$	$\chi_{DR12BAO}^2$	4.42	$5.0 (\nu: 1.1)$
H_0	67.71	$67.7^{+1.2}_{-1.1}$	z_{eq}	3387	3390^{+60}_{-59}	χ_{prior}^2	1.7	$11.6 (\nu: 10.5)$
Ω_Λ	0.6894	$0.689^{+0.015}_{-0.016}$	k_{eq}	0.010339	$0.01035^{+0.00018}_{-0.00018}$	χ_{BAO}^2	5.67	$6.3 (\nu: 0.7)$
Ω_m	0.3106	$0.311^{+0.016}_{-0.015}$	$100\theta_{eq}$	0.8163	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	2764.3	$2780.6 (\nu: 16.8)$
$\Omega_m h^2$	0.14240	$0.1425^{+0.0025}_{-0.0025}$	$100\theta_{s,eq}$	0.4509	$0.4507^{+0.0057}_{-0.0056}$			
$\Omega_m h^3$	0.09642	$0.09641^{+0.00077}_{-0.00079}$	$H(0.15)$	72.99	$72.9^{+1.0}_{-0.98}$			

Best-fit $\chi_{eff}^2 = 2771.68$; $\bar{\chi}_{eff}^2 = 2798.48$; $R - 1 = 0.02043$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.42 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.37 commander_dx12_v3_2_29: 22.11 plik_rd12_HM_v22b_TTTEEE: 2345.83

12.13 base_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022396	$0.02240^{+0.00040}_{-0.00037}$	$\Omega_m h^3$	0.09638	$0.09639^{+0.00077}_{-0.00078}$	$100\theta_{s,eq}$	0.4493	$0.4492^{+0.0065}_{-0.0066}$
$\Omega_c h^2$	0.12003	$0.1200^{+0.0031}_{-0.0030}$	σ_8	0.8113	$0.811^{+0.015}_{-0.016}$	$H(0.15)$	72.69	$72.7^{+1.2}_{-1.2}$
$100\theta_{MC}$	1.04091	$1.04092^{+0.00078}_{-0.00081}$	S_8	0.8317	$0.832^{+0.034}_{-0.033}$	$D_M(0.15)$	643.3	643^{+12}_{-12}
τ	0.0546	$0.055^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4555	$0.456^{+0.018}_{-0.018}$	$H(0.38)$	82.87	$82.88^{+0.91}_{-0.85}$
$\ln(10^{10} A_s)$	3.0457	$3.047^{+0.041}_{-0.039}$	$\sigma_8 \Omega_m^{0.25}$	0.6079	$0.608^{+0.016}_{-0.017}$	$D_M(0.38)$	1533.3	1533^{+24}_{-24}
n_s	0.9650	$0.964^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	0.9885	$0.989^{+0.023}_{-0.024}$	$H(0.51)$	89.64	$89.64^{+0.76}_{-0.68}$
$dn_s/d \ln k$	-0.0025	$-0.005^{+0.018}_{-0.017}$	$r_{drag} h$	99.06	$99.1^{+2.4}_{-2.4}$	$D_M(0.51)$	1985.7	1986^{+28}_{-28}
y_{cal}	1.0006	$1.0007^{+0.0063}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.441^{+0.059}_{-0.061}$	$H(0.61)$	95.29	$95.30^{+0.61}_{-0.54}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	z_{re}	7.71	$7.8^{+1.9}_{-2.0}$	$D_M(0.61)$	2310.1	2310^{+30}_{-31}
$\xi^{tSZ \times CIB}$	0.23	—	$10^9 A_s$	2.102	$2.106^{+0.087}_{-0.080}$	$H(2.33)$	236.61	$236.6^{+1.8}_{-1.7}$
A_{143}^{tSZ}	7.3	—	$10^9 A_s e^{-2\tau}$	1.8848	$1.886^{+0.028}_{-0.028}$	$D_M(2.33)$	5762.7	5762^{+26}_{-29}
A_{100}^{PS}	253	263^{+70}_{-70}	D_{40}	1225.1	1222^{+45}_{-47}	$f\sigma_8(0.15)$	0.4598	$0.460^{+0.017}_{-0.017}$
A_{143}^{PS}	45.9	47^{+20}_{-20}	D_{220}	5733	5735^{+97}_{-100}	$\sigma_8(0.15)$	0.7493	$0.749^{+0.014}_{-0.014}$
$A_{143 \times 217}^{PS}$	42.9	42^{+20}_{-20}	D_{810}	2541.0	2541^{+35}_{-34}	$f\sigma_8(0.38)$	0.4773	$0.477^{+0.013}_{-0.014}$
A_{217}^{PS}	117.7	115^{+30}_{-30}	D_{1420}	817.3	816^{+13}_{-13}	$\sigma_8(0.38)$	0.6638	$0.664^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	D_{2000}	230.77	$230.3^{+4.4}_{-4.7}$	$f\sigma_8(0.51)$	0.4755	$0.476^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.90	$8.9^{+4.7}_{-4.7}$	$n_{s,0.002}$	0.973	$0.979^{+0.053}_{-0.052}$	$\sigma_8(0.51)$	0.6210	$0.621^{+0.012}_{-0.011}$
A_{143}^{dustTT}	11.01	$11.0^{+4.7}_{-4.6}$	Y_P	0.245406	$0.24540^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	0.4702	$0.470^{+0.011}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	19.6	$18.6^{+8.9}_{-8.6}$	Y_P^{BBN}	0.246732	$0.24673^{+0.00015}_{-0.00015}$	$\sigma_8(0.61)$	0.5908	$0.591^{+0.011}_{-0.011}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$10^5 D/H$	2.581	$2.581^{+0.070}_{-0.071}$	$f\sigma_8(2.33)$	0.2977	$0.2977^{+0.0058}_{-0.0057}$
A_{100}^{dustTE}	0.116	$0.115^{+0.10}_{-0.095}$	Age/Gyr	13.795	$13.795^{+0.059}_{-0.064}$	$\sigma_8(2.33)$	0.3068	$0.3068^{+0.0062}_{-0.0060}$
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.075}_{-0.074}$	z_*	1089.89	$1089.89^{+0.67}_{-0.68}$	f_{2000}^{143}	29.7	31^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.23}$	r_*	144.40	$144.40^{+0.67}_{-0.68}$	$f_{2000}^{143 \times 217}$	32.5	33^{+6}_{-6}
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04110	$1.04110^{+0.00074}_{-0.00079}$	f_{2000}^{217}	107.2	$107.7^{+5.2}_{-5.2}$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.870	$13.870^{+0.062}_{-0.064}$	$\chi^2_{lensing}$	8.89	$9.43 (\nu: 0.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.65}$	z_{drag}	1060.01	$1060.00^{+0.81}_{-0.76}$	χ^2_{small}	396.06	$397.1 (\nu: 1.5)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.05	$147.05^{+0.68}_{-0.69}$	χ^2_{lowl}	22.71	$22.7 (\nu: 1.4)$
c_{217}	0.99821	$0.9982^{+0.0016}_{-0.0015}$	k_D	0.14093	$0.14093^{+0.00080}_{-0.00077}$	χ^2_{plik}	2345.0	$2360.5 (\nu: 16.8)$
H_0	67.36	$67.4^{+1.4}_{-1.4}$	$100\theta_D$	0.160720	$0.16072^{+0.00047}_{-0.00046}$	χ^2_{prior}	1.8	$11.6 (\nu: 10.6)$
Ω_Λ	0.6847	$0.685^{+0.019}_{-0.020}$	z_{eq}	3404	3404^{+69}_{-66}	χ^2_{CMB}	2772.6	$2789.7 (\nu: 17.3)$
Ω_m	0.3153	$0.315^{+0.020}_{-0.019}$	k_{eq}	0.010388	$0.01039^{+0.00021}_{-0.00020}$			
$\Omega_m h^2$	0.14308	$0.1431^{+0.0029}_{-0.0027}$	$100\theta_{eq}$	0.8131	$0.813^{+0.013}_{-0.013}$			

Best-fit $\chi^2_{eff} = 2774.42$; $\bar{\chi}^2_{eff} = 2801.27$; $R - 1 = 0.02010$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.89 small_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2.29: 22.71 plik_rd12_HM_v22b_TTTEEE: 2344.96

12.14 base_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022447	$0.02245^{+0.00037}_{-0.00035}$	σ_8	0.8101	$0.810^{+0.016}_{-0.015}$	$D_M(0.15)$	640.4	$640.7^{+9.2}_{-9.4}$
$\Omega_c h^2$	0.11930	$0.1194^{+0.0024}_{-0.0023}$	S_8	0.8245	$0.825^{+0.027}_{-0.028}$	$H(0.38)$	83.08	$83.07^{+0.73}_{-0.68}$
$100\theta_{MC}$	1.04103	$1.04101^{+0.00075}_{-0.00085}$	$\sigma_8 \Omega_m^{0.5}$	0.4516	$0.452^{+0.015}_{-0.015}$	$D_M(0.38)$	1527.6	1528^{+18}_{-19}
τ	0.0565	$0.057^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6048	$0.605^{+0.015}_{-0.015}$	$H(0.51)$	89.80	$89.79^{+0.63}_{-0.55}$
$\ln(10^{10} A_s)$	3.0482	$3.049^{+0.041}_{-0.039}$	$\sigma_8/h^{0.5}$	0.9846	$0.985^{+0.021}_{-0.022}$	$D_M(0.51)$	1979.0	1980^{+22}_{-23}
n_s	0.9669	$0.966^{+0.010}_{-0.010}$	$r_{drag} h$	99.65	$99.6^{+1.9}_{-1.8}$	$H(0.61)$	95.415	$95.41^{+0.53}_{-0.46}$
$dn_s/d \ln k$	-0.0033	$-0.004^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.433^{+0.057}_{-0.058}$	$D_M(0.61)$	2302.9	2304^{+23}_{-25}
y_{cal}	1.0006	$1.0008^{+0.0061}_{-0.0062}$	z_{re}	7.88	$7.9^{+2.0}_{-2.0}$	$H(2.33)$	236.19	$236.2^{+1.5}_{-1.3}$
A_{217}^{CIB}	48.6	47^{+20}_{-20}	$10^9 A_s$	2.108	$2.111^{+0.087}_{-0.082}$	$D_M(2.33)$	5757.3	5758^{+23}_{-25}
$\xi^{tSZ \times CIB}$	0.31	—	$10^9 A_s e^{-2\tau}$	1.8823	$1.883^{+0.028}_{-0.027}$	$f\sigma_8(0.15)$	0.4562	$0.457^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.2	—	D_{40}	1219.2	1220^{+44}_{-46}	$\sigma_8(0.15)$	0.7487	$0.749^{+0.014}_{-0.014}$
A_{100}^{PS}	253	262^{+70}_{-70}	D_{220}	5735	5739^{+94}_{-99}	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	46.9	47^{+20}_{-20}	D_{810}	2541.3	2541^{+34}_{-33}	$\sigma_8(0.38)$	0.6637	$0.664^{+0.012}_{-0.012}$
$A_{143 \times 217}^{PS}$	44.8	42^{+20}_{-20}	D_{1420}	817.9	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4734	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	118.2	114^{+30}_{-30}	D_{2000}	230.96	$230.6^{+4.2}_{-4.4}$	$\sigma_8(0.51)$	0.6212	$0.621^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.978	$0.979^{+0.053}_{-0.053}$	$f\sigma_8(0.61)$	0.4685	$0.469^{+0.010}_{-0.010}$
A_{100}^{dustTT}	8.93	$8.9^{+4.7}_{-4.5}$	Y_P	0.245425	$0.24542^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	0.5911	$0.591^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.07	$11.0^{+4.6}_{-4.8}$	Y_P^{BBN}	0.246752	$0.24675^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	0.2981	$0.2981^{+0.0057}_{-0.0057}$
$A_{143 \times 217}^{dustTT}$	19.7	$18.6^{+8.6}_{-8.6}$	$10^5 D/H$	2.571	$2.572^{+0.065}_{-0.067}$	$\sigma_8(2.33)$	0.3073	$0.3073^{+0.0061}_{-0.0061}$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	Age/Gyr	13.784	$13.784^{+0.052}_{-0.056}$	f_{2000}^{143}	29.5	30^{+8}_{-8}
A_{100}^{dustTE}	0.115	$0.115^{+0.097}_{-0.096}$	z_*	1089.76	$1089.77^{+0.56}_{-0.60}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.079}_{-0.074}$	r_*	144.55	$144.54^{+0.54}_{-0.58}$	f_{2000}^{217}	107.1	$107.5^{+5.1}_{-5.2}$
$A_{100 \times 217}^{dustTE}$	0.483	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04120	$1.04118^{+0.00073}_{-0.00084}$	$\chi_{lensing}^2$	8.84	$9.25 (\nu: 0.2)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.883	$13.882^{+0.051}_{-0.055}$	χ_{small}^2	396.36	$397.3 (\nu: 1.9)$
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.05	$1060.07^{+0.78}_{-0.78}$	χ_{lowl}^2	22.20	$22.5 (\nu: 1.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.64}$	r_{drag}	147.19	$147.17^{+0.58}_{-0.60}$	χ_{plik}^2	2345.6	$2360.5 (\nu: 16.5)$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14082	$0.14084^{+0.00075}_{-0.00073}$	χ_{6DF}^2	0.030	$0.055 (\nu: 0.0)$
c_{217}	0.99821	$0.9982^{+0.0015}_{-0.0015}$	$100\theta_D$	0.160691	$0.16069^{+0.00045}_{-0.00045}$	χ_{MGS}^2	1.22	$1.24 (\nu: 0.1)$
H_0	67.70	$67.7^{+1.1}_{-1.1}$	z_{eq}	3387	3389^{+55}_{-51}	$\chi_{DR12BAO}^2$	4.44	$4.9 (\nu: 0.9)$
Ω_Λ	0.6893	$0.689^{+0.014}_{-0.015}$	k_{eq}	0.010339	$0.01034^{+0.00017}_{-0.00015}$	χ_{prior}^2	1.8	$11.6 (\nu: 10.5)$
Ω_m	0.3107	$0.311^{+0.015}_{-0.014}$	$100\theta_{eq}$	0.8162	$0.8160^{+0.0099}_{-0.010}$	χ_{CMB}^2	2773.0	$2789.6 (\nu: 16.7)$
$\Omega_m h^2$	0.14240	$0.1425^{+0.0023}_{-0.0021}$	$100\theta_{s,eq}$	0.4509	$0.4507^{+0.0050}_{-0.0052}$	χ_{BAO}^2	5.68	$6.2 (\nu: 0.6)$
$\Omega_m h^3$	0.09640	$0.09640^{+0.00078}_{-0.00078}$	$H(0.15)$	72.98	$72.95^{+0.97}_{-0.92}$			

Best-fit $\chi_{eff}^2 = 2780.51$; $\bar{\chi}_{eff}^2 = 2807.32$; $R - 1 = 0.02542$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.84 small_100x143_offlike5_EE_Aplanck_B: 396.36 commander_dx12.v3.2.29: 22.20 plik_rd12_HM_v22b_TTTEEE: 2345.61

12.15 base_nrun_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022521	$0.02252^{+0.00036}_{-0.00039}$	$\Omega_m h^3$	0.09646	$0.09647^{+0.00076}_{-0.00079}$	$100\theta_{s,eq}$	0.4522	$0.4522^{+0.0091}_{-0.0073}$
$\Omega_c h^2$	0.11866	$0.1187^{+0.0033}_{-0.0039}$	σ_8	0.8083	$0.808^{+0.021}_{-0.018}$	$H(0.15)$	73.24	$73.2^{+1.4}_{-1.3}$
$100\theta_{MC}$	1.04110	$1.04112^{+0.00084}_{-0.00085}$	S_8	0.8172	$0.817^{+0.041}_{-0.045}$	$D_M(0.15)$	637.8	638^{+13}_{-14}
τ	0.0574	$0.058^{+0.027}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4476	$0.448^{+0.023}_{-0.025}$	$H(0.38)$	83.28	$83.28^{+0.98}_{-0.93}$
$\ln(10^{10} A_s)$	3.0487	$3.049^{+0.051}_{-0.043}$	$\sigma_8 \Omega_m^{0.25}$	0.6015	$0.602^{+0.022}_{-0.022}$	$D_M(0.38)$	1522.3	1522^{+25}_{-27}
n_s	0.9685	$0.968^{+0.013}_{-0.012}$	$\sigma_8/h^{0.5}$	0.9802	$0.980^{+0.032}_{-0.030}$	$H(0.51)$	89.96	$89.96^{+0.73}_{-0.73}$
$dn_s/d \ln k$	-0.0037	$-0.005^{+0.018}_{-0.018}$	$r_{drag} h$	100.16	$100.2^{+3.1}_{-2.6}$	$D_M(0.51)$	1972.7	1973^{+30}_{-31}
y_{cal}	1.0006	$1.0007^{+0.0060}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	2.420	$2.420^{+0.076}_{-0.068}$	$H(0.61)$	95.54	$95.55^{+0.62}_{-0.58}$
A_{217}^{CIB}	48.0	47^{+20}_{-20}	z_{re}	7.94	$8.0^{+2.4}_{-2.1}$	$D_M(0.61)$	2296.2	2296^{+32}_{-34}
$\xi^{tSZ \times CIB}$	0.34	—	$10^9 A_s$	2.109	$2.11^{+0.11}_{-0.089}$	$H(2.33)$	235.85	$235.9^{+2.0}_{-2.4}$
A_{143}^{tSZ}	7.24	$5.3^{+4.3}_{-4.7}$	$10^9 A_s e^{-2\tau}$	1.8800	$1.880^{+0.031}_{-0.029}$	$D_M(2.33)$	5751.7	5752^{+28}_{-25}
A_{100}^{PS}	251	261^{+70}_{-80}	D_{40}	1215.3	1215^{+47}_{-50}	$f\sigma_8(0.15)$	0.4526	$0.453^{+0.021}_{-0.023}$
A_{143}^{PS}	46.8	46^{+20}_{-20}	D_{220}	5741	5742^{+100}_{-98}	$\sigma_8(0.15)$	0.7474	$0.747^{+0.019}_{-0.016}$
$A_{143 \times 217}^{PS}$	45.2	41^{+20}_{-20}	D_{810}	2541.6	2541^{+34}_{-32}	$f\sigma_8(0.38)$	0.4720	$0.472^{+0.018}_{-0.018}$
A_{217}^{PS}	118.4	114^{+30}_{-30}	D_{1420}	818.6	817^{+12}_{-12}	$\sigma_8(0.38)$	0.6631	$0.663^{+0.017}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	231.23	$230.8^{+4.7}_{-4.3}$	$f\sigma_8(0.51)$	0.4711	$0.471^{+0.016}_{-0.016}$
A_{100}^{dustTT}	8.90	$9.0^{+4.9}_{-4.4}$	$n_{s,0.002}$	0.981	$0.984^{+0.055}_{-0.055}$	$\sigma_8(0.51)$	0.6208	$0.621^{+0.016}_{-0.013}$
A_{143}^{dustTT}	11.09	$11.0^{+4.4}_{-4.6}$	Y_P	0.245452	$0.24545^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	0.4666	$0.467^{+0.015}_{-0.014}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.6^{+8.5}_{-8.5}$	Y_P^{BBN}	0.246779	$0.24678^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5908	$0.591^{+0.015}_{-0.012}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	$10^5 D/H$	2.558	$2.559^{+0.073}_{-0.064}$	$f\sigma_8(2.33)$	0.2981	$0.2980^{+0.0077}_{-0.0063}$
A_{100}^{dustTE}	0.114	$0.115^{+0.095}_{-0.10}$	Age/Gyr	13.771	$13.771^{+0.062}_{-0.057}$	$\sigma_8(2.33)$	0.3075	$0.3074^{+0.0085}_{-0.0066}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.080}_{-0.072}$	z_*	1089.61	$1089.62^{+0.68}_{-0.63}$	f_{2000}^{143}	29.2	30^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.21}_{-0.23}$	r_*	144.66	$144.65^{+0.97}_{-0.76}$	$f_{2000}^{143 \times 217}$	32.2	33^{+6}_{-6}
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04127	$1.04129^{+0.00082}_{-0.00085}$	f_{2000}^{217}	106.8	$107.4^{+5.0}_{-5.8}$
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.20}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.893	$13.892^{+0.086}_{-0.071}$	χ_{small}^2	396.5	$397.5 (\nu: 3.0)$
A_{217}^{dustTE}	2.07	$2.07^{+0.70}_{-0.63}$	z_{drag}	1060.20	$1060.19^{+0.74}_{-0.79}$	χ_{lowl}^2	21.87	$22.1 (\nu: 1.1)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	147.28	$147.27^{+0.98}_{-0.76}$	χ_{plik}^2	2346.8	$2362.4 (\nu: 21.1)$
c_{217}	0.99821	$0.9982^{+0.0015}_{-0.0015}$	k_D	0.14078	$0.14079^{+0.00084}_{-0.00099}$	$\chi_{H073p45}^2$	10.7	$10.9 (\nu: 2.8)$
H_0	68.01	$68.0^{+1.6}_{-1.5}$	$100\theta_D$	0.160621	$0.16063^{+0.00047}_{-0.00045}$	χ_{prior}^2	1.8	$11.7 (\nu: 10.2)$
Ω_Λ	0.6934	$0.693^{+0.022}_{-0.021}$	z_{eq}	3374	3375^{+76}_{-91}	χ_{CMB}^2	2765.2	$2782.1 (\nu: 20.5)$
Ω_m	0.3066	$0.307^{+0.021}_{-0.022}$	k_{eq}	0.010297	$0.01030^{+0.00023}_{-0.00028}$			
$\Omega_m h^2$	0.14183	$0.1419^{+0.0032}_{-0.0038}$	$100\theta_{eq}$	0.8190	$0.819^{+0.018}_{-0.014}$			

Best-fit $\chi_{eff}^2 = 2777.71$; $\bar{\chi}_{eff}^2 = 2804.64$; $R - 1 = 0.04323$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.48 commander_dx12_v3.2_29: 21.87 plik_rd12_HM_v22b_TTTEEE: 2346.81 Hubble - H073p45: 10.74

12.16 base_nrun_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00041}_{-0.00039}$	$\Omega_{\mathrm{m}}h^2$	$0.1434^{+0.0033}_{-0.0033}$	k_{eq}	$0.01041^{+0.00024}_{-0.00024}$
$\Omega_{\mathrm{c}}h^2$	$0.1203^{+0.0035}_{-0.0035}$	$\Omega_{\mathrm{m}}h^3$	$0.09641^{+0.00081}_{-0.00080}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.015}_{-0.014}$
$100\theta_{\mathrm{MC}}$	$1.04090^{+0.00080}_{-0.00082}$	σ_8	$0.813^{+0.020}_{-0.018}$	$100\theta_{\mathrm{s,eq}}$	$0.4487^{+0.0076}_{-0.0074}$
τ	$0.057^{+0.020}_{-0.015}$	S_8	$0.836^{+0.043}_{-0.042}$	$H(0.15)$	$72.6^{+1.4}_{-1.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.051^{+0.045}_{-0.035}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	644^{+13}_{-13}
n_{s}	$0.964^{+0.011}_{-0.011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.022}_{-0.021}$	$H(0.38)$	$82.8^{+1.0}_{-0.95}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.006^{+0.017}_{-0.017}$	$\sigma_8/h^{0.5}$	$0.992^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1535^{+27}_{-27}
y_{cal}	$1.0007^{+0.0063}_{-0.0064}$	$r_{\mathrm{drag}}h$	$98.9^{+2.7}_{-2.7}$	$H(0.51)$	$89.60^{+0.81}_{-0.74}$
A_{217}^{CIB}	48^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.075}_{-0.075}$	$D_{\mathrm{M}}(0.51)$	1988^{+31}_{-31}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	z_{re}	< 9.72	$H(0.61)$	$95.26^{+0.67}_{-0.59}$
A_{143}^{tSZ}	$5.2^{+4.5}_{-4.7}$	$10^9 A_{\mathrm{s}}$	$2.114^{+0.098}_{-0.073}$	$D_{\mathrm{M}}(0.61)$	2312^{+34}_{-34}
A_{100}^{PS}	263^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.887^{+0.031}_{-0.031}$	$H(2.33)$	$236.8^{+2.1}_{-2.1}$
A_{143}^{PS}	48^{+20}_{-20}	D_{40}	1221^{+49}_{-47}	$D_{\mathrm{M}}(2.33)$	5764^{+28}_{-30}
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5733^{+100}_{-100}	$f\sigma_8(0.15)$	$0.462^{+0.022}_{-0.022}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2542^{+35}_{-35}	$\sigma_8(0.15)$	$0.751^{+0.018}_{-0.016}$
A^{kSZ}	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.479^{+0.018}_{-0.018}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.7}$	D_{2000}	$230.2^{+4.5}_{-4.8}$	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.6}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.982^{+0.052}_{-0.054}$	$f\sigma_8(0.51)$	$0.477^{+0.016}_{-0.015}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.6^{+8.5}_{-8.3}$	Y_{P}	$0.24540^{+0.00015}_{-0.00016}$	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00015}_{-0.00016}$	$f\sigma_8(0.61)$	$0.472^{+0.014}_{-0.014}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.10}_{-0.095}$	$10^5\mathrm{D}/\mathrm{H}$	$2.583^{+0.074}_{-0.073}$	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.010}$
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.134^{+0.075}_{-0.074}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.063}_{-0.066}$	$f\sigma_8(2.33)$	$0.2982^{+0.0065}_{-0.0051}$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.93^{+0.72}_{-0.74}$	$\sigma_8(2.33)$	$0.3072^{+0.0068}_{-0.0052}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.14}$	r_*	$144.34^{+0.77}_{-0.77}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	$1.04108^{+0.00079}_{-0.00081}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{217}^{\mathrm{dustTE}}$	$2.09^{+0.68}_{-0.69}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.864^{+0.072}_{-0.072}$	f_{2000}^{217}	$107.8^{+5.1}_{-5.2}$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	$1060.00^{+0.81}_{-0.79}$	χ_{simall}^2	$397.3 (\nu: 2.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$146.99^{+0.77}_{-0.78}$	χ_{lowl}^2	$22.6 (\nu: 1.3)$
H_0	$67.3^{+1.6}_{-1.5}$	k_{D}	$0.14099^{+0.00087}_{-0.00085}$	χ_{plik}^2	$2360.7 (\nu: 17.5)$
Ω_{Λ}	$0.683^{+0.021}_{-0.022}$	$100\theta_{\mathrm{D}}$	$0.16072^{+0.00046}_{-0.00047}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{m}	$0.317^{+0.022}_{-0.021}$	z_{eq}	3410^{+78}_{-78}	χ_{CMB}^2	$2780.5 (\nu: 17.2)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2792.02; R - 1 = 0.01357$$

12.17 base_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00038}_{-0.00035}$	σ_8	$0.811^{+0.019}_{-0.017}$	$D_M(0.15)$	$640.7^{+9.9}_{-10}$
$\Omega_c h^2$	$0.1194^{+0.0026}_{-0.0026}$	S_8	$0.826^{+0.033}_{-0.033}$	$H(0.38)$	$83.07^{+0.79}_{-0.72}$
$100\theta_{MC}$	$1.04101^{+0.00075}_{-0.00081}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.018}_{-0.018}$	$D_M(0.38)$	1528^{+20}_{-20}
τ	$0.057^{+0.020}_{-0.016}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.019}_{-0.018}$	$H(0.51)$	$89.79^{+0.65}_{-0.58}$
$\ln(10^{10} A_s)$	$3.050^{+0.048}_{-0.036}$	$\sigma_8/h^{0.5}$	$0.986^{+0.028}_{-0.026}$	$D_M(0.51)$	1980^{+23}_{-24}
n_s	$0.966^{+0.010}_{-0.011}$	$r_{\text{drag}} h$	$99.6^{+2.0}_{-2.0}$	$H(0.61)$	$95.41^{+0.55}_{-0.48}$
$dn_s/d \ln k$	$-0.005^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.067}_{-0.064}$	$D_M(0.61)$	2304^{+25}_{-26}
y_{cal}	$1.0007^{+0.0060}_{-0.0062}$	z_{re}	< 9.83	$H(2.33)$	$236.2^{+1.6}_{-1.6}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s$	$2.11^{+0.10}_{-0.075}$	$D_M(2.33)$	5758^{+23}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
A_{143}^{tSZ}	—	D_{40}	1218^{+46}_{-47}	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.014}$
A_{100}^{PS}	262^{+70}_{-70}	D_{220}	5737^{+96}_{-97}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2541^{+35}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$230.5^{+4.3}_{-4.4}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
A^{kSZ}	—	$n_{s,0.002}$	$0.982^{+0.053}_{-0.054}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P	$0.24542^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.010}$
A_{143}^{dustTT}	$11.0^{+4.5}_{-4.6}$	Y_P^{BBN}	$0.24675^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2982^{+0.0068}_{-0.0051}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.6}$	$10^5 D/H$	$2.571^{+0.066}_{-0.068}$	$\sigma_8(2.33)$	$0.3074^{+0.0072}_{-0.0053}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.784^{+0.053}_{-0.057}$	f_{2000}^{143}	30^{+8}_{-8}
A_{100}^{dustTE}	$0.115^{+0.095}_{-0.095}$	z_*	$1089.77^{+0.58}_{-0.61}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.074}$	r_*	$144.53^{+0.60}_{-0.62}$	f_{2000}^{217}	$107.6^{+5.0}_{-5.2}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04119^{+0.00073}_{-0.00082}$	χ_{simall}^2	$397.4 (\nu: 2.5)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.881^{+0.057}_{-0.060}$	χ_{lowl}^2	$22.3 (\nu: 1.2)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1060.07^{+0.77}_{-0.79}$	χ_{plik}^2	$2360.8 (\nu: 17.1)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.65}$	r_{drag}	$147.17^{+0.62}_{-0.64}$	$\chi_{6\text{DF}}^2$	$0.059 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14085^{+0.00078}_{-0.00080}$	χ_{MGS}^2	$1.24 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16068^{+0.00046}_{-0.00046}$	χ_{DR12BAO}^2	$4.9 (\nu: 1.1)$
H_0	$67.7^{+1.2}_{-1.1}$	z_{eq}	3389^{+60}_{-59}	χ_{prior}^2	$11.6 (\nu: 10.4)$
Ω_Λ	$0.689^{+0.015}_{-0.016}$	k_{eq}	$0.01034^{+0.00018}_{-0.00018}$	χ_{BAO}^2	$6.2 (\nu: 0.7)$
Ω_m	$0.311^{+0.016}_{-0.015}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	$2780.5 (\nu: 16.5)$
$\Omega_m h^2$	$0.1425^{+0.0025}_{-0.0025}$	$100\theta_{s,\text{eq}}$	$0.4507^{+0.0057}_{-0.0056}$		
$\Omega_m h^3$	$0.09641^{+0.00077}_{-0.00079}$	$H(0.15)$	$73.0^{+1.0}_{-0.98}$		

$$\bar{\chi}_{\text{eff}}^2 = 2798.32; R - 1 = 0.02163$$

12.18 base_nrun_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00039}_{-0.00037}$	$\Omega_m h^3$	$0.09639^{+0.00077}_{-0.00078}$	$100\theta_{s,eq}$	$0.4493^{+0.0064}_{-0.0064}$
$\Omega_c h^2$	$0.1200^{+0.0030}_{-0.0030}$	σ_8	$0.812^{+0.015}_{-0.015}$	$H(0.15)$	$72.7^{+1.2}_{-1.1}$
$100\theta_{MC}$	$1.04093^{+0.00078}_{-0.00082}$	S_8	$0.832^{+0.033}_{-0.033}$	$D_M(0.15)$	643^{+12}_{-12}
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8 \Omega_m^{0.5}$	$0.456^{+0.018}_{-0.018}$	$H(0.38)$	$82.89^{+0.90}_{-0.83}$
$\ln(10^{10} A_s)$	$3.049^{+0.040}_{-0.030}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.016}_{-0.017}$	$D_M(0.38)$	1533^{+23}_{-24}
n_s	$0.964^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.989^{+0.023}_{-0.024}$	$H(0.51)$	$89.65^{+0.75}_{-0.65}$
$dn_s/d \ln k$	$-0.005^{+0.018}_{-0.017}$	$r_{drag} h$	$99.1^{+2.4}_{-2.3}$	$D_M(0.51)$	1985^{+27}_{-28}
y_{cal}	$1.0006^{+0.0063}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.058}_{-0.060}$	$H(0.61)$	$95.30^{+0.61}_{-0.54}$
A_{217}^{CIB}	48^{+20}_{-20}	z_{re}	< 9.48	$D_M(0.61)$	2310^{+29}_{-30}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.109^{+0.085}_{-0.063}$	$H(2.33)$	$236.6^{+1.8}_{-1.7}$
A_{143}^{tSZ}	—	$10^9 A_s e^{-2\tau}$	$1.885^{+0.028}_{-0.028}$	$D_M(2.33)$	5762^{+26}_{-28}
A_{100}^{PS}	263^{+70}_{-70}	D_{40}	1222^{+45}_{-47}	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.017}$
A_{143}^{PS}	47^{+20}_{-20}	D_{220}	5734^{+97}_{-100}	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.013}$
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	D_{810}	2541^{+34}_{-33}	$f\sigma_8(0.38)$	$0.478^{+0.013}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	D_{1420}	816^{+12}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.011}$
A^{kSZ}	—	D_{2000}	$230.3^{+4.4}_{-4.7}$	$f\sigma_8(0.51)$	$0.476^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	$n_{s,0.002}$	$0.979^{+0.053}_{-0.052}$	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.0097}$
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.6}$	Y_P	$0.24541^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	$0.470^{+0.010}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	$18.6^{+8.8}_{-8.6}$	Y_P^{BBN}	$0.24673^{+0.00015}_{-0.00015}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0092}$
A_{217}^{dustTT}	93^{+20}_{-20}	$10^5 D/H$	$2.580^{+0.070}_{-0.071}$	$f\sigma_8(2.33)$	$0.2980^{+0.0057}_{-0.0046}$
A_{100}^{dustTE}	$0.115^{+0.10}_{-0.094}$	Age/Gyr	$13.794^{+0.058}_{-0.064}$	$\sigma_8(2.33)$	$0.3070^{+0.0061}_{-0.0048}$
$A_{100 \times 143}^{dustTE}$	$0.134^{+0.075}_{-0.074}$	z_*	$1089.88^{+0.64}_{-0.68}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.23}$	r_*	$144.41^{+0.66}_{-0.67}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	$1.04111^{+0.00074}_{-0.00080}$	f_{2000}^{217}	$107.7^{+5.1}_{-5.1}$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.20}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.871^{+0.062}_{-0.063}$	$\chi_{lensing}^2$	$9.42 (\nu: 0.3)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.65}$	z_{drag}	$1060.01^{+0.80}_{-0.76}$	χ_{simall}^2	$397.0 (\nu: 1.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.06^{+0.68}_{-0.69}$	χ_{lowl}^2	$22.7 (\nu: 1.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	k_D	$0.14093^{+0.00080}_{-0.00078}$	χ_{plik}^2	$2360.4 (\nu: 16.7)$
H_0	$67.4^{+1.4}_{-1.3}$	$100\theta_D$	$0.16072^{+0.00047}_{-0.00046}$	χ_{prior}^2	$11.6 (\nu: 10.5)$
Ω_Λ	$0.685^{+0.018}_{-0.019}$	z_{eq}	3403^{+67}_{-65}	χ_{CMB}^2	$2789.5 (\nu: 17.1)$
Ω_m	$0.315^{+0.019}_{-0.018}$	k_{eq}	$0.01039^{+0.00020}_{-0.00020}$		
$\Omega_m h^2$	$0.1431^{+0.0028}_{-0.0027}$	$100\theta_{eq}$	$0.813^{+0.013}_{-0.013}$		

$$\bar{\chi}_{\text{eff}}^2 = 2801.11; R - 1 = 0.02119$$

12.19 base_nrun_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00037}_{-0.00035}$	σ_8	$0.811^{+0.015}_{-0.014}$	$D_M(0.15)$	$640.6^{+9.2}_{-9.3}$
$\Omega_c h^2$	$0.1194^{+0.0024}_{-0.0023}$	S_8	$0.825^{+0.027}_{-0.028}$	$H(0.38)$	$83.07^{+0.74}_{-0.67}$
$100\theta_{MC}$	$1.04101^{+0.00075}_{-0.00085}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.015}_{-0.015}$	$D_M(0.38)$	1528^{+18}_{-19}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.014}_{-0.015}$	$H(0.51)$	$89.79^{+0.62}_{-0.55}$
$\ln(10^{10} A_s)$	$3.050^{+0.040}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.022}$	$D_M(0.51)$	1979^{+21}_{-22}
n_s	$0.966^{+0.010}_{-0.010}$	$r_{\text{drag}} h$	$99.6^{+1.9}_{-1.8}$	$H(0.61)$	$95.41^{+0.53}_{-0.46}$
$dn_s/d \ln k$	$-0.004^{+0.018}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.056}_{-0.057}$	$D_M(0.61)$	2303^{+23}_{-24}
y_{cal}	$1.0008^{+0.0060}_{-0.0062}$	z_{re}	< 9.58	$H(2.33)$	$236.2^{+1.5}_{-1.4}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.112^{+0.086}_{-0.065}$	$D_M(2.33)$	5758^{+23}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
A_{143}^{tSZ}	—	D_{40}	1220^{+44}_{-47}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
A_{100}^{PS}	262^{+80}_{-70}	D_{220}	5739^{+94}_{-98}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	47^{+20}_{-20}	D_{810}	2541^{+34}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$230.6^{+4.2}_{-4.4}$	$\sigma_8(0.51)$	$0.622^{+0.011}_{-0.010}$
A^{kSZ}	—	$n_{s,0.002}$	$0.979^{+0.053}_{-0.053}$	$f\sigma_8(0.61)$	$0.4689^{+0.0099}_{-0.010}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.5}$	Y_P	$0.24542^{+0.00014}_{-0.00014}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0096}$
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.8}$	Y_P^{BBN}	$0.24675^{+0.00014}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2982^{+0.0056}_{-0.0048}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.7}$	$10^5 D/H$	$2.572^{+0.065}_{-0.066}$	$\sigma_8(2.33)$	$0.3075^{+0.0060}_{-0.0050}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.784^{+0.052}_{-0.056}$	f_{2000}^{143}	30^{+8}_{-8}
A_{100}^{dustTE}	$0.115^{+0.097}_{-0.096}$	z_*	$1089.77^{+0.56}_{-0.60}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.078}_{-0.075}$	r_*	$144.54^{+0.54}_{-0.57}$	f_{2000}^{217}	$107.5^{+5.1}_{-5.4}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04118^{+0.00073}_{-0.00084}$	χ_{lensing}^2	$9.23 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.882^{+0.052}_{-0.055}$	χ_{simall}^2	$397.3 (\nu: 1.9)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1060.07^{+0.78}_{-0.79}$	χ_{lowl}^2	$22.5 (\nu: 1.3)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.64}$	r_{drag}	$147.18^{+0.57}_{-0.59}$	χ_{plik}^2	$2360.4 (\nu: 16.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14084^{+0.00075}_{-0.00073}$	$\chi_{6\text{DF}}^2$	$0.054 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16069^{+0.00045}_{-0.00045}$	χ_{MGS}^2	$1.24 (\nu: 0.1)$
H_0	$67.7^{+1.1}_{-1.1}$	z_{eq}	3389^{+55}_{-50}	χ_{DR12BAO}^2	$4.8 (\nu: 0.9)$
Ω_Λ	$0.689^{+0.014}_{-0.015}$	k_{eq}	$0.01034^{+0.00017}_{-0.00015}$	χ_{prior}^2	$11.6 (\nu: 10.4)$
Ω_m	$0.311^{+0.015}_{-0.014}$	$100\theta_{\text{eq}}$	$0.8160^{+0.0098}_{-0.010}$	χ_{CMB}^2	$2789.5 (\nu: 16.5)$
$\Omega_m h^2$	$0.1424^{+0.0023}_{-0.0021}$	$100\theta_{s,\text{eq}}$	$0.4508^{+0.0050}_{-0.0052}$	χ_{BAO}^2	$6.1 (\nu: 0.6)$
$\Omega_m h^3$	$0.09640^{+0.00078}_{-0.00078}$	$H(0.15)$	$72.96^{+0.96}_{-0.91}$		

$$\bar{\chi}_{\text{eff}}^2 = 2807.20; R - 1 = 0.02657$$

12.20 base_nrun_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02252^{+0.00036}_{-0.00039}$	$\Omega_{\mathrm{m}}h^3$	$0.09647^{+0.00076}_{-0.00079}$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0091}_{-0.0073}$
$\Omega_{\mathrm{c}}h^2$	$0.1187^{+0.0034}_{-0.0039}$	σ_8	$0.809^{+0.021}_{-0.018}$	$H(0.15)$	$73.2^{+1.4}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.04112^{+0.00084}_{-0.00086}$	S_8	$0.818^{+0.041}_{-0.045}$	$D_{\mathrm{M}}(0.15)$	638^{+13}_{-13}
τ	$0.058^{+0.023}_{-0.017}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.022}_{-0.025}$	$H(0.38)$	$83.29^{+0.97}_{-0.93}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.051^{+0.050}_{-0.037}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1522^{+25}_{-27}
n_{s}	$0.968^{+0.013}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.980^{+0.032}_{-0.030}$	$H(0.51)$	$89.96^{+0.73}_{-0.73}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.005^{+0.018}_{-0.018}$	$r_{\mathrm{drag}}h$	$100.2^{+3.1}_{-2.6}$	$D_{\mathrm{M}}(0.51)$	1973^{+30}_{-31}
y_{cal}	$1.0007^{+0.0059}_{-0.0060}$	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.076}_{-0.069}$	$H(0.61)$	$95.55^{+0.62}_{-0.58}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 10.0	$D_{\mathrm{M}}(0.61)$	2296^{+32}_{-33}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.11^{+0.11}_{-0.077}$	$H(2.33)$	$235.9^{+2.0}_{-2.4}$
A_{143}^{tSZ}	$5.3^{+4.3}_{-4.6}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.031}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5751^{+27}_{-27}
A_{100}^{PS}	261^{+70}_{-80}	D_{40}	1214^{+47}_{-50}	$f\sigma_8(0.15)$	$0.453^{+0.021}_{-0.023}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5742^{+100}_{-98}	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.016}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{810}	2541^{+34}_{-32}	$f\sigma_8(0.38)$	$0.472^{+0.018}_{-0.019}$
A_{217}^{PS}	114^{+30}_{-30}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.013}$
A^{kSZ}	—	D_{2000}	$230.8^{+4.7}_{-4.2}$	$f\sigma_8(0.51)$	$0.471^{+0.016}_{-0.016}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.9}_{-4.4}$	$n_{\mathrm{s},0.002}$	$0.984^{+0.054}_{-0.054}$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.012}$
$A_{143}^{\mathrm{dust}TT}$	$11.0^{+4.4}_{-4.6}$	Y_{P}	$0.24545^{+0.00014}_{-0.00016}$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.014}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.5}_{-8.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.011}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.558^{+0.073}_{-0.064}$	$f\sigma_8(2.33)$	$0.2982^{+0.0075}_{-0.0051}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.095}_{-0.10}$	Age/Gyr	$13.770^{+0.062}_{-0.057}$	$\sigma_8(2.33)$	$0.3076^{+0.0083}_{-0.0054}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.081}_{-0.072}$	z_*	$1089.62^{+0.68}_{-0.62}$	f_{2000}^{143}	30^{+8}_{-8}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.23}$	r_*	$144.66^{+0.97}_{-0.76}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04129^{+0.00082}_{-0.00085}$	f_{2000}^{217}	$107.4^{+5.0}_{-5.8}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.086}_{-0.071}$	χ_{simall}^2	$397.5\ (\nu: 3.1)$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.70}_{-0.63}$	z_{drag}	$1060.19^{+0.73}_{-0.79}$	χ_{lowl}^2	$22.1\ (\nu: 1.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	$147.27^{+0.97}_{-0.76}$	χ_{plik}^2	$2362.4\ (\nu: 21.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0015}$	k_{D}	$0.14079^{+0.00083}_{-0.00098}$	$\chi_{\mathrm{H073p45}}^2$	$10.9\ (\nu: 2.8)$
H_0	$68.0^{+1.6}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.16062^{+0.00048}_{-0.00045}$	χ_{prior}^2	$11.7\ (\nu: 10.2)$
Ω_{Λ}	$0.693^{+0.022}_{-0.021}$	z_{eq}	3374^{+76}_{-91}	χ_{CMB}^2	$2782.0\ (\nu: 20.5)$
Ω_{m}	$0.307^{+0.021}_{-0.022}$	k_{eq}	$0.01030^{+0.00023}_{-0.00028}$		
$\Omega_{\mathrm{m}}h^2$	$0.1419^{+0.0032}_{-0.0038}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.017}_{-0.014}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2804.52; R - 1 = 0.04836$$

12.21 base_nrun_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02216^{+0.00060}_{-0.00060}$ (+0.0 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4596	$0.459^{+0.035}_{-0.033}$ (−0.1 σ)	$H(0.15)$	72.28	$72.3^{+2.0}_{-2.0}$ (+0.1 σ)
$\Omega_c h^2$	0.1207	$0.1206^{+0.0056}_{-0.0053}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6108	$0.610^{+0.030}_{-0.030}$ (−0.1 σ)	$D_M(0.15)$	647.3	647^{+21}_{-20} (−0.1 σ)
$100\theta_{MC}$	1.04082	$1.0408^{+0.0012}_{-0.0012}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	0.9925	$0.991^{+0.041}_{-0.041}$ (−0.1 σ)	$H(0.38)$	82.55	$82.6^{+1.5}_{-1.4}$ (+0.1 σ)
τ	0.0529	$0.053^{+0.023}_{-0.022}$ (−0.0 σ)	$r_{drag}h$	98.46	$98.6^{+4.2}_{-4.2}$ (+0.1 σ)	$D_M(0.38)$	1541.6	1541^{+41}_{-40} (−0.1 σ)
$\ln(10^{10} A_s)$	3.0419	$3.041^{+0.048}_{-0.048}$ (−0.2 σ)	$\langle d^2 \rangle^{1/2}$	2.448	$2.445^{+0.098}_{-0.096}$ (−0.1 σ)	$H(0.51)$	89.35	$89.4^{+1.2}_{-1.1}$ (+0.1 σ)
n_s	0.9624	$0.963^{+0.016}_{-0.016}$ (+0.2 σ)	z_{re}	7.59	$7.6^{+2.2}_{-2.5}$ (−0.1 σ)	$D_M(0.51)$	1995.6	1994^{+48}_{-47} (−0.1 σ)
$dn_s/d \ln k$	−0.0033	$−0.003^{+0.019}_{-0.020}$ (+0.1 σ)	$10^9 A_s$	2.094	$2.09^{+0.10}_{-0.098}$ (−0.2 σ)	$H(0.61)$	95.04	$95.07^{+0.94}_{-0.89}$ (+0.1 σ)
y_{cal}	1.0006	$1.0004^{+0.0065}_{-0.0065}$ (−0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8842	$1.883^{+0.039}_{-0.036}$ (−0.3 σ)	$D_M(0.61)$	2321	2320^{+51}_{-51} (−0.1 σ)
A_{100}^{PS}	245	244^{+60}_{-70} (−0.8 σ)	D_{40}	1224	1223^{+54}_{-54} (−0.1 σ)	$H(2.33)$	236.78	$236.7^{+3.5}_{-3.2}$ (−0.1 σ)
A_{143}^{PS}	39.9	42^{+20}_{-20} (−1.0 σ)	D_{220}	5706	5704^{+110}_{-110} (−0.2 σ)	$D_M(2.33)$	5775.7	5775^{+43}_{-43} (−0.1 σ)
A_{217}^{PS}	98.4	100^{+30}_{-40} (−1.4 σ)	D_{810}	2535.5	2535^{+37}_{-35} (−0.2 σ)	$f\sigma_8(0.15)$	0.4634	$0.463^{+0.031}_{-0.031}$ (−0.1 σ)
A_{217}^{CIB}	45.4	42^{+20}_{-20} (−1.0 σ)	D_{1420}	813.5	814^{+14}_{-14} (−0.1 σ)	$\sigma_8(0.15)$	0.7493	$0.749^{+0.020}_{-0.020}$ (−0.1 σ)
A_{143}^{tSZ}	5.16	< 8.66 (−0.6 σ)	D_{2000}	229.1	$229.1^{+5.2}_{-5.1}$ (+0.0 σ)	$f\sigma_8(0.38)$	0.4798	$0.479^{+0.024}_{-0.025}$ (−0.1 σ)
$r_{143 \times 217}^{PS}$	0.549	$0.64^{+0.32}_{-0.32}$	$n_{s,0.002}$	0.973	$0.974^{+0.061}_{-0.058}$ (−0.1 σ)	$\sigma_8(0.38)$	0.6632	$0.663^{+0.017}_{-0.017}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.74	—	Y_P	0.245306	$0.24530^{+0.00024}_{-0.00028}$ (+0.0 σ)	$f\sigma_8(0.51)$	0.4773	$0.477^{+0.021}_{-0.021}$ (−0.1 σ)
$\xi^{tSZ \times CIB}$	0.00	—	Y_P^{BBN}	0.246632	$0.24663^{+0.00024}_{-0.00029}$ (+0.0 σ)	$\sigma_8(0.51)$	0.6202	$0.620^{+0.015}_{-0.015}$ (−0.1 σ)
A^{kSZ}	2.6	—	$10^5 D/H$	2.627	$2.63^{+0.12}_{-0.11}$ (−0.0 σ)	$f\sigma_8(0.61)$	0.4716	$0.471^{+0.018}_{-0.019}$ (−0.1 σ)
A_{100}^{dust}	1.02	$1.02^{+0.50}_{-0.51}$	Age/Gyr	13.825	$13.823^{+0.098}_{-0.097}$ (−0.1 σ)	$\sigma_8(0.61)$	0.5899	$0.590^{+0.014}_{-0.014}$ (−0.1 σ)
A_{143}^{dust}	0.986	$0.98^{+0.45}_{-0.46}$	z_*	1090.26	$1090.2^{+1.1}_{-1.0}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2971	$0.2970^{+0.0072}_{-0.0068}$ (−0.1 σ)
A_{217}^{dust}	0.961	$0.97^{+0.27}_{-0.27}$	r_*	144.42	$144.5^{+1.2}_{-1.3}$ (+0.1 σ)	$\sigma_8(2.33)$	0.3059	$0.3059^{+0.0077}_{-0.0072}$ (−0.1 σ)
$A_{143 \times 217}^{dust}$	1.002	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	1.04103	$1.0410^{+0.0012}_{-0.0012}$ (+0.1 σ)	f_{2000}^{143}	32.0	32^{+9}_{-9} (−0.2 σ)
c_{100}	0.99751	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$D_M(z_*)/\text{Gpc}$	13.873	$13.88^{+0.12}_{-0.12}$ (+0.1 σ)	f_{2000}^{217}	108.3	$108.0^{+5.6}_{-5.8}$ (−0.3 σ)
c_{217}	1.00149	$1.0013^{+0.0041}_{-0.0040}$ (+4.8 σ)	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.3}$ (−0.0 σ)	$f_{2000}^{143 \times 217}$	33.7	34^{+6}_{-6} (−0.3 σ)
H_0	66.91	$67.0^{+2.4}_{-2.3}$ (+0.1 σ)	r_{drag}	147.16	$147.2^{+1.3}_{-1.3}$ (+0.1 σ)	χ_{simall}^2	395.9	$397.0 (\nu: 1.6)$ (−0.0 σ)
Ω_Λ	0.6795	$0.680^{+0.032}_{-0.036}$ (+0.1 σ)	k_D	0.14063	$0.1406^{+0.0014}_{-0.0014}$ (−0.1 σ)	χ_{lowl}^2	22.73	$23.1 (\nu: 2.2)$ (−0.0 σ)
Ω_m	0.3205	$0.320^{+0.036}_{-0.032}$ (−0.1 σ)	$100\theta_D$	0.16103	$0.16103^{+0.00077}_{-0.00073}$ (+0.0 σ)	$\chi_{CamSpec}^2$	7050.5	$7064.2 (\nu: 16.0)$
$\Omega_m h^2$	0.1435	$0.1434^{+0.0054}_{-0.0051}$ (−0.1 σ)	z_{eq}	3413	3410^{+130}_{-120} (−0.1 σ)	χ_{prior}^2	2.4	$7.7 (\nu: 6.1)$ (+0.1 σ)
$\Omega_m h^3$	0.09599	$0.0960^{+0.0013}_{-0.0013}$ (+0.0 σ)	k_{eq}	0.010417	$0.01041^{+0.00039}_{-0.00037}$ (−0.1 σ)	χ_{CMB}^2	7469.1	$7484.4 (\nu: 15.9)$ (+1120.2 σ)
σ_8	0.8118	$0.811^{+0.023}_{-0.024}$ (−0.1 σ)	$100\theta_{eq}$	0.8107	$0.811^{+0.023}_{-0.023}$ (+0.1 σ)			
S_8	0.839	$0.838^{+0.063}_{-0.060}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4482	$0.448^{+0.012}_{-0.012}$ (+0.1 σ)			

Best-fit $\chi_{eff}^2 = 7471.52$; $\Delta\chi_{eff}^2 = 6292.07$; $\bar{\chi}_{eff}^2 = 7492.14$; $\Delta\bar{\chi}_{eff}^2 = 6291.92$; $R - 1 = 0.00818$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.90 (Δ -0.01) commander_dx12.v3.2.29: 22.73 (Δ -0.01) CamSpec like_10.7HM: 7050.50

12.22 base_nrun_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02225^{+0.00054}_{-0.00055} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$H(0.38)$	$83.01^{+0.91}_{-0.91} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0031} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.031}_{-0.029} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+24}_{-23} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$H(0.51)$	$89.71^{+0.76}_{-0.75} \quad (+0.1\sigma)$
τ	$0.055^{+0.023}_{-0.022} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.074}_{-0.072} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+29}_{-28} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.050}_{-0.047} \quad (-0.1\sigma)$	z_{re}	$7.7^{+2.2}_{-2.4} \quad (-0.0\sigma)$	$H(0.61)$	$95.31^{+0.64}_{-0.64} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.11}_{-0.097} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+31}_{-30} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.003^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$H(2.33)$	$235.8^{+2.1}_{-1.9} \quad (-0.0\sigma)$
y_{cal}	$1.0004^{+0.0068}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1217^{+53}_{-50} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+33}_{-33} \quad (-0.1\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5710^{+110}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+37}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.5^{+5.1}_{-5.1} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.62 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.975^{+0.061}_{-0.058} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.016}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.32}$	Y_{P}	$0.24534^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.098} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.801^{+0.076}_{-0.076} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0072}_{-0.0066} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.51}_{-0.53}$	z_*	$1089.98^{+0.80}_{-0.78} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0076}_{-0.0068} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	r_*	$144.80^{+0.82}_{-0.86} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.7^{+5.6}_{-6.0} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.44}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.906^{+0.080}_{-0.083} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.2}_{-1.3} \quad (-0.0\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (-0.0\sigma)$
c_{217}	$1.0013^{+0.0039}_{-0.0039} \quad (+4.8\sigma)$	r_{drag}	$147.51^{+0.94}_{-0.95} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.6 \quad (\nu: 1.6) \quad (-0.0\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.6 \quad (\nu: 15.3)$
Ω_{Λ}	$0.690^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16098^{+0.00074}_{-0.00071} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3374^{+76}_{-71} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.39 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0032}_{-0.0030} \quad (-0.0\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00022} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.014} \quad (+0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.2) \quad (+0.1\sigma)$
σ_8	$0.807^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0069}_{-0.0071} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.0\sigma)$
S_8	$0.820^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7484.3 \quad (\nu: 15.1) \quad (+1129.7\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-11} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7498.15$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.68$; $R - 1 = 0.01937$

12.23 base_nrun_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00056}_{-0.00059} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$H(0.15)$	$72.4^{+1.6}_{-1.6} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1202^{+0.0041}_{-0.0040} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+16}_{-16} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027} \quad (+0.0\sigma)$	$H(0.38)$	$82.7^{+1.2}_{-1.2} \quad (-0.0\sigma)$
τ	$0.053^{+0.022}_{-0.022} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.8^{+3.2}_{-3.1} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1539^{+32}_{-32} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.044}_{-0.043} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.070}_{-0.068} \quad (-0.0\sigma)$	$H(0.51)$	$89.43^{+0.97}_{-0.94} \quad (-0.0\sigma)$
n_{s}	$0.964^{+0.014}_{-0.013} \quad (+0.1\sigma)$	z_{re}	$7.6^{+2.1}_{-2.4} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1992^{+38}_{-38} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.002^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.093}_{-0.088} \quad (-0.1\sigma)$	$H(0.61)$	$95.10^{+0.81}_{-0.78} \quad (-0.0\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.032}_{-0.032} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2317^{+41}_{-41} \quad (+0.0\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1224^{+52}_{-51} \quad (-0.1\sigma)$	$H(2.33)$	$236.5^{+2.5}_{-2.4} \quad (+0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+110}_{-100} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5773^{+39}_{-39} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-14} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.015} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.66 \quad (-0.6\sigma)$	D_{2000}	$229.2^{+5.2}_{-5.0} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.016} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.971^{+0.060}_{-0.058} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24531^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00022}_{-0.00028} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.012} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.10} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.012} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.820^{+0.089}_{-0.089} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.012} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	z_*	$1090.20^{+0.98}_{-0.91} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2970^{+0.0065}_{-0.0063} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.28}$	r_*	$144.52^{+0.97}_{-0.97} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0072}_{-0.0068} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.882^{+0.092}_{-0.091} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.9^{+5.7}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0013^{+0.0040}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.1^{+1.8}_{-1.8} \quad (-0.0\sigma)$	r_{drag}	$147.3^{+1.0}_{-1.0} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.61 \quad (\nu: 0.4) \quad (+0.0\sigma)$
Ω_{Λ}	$0.682^{+0.025}_{-0.026} \quad (-0.0\sigma)$	k_{D}	$0.1405^{+0.0012}_{-0.0013} \quad (+0.0\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (+0.0\sigma)$
Ω_{m}	$0.318^{+0.026}_{-0.025} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00078}_{-0.00071} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 2.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1431^{+0.0039}_{-0.0038} \quad (+0.0\sigma)$	z_{eq}	$3403^{+94}_{-91} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.5 \quad (\nu: 14.6)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.01039^{+0.00029}_{-0.00028} \quad (+0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.811^{+0.016}_{-0.017} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.017}_{-0.017} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.4 \quad (\nu: 15.9) \quad (+1123.2\sigma)$
S_8	$0.834^{+0.043}_{-0.041} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4492^{+0.0089}_{-0.0087} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7501.08; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.80; R - 1 = 0.01225$$

12.24 base_nrun_CamSpecHM_TT_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02225^{+0.00054}_{-0.00056} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (+0.0\sigma)$	$H(0.38)$	$82.97^{+0.87}_{-0.85} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0029}_{-0.0028} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+23}_{-22} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.2}_{-2.2} \quad (-0.0\sigma)$	$H(0.51)$	$89.67^{+0.73}_{-0.72} \quad (+0.0\sigma)$
τ	$0.056^{+0.021}_{-0.020} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.059}_{-0.059} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+27}_{-27} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.042}_{-0.039} \quad (-0.1\sigma)$	z_{re}	$7.9^{+2.0}_{-2.1} \quad (+0.0\sigma)$	$H(0.61)$	$95.28^{+0.64}_{-0.62} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.090}_{-0.081} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2306^{+29}_{-29} \quad (-0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.002^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.9}_{-1.8} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0067}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1220^{+51}_{-51} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+32}_{-33} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.015} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+40}_{-30} \quad (-1.4\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.7^{+5.0}_{-4.9} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.59 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.974^{+0.062}_{-0.059} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.24534^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.012} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.098} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.803^{+0.075}_{-0.077} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0063}_{-0.0058} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.52}$	z_*	$1090.00^{+0.79}_{-0.74} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0069}_{-0.0063} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.44}$	r_*	$144.75^{+0.75}_{-0.78} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.6^{+5.6}_{-6.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.44}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.902^{+0.075}_{-0.074} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.2}_{-1.3} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.47 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0039}_{-0.0038} \quad (+4.8\sigma)$	r_{drag}	$147.46^{+0.86}_{-0.86} \quad (-0.0\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.9) \quad (+0.0\sigma)$
H_0	$67.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	χ_{lowl}^2	$22.8 \quad (\nu: 1.8) \quad (-0.0\sigma)$
Ω_{Λ}	$0.689^{+0.017}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16098^{+0.00074}_{-0.00070} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.8 \quad (\nu: 14.3)$
Ω_{m}	$0.311^{+0.018}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3378^{+68}_{-65} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0027} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00021}_{-0.00020} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.30 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
σ_8	$0.809^{+0.017}_{-0.016} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0062}_{-0.0063} \quad (-0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
S_8	$0.824^{+0.031}_{-0.030} \quad (+0.0\sigma)$	$H(0.15)$	$72.9^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.4 \quad (\nu: 15.3) \quad (+1130.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.016} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+11}_{-11} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (+0.0\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7507.23$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.89$; $R - 1 = 0.02103$

12.25 base_nrun_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00060}_{-0.00060} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.034}_{-0.033} \quad (-0.1\sigma)$	$H(0.15)$	$72.4^{+2.0}_{-2.0} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1205^{+0.0055}_{-0.0053} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.030}_{-0.030} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+21}_{-20} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.992^{+0.040}_{-0.041} \quad (-0.1\sigma)$	$H(0.38)$	$82.6^{+1.5}_{-1.4} \quad (+0.1\sigma)$
τ	$0.055^{+0.020}_{-0.013} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.6^{+4.2}_{-4.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1540^{+41}_{-40} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.046}_{-0.033} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.098}_{-0.093} \quad (-0.1\sigma)$	$H(0.51)$	$89.4^{+1.2}_{-1.1} \quad (+0.1\sigma)$
n_{s}	$0.963^{+0.016}_{-0.015} \quad (+0.2\sigma)$	z_{re}	$< 9.65 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1994^{+47}_{-47} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.004^{+0.019}_{-0.020} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.098}_{-0.068} \quad (-0.2\sigma)$	$H(0.61)$	$95.08^{+0.93}_{-0.88} \quad (+0.1\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.038}_{-0.036} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2319^{+51}_{-50} \quad (-0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1222^{+54}_{-54} \quad (-0.1\sigma)$	$H(2.33)$	$236.7^{+3.4}_{-3.2} \quad (-0.1\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5704^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5774^{+43}_{-43} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{810}	$2535^{+37}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.031}_{-0.031} \quad (-0.1\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.019}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.6\sigma)$	D_{2000}	$229.2^{+5.2}_{-5.1} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.975^{+0.061}_{-0.058} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.013} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24531^{+0.00023}_{-0.00028} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.020}_{-0.021} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.012} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.019} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.52}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.821^{+0.098}_{-0.096} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	z_*	$1090.2^{+1.1}_{-1.0} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0068}_{-0.0049} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.5^{+1.2}_{-1.3} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3064^{+0.0074}_{-0.0050} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.11}_{-0.12} \quad (+0.1\sigma)$	f_{2000}^{217}	$108.0^{+5.6}_{-5.9} \quad (-0.3\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	$1059.5^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.0^{+2.4}_{-2.3} \quad (+0.1\sigma)$	r_{drag}	$147.2^{+1.3}_{-1.3} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.681^{+0.032}_{-0.035} \quad (+0.1\sigma)$	k_{D}	$0.1406^{+0.0014}_{-0.0014} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 2.1) \quad (-0.0\sigma)$
Ω_{m}	$0.319^{+0.035}_{-0.032} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00077}_{-0.00073} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.2 \quad (\nu: 16.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1433^{+0.0053}_{-0.0051} \quad (-0.1\sigma)$	z_{eq}	$3409^{+130}_{-120} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	k_{eq}	$0.01040^{+0.00039}_{-0.00037} \quad (-0.1\sigma)$	χ_{CMB}^2	$7484.1 \quad (\nu: 15.5) \quad (+1134.1\sigma)$
σ_8	$0.812^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.023}_{-0.023} \quad (+0.1\sigma)$		
S_8	$0.838^{+0.063}_{-0.060} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.012} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7491.87; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.89; R - 1 = 0.00915$$

12.26 base_nrun_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00054}_{-0.00054} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$H(0.38)$	$83.02^{+0.90}_{-0.90} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0030} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.030}_{-0.028} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+24}_{-23} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.3}_{-2.4} \quad (+0.1\sigma)$	$H(0.51)$	$89.72^{+0.75}_{-0.74} \quad (+0.1\sigma)$
τ	$0.056^{+0.020}_{-0.015} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.073}_{-0.068} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+29}_{-27} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.048}_{-0.033} \quad (-0.1\sigma)$	z_{re}	$< 9.70 \quad (-0.0\sigma)$	$H(0.61)$	$95.32^{+0.63}_{-0.64} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.096}_{-0.074} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+31}_{-30} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.003^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$H(2.33)$	$235.7^{+2.1}_{-1.9} \quad (-0.0\sigma)$
y_{cal}	$1.0004^{+0.0069}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1216^{+53}_{-50} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+33}_{-33} \quad (-0.1\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.7\sigma)$	D_{220}	$5710^{+110}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2533^{+37}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.015} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+40}_{-40} \quad (-1.4\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.5^{+5.1}_{-5.1} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.62 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.976^{+0.061}_{-0.058} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.31}_{-0.33}$	Y_{P}	$0.24535^{+0.00021}_{-0.00025} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.098} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.010} \quad (-0.1\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.800^{+0.076}_{-0.076} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0070}_{-0.0051} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.02^{+0.51}_{-0.53}$	z_*	$1089.97^{+0.79}_{-0.79} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0073}_{-0.0052} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	r_*	$144.80^{+0.82}_{-0.86} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.0413^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.7^{+5.6}_{-5.9} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.906^{+0.081}_{-0.083} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.2}_{-1.3} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.9) \quad (-0.0\sigma)$
c_{217}	$1.0013^{+0.0039}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.51^{+0.94}_{-0.95} \quad (+0.0\sigma)$	χ_{lowl}^2	$22.5 \quad (\nu: 1.6) \quad (-0.0\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.1403^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.5 \quad (\nu: 15.2)$
Ω_{Λ}	$0.690^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16097^{+0.00075}_{-0.00070} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.053 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.310^{+0.019}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3374^{+76}_{-70} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.40 \quad (\nu: 0.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0032}_{-0.0029} \quad (-0.0\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00021} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.014} \quad (+0.0\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.2) \quad (+0.1\sigma)$
σ_8	$0.808^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0069}_{-0.0071} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.1\sigma)$
S_8	$0.821^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$7484.1 \quad (\nu: 14.8) \quad (+1144.6\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-11} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7497.95$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.73$; $R - 1 = 0.02138$

12.27 base_nrun_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00056}_{-0.00058} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$H(0.15)$	$72.5^{+1.6}_{-1.5} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0040}_{-0.0039} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+16}_{-15} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027} \quad (+0.0\sigma)$	$H(0.38)$	$82.7^{+1.2}_{-1.1} \quad (-0.0\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$98.9^{+3.1}_{-3.0} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1537^{+31}_{-31} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.041}_{-0.029} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.070}_{-0.068} \quad (-0.0\sigma)$	$H(0.51)$	$89.46^{+0.95}_{-0.90} \quad (-0.0\sigma)$
n_{s}	$0.964^{+0.014}_{-0.013} \quad (+0.1\sigma)$	z_{re}	$< 9.53 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1991^{+36}_{-37} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.003^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.088}_{-0.061} \quad (-0.1\sigma)$	$H(0.61)$	$95.12^{+0.80}_{-0.75} \quad (-0.0\sigma)$
y_{cal}	$1.0004^{+0.0066}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2316^{+39}_{-40} \quad (+0.0\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1223^{+51}_{-50} \quad (-0.1\sigma)$	$H(2.33)$	$236.4^{+2.5}_{-2.4} \quad (+0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+110}_{-100} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5772^{+37}_{-39} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+40}_{-40} \quad (-1.4\sigma)$	D_{810}	$2534^{+36}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.020} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.6\sigma)$	D_{2000}	$229.3^{+5.2}_{-5.1} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.016} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.059}_{-0.057} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24531^{+0.00022}_{-0.00027} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00022}_{-0.00027} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0095} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.10} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.012} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.53}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.818^{+0.085}_{-0.087} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0090} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	z_*	$1090.17^{+0.94}_{-0.90} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0062}_{-0.0046} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.28}$	r_*	$144.55^{+0.96}_{-0.95} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3064^{+0.0069}_{-0.0051} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.884^{+0.091}_{-0.089} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.9^{+5.6}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0013^{+0.0040}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.2^{+1.8}_{-1.8} \quad (-0.0\sigma)$	r_{drag}	$147.3^{+1.0}_{-0.99} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.59 \quad (\nu: 0.4) \quad (+0.0\sigma)$
Ω_{Λ}	$0.683^{+0.024}_{-0.025} \quad (-0.0\sigma)$	k_{D}	$0.1405^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (+0.0\sigma)$
Ω_{m}	$0.317^{+0.025}_{-0.024} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00076}_{-0.00071} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 2.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1429^{+0.0038}_{-0.0037} \quad (+0.0\sigma)$	z_{eq}	$3400^{+91}_{-89} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.5 \quad (\nu: 14.7)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	k_{eq}	$0.01038^{+0.00028}_{-0.00027} \quad (+0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.0) \quad (+0.1\sigma)$
σ_8	$0.811^{+0.016}_{-0.015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.017}_{-0.016} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.1 \quad (\nu: 15.5) \quad (+1136.2\sigma)$
S_8	$0.834^{+0.042}_{-0.040} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0088}_{-0.0085} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7500.82; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.79; R - 1 = 0.01490$$

12.28 base_nrun_CamSpecHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02225^{+0.00054}_{-0.00055} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (+0.0\sigma)$	$H(0.38)$	$82.98^{+0.87}_{-0.84} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0028}_{-0.0028} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+22}_{-22} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.2}_{-2.1} \quad (-0.0\sigma)$	$H(0.51)$	$89.68^{+0.72}_{-0.71} \quad (+0.0\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.059}_{-0.059} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+26}_{-26} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.043}_{-0.032} \quad (-0.1\sigma)$	z_{re}	$< 9.66 \quad (+0.0\sigma)$	$H(0.61)$	$95.29^{+0.63}_{-0.61} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.012}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.092}_{-0.066} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2306^{+28}_{-29} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.002^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.029}_{-0.029} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.8}_{-1.8} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0067}_{-0.0064} \quad (-0.0\sigma)$	D_{40}	$1220^{+51}_{-51} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+32}_{-33} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.015} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{PS}	$100^{+40}_{-30} \quad (-1.4\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.7^{+5.0}_{-4.9} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.57 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.974^{+0.062}_{-0.059} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.011} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.24534^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.0099} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.098} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0094} \quad (-0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.802^{+0.075}_{-0.076} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0062}_{-0.0047} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.51}_{-0.53}$	z_*	$1090.00^{+0.78}_{-0.74} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0067}_{-0.0050} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	r_*	$144.76^{+0.75}_{-0.77} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-9} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.28}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.7^{+5.6}_{-6.1} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.44}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.902^{+0.075}_{-0.074} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.6^{+1.2}_{-1.3} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.43 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0039}_{-0.0038} \quad (+4.8\sigma)$	r_{drag}	$147.47^{+0.86}_{-0.86} \quad (-0.0\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 2.0) \quad (+0.0\sigma)$
H_0	$67.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	χ_{lowl}^2	$22.8 \quad (\nu: 1.8) \quad (-0.0\sigma)$
Ω_{Λ}	$0.689^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16098^{+0.00075}_{-0.00070} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.8 \quad (\nu: 14.4)$
Ω_{m}	$0.311^{+0.017}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3378^{+67}_{-65} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0027} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00020} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.31 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.1) \quad (+0.0\sigma)$
σ_8	$0.809^{+0.016}_{-0.014} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0062}_{-0.0063} \quad (-0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
S_8	$0.824^{+0.031}_{-0.030} \quad (+0.0\sigma)$	$H(0.15)$	$72.9^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.3 \quad (\nu: 15.1) \quad (+1141.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.016} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+11}_{-11} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (+0.0\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7507.10$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.93$; $R - 1 = 0.02288$

12.29 base_nrun_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022296	$0.02229^{+0.00041}_{-0.00041}$ (-0.6σ)	σ_8	0.8086	$0.808^{+0.020}_{-0.020}$ (-0.6σ)	$100\theta_{\mathrm{eq}}$	0.8148	$0.815^{+0.015}_{-0.016}$ $(+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11967	$0.1196^{+0.0037}_{-0.0035}$ (-0.5σ)	S_8	0.8272	$0.826^{+0.044}_{-0.041}$ (-0.6σ)	$100\theta_{\mathrm{s,eq}}$	0.4502	$0.4503^{+0.0077}_{-0.0080}$ $(+0.6\sigma)$
$100\theta_{\mathrm{MC}}$	1.04087	$1.04087^{+0.00081}_{-0.00082}$ (-0.1σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4531	$0.453^{+0.024}_{-0.023}$ (-0.6σ)	$H(0.15)$	72.70	$72.7^{+1.3}_{-1.3}$ $(+0.2\sigma)$
τ	0.0532	$0.053^{+0.022}_{-0.023}$ (-0.4σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6053	$0.605^{+0.022}_{-0.022}$ (-0.6σ)	$D_{\mathrm{M}}(0.15)$	643.1	643^{+14}_{-13} (-0.3σ)
$\ln(10^{10} A_{\mathrm{s}})$	3.0394	$3.039^{+0.046}_{-0.045}$ (-0.6σ)	$\sigma_8/h^{0.5}$	0.9849	$0.984^{+0.031}_{-0.031}$ (-0.6σ)	$H(0.38)$	82.86	$82.86^{+0.98}_{-0.97}$ $(+0.1\sigma)$
n_{s}	0.9660	$0.966^{+0.012}_{-0.013}$ $(+0.5\sigma)$	$r_{\mathrm{drag}} h$	99.25	$99.3^{+2.7}_{-2.8}$ $(+0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	1533.1	1533^{+27}_{-26} (-0.2σ)
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	-0.0007	$-0.001^{+0.018}_{-0.017}$ $(+0.7\sigma)$	$\langle d^2 \rangle^{1/2}$	2.433	$2.432^{+0.074}_{-0.076}$ (-0.4σ)	$H(0.51)$	89.60	$89.60^{+0.78}_{-0.74}$ $(+0.0\sigma)$
y_{cal}	1.0003	$1.0004^{+0.0064}_{-0.0065}$ (-0.1σ)	z_{re}	7.57	$7.5^{+2.2}_{-2.5}$ (-0.4σ)	$D_{\mathrm{M}}(0.51)$	1985.6	1985^{+32}_{-31} (-0.2σ)
A_{100}^{PS}	237	241^{+60}_{-70} (-0.8σ)	$10^9 A_{\mathrm{s}}$	2.089	$2.088^{+0.098}_{-0.093}$ (-0.6σ)	$H(0.61)$	95.24	$95.24^{+0.63}_{-0.60}$ (-0.1σ)
A_{143}^{PS}	42.4	40^{+20}_{-20} (-1.0σ)	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8786	$1.879^{+0.033}_{-0.032}$ (-0.7σ)	$D_{\mathrm{M}}(0.61)$	2310.2	2310^{+34}_{-33} (-0.2σ)
A_{217}^{PS}	102.5	102^{+30}_{-40} (-1.3σ)	D_{40}	1223.7	1224^{+48}_{-44} $(+0.1\sigma)$	$H(2.33)$	236.26	$236.2^{+2.2}_{-2.1}$ (-0.7σ)
A_{217}^{CIB}	42.9	40^{+20}_{-20} (-1.1σ)	D_{220}	5715	5716^{+100}_{-99} (-0.4σ)	$D_{\mathrm{M}}(2.33)$	5766.6	5767^{+28}_{-29} $(+0.3\sigma)$
A_{143}^{tSZ}	5.59	< 8.84 (-0.7σ)	D_{810}	2534.9	2535^{+35}_{-36} (-0.5σ)	$f\sigma_8(0.15)$	0.4574	$0.457^{+0.022}_{-0.021}$ (-0.6σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.627	$0.65^{+0.31}_{-0.33}$	D_{1420}	815.6	815^{+13}_{-13} (-0.2σ)	$\sigma_8(0.15)$	0.7469	$0.746^{+0.018}_{-0.018}$ (-0.6σ)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.78	—	D_{2000}	230.18	$230.0^{+4.7}_{-4.8}$ (-0.1σ)	$f\sigma_8(0.38)$	0.4752	$0.475^{+0.018}_{-0.018}$ (-0.6σ)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.33	—	$n_{\mathrm{s},0.002}$	0.968	$0.969^{+0.051}_{-0.053}$ (-0.6σ)	$\sigma_8(0.38)$	0.6618	$0.661^{+0.015}_{-0.015}$ (-0.6σ)
A^{kSZ}	1.5	—	Y_{P}	0.245366	$0.24536^{+0.00016}_{-0.00018}$ (-0.6σ)	$f\sigma_8(0.51)$	0.4735	$0.473^{+0.016}_{-0.016}$ (-0.6σ)
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.49}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246692	$0.24669^{+0.00016}_{-0.00018}$ (-0.6σ)	$\sigma_8(0.51)$	0.6192	$0.619^{+0.014}_{-0.014}$ (-0.5σ)
A_{143}^{dust}	0.978	$0.97^{+0.46}_{-0.46}$	$10^5 \mathrm{D}/\mathrm{H}$	2.599	$2.601^{+0.078}_{-0.075}$ $(+0.6\sigma)$	$f\sigma_8(0.61)$	0.4683	$0.468^{+0.014}_{-0.015}$ (-0.6σ)
A_{217}^{dust}	0.971	$0.97^{+0.27}_{-0.27}$	Age/Gyr	13.805	$13.805^{+0.062}_{-0.063}$ $(+0.3\sigma)$	$\sigma_8(0.61)$	0.5891	$0.589^{+0.013}_{-0.013}$ (-0.5σ)
$A_{143 \times 217}^{\mathrm{dust}}$	0.992	$1.03^{+0.42}_{-0.41}$	z_*	1089.99	$1089.99^{+0.74}_{-0.71}$ $(+0.2\sigma)$	$f\sigma_8(2.33)$	0.2970	$0.2968^{+0.0068}_{-0.0066}$ (-0.5σ)
c_{100}	0.99763	$0.9975^{+0.0028}_{-0.0027}$ (-3.5σ)	r_*	144.57	$144.59^{+0.81}_{-0.84}$ $(+0.8\sigma)$	$\sigma_8(2.33)$	0.3060	$0.3059^{+0.0071}_{-0.0070}$ (-0.4σ)
c_{217}	1.00129	$1.0011^{+0.0040}_{-0.0040}$ $(+4.7\sigma)$	$100\theta_*$	1.04107	$1.04106^{+0.00079}_{-0.00081}$ (-0.1σ)	f_{2000}^{143}	30.2	30^{+8}_{-8} (-0.2σ)
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.887	$13.889^{+0.076}_{-0.079}$ $(+0.9\sigma)$	f_{2000}^{217}	106.9	$107.1^{+5.7}_{-5.5}$ (-0.4σ)
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	z_{drag}	1059.74	$1059.73^{+0.89}_{-0.86}$ (-0.9σ)	$f_{2000}^{143 \times 217}$	32.2	32^{+6}_{-6} (-0.3σ)
H_0	67.40	$67.4^{+1.6}_{-1.6}$ $(+0.3\sigma)$	r_{drag}	147.26	$147.28^{+0.84}_{-0.86}$ $(+1.0\sigma)$	χ_{small}^2	395.88	$396.9 (\nu: 1.5)$ (-0.2σ)
Ω_{Λ}	0.6860	$0.686^{+0.021}_{-0.023}$ $(+0.4\sigma)$	k_{D}	0.14063	$0.1406^{+0.0010}_{-0.00094}$ (-1.1σ)	χ_{lowl}^2	22.85	$23.1 (\nu: 1.7)$ $(+0.3\sigma)$
Ω_{m}	0.3140	$0.314^{+0.023}_{-0.021}$ (-0.4σ)	$100\theta_{\mathrm{D}}$	0.16086	$0.16087^{+0.00052}_{-0.00050}$ $(+0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.9	$11515.5 (\nu: 17.5)$
$\Omega_{\mathrm{m}} h^2$	0.14261	$0.1426^{+0.0035}_{-0.0033}$ (-0.6σ)	z_{eq}	3392	3391^{+84}_{-79} (-0.6σ)	χ_{prior}^2	2.2	$7.8 (\nu: 6.0)$ (-0.8σ)
$\Omega_{\mathrm{m}} h^3$	0.09611	$0.09609^{+0.00088}_{-0.00083}$ (-1.0σ)	k_{eq}	0.010354	$0.01035^{+0.00026}_{-0.00024}$ (-0.6σ)	χ_{CMB}^2	11918.6	$11935.6 (\nu: 17.6)$ $(+1548.0\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 11920.76$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.36$; $\bar{\chi}_{\mathrm{eff}}^2 = 11943.38$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.16$; $R - 1 = 0.00835$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ -0.19) commander_dx12.v3.2.29: 22.85 (Δ 0.60) CamSpec like_10.7HM_1400_unified: 11499.86

12.30 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.04^{+0.76}_{-0.72} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.018}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00077}_{-0.00079} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.027} \quad (-0.5\sigma)$	$H(0.51)$	$89.74^{+0.62}_{-0.58} \quad (-0.2\sigma)$
τ	$0.054^{+0.022}_{-0.022} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+23}_{-24} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.046}_{-0.044} \quad (-0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.066}_{-0.069} \quad (-0.3\sigma)$	$H(0.61)$	$95.34^{+0.52}_{-0.49} \quad (-0.3\sigma)$
n_{s}	$0.967^{+0.011}_{-0.010} \quad (+0.4\sigma)$	z_{re}	$7.6^{+2.1}_{-2.4} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+25}_{-26} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$0.000^{+0.017}_{-0.017} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.088^{+0.097}_{-0.091} \quad (-0.6\sigma)$	$H(2.33)$	$235.8^{+1.7}_{-1.6} \quad (-0.7\sigma)$
y_{cal}	$1.0005^{+0.0061}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.030}_{-0.029} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+24}_{-25} \quad (+0.5\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1222^{+46}_{-43} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5720^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2534^{+35}_{-36} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.7\sigma)$	D_{2000}	$230.3^{+4.5}_{-4.5} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.014} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.969^{+0.052}_{-0.054} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.014}_{-0.014} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.013} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.593^{+0.072}_{-0.071} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	$0.2968^{+0.0067}_{-0.0065} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.054}_{-0.055} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3061^{+0.0069}_{-0.0067} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.88^{+0.61}_{-0.59} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.73^{+0.64}_{-0.66} \quad (+0.9\sigma)$	f_{2000}^{217}	$106.9^{+5.4}_{-5.5} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.04114^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.062}_{-0.063} \quad (+0.9\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.77^{+0.88}_{-0.83} \quad (-1.0\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 1.6) \quad (+0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.41^{+0.70}_{-0.70} \quad (+1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.4 \quad (\nu: 17.7)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14050^{+0.00088}_{-0.00087} \quad (-1.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.045 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.2}_{-1.1} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00052}_{-0.00050} \quad (+0.9\sigma)$	χ_{MGS}^2	$1.36 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016} \quad (+0.3\sigma)$	z_{eq}	$3376^{+61}_{-59} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.3\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.015} \quad (-0.3\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00018} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0026}_{-0.0025} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.011} \quad (+0.5\sigma)$	χ_{BAO}^2	$5.97 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09609^{+0.00088}_{-0.00082} \quad (-1.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0059}_{-0.0058} \quad (+0.5\sigma)$	χ_{CMB}^2	$11935.4 \quad (\nu: 17.7) \quad (+1581.5\sigma)$
σ_8	$0.806^{+0.020}_{-0.019} \quad (-0.5\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-0.98} \quad (+0.1\sigma)$		
S_8	$0.819^{+0.032}_{-0.033} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.4^{+9.8}_{-10} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.15; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.67; R - 1 = 0.01377$$

12.31 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00041}_{-0.00040} \quad (-0.7\sigma)$	S_8	$0.828^{+0.033}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.2}_{-1.2} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1197^{+0.0032}_{-0.0031} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+12}_{-12} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04086^{+0.00082}_{-0.00080} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.017} \quad (-0.4\sigma)$	$H(0.38)$	$82.85^{+0.92}_{-0.86} \quad (-0.1\sigma)$
τ	$0.054^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1533^{+24}_{-24} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.040} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.2^{+2.5}_{-2.4} \quad (+0.2\sigma)$	$H(0.51)$	$89.59^{+0.74}_{-0.69} \quad (-0.2\sigma)$
n_{s}	$0.965^{+0.011}_{-0.012} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.060}_{-0.058} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+28}_{-28} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.001^{+0.017}_{-0.017} \quad (+0.6\sigma)$	z_{re}	$7.6^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$H(0.61)$	$95.23^{+0.60}_{-0.56} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.088}_{-0.082} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+30}_{-31} \quad (+0.0\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.030}_{-0.029} \quad (-0.6\sigma)$	$H(2.33)$	$236.3^{+2.0}_{-1.8} \quad (-0.5\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1226^{+47}_{-44} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+27}_{-28} \quad (+0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5719^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.016} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.7\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.013} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	D_{2000}	$230.1^{+4.6}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.053}_{-0.053} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24536^{+0.00015}_{-0.00018} \quad (-0.8\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00016}_{-0.00018} \quad (-0.8\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.011} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.601^{+0.077}_{-0.074} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.806^{+0.060}_{-0.062} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0062}_{-0.0059} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1089.99^{+0.68}_{-0.68} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3062^{+0.0067}_{-0.0065} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	r_*	$144.57^{+0.72}_{-0.75} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$100\theta_*$	$1.04105^{+0.00081}_{-0.00079} \quad (-0.2\sigma)$	f_{2000}^{217}	$107.0^{+5.5}_{-5.4} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.068}_{-0.070} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.73^{+0.89}_{-0.86} \quad (-0.9\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.33 \quad (\nu: 0.3) \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.26^{+0.74}_{-0.78} \quad (+0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	$67.4^{+1.4}_{-1.4} \quad (+0.0\sigma)$	k_{D}	$0.14062^{+0.00093}_{-0.00089} \quad (-1.0\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 1.8) \quad (+0.4\sigma)$
Ω_{Λ}	$0.686^{+0.019}_{-0.020} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00052}_{-0.00051} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.9 \quad (\nu: 17.0)$
Ω_{m}	$0.314^{+0.020}_{-0.019} \quad (-0.2\sigma)$	z_{eq}	$3393^{+74}_{-69} \quad (-0.4\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0031}_{-0.0029} \quad (-0.4\sigma)$	k_{eq}	$0.01036^{+0.00023}_{-0.00021} \quad (-0.4\sigma)$	χ_{CMB}^2	$11944.5 \quad (\nu: 18.0) \quad (+1554.6\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00088}_{-0.00082} \quad (-1.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.013}_{-0.013} \quad (+0.3\sigma)$		
σ_8	$0.809^{+0.016}_{-0.016} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4502^{+0.0068}_{-0.0069} \quad (+0.4\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.22; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 9150.95; R - 1 = 0.01144$$

12.32 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.01^{+0.74}_{-0.68} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+18}_{-19} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00079}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.71^{+0.62}_{-0.56} \quad (-0.3\sigma)$
τ	$0.055^{+0.021}_{-0.019} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+1.9}_{-1.8} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+22}_{-23} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.041}_{-0.038} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.055}_{-0.056} \quad (-0.1\sigma)$	$H(0.61)$	$95.33^{+0.51}_{-0.47} \quad (-0.4\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.3\sigma)$	z_{re}	$7.8^{+2.0}_{-2.1} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+23}_{-25} \quad (+0.2\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$0.000^{+0.018}_{-0.017} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.087}_{-0.079} \quad (-0.4\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	$1.0006^{+0.0061}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.027} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+23}_{-24} \quad (+0.6\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1225^{+45}_{-44} \quad (+0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5724^{+100}_{-96} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	D_{2000}	$230.4^{+4.5}_{-4.5} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.053}_{-0.053} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.9\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.010} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00016} \quad (-0.9\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.594^{+0.073}_{-0.071} \quad (+0.9\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0060}_{-0.0056} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.054}_{-0.055} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0063}_{-0.0060} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.89^{+0.60}_{-0.60} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.70^{+0.60}_{-0.61} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.9^{+5.4}_{-5.4} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.04113^{+0.00077}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.059}_{-0.059} \quad (+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.32 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.78^{+0.88}_{-0.84} \quad (-1.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.38^{+0.65}_{-0.65} \quad (+0.9\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 1.8) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14053^{+0.00083}_{-0.00084} \quad (-1.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.8 \quad (\nu: 16.9)$
H_0	$67.6^{+1.1}_{-1.1} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00051}_{-0.00050} \quad (+0.9\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.689^{+0.015}_{-0.015} \quad (+0.1\sigma)$	z_{eq}	$3380^{+56}_{-55} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.311^{+0.015}_{-0.015} \quad (-0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00087}_{-0.00083} \quad (-1.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0055}_{-0.0053} \quad (+0.4\sigma)$	χ_{CMB}^2	$11944.4 \quad (\nu: 17.7) \quad (+1584.3\sigma)$
σ_8	$0.808^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.15)$	$72.92^{+0.98}_{-0.91} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.02 \quad (\nu: 0.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$641.0^{+9.2}_{-9.6} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.12; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.80; R - 1 = 0.01586$$

12.33 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02242^{+0.00041}_{-0.00041} \quad (-0.7\sigma)$	S_8	$0.810^{+0.039}_{-0.034} \quad (-0.5\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.2} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0034}_{-0.0032} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.443^{+0.021}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+12}_{-11} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04107^{+0.00074}_{-0.00079} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.021}_{-0.019} \quad (-0.5\sigma)$	$H(0.38)$	$83.31^{+0.90}_{-0.91} \quad (+0.1\sigma)$
τ	$0.055^{+0.023}_{-0.022} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.974^{+0.030}_{-0.028} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+25}_{-22} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.048}_{-0.045} \quad (-0.6\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+2.4}_{-2.6} \quad (+0.4\sigma)$	$H(0.51)$	$89.95^{+0.70}_{-0.72} \quad (-0.0\sigma)$
n_{s}	$0.970^{+0.012}_{-0.012} \quad (+0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.410^{+0.070}_{-0.064} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1971^{+29}_{-27} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$0.000^{+0.017}_{-0.018} \quad (+0.7\sigma)$	z_{re}	$7.7^{+2.2}_{-2.3} \quad (-0.3\sigma)$	$H(0.61)$	$95.51^{+0.60}_{-0.59} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.091} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	$2295^{+31}_{-29} \quad (-0.1\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.032}_{-0.031} \quad (-0.7\sigma)$	$H(2.33)$	$235.3^{+2.1}_{-2.0} \quad (-0.7\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1218^{+47}_{-48} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+27}_{-29} \quad (+0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5725^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.018} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.744^{+0.018}_{-0.017} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.7\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.468^{+0.017}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.45}$	D_{2000}	$230.6^{+4.7}_{-4.6} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.016}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.052}_{-0.052} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.463^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.57}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.578^{+0.077}_{-0.073} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.780^{+0.061}_{-0.064} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0069}_{-0.0064} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	z_*	$1089.69^{+0.69}_{-0.67} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3064^{+0.0073}_{-0.0065} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.40}_{-0.41}$	r_*	$144.90^{+0.80}_{-0.80} \quad (+0.8\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04125^{+0.00075}_{-0.00077} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.6^{+5.4}_{-5.2} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0041} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.076}_{-0.075} \quad (+0.9\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.90^{+0.91}_{-0.85} \quad (-0.9\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 2.0) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.55^{+0.82}_{-0.82} \quad (+1.0\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 1.5) \quad (+0.4\sigma)$
H_0	$68.1^{+1.3}_{-1.5} \quad (+0.2\sigma)$	k_{D}	$0.14042^{+0.00093}_{-0.00090} \quad (-1.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11517.0 \quad (\nu: 20.4)$
Ω_{Λ}	$0.696^{+0.018}_{-0.020} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.16078^{+0.00050}_{-0.00052} \quad (+0.9\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.4 \quad (\nu: 2.4) \quad (-0.2\sigma)$
Ω_{m}	$0.304^{+0.020}_{-0.018} \quad (-0.3\sigma)$	z_{eq}	$3357^{+77}_{-72} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0032}_{-0.0030} \quad (-0.6\sigma)$	k_{eq}	$0.01025^{+0.00024}_{-0.00022} \quad (-0.6\sigma)$	χ_{CMB}^2	$11936.8 \quad (\nu: 19.8) \quad (+1431.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09614^{+0.00085}_{-0.00082} \quad (-1.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.014}_{-0.014} \quad (+0.5\sigma)$		
σ_8	$0.804^{+0.021}_{-0.020} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0071}_{-0.0074} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11955.07; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 9150.43; R - 1 = 0.04651$$

12.34 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02230^{+0.00041}_{-0.00041} \quad (-0.6\sigma)$	σ_8	$0.809^{+0.019}_{-0.017} \quad (-0.6\sigma)$	$100\theta_{\text{eq}}$	$0.815^{+0.015}_{-0.016} \quad (+0.6\sigma)$
$\Omega_c h^2$	$0.1196^{+0.0037}_{-0.0035} \quad (-0.5\sigma)$	S_8	$0.827^{+0.043}_{-0.041} \quad (-0.5\sigma)$	$100\theta_{\text{s,eq}}$	$0.4504^{+0.0078}_{-0.0080} \quad (+0.6\sigma)$
$100\theta_{\text{MC}}$	$1.04088^{+0.00080}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.453^{+0.024}_{-0.022} \quad (-0.5\sigma)$	$H(0.15)$	$72.7^{+1.3}_{-1.3} \quad (+0.3\sigma)$
τ	$0.054^{+0.020}_{-0.013} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.605^{+0.022}_{-0.021} \quad (-0.6\sigma)$	$D_{\text{M}}(0.15)$	$643^{+14}_{-13} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.042^{+0.043}_{-0.031} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.030} \quad (-0.5\sigma)$	$H(0.38)$	$82.88^{+0.98}_{-0.96} \quad (+0.2\sigma)$
n_{s}	$0.966^{+0.012}_{-0.013} \quad (+0.5\sigma)$	$r_{\text{drag}} h$	$99.3^{+2.7}_{-2.8} \quad (+0.4\sigma)$	$D_{\text{M}}(0.38)$	$1533^{+27}_{-26} \quad (-0.3\sigma)$
$\text{d}n_{\text{s}}/\text{d} \ln k$	$-0.001^{+0.018}_{-0.017} \quad (+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.073}_{-0.072} \quad (-0.4\sigma)$	$H(0.51)$	$89.62^{+0.78}_{-0.75} \quad (+0.1\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0065} \quad (-0.1\sigma)$	z_{re}	$< 9.52 \quad (-0.3\sigma)$	$D_{\text{M}}(0.51)$	$1985^{+32}_{-30} \quad (-0.2\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.8\sigma)$	$10^9 A_{\text{s}}$	$2.095^{+0.093}_{-0.064} \quad (-0.6\sigma)$	$H(0.61)$	$95.25^{+0.63}_{-0.59} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.879^{+0.033}_{-0.032} \quad (-0.7\sigma)$	$D_{\text{M}}(0.61)$	$2310^{+34}_{-33} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{40}	$1223^{+48}_{-44} \quad (+0.1\sigma)$	$H(2.33)$	$236.2^{+2.2}_{-2.1} \quad (-0.7\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5716^{+100}_{-98} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5766^{+28}_{-28} \quad (+0.2\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.022}_{-0.021} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	D_{1420}	$815^{+13}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.014} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	D_{2000}	$230.0^{+4.7}_{-4.8} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.018}_{-0.017} \quad (-0.6\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s},0.002}$	$0.970^{+0.051}_{-0.052} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.011} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_{P}	$0.24537^{+0.00015}_{-0.00018} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.015}_{-0.015} \quad (-0.6\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24669^{+0.00015}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.010} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	$10^5 \text{D}/\text{H}$	$2.599^{+0.078}_{-0.074} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.014} \quad (-0.6\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	Age/Gyr	$13.804^{+0.062}_{-0.063} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0097} \quad (-0.5\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.41}$	z_*	$1089.97^{+0.72}_{-0.71} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0064}_{-0.0046} \quad (-0.4\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	r_*	$144.59^{+0.81}_{-0.83} \quad (+0.8\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0067}_{-0.0047} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	$100\theta_*$	$1.04107^{+0.00078}_{-0.00079} \quad (-0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.889^{+0.076}_{-0.078} \quad (+0.9\sigma)$	f_{2000}^{217}	$107.0^{+5.7}_{-5.5} \quad (-0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{drag}	$1059.74^{+0.88}_{-0.88} \quad (-0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.4^{+1.5}_{-1.6} \quad (+0.3\sigma)$	r_{drag}	$147.28^{+0.83}_{-0.86} \quad (+1.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (-0.2\sigma)$
Ω_{Λ}	$0.686^{+0.021}_{-0.023} \quad (+0.4\sigma)$	k_{D}	$0.1406^{+0.0010}_{-0.00094} \quad (-1.1\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 1.7) \quad (+0.3\sigma)$
Ω_{m}	$0.314^{+0.023}_{-0.021} \quad (-0.4\sigma)$	$100\theta_{\text{D}}$	$0.16086^{+0.00052}_{-0.00050} \quad (+0.8\sigma)$	χ_{CamSpec}^2	$11515.3 \quad (\nu: 17.4)$
$\Omega_{\text{m}} h^2$	$0.1425^{+0.0035}_{-0.0033} \quad (-0.6\sigma)$	z_{eq}	$3391^{+84}_{-79} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.09610^{+0.00087}_{-0.00082} \quad (-1.0\sigma)$	k_{eq}	$0.01035^{+0.00026}_{-0.00024} \quad (-0.6\sigma)$	χ_{CMB}^2	$11935.2 \quad (\nu: 17.1) \quad (+1563.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 11943.05; \Delta\bar{\chi}_{\text{eff}}^2 = 9151.03; R - 1 = 0.00888$$

12.35 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.4\sigma)$	$H(0.38)$	$83.05^{+0.77}_{-0.71} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0026}_{-0.0026} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00075}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.026}_{-0.025} \quad (-0.4\sigma)$	$H(0.51)$	$89.75^{+0.62}_{-0.58} \quad (-0.2\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+23}_{-24} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.043}_{-0.031} \quad (-0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.064}_{-0.063} \quad (-0.3\sigma)$	$H(0.61)$	$95.35^{+0.52}_{-0.48} \quad (-0.3\sigma)$
n_{s}	$0.967^{+0.011}_{-0.010} \quad (+0.4\sigma)$	z_{re}	$< 9.51 \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+25}_{-26} \quad (-0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.001^{+0.017}_{-0.017} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.094^{+0.092}_{-0.065} \quad (-0.5\sigma)$	$H(2.33)$	$235.8^{+1.7}_{-1.6} \quad (-0.7\sigma)$
y_{cal}	$1.0004^{+0.0061}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.030}_{-0.029} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+24}_{-25} \quad (+0.5\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1221^{+45}_{-43} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.016}_{-0.017} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5719^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.017}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.5\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.014}_{-0.014} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.011} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.7\sigma)$	D_{2000}	$230.3^{+4.5}_{-4.5} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.013}_{-0.013} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.970^{+0.052}_{-0.053} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.010} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.012}_{-0.011} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.0095} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.073}_{-0.071} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0064}_{-0.0046} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.49}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.795^{+0.054}_{-0.055} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0066}_{-0.0047} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	z_*	$1089.87^{+0.61}_{-0.59} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.73^{+0.64}_{-0.66} \quad (+0.9\sigma)$	f_{2000}^{217}	$106.9^{+5.4}_{-5.5} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.40}_{-0.41}$	$100\theta_*$	$1.04114^{+0.00075}_{-0.00076} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.060}_{-0.063} \quad (+0.9\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.78^{+0.87}_{-0.84} \quad (-1.0\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 1.6) \quad (+0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.41^{+0.69}_{-0.71} \quad (+1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.3 \quad (\nu: 17.7)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14050^{+0.00087}_{-0.00087} \quad (-1.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.2}_{-1.1} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00051}_{-0.00050} \quad (+0.9\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016} \quad (+0.3\sigma)$	z_{eq}	$3376^{+61}_{-59} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.8) \quad (-0.3\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.015} \quad (-0.3\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00018} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0026}_{-0.0025} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.011} \quad (+0.5\sigma)$	χ_{BAO}^2	$5.96 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00088}_{-0.00082} \quad (-1.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0059}_{-0.0058} \quad (+0.5\sigma)$	χ_{CMB}^2	$11935.1 \quad (\nu: 17.2) \quad (+1592.7\sigma)$
σ_8	$0.807^{+0.019}_{-0.015} \quad (-0.5\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-0.97} \quad (+0.1\sigma)$		
S_8	$0.820^{+0.032}_{-0.032} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.4^{+9.7}_{-10} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.86; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.54; R - 1 = 0.01438$$

12.36 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00041}_{-0.00040} \quad (-0.7\sigma)$	S_8	$0.828^{+0.033}_{-0.032} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.2}_{-1.2} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0031}_{-0.0030} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+12}_{-12} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04087^{+0.00081}_{-0.00079} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.38)$	$82.87^{+0.91}_{-0.85} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1533^{+24}_{-24} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.040}_{-0.028} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.3^{+2.4}_{-2.3} \quad (+0.2\sigma)$	$H(0.51)$	$89.61^{+0.74}_{-0.66} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.011}_{-0.012} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.059}_{-0.057} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1985^{+28}_{-28} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.001^{+0.017}_{-0.017} \quad (+0.6\sigma)$	z_{re}	$< 9.44 \quad (-0.2\sigma)$	$H(0.61)$	$95.24^{+0.60}_{-0.55} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0061}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.084}_{-0.057} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2310^{+30}_{-31} \quad (+0.0\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.029}_{-0.028} \quad (-0.6\sigma)$	$H(2.33)$	$236.2^{+1.9}_{-1.8} \quad (-0.5\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1226^{+47}_{-44} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5766^{+26}_{-27} \quad (+0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5719^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.016} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.7\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{2000}	$230.1^{+4.6}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.0099} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.968^{+0.052}_{-0.053} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24536^{+0.00015}_{-0.00018} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0091} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00018} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.011} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.600^{+0.077}_{-0.073} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0086} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.805^{+0.057}_{-0.061} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0059}_{-0.0044} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1089.98^{+0.68}_{-0.67} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0064}_{-0.0047} \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	r_*	$144.59^{+0.71}_{-0.74} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$100\theta_*$	$1.04106^{+0.00079}_{-0.00078} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.0^{+5.5}_{-5.5} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.068}_{-0.068} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.74^{+0.88}_{-0.87} \quad (-0.9\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.28 \quad (\nu: 0.2) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.27^{+0.74}_{-0.75} \quad (+0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	$67.4^{+1.4}_{-1.4} \quad (+0.1\sigma)$	k_{D}	$0.14062^{+0.00090}_{-0.00089} \quad (-1.0\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 1.8) \quad (+0.4\sigma)$
Ω_{Λ}	$0.686^{+0.018}_{-0.019} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00053}_{-0.00050} \quad (+0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 16.9)$
Ω_{m}	$0.314^{+0.019}_{-0.018} \quad (-0.2\sigma)$	z_{eq}	$3391^{+70}_{-69} \quad (-0.4\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0029}_{-0.0029} \quad (-0.4\sigma)$	k_{eq}	$0.01035^{+0.00021}_{-0.00021} \quad (-0.4\sigma)$	χ_{CMB}^2	$11944.2 \quad (\nu: 17.4) \quad (+1564.5\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00088}_{-0.00082} \quad (-0.9\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.013}_{-0.013} \quad (+0.4\sigma)$		
σ_8	$0.810^{+0.015}_{-0.014} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0067}_{-0.0067} \quad (+0.4\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11951.93; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.82; R - 1 = 0.01119$$

12.37 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.014}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.02^{+0.73}_{-0.67} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.014}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+18}_{-19} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00078}_{-0.00076} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.72^{+0.61}_{-0.55} \quad (-0.3\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+1.9}_{-1.8} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+21}_{-23} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.040}_{-0.029} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.054}_{-0.053} \quad (-0.1\sigma)$	$H(0.61)$	$95.33^{+0.50}_{-0.47} \quad (-0.4\sigma)$
n_{s}	$0.967^{+0.010}_{-0.0099} \quad (+0.3\sigma)$	z_{re}	$< 9.51 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+23}_{-25} \quad (+0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$0.000^{+0.017}_{-0.017} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.085}_{-0.061} \quad (-0.4\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	$1.0006^{+0.0060}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+23}_{-24} \quad (+0.6\sigma)$
A_{100}^{PS}	$240^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1225^{+45}_{-43} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{220}	$5723^{+100}_{-95} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2535^{+34}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.2\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.86 \quad (-0.7\sigma)$	D_{2000}	$230.4^{+4.5}_{-4.5} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.053}_{-0.053} \quad (-0.6\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0094} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.9\sigma)$	$f\sigma_8(0.61)$	$0.4676^{+0.0099}_{-0.0096} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.9\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0089} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.593^{+0.073}_{-0.070} \quad (+0.8\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0059}_{-0.0045} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.53}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.053}_{-0.054} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0062}_{-0.0047} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	z_*	$1089.89^{+0.59}_{-0.59} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.70^{+0.60}_{-0.60} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.9^{+5.4}_{-5.4} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.04113^{+0.00077}_{-0.00075} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.058}_{-0.058} \quad (+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.27 \quad (\nu: 0.2) \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	$1059.78^{+0.88}_{-0.84} \quad (-1.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.38^{+0.64}_{-0.65} \quad (+0.9\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 1.8) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14053^{+0.00083}_{-0.00084} \quad (-1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 16.8)$
H_0	$67.7^{+1.1}_{-1.1} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00051}_{-0.00050} \quad (+0.9\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.046 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.015} \quad (+0.1\sigma)$	z_{eq}	$3379^{+55}_{-55} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.30 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.310^{+0.015}_{-0.015} \quad (-0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.7) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0023}_{-0.0023} \quad (-0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.8) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09611^{+0.00087}_{-0.00083} \quad (-1.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0054}_{-0.0052} \quad (+0.4\sigma)$	χ_{CMB}^2	$11944.2 \quad (\nu: 17.3) \quad (+1594.3\sigma)$
σ_8	$0.809^{+0.015}_{-0.013} \quad (-0.3\sigma)$	$H(0.15)$	$72.93^{+0.98}_{-0.91} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.00 \quad (\nu: 0.4) \quad (-0.1\sigma)$
S_8	$0.823^{+0.026}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.9^{+9.1}_{-9.6} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.93; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.73; R - 1 = 0.01735$$

12.38 base_nrun_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02242^{+0.00040}_{-0.00041} \quad (-0.7\sigma)$	S_8	$0.810^{+0.039}_{-0.035} \quad (-0.5\sigma)$	$H(0.15)$	$73.3^{+1.1}_{-1.2} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0034}_{-0.0031} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.021}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+12}_{-11} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04107^{+0.00074}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.598^{+0.020}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.32^{+0.89}_{-0.90} \quad (+0.1\sigma)$
τ	$0.056^{+0.021}_{-0.015} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.975^{+0.029}_{-0.026} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+25}_{-22} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.046}_{-0.032} \quad (-0.5\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+2.4}_{-2.6} \quad (+0.4\sigma)$	$H(0.51)$	$89.96^{+0.70}_{-0.71} \quad (-0.0\sigma)$
n_{s}	$0.970^{+0.012}_{-0.012} \quad (+0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.412^{+0.069}_{-0.062} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1971^{+29}_{-26} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.001^{+0.017}_{-0.018} \quad (+0.7\sigma)$	z_{re}	$< 9.71 \quad (-0.3\sigma)$	$H(0.61)$	$95.52^{+0.60}_{-0.59} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.098}_{-0.066} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2294^{+31}_{-29} \quad (-0.1\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.872^{+0.031}_{-0.031} \quad (-0.7\sigma)$	$H(2.33)$	$235.3^{+2.1}_{-2.0} \quad (-0.7\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-1.0\sigma)$	D_{40}	$1217^{+46}_{-48} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+27}_{-28} \quad (+0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5725^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.449^{+0.020}_{-0.018} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.2\sigma)$	D_{810}	$2534^{+34}_{-35} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.018}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.7\sigma)$	D_{1420}	$817^{+12}_{-12} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.017}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.45}$	D_{2000}	$230.7^{+4.7}_{-4.6} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.011} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.052}_{-0.052} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.010} \quad (-0.4\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.014}_{-0.012} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.57}_{-0.50}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.577^{+0.077}_{-0.072} \quad (+0.7\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.0097} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.779^{+0.061}_{-0.063} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0067}_{-0.0049} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	z_*	$1089.69^{+0.69}_{-0.66} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3068^{+0.0071}_{-0.0048} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.40}_{-0.41}$	r_*	$144.90^{+0.80}_{-0.79} \quad (+0.8\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (-0.3\sigma)$
c_{100}	$0.9976^{+0.0029}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04125^{+0.00075}_{-0.00076} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.6^{+5.4}_{-5.3} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0041} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.916^{+0.076}_{-0.075} \quad (+0.9\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{drag}	$1059.91^{+0.93}_{-0.86} \quad (-0.9\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 2.1) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	r_{drag}	$147.55^{+0.82}_{-0.82} \quad (+0.9\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 1.5) \quad (+0.4\sigma)$
H_0	$68.1^{+1.3}_{-1.5} \quad (+0.2\sigma)$	k_{D}	$0.14042^{+0.00093}_{-0.00090} \quad (-1.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11516.9 \quad (\nu: 20.7)$
Ω_{Λ}	$0.696^{+0.018}_{-0.020} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.16077^{+0.00050}_{-0.00052} \quad (+0.9\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$10.4 \quad (\nu: 2.4) \quad (-0.2\sigma)$
Ω_{m}	$0.304^{+0.020}_{-0.018} \quad (-0.3\sigma)$	z_{eq}	$3357^{+77}_{-71} \quad (-0.6\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1411^{+0.0032}_{-0.0030} \quad (-0.6\sigma)$	k_{eq}	$0.01025^{+0.00023}_{-0.00022} \quad (-0.6\sigma)$	χ_{CMB}^2	$11936.7 \quad (\nu: 19.8) \quad (+1429.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09615^{+0.00082}_{-0.00083} \quad (-1.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.014}_{-0.014} \quad (+0.5\sigma)$		
σ_8	$0.805^{+0.020}_{-0.016} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4538^{+0.0070}_{-0.0074} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11954.85; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 9150.33; R - 1 = 0.05101$$

12.39 base_nrun_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02250	$0.02253^{+0.00068}_{-0.00066}$	$r_{\text{drag}} h$	101.34	$101.5^{+4.6}_{-4.3}$	$100\theta_{\text{s,eq}}$	0.4557	$0.456^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1172	$0.1170^{+0.0057}_{-0.0056}$	$\langle d^2 \rangle^{1/2}$	2.397	$2.39^{+0.12}_{-0.13}$	$H(0.15)$	73.76	$73.8^{+2.3}_{-2.1}$
$100\theta_{\text{MC}}$	1.04145	$1.0414^{+0.0013}_{-0.0013}$	z_{re}	7.07	$6.9^{+2.2}_{-3.0}$	$D_{\text{M}}(0.15)$	632.7	632^{+21}_{-21}
τ	0.0491	$0.047^{+0.022}_{-0.026}$	$10^9 A_{\text{s}}$	2.035	$2.03^{+0.12}_{-0.12}$	$H(0.38)$	83.64	$83.7^{+1.7}_{-1.6}$
$\ln(10^{10} A_{\text{s}})$	3.013	$3.009^{+0.057}_{-0.060}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.844	$1.843^{+0.055}_{-0.053}$	$D_{\text{M}}(0.38)$	1512.2	1511^{+42}_{-43}
n_{s}	0.9733	$0.975^{+0.042}_{-0.041}$	D_{40}	1236	1240^{+130}_{-120}	$H(0.51)$	90.22	$90.3^{+1.3}_{-1.2}$
$\text{d}n_{\text{s}}/\text{d} \ln k$	0.015	$0.017^{+0.064}_{-0.064}$	D_{220}	5690	5691^{+150}_{-150}	$D_{\text{M}}(0.51)$	1961	1959^{+50}_{-51}
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.096}$	D_{810}	2506	2507^{+65}_{-64}	$H(0.61)$	95.74	$95.8^{+1.1}_{-0.99}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.136^{+0.077}_{-0.075}$	D_{1420}	812.7	815^{+42}_{-42}	$D_{\text{M}}(0.61)$	2284	2282^{+53}_{-55}
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	D_{2000}	230.7	232^{+19}_{-18}	$H(2.33)$	234.92	$234.8^{+3.4}_{-3.4}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	$n_{\text{s},0.002}$	0.927	$0.92^{+0.18}_{-0.18}$	$D_{\text{M}}(2.33)$	5744.5	5743^{+45}_{-47}
$A_{143 \times 217}^{\text{dustTE}}$	0.657	$0.66^{+0.21}_{-0.21}$	Y_{P}	0.245446	$0.24545^{+0.00030}_{-0.00028}$	$f\sigma_8(0.15)$	0.4394	$0.438^{+0.032}_{-0.033}$
A_{217}^{dustTE}	2.04	$2.04^{+0.69}_{-0.69}$	$Y_{\text{P}}^{\text{BBN}}$	0.246773	$0.24678^{+0.00030}_{-0.00028}$	$\sigma_8(0.15)$	0.7356	$0.735^{+0.025}_{-0.027}$
c_{100}	1.00016	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \text{D}/\text{H}$	2.561	$2.56^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	0.4603	$0.459^{+0.026}_{-0.027}$
c_{217}	0.99800	$0.9980^{+0.0017}_{-0.0017}$	Age/Gyr	13.756	$13.75^{+0.10}_{-0.10}$	$\sigma_8(0.38)$	0.6535	$0.653^{+0.021}_{-0.023}$
y_{cal}	0.9999	$1.0000^{+0.0064}_{-0.0065}$	z_*	1089.51	$1089.5^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	0.4605	$0.459^{+0.023}_{-0.024}$
H_0	68.62	$68.7^{+2.6}_{-2.5}$	r_*	145.05	$145.1^{+1.4}_{-1.3}$	$\sigma_8(0.51)$	0.6122	$0.611^{+0.020}_{-0.021}$
Ω_{Λ}	0.7019	$0.703^{+0.032}_{-0.034}$	$100\theta_*$	1.04161	$1.0416^{+0.0013}_{-0.0013}$	$f\sigma_8(0.61)$	0.4567	$0.456^{+0.021}_{-0.022}$
Ω_{m}	0.2981	$0.297^{+0.034}_{-0.032}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.925	$13.93^{+0.13}_{-0.12}$	$\sigma_8(0.61)$	0.5829	$0.582^{+0.019}_{-0.020}$
$\Omega_{\text{m}} h^2$	0.1404	$0.1402^{+0.0054}_{-0.0053}$	z_{drag}	1060.05	$1060.1^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	0.2944	$0.2942^{+0.0092}_{-0.010}$
$\Omega_{\text{m}} h^3$	0.09633	$0.0963^{+0.0014}_{-0.0013}$	r_{drag}	147.68	$147.7^{+1.4}_{-1.3}$	$\sigma_8(2.33)$	0.3041	$0.3039^{+0.0097}_{-0.011}$
σ_8	0.7946	$0.793^{+0.028}_{-0.030}$	k_{D}	0.14035	$0.1403^{+0.0015}_{-0.0016}$	χ_{simall}^2	395.53	$396.7 (\nu: 1.2)$
S_8	0.792	$0.790^{+0.063}_{-0.062}$	$100\theta_{\text{D}}$	0.16074	$0.16072^{+0.00084}_{-0.00081}$	χ_{plikTE}^2	852.5	$860.4 (\nu: 8.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4339	$0.432^{+0.035}_{-0.034}$	z_{eq}	3339	3335^{+130}_{-130}	χ_{prior}^2	0.4	$7.4 (\nu: 6.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5872	$0.586^{+0.032}_{-0.033}$	k_{eq}	0.010192	$0.01018^{+0.00039}_{-0.00039}$	χ_{CMB}^2	1248.0	$1257.2 (\nu: 9.2)$
$\sigma_8/h^{0.5}$	0.9592	$0.957^{+0.044}_{-0.046}$	$100\theta_{\text{eq}}$	0.8255	$0.826^{+0.025}_{-0.024}$			

Best-fit $\chi_{\text{eff}}^2 = 1248.43$; $\bar{\chi}_{\text{eff}}^2 = 1264.57$; $R - 1 = 0.00548$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.53 plik_rd12_HM_v22_TE: 852.47

12.40 base_nrun_plikHM_TE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02248	$0.02246^{+0.00062}_{-0.00061}$	$\langle d^2 \rangle^{1/2}$	2.410	$2.41^{+0.11}_{-0.11}$	$D_M(0.15)$	635.2	636^{+12}_{-12}
$\Omega_c h^2$	0.11793	$0.1180^{+0.0032}_{-0.0033}$	z_{re}	6.83	$6.9^{+2.2}_{-2.8}$	$H(0.38)$	83.46	$83.44^{+0.98}_{-0.93}$
$100\theta_{\text{MC}}$	1.04135	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s$	2.029	$2.03^{+0.12}_{-0.12}$	$D_M(0.38)$	1517.2	1518^{+24}_{-25}
τ	0.0466	$0.047^{+0.022}_{-0.025}$	$10^9 A_s e^{-2\tau}$	1.8482	$1.849^{+0.049}_{-0.049}$	$H(0.51)$	90.08	$90.06^{+0.83}_{-0.78}$
$\ln(10^{10} A_s)$	3.010	$3.012^{+0.056}_{-0.060}$	D_{40}	1247	1239^{+130}_{-120}	$D_M(0.51)$	1966.9	1968^{+29}_{-30}
n_s	0.9727	$0.971^{+0.035}_{-0.037}$	D_{220}	5695	5690^{+150}_{-150}	$H(0.61)$	95.63	$95.62^{+0.71}_{-0.67}$
$dn_s/d \ln k$	0.018	$0.013^{+0.060}_{-0.060}$	D_{810}	2509	2507^{+64}_{-64}	$D_M(0.61)$	2289.9	2291^{+31}_{-32}
y_{cal}	1.0001	$0.99999^{+0.0064}_{-0.0067}$	D_{1420}	814.5	812^{+40}_{-41}	$H(2.33)$	235.35	$235.3^{+2.1}_{-2.1}$
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.091}$	D_{2000}	231.5	230^{+18}_{-18}	$D_M(2.33)$	5748.6	5750^{+34}_{-35}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.137^{+0.078}_{-0.079}$	$n_{s,0.002}$	0.916	$0.93^{+0.17}_{-0.17}$	$f\sigma_8(0.15)$	0.4430	$0.443^{+0.021}_{-0.022}$
$A_{100 \times 217}^{\text{dustTE}}$	0.478	$0.48^{+0.23}_{-0.21}$	Y_P	0.245436	$0.24543^{+0.00026}_{-0.00026}$	$\sigma_8(0.15)$	0.7368	$0.736^{+0.024}_{-0.025}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	Y_P^{BBN}	0.246763	$0.24676^{+0.00026}_{-0.00027}$	$f\sigma_8(0.38)$	0.4631	$0.463^{+0.018}_{-0.020}$
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.66^{+0.20}_{-0.20}$	10^5D/H	2.566	$2.57^{+0.12}_{-0.11}$	$\sigma_8(0.38)$	0.6541	$0.654^{+0.021}_{-0.022}$
A_{217}^{dustTE}	2.05	$2.05^{+0.71}_{-0.69}$	Age/Gyr	13.765	$13.767^{+0.078}_{-0.080}$	$f\sigma_8(0.51)$	0.4628	$0.463^{+0.017}_{-0.018}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.61	$1089.63^{+0.87}_{-0.85}$	$\sigma_8(0.51)$	0.6126	$0.612^{+0.019}_{-0.021}$
c_{217}	0.99799	$0.9980^{+0.0017}_{-0.0017}$	r_*	144.89	$144.89^{+0.86}_{-0.86}$	$f\sigma_8(0.61)$	0.4586	$0.458^{+0.016}_{-0.017}$
H_0	68.32	$68.3^{+1.5}_{-1.4}$	$100\theta_*$	1.04153	$1.0415^{+0.0012}_{-0.0011}$	$\sigma_8(0.61)$	0.5831	$0.583^{+0.018}_{-0.020}$
Ω_Λ	0.6978	$0.697^{+0.019}_{-0.019}$	$D_M(z_*)/\text{Gpc}$	13.911	$13.912^{+0.084}_{-0.087}$	$f\sigma_8(2.33)$	0.2944	$0.2941^{+0.0092}_{-0.010}$
Ω_m	0.3022	$0.303^{+0.019}_{-0.019}$	z_{drag}	1060.05	$1060.0^{+1.5}_{-1.4}$	$\sigma_8(2.33)$	0.3039	$0.3036^{+0.0094}_{-0.011}$
$\Omega_m h^2$	0.14105	$0.1411^{+0.0032}_{-0.0031}$	r_{drag}	147.52	$147.53^{+0.96}_{-0.99}$	χ_{simall}^2	395.58	$396.8 (\nu: 1.2)$
$\Omega_m h^3$	0.09637	$0.0963^{+0.0015}_{-0.0014}$	k_D	0.14049	$0.1405^{+0.0014}_{-0.0013}$	χ_{plikTE}^2	852.6	$859.9 (\nu: 6.8)$
σ_8	0.7963	$0.796^{+0.026}_{-0.027}$	$100\theta_D$	0.16075	$0.16076^{+0.00080}_{-0.00081}$	$\chi_{6\text{DF}}^2$	0.004	$0.042 (\nu: 0.0)$
S_8	0.7993	$0.799^{+0.041}_{-0.042}$	z_{eq}	3355	3356^{+77}_{-75}	χ_{MGS}^2	1.89	$1.93 (\nu: 0.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4378	$0.438^{+0.022}_{-0.023}$	k_{eq}	0.010241	$0.01024^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	3.37	$3.99 (\nu: 0.4)$
$\sigma_8 \Omega_m^{0.25}$	0.5904	$0.590^{+0.023}_{-0.024}$	$100\theta_{\text{eq}}$	0.8224	$0.822^{+0.014}_{-0.014}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.8)$
$\sigma_8/h^{0.5}$	0.9635	$0.963^{+0.034}_{-0.036}$	$100\theta_{s,\text{eq}}$	0.4541	$0.4540^{+0.0074}_{-0.0072}$	χ_{BAO}^2	5.27	$6.0 (\nu: 0.6)$
$r_{\text{drag}} h$	100.78	$100.7^{+2.5}_{-2.4}$	$H(0.15)$	73.50	$73.5^{+1.3}_{-1.2}$	χ_{CMB}^2	1248.2	$1256.6 (\nu: 8.0)$

Best-fit $\chi_{\text{eff}}^2 = 1253.85$; $\bar{\chi}_{\text{eff}}^2 = 1270.03$; $R - 1 = 0.00960$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.89 DR12BAO: 3.37 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.58 plik_rd12_HM_v22_TE: 852.58

12.41 base_nrun_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02253^{+0.00067}_{-0.00065}$	$r_{\mathrm{drag}} h$	$101.5^{+4.5}_{-4.4}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.013}_{-0.012}$
$\Omega_{\mathrm{c}} h^2$	$0.1171^{+0.0057}_{-0.0056}$	$\langle d^2 \rangle^{1/2}$	$2.40^{+0.12}_{-0.12}$	$H(0.15)$	$73.8^{+2.2}_{-2.1}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0013}_{-0.0013}$	z_{re}	< 8.94	$D_{\mathrm{M}}(0.15)$	632^{+21}_{-21}
τ	$0.0519^{+0.017}_{-0.0094}$	$10^9 A_{\mathrm{s}}$	$2.05^{+0.10}_{-0.077}$	$H(0.38)$	$83.7^{+1.7}_{-1.6}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.019^{+0.050}_{-0.038}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.846^{+0.054}_{-0.054}$	$D_{\mathrm{M}}(0.38)$	1511^{+42}_{-42}
n_{s}	$0.975^{+0.041}_{-0.042}$	D_{40}	1233^{+130}_{-120}	$H(0.51)$	$90.3^{+1.3}_{-1.2}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.013^{+0.062}_{-0.062}$	D_{220}	5690^{+150}_{-150}	$D_{\mathrm{M}}(0.51)$	1959^{+50}_{-50}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.098}_{-0.096}$	D_{810}	2508^{+64}_{-63}	$H(0.61)$	$95.8^{+1.1}_{-0.98}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.136^{+0.078}_{-0.074}$	D_{1420}	814^{+42}_{-41}	$D_{\mathrm{M}}(0.61)$	2282^{+53}_{-54}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	D_{2000}	231^{+19}_{-18}	$H(2.33)$	$234.9^{+3.4}_{-3.4}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$n_{\mathrm{s},0.002}$	$0.93^{+0.17}_{-0.17}$	$D_{\mathrm{M}}(2.33)$	5743^{+45}_{-47}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	Y_{P}	$0.24546^{+0.00029}_{-0.00028}$	$f\sigma_8(0.15)$	$0.440^{+0.031}_{-0.031}$
$A_{217}^{\mathrm{dustTE}}$	$2.04^{+0.69}_{-0.68}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00029}_{-0.00028}$	$\sigma_8(0.15)$	$0.738^{+0.023}_{-0.022}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.12}_{-0.12}$	$f\sigma_8(0.38)$	$0.461^{+0.025}_{-0.026}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.753^{+0.099}_{-0.10}$	$\sigma_8(0.38)$	$0.655^{+0.020}_{-0.018}$
y_{cal}	$1.0000^{+0.0064}_{-0.0065}$	z_*	$1089.5^{+1.1}_{-1.1}$	$f\sigma_8(0.51)$	$0.461^{+0.022}_{-0.023}$
H_0	$68.7^{+2.6}_{-2.5}$	r_*	$145.1^{+1.3}_{-1.3}$	$\sigma_8(0.51)$	$0.614^{+0.018}_{-0.017}$
Ω_{Λ}	$0.703^{+0.032}_{-0.034}$	$100\theta_*$	$1.0416^{+0.0013}_{-0.0013}$	$f\sigma_8(0.61)$	$0.458^{+0.020}_{-0.020}$
Ω_{m}	$0.297^{+0.034}_{-0.032}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.12}_{-0.12}$	$\sigma_8(0.61)$	$0.585^{+0.017}_{-0.016}$
$\Omega_{\mathrm{m}} h^2$	$0.1403^{+0.0054}_{-0.0053}$	z_{drag}	$1060.1^{+1.4}_{-1.4}$	$f\sigma_8(2.33)$	$0.2953^{+0.0086}_{-0.0078}$
$\Omega_{\mathrm{m}} h^3$	$0.0963^{+0.0013}_{-0.0013}$	r_{drag}	$147.7^{+1.4}_{-1.3}$	$\sigma_8(2.33)$	$0.3051^{+0.0090}_{-0.0083}$
σ_8	$0.797^{+0.026}_{-0.026}$	k_{D}	$0.1404^{+0.0015}_{-0.0016}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
S_8	$0.793^{+0.062}_{-0.061}$	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00083}_{-0.00079}$	χ_{plikTE}^2	$860.5 (\nu: 7.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.434^{+0.034}_{-0.033}$	z_{eq}	3336^{+130}_{-130}	χ_{prior}^2	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.588^{+0.031}_{-0.031}$	k_{eq}	$0.01018^{+0.00039}_{-0.00039}$	χ_{CMB}^2	$1256.8 (\nu: 8.7)$
$\sigma_8/h^{0.5}$	$0.961^{+0.043}_{-0.043}$	$100\theta_{\mathrm{eq}}$	$0.826^{+0.025}_{-0.024}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1264.22$; $R - 1 = 0.00681$

12.42 base_nrun_plikHM_TE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02247^{+0.00061}_{-0.00058}$	$\langle d^2 \rangle^{1/2}$	$2.41^{+0.10}_{-0.10}$	$D_M(0.15)$	636^{+12}_{-12}
$\Omega_c h^2$	$0.1180^{+0.0033}_{-0.0032}$	z_{re}	< 9.01	$H(0.38)$	$83.44^{+0.98}_{-0.92}$
$100\theta_{\text{MC}}$	$1.0413^{+0.0012}_{-0.0012}$	$10^9 A_s$	$2.05^{+0.10}_{-0.072}$	$D_M(0.38)$	1518^{+24}_{-25}
τ	$0.0518^{+0.017}_{-0.0097}$	$10^9 A_s e^{-2\tau}$	$1.851^{+0.048}_{-0.049}$	$H(0.51)$	$90.07^{+0.83}_{-0.78}$
$\ln(10^{10} A_s)$	$3.022^{+0.049}_{-0.036}$	D_{40}	1231^{+120}_{-120}	$D_M(0.51)$	1968^{+29}_{-30}
n_s	$0.971^{+0.035}_{-0.038}$	D_{220}	5689^{+150}_{-150}	$H(0.61)$	$95.62^{+0.71}_{-0.67}$
$dn_s/d \ln k$	$0.009^{+0.058}_{-0.059}$	D_{810}	2509^{+63}_{-63}	$D_M(0.61)$	2291^{+31}_{-32}
y_{cal}	$0.99996^{+0.0064}_{-0.0068}$	D_{1420}	812^{+41}_{-40}	$H(2.33)$	$235.4^{+2.1}_{-2.1}$
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.089}$	D_{2000}	230^{+18}_{-17}	$D_M(2.33)$	5749^{+34}_{-34}
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.079}_{-0.078}$	$n_{s,0.002}$	$0.94^{+0.16}_{-0.16}$	$f\sigma_8(0.15)$	$0.445^{+0.020}_{-0.020}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	Y_{P}	$0.24543^{+0.00026}_{-0.00025}$	$\sigma_8(0.15)$	$0.739^{+0.022}_{-0.020}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24676^{+0.00026}_{-0.00025}$	$f\sigma_8(0.38)$	$0.465^{+0.017}_{-0.018}$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	10^5D/H	$2.57^{+0.11}_{-0.11}$	$\sigma_8(0.38)$	$0.656^{+0.019}_{-0.017}$
A_{217}^{dustTE}	$2.04^{+0.71}_{-0.69}$	Age/Gyr	$13.766^{+0.078}_{-0.079}$	$f\sigma_8(0.51)$	$0.464^{+0.016}_{-0.016}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	z_*	$1089.62^{+0.84}_{-0.84}$	$\sigma_8(0.51)$	$0.614^{+0.018}_{-0.016}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	r_*	$144.88^{+0.85}_{-0.85}$	$f\sigma_8(0.61)$	$0.460^{+0.015}_{-0.015}$
H_0	$68.3^{+1.5}_{-1.4}$	$100\theta_*$	$1.0415^{+0.0012}_{-0.0011}$	$\sigma_8(0.61)$	$0.585^{+0.017}_{-0.015}$
Ω_Λ	$0.697^{+0.018}_{-0.019}$	$D_M(z_*)/\text{Gpc}$	$13.910^{+0.084}_{-0.086}$	$f\sigma_8(2.33)$	$0.2953^{+0.0084}_{-0.0079}$
Ω_{m}	$0.303^{+0.019}_{-0.018}$	z_{drag}	$1060.0^{+1.4}_{-1.3}$	$\sigma_8(2.33)$	$0.3048^{+0.0088}_{-0.0082}$
$\Omega_{\text{m}} h^2$	$0.1411^{+0.0032}_{-0.0031}$	r_{drag}	$147.51^{+0.96}_{-0.97}$	χ_{simall}^2	$396.4 (\nu: 0.6)$
$\Omega_{\text{m}} h^3$	$0.0964^{+0.0014}_{-0.0013}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	χ_{plikTE}^2	$860.0 (\nu: 6.8)$
σ_8	$0.799^{+0.024}_{-0.022}$	$100\theta_{\text{D}}$	$0.16075^{+0.00078}_{-0.00080}$	$\chi_{6\text{DF}}^2$	$0.041 (\nu: 0.0)$
S_8	$0.803^{+0.039}_{-0.039}$	z_{eq}	3357^{+76}_{-75}	χ_{MGS}^2	$1.92 (\nu: 0.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.440^{+0.021}_{-0.022}$	k_{eq}	$0.01024^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	$3.99 (\nu: 0.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.593^{+0.021}_{-0.022}$	$100\theta_{\text{eq}}$	$0.822^{+0.014}_{-0.014}$	χ_{prior}^2	$7.4 (\nu: 6.7)$
$\sigma_8/h^{0.5}$	$0.967^{+0.031}_{-0.031}$	$100\theta_{\text{s,eq}}$	$0.4540^{+0.0074}_{-0.0072}$	χ_{BAO}^2	$6.0 (\nu: 0.6)$
$r_{\text{drag}} h$	$100.7^{+2.5}_{-2.4}$	$H(0.15)$	$73.5^{+1.3}_{-1.2}$	χ_{CMB}^2	$1256.3 (\nu: 7.7)$

$$\bar{\chi}_{\text{eff}}^2 = 1269.67; R - 1 = 0.01461$$

12.43 base_nrun_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02363	$0.0235^{+0.0034}_{-0.0034}$	D_{40}	1268	1266^{+100}_{-100}	$D_M(0.15)$	621	624^{+60}_{-57}
$\Omega_c h^2$	0.1145	$0.115^{+0.013}_{-0.012}$	D_{220}	5901	5867^{+550}_{-580}	$H(0.38)$	84.7	$84.5^{+5.5}_{-4.7}$
$100\theta_{MC}$	1.04011	$1.0401^{+0.0023}_{-0.0023}$	D_{810}	2580	2574^{+110}_{-110}	$D_M(0.38)$	1487	1494^{+120}_{-120}
τ	0.0493	$0.049^{+0.026}_{-0.026}$	D_{1420}	852	849^{+57}_{-55}	$H(0.51)$	91.14	$91.0^{+4.7}_{-3.9}$
$\ln(10^{10} A_s)$	3.033	$3.032^{+0.085}_{-0.081}$	D_{2000}	245.9	245^{+25}_{-23}	$D_M(0.51)$	1931	1939^{+140}_{-140}
n_s	0.993	$0.993^{+0.057}_{-0.056}$	$n_{s,0.002}$	0.902	$0.90^{+0.26}_{-0.24}$	$H(0.61)$	96.54	$96.4^{+4.2}_{-3.4}$
$dn_s/d \ln k$	0.028	$0.029^{+0.086}_{-0.093}$	Y_P	0.24592	$0.2458^{+0.0013}_{-0.0015}$	$D_M(0.61)$	2250	2259^{+160}_{-160}
y_{cal}	1.0001	$1.0001^{+0.0064}_{-0.0065}$	Y_P^{BBN}	0.24725	$0.2471^{+0.0013}_{-0.0015}$	$H(2.33)$	234.2	$234.4^{+6.5}_{-6.0}$
H_0	70.1	$69.8^{+7.5}_{-6.8}$	$10^5 D/H$	2.37	$2.41^{+0.67}_{-0.50}$	$D_M(2.33)$	5706	5715^{+170}_{-190}
Ω_Λ	0.717	$0.712^{+0.070}_{-0.087}$	Age/Gyr	13.670	$13.69^{+0.40}_{-0.42}$	$f\sigma_8(0.15)$	0.430	$0.434^{+0.078}_{-0.074}$
Ω_m	0.283	$0.288^{+0.087}_{-0.070}$	z_*	1087.95	$1088.3^{+5.3}_{-4.3}$	$\sigma_8(0.15)$	0.7383	$0.740^{+0.035}_{-0.039}$
$\Omega_m h^2$	0.1388	$0.139^{+0.011}_{-0.010}$	r_*	144.88	$144.9^{+2.4}_{-2.3}$	$f\sigma_8(0.38)$	0.454	$0.457^{+0.059}_{-0.061}$
$\Omega_m h^3$	0.0973	$0.0971^{+0.0056}_{-0.0051}$	$100\theta_*$	1.04016	$1.0402^{+0.0023}_{-0.0022}$	$\sigma_8(0.38)$	0.6577	$0.658^{+0.025}_{-0.028}$
σ_8	0.7958	$0.798^{+0.045}_{-0.049}$	$D_M(z_*)/\text{Gpc}$	13.929	$13.93^{+0.23}_{-0.22}$	$f\sigma_8(0.51)$	0.456	$0.459^{+0.049}_{-0.053}$
S_8	0.772	$0.78^{+0.16}_{-0.14}$	z_{drag}	1062.4	$1062.0^{+6.9}_{-7.4}$	$\sigma_8(0.51)$	0.6168	$0.617^{+0.022}_{-0.025}$
$\sigma_8 \Omega_m^{0.5}$	0.423	$0.428^{+0.086}_{-0.077}$	r_{drag}	147.15	$147.2^{+3.0}_{-2.8}$	$f\sigma_8(0.61)$	0.4535	$0.456^{+0.042}_{-0.048}$
$\sigma_8 \Omega_m^{0.25}$	0.580	$0.584^{+0.073}_{-0.071}$	k_D	0.14170	$0.1415^{+0.0045}_{-0.0050}$	$\sigma_8(0.61)$	0.5878	$0.588^{+0.020}_{-0.022}$
$\sigma_8/h^{0.5}$	0.951	$0.96^{+0.10}_{-0.10}$	$100\theta_D$	0.15918	$0.1595^{+0.0047}_{-0.0034}$	$f\sigma_8(2.33)$	0.2976	$0.2975^{+0.0093}_{-0.010}$
$r_{drag} h$	103.1	103^{+11}_{-10}	z_{eq}	3302	3314^{+260}_{-240}	$\sigma_8(2.33)$	0.3082	$0.3080^{+0.0097}_{-0.011}$
$\langle d^2 \rangle^{1/2}$	2.387	$2.40^{+0.21}_{-0.20}$	k_{eq}	0.01008	$0.01011^{+0.00080}_{-0.00074}$	χ_{simall}^2	395.42	$396.7 (\nu: 1.3)$
z_{re}	6.83	$6.8^{+2.2}_{-2.8}$	$100\theta_{eq}$	0.835	$0.832^{+0.055}_{-0.051}$	χ_{plikEE}^2	738.4	$744.2 (\nu: 5.9)$
$10^9 A_s$	2.076	$2.07^{+0.18}_{-0.16}$	$100\theta_{s,eq}$	0.4595	$0.458^{+0.027}_{-0.026}$	χ_{prior}^2	0.00	$0.98 (\nu: 1.0)$
$10^9 A_s e^{-2\tau}$	1.881	$1.880^{+0.094}_{-0.093}$	$H(0.15)$	75.1	$74.8^{+6.7}_{-6.0}$	χ_{CMB}^2	1133.8	$1140.9 (\nu: 7.3)$

Best-fit $\chi_{eff}^2 = 1133.78$; $\bar{\chi}_{eff}^2 = 1141.92$; $R - 1 = 0.00923$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.42 plik_rd12_HM_v22_EE: 738.36

12.44 base_nrun_plikHM_EE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02278	$0.0229^{+0.0025}_{-0.0025}$	D_{810}	2562	2564^{+100}_{-100}	$D_{\mathrm{M}}(0.51)$	1968	1966^{+55}_{-55}
$\Omega_{\mathrm{c}}h^2$	0.11736	$0.1174^{+0.0039}_{-0.0038}$	D_{1420}	843.7	843^{+40}_{-40}	$H(0.61)$	95.55	$95.7^{+1.9}_{-1.8}$
$100\theta_{\mathrm{MC}}$	1.03984	$1.0399^{+0.0021}_{-0.0021}$	D_{2000}	242.8	242^{+18}_{-18}	$D_{\mathrm{M}}(0.61)$	2292	2289^{+62}_{-61}
τ	0.0476	$0.048^{+0.026}_{-0.025}$	$n_{\mathrm{s},0.002}$	0.883	$0.90^{+0.27}_{-0.24}$	$H(2.33)$	235.12	$235.3^{+3.4}_{-3.3}$
$\ln(10^{10}A_{\mathrm{s}})$	3.027	$3.029^{+0.086}_{-0.081}$	Y_{P}	0.24555	$0.24560^{+0.00099}_{-0.0011}$	$D_{\mathrm{M}}(2.33)$	5753	5748^{+110}_{-110}
n_{s}	0.9889	$0.988^{+0.047}_{-0.049}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.24687	$0.2469^{+0.0010}_{-0.0011}$	$f\sigma_8(0.15)$	0.4487	$0.448^{+0.026}_{-0.027}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	0.033	$0.029^{+0.085}_{-0.099}$	$10^5\mathrm{D}/\mathrm{H}$	2.512	$2.50^{+0.50}_{-0.39}$	$\sigma_8(0.15)$	0.7464	$0.746^{+0.025}_{-0.027}$
y_{cal}	1.0003	$1.0001^{+0.0060}_{-0.0062}$	Age/Gyr	13.777	$13.76^{+0.25}_{-0.25}$	$f\sigma_8(0.38)$	0.4691	$0.468^{+0.023}_{-0.023}$
H_0	68.27	$68.4^{+2.5}_{-2.4}$	z_*	1089.18	$1089.1^{+3.4}_{-2.8}$	$\sigma_8(0.38)$	0.6627	$0.662^{+0.021}_{-0.023}$
Ω_{Λ}	0.6979	$0.698^{+0.023}_{-0.025}$	r_*	144.80	$144.7^{+2.0}_{-2.1}$	$f\sigma_8(0.51)$	0.4688	$0.468^{+0.021}_{-0.021}$
Ω_{m}	0.3021	$0.302^{+0.025}_{-0.023}$	$100\theta_*$	1.04000	$1.0400^{+0.0023}_{-0.0021}$	$\sigma_8(0.51)$	0.6206	$0.620^{+0.019}_{-0.021}$
$\Omega_{\mathrm{m}}h^2$	0.14078	$0.1410^{+0.0044}_{-0.0043}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.923	$13.91^{+0.19}_{-0.20}$	$f\sigma_8(0.61)$	0.4646	$0.464^{+0.020}_{-0.019}$
$\Omega_{\mathrm{m}}h^3$	0.09611	$0.0964^{+0.0048}_{-0.0041}$	z_{drag}	1060.7	$1060.9^{+5.4}_{-6.0}$	$\sigma_8(0.61)$	0.5908	$0.590^{+0.018}_{-0.019}$
σ_8	0.8067	$0.806^{+0.028}_{-0.029}$	r_{drag}	147.34	$147.2^{+2.9}_{-2.8}$	$f\sigma_8(2.33)$	0.2982	$0.2981^{+0.0090}_{-0.0094}$
S_8	0.810	$0.808^{+0.050}_{-0.051}$	k_{D}	0.14091	$0.1411^{+0.0045}_{-0.0049}$	$\sigma_8(2.33)$	0.3079	$0.3078^{+0.0094}_{-0.0097}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4434	$0.443^{+0.028}_{-0.028}$	$100\theta_{\mathrm{D}}$	0.16012	$0.1600^{+0.0039}_{-0.0030}$	χ_{small}^2	395.50	$396.8 (\nu: 1.3)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5981	$0.597^{+0.029}_{-0.028}$	z_{eq}	3349	3353^{+100}_{-100}	χ_{plikEE}^2	738.5	$743.5 (\nu: 4.9)$
$\sigma_8/h^{0.5}$	0.9764	$0.975^{+0.045}_{-0.043}$	k_{eq}	0.010221	$0.01023^{+0.00032}_{-0.00031}$	$\chi_{6\mathrm{DF}}^2$	0.000	$0.057 (\nu: 0.0)$
$r_{\mathrm{drag}}h$	100.59	$100.6^{+3.0}_{-2.9}$	$100\theta_{\mathrm{eq}}$	0.8233	$0.823^{+0.017}_{-0.016}$	χ_{MGS}^2	1.75	$1.86 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	2.434	$2.43^{+0.12}_{-0.12}$	$100\theta_{\mathrm{s,eq}}$	0.4542	$0.4540^{+0.0095}_{-0.0088}$	$\chi_{\mathrm{DR12BAO}}^2$	3.59	$4.4 (\nu: 0.8)$
z_{re}	6.86	$6.8^{+2.3}_{-2.7}$	$H(0.15)$	73.45	$73.6^{+2.3}_{-2.2}$	χ_{prior}^2	0.02	$0.9 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}$	2.064	$2.07^{+0.18}_{-0.16}$	$D_{\mathrm{M}}(0.15)$	635.7	635^{+21}_{-21}	χ_{BAO}^2	5.33	$6.3 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.877	$1.879^{+0.096}_{-0.095}$	$H(0.38)$	83.39	$83.5^{+2.0}_{-2.0}$	χ_{CMB}^2	1134.0	$1140.3 (\nu: 6.3)$
D_{40}	1273	1267^{+100}_{-100}	$D_{\mathrm{M}}(0.38)$	1518.4	1516^{+45}_{-45}			
D_{220}	5778	5789^{+460}_{-480}	$H(0.51)$	90.01	$90.1^{+1.9}_{-1.9}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 1139.39$; $\bar{\chi}_{\mathrm{eff}}^2 = 1147.51$; $R - 1 = 0.01371$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.59 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.50 plik_rd12_HM_v22_EE: 738.54

12.45 base_nrun_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0235^{+0.0034}_{-0.0034}$	D_{40}	1255^{+100}_{-100}	$D_{\mathrm{M}}(0.15)$	625^{+59}_{-56}
$\Omega_{\mathrm{c}}h^2$	$0.115^{+0.013}_{-0.012}$	D_{220}	5877^{+560}_{-570}	$H(0.38)$	$84.5^{+5.4}_{-4.7}$
$100\theta_{\mathrm{MC}}$	$1.0401^{+0.0023}_{-0.0023}$	D_{810}	2576^{+110}_{-110}	$D_{\mathrm{M}}(0.38)$	1495^{+120}_{-120}
τ	$0.054^{+0.023}_{-0.013}$	D_{1420}	847^{+53}_{-53}	$H(0.51)$	$91.0^{+4.7}_{-3.9}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.077}_{-0.066}$	D_{2000}	244^{+23}_{-23}	$D_{\mathrm{M}}(0.51)$	1939^{+140}_{-140}
n_{s}	$0.990^{+0.055}_{-0.053}$	$n_{\mathrm{s},0.002}$	$0.92^{+0.25}_{-0.23}$	$H(0.61)$	$96.4^{+4.2}_{-3.4}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.021^{+0.084}_{-0.092}$	Y_{P}	$0.2458^{+0.0013}_{-0.0015}$	$D_{\mathrm{M}}(0.61)$	2260^{+160}_{-160}
y_{cal}	$1.0000^{+0.0064}_{-0.0065}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2472^{+0.0013}_{-0.0015}$	$H(2.33)$	$234.7^{+6.4}_{-5.9}$
H_0	$69.7^{+7.3}_{-6.8}$	$10^5\mathrm{D}/\mathrm{H}$	$2.40^{+0.66}_{-0.49}$	$D_{\mathrm{M}}(2.33)$	5713^{+170}_{-190}
Ω_{Λ}	$0.711^{+0.069}_{-0.086}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.69^{+0.40}_{-0.41}$	$f\sigma_8(0.15)$	$0.437^{+0.077}_{-0.072}$
Ω_{m}	$0.289^{+0.086}_{-0.069}$	z_{*}	$1088.3^{+5.2}_{-4.2}$	$\sigma_8(0.15)$	$0.742^{+0.034}_{-0.038}$
$\Omega_{\mathrm{m}}h^2$	$0.140^{+0.011}_{-0.0099}$	r_{*}	$144.7^{+2.4}_{-2.2}$	$f\sigma_8(0.38)$	$0.460^{+0.058}_{-0.060}$
$\Omega_{\mathrm{m}}h^3$	$0.0972^{+0.0056}_{-0.0050}$	$100\theta_{*}$	$1.0401^{+0.0022}_{-0.0022}$	$\sigma_8(0.38)$	$0.661^{+0.024}_{-0.027}$
σ_8	$0.801^{+0.044}_{-0.048}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.91^{+0.23}_{-0.21}$	$f\sigma_8(0.51)$	$0.461^{+0.048}_{-0.052}$
S_8	$0.79^{+0.16}_{-0.14}$	z_{drag}	$1062.2^{+6.8}_{-7.4}$	$\sigma_8(0.51)$	$0.619^{+0.021}_{-0.023}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.431^{+0.085}_{-0.076}$	r_{drag}	$147.0^{+3.0}_{-2.7}$	$f\sigma_8(0.61)$	$0.458^{+0.042}_{-0.046}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.587^{+0.071}_{-0.069}$	k_{D}	$0.1417^{+0.0045}_{-0.0050}$	$\sigma_8(0.61)$	$0.590^{+0.019}_{-0.020}$
$\sigma_8/h^{0.5}$	$0.960^{+0.099}_{-0.099}$	$100\theta_{\mathrm{D}}$	$0.1594^{+0.0046}_{-0.0034}$	$f\sigma_8(2.33)$	$0.2985^{+0.0087}_{-0.0087}$
$r_{\mathrm{drag}}h$	102^{+11}_{-10}	z_{eq}	3322^{+260}_{-240}	$\sigma_8(2.33)$	$0.3089^{+0.0092}_{-0.0092}$
$\langle d^2 \rangle^{1/2}$	$2.40^{+0.21}_{-0.19}$	k_{eq}	$0.01014^{+0.00079}_{-0.00072}$	χ_{simall}^2	$396.5 (\nu: 1.1)$
z_{re}	< 8.97	$100\theta_{\mathrm{eq}}$	$0.831^{+0.054}_{-0.050}$	χ_{plikEE}^2	$744.1 (\nu: 5.8)$
$10^9 A_{\mathrm{s}}$	$2.10^{+0.17}_{-0.14}$	$100\theta_{\mathrm{s,eq}}$	$0.458^{+0.026}_{-0.025}$	χ_{prior}^2	$0.98 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.091}_{-0.093}$	$H(0.15)$	$74.7^{+6.6}_{-5.9}$	χ_{CMB}^2	$1140.7 (\nu: 7.0)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1141.65$; $R - 1 = 0.00996$

12.46 base_nrun_plikHM_EE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.0230^{+0.0024}_{-0.0026}$	D_{810}	2567^{+100}_{-96}	$D_{\mathrm{M}}(0.51)$	1964^{+55}_{-54}
$\Omega_{\mathrm{c}}h^2$	$0.1175^{+0.0038}_{-0.0039}$	D_{1420}	841^{+40}_{-41}	$H(0.61)$	$95.8^{+1.9}_{-1.7}$
$100\theta_{\mathrm{MC}}$	$1.0399^{+0.0021}_{-0.0020}$	D_{2000}	241^{+18}_{-18}	$D_{\mathrm{M}}(0.61)$	2286^{+62}_{-60}
τ	$0.053^{+0.020}_{-0.012}$	$n_{\mathrm{s},0.002}$	$0.92^{+0.25}_{-0.23}$	$H(2.33)$	$235.5^{+3.3}_{-3.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.075}_{-0.069}$	Y_{P}	$0.24565^{+0.00097}_{-0.0011}$	$D_{\mathrm{M}}(2.33)$	5742^{+97}_{-100}
n_{s}	$0.985^{+0.046}_{-0.049}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24698^{+0.00098}_{-0.0011}$	$f\sigma_8(0.15)$	$0.449^{+0.026}_{-0.026}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.020^{+0.082}_{-0.092}$	$10^5\mathrm{D}/\mathrm{H}$	$2.48^{+0.51}_{-0.38}$	$\sigma_8(0.15)$	$0.748^{+0.025}_{-0.023}$
y_{cal}	$1.0001^{+0.0068}_{-0.0060}$	Age/Gyr	$13.75^{+0.23}_{-0.24}$	$f\sigma_8(0.38)$	$0.470^{+0.022}_{-0.023}$
H_0	$68.5^{+2.5}_{-2.4}$	z_*	$1088.9^{+3.5}_{-2.7}$	$\sigma_8(0.38)$	$0.664^{+0.020}_{-0.019}$
Ω_{Λ}	$0.699^{+0.023}_{-0.025}$	r_*	$144.6^{+2.0}_{-2.0}$	$f\sigma_8(0.51)$	$0.469^{+0.020}_{-0.020}$
Ω_{m}	$0.301^{+0.025}_{-0.023}$	$100\theta_*$	$1.0400^{+0.0023}_{-0.0020}$	$\sigma_8(0.51)$	$0.622^{+0.018}_{-0.017}$
$\Omega_{\mathrm{m}}h^2$	$0.1411^{+0.0043}_{-0.0043}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.19}_{-0.19}$	$f\sigma_8(0.61)$	$0.465^{+0.019}_{-0.018}$
$\Omega_{\mathrm{m}}h^3$	$0.0966^{+0.0046}_{-0.0041}$	z_{drag}	$1061.2^{+5.3}_{-6.1}$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.016}$
σ_8	$0.808^{+0.028}_{-0.027}$	r_{drag}	$147.0^{+2.9}_{-2.7}$	$f\sigma_8(2.33)$	$0.2990^{+0.0085}_{-0.0079}$
S_8	$0.810^{+0.051}_{-0.049}$	k_{D}	$0.1414^{+0.0044}_{-0.0048}$	$\sigma_8(2.33)$	$0.3087^{+0.0087}_{-0.0082}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.028}_{-0.027}$	$100\theta_{\mathrm{D}}$	$0.1599^{+0.0041}_{-0.0030}$	χ_{simall}^2	$396.6 (\nu: 1.0)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.599^{+0.028}_{-0.027}$	z_{eq}	3357^{+100}_{-100}	χ_{plikEE}^2	$743.5 (\nu: 5.1)$
$\sigma_8/h^{0.5}$	$0.977^{+0.044}_{-0.043}$	k_{eq}	$0.01025^{+0.00031}_{-0.00031}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
$r_{\mathrm{drag}}h$	$100.7^{+3.0}_{-2.9}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.017}_{-0.016}$	χ_{MGS}^2	$1.88 (\nu: 0.3)$
$\langle d^2 \rangle^{1/2}$	$2.43^{+0.12}_{-0.11}$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0094}_{-0.0088}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 (\nu: 0.8)$
z_{re}	< 9.06	$H(0.15)$	$73.6^{+2.2}_{-2.2}$	χ_{prior}^2	$0.9 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}$	$2.10^{+0.16}_{-0.14}$	$D_{\mathrm{M}}(0.15)$	634^{+21}_{-20}	χ_{BAO}^2	$6.4 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.093}_{-0.086}$	$H(0.38)$	$83.6^{+2.0}_{-2.0}$	χ_{CMB}^2	$1140.0 (\nu: 6.1)$
D_{40}	1256^{+100}_{-100}	$D_{\mathrm{M}}(0.38)$	1515^{+45}_{-44}		
D_{220}	5810^{+450}_{-500}	$H(0.51)$	$90.2^{+1.9}_{-1.8}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1147.29$; $R - 1 = 0.01768$

12.47 base_nrun_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02214	$0.02215^{+0.00060}_{-0.00059}$	$\sigma_8/h^{0.5}$	0.9912	$0.991^{+0.040}_{-0.042}$	$D_M(0.15)$	647.6	647^{+20}_{-20}
$\Omega_c h^2$	0.1207	$0.1205^{+0.0054}_{-0.0055}$	$r_{\text{drag}} h$	98.42	$98.6^{+4.3}_{-4.0}$	$H(0.38)$	82.52	$82.6^{+1.5}_{-1.4}$
$100\theta_{\text{MC}}$	1.04078	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.445^{+0.097}_{-0.098}$	$D_M(0.38)$	1542.3	1541^{+40}_{-41}
τ	0.0532	$0.053^{+0.022}_{-0.022}$	z_{re}	7.63	$7.6^{+2.2}_{-2.4}$	$H(0.51)$	89.32	$89.4^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.0419	$3.041^{+0.048}_{-0.048}$	$10^9 A_s$	2.095	$2.09^{+0.10}_{-0.098}$	$D_M(0.51)$	1996.4	1995^{+46}_{-48}
n_s	0.9603	$0.961^{+0.015}_{-0.016}$	$10^9 A_s e^{-2\tau}$	1.8831	$1.883^{+0.038}_{-0.037}$	$H(0.61)$	95.01	$95.05^{+0.95}_{-0.84}$
$dn_s/d \ln k$	-0.0065	$-0.005^{+0.019}_{-0.020}$	D_{40}	1220	1222^{+56}_{-53}	$D_M(0.61)$	2322	2320^{+50}_{-52}
y_{cal}	1.0002	$1.0003^{+0.0064}_{-0.0065}$	D_{220}	5704	5707^{+110}_{-100}	$H(2.33)$	236.76	$236.7^{+3.3}_{-3.4}$
A_{100}^{PS}	266	259^{+70}_{-70}	D_{810}	2531.9	2533^{+37}_{-36}	$D_M(2.33)$	5777.1	5776^{+40}_{-43}
A_{143}^{tSZ}	4.49	< 8.86	D_{1420}	810.6	812^{+14}_{-15}	$f\sigma_8(0.15)$	0.4629	$0.462^{+0.031}_{-0.032}$
A^{kSZ}	3.1	—	D_{2000}	227.9	$228.4^{+5.2}_{-5.5}$	$\sigma_8(0.15)$	0.7481	$0.748^{+0.020}_{-0.020}$
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.49}$	$n_{s,0.002}$	0.981	$0.977^{+0.060}_{-0.060}$	$f\sigma_8(0.38)$	0.4792	$0.479^{+0.024}_{-0.026}$
A_{143}^{power}	13.0	$11.0^{+7.3}_{-6.1}$	Y_{P}	0.245299	$0.24530^{+0.00023}_{-0.00028}$	$\sigma_8(0.38)$	0.6622	$0.662^{+0.016}_{-0.016}$
A_{217}^{power}	11.2	$8.7^{+8.9}_{-5.1}$	$Y_{\text{P}}^{\text{BBN}}$	0.246625	$0.24663^{+0.00024}_{-0.00028}$	$f\sigma_8(0.51)$	0.4767	$0.476^{+0.020}_{-0.022}$
$A_{143 \times 217}^{\text{power}}$	7.4	< 12.3	$10^5 D/H$	2.630	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6192	$0.619^{+0.015}_{-0.015}$
$\gamma_{143}^{\text{power}}$	1.20	> 0.385	Age/Gyr	13.828	$13.825^{+0.091}_{-0.095}$	$f\sigma_8(0.61)$	0.4710	$0.471^{+0.018}_{-0.020}$
$\gamma_{217}^{\text{power}}$	1.08	—	z_*	1090.28	$1090.2^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	0.5890	$0.589^{+0.014}_{-0.014}$
$\gamma_{143 \times 217}^{\text{power}}$	1.03	—	r_*	144.43	$144.5^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	0.2966	$0.2967^{+0.0069}_{-0.0069}$
c_{100}	0.99777	$0.9978^{+0.0027}_{-0.0029}$	$100\theta_*$	1.04097	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3054	$0.3055^{+0.0074}_{-0.0072}$
c_{217}	0.99938	$0.9995^{+0.0045}_{-0.0035}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	25.1	24^{+9}_{-8}
H_0	66.87	$67.0^{+2.4}_{-2.3}$	z_{drag}	1059.44	$1059.5^{+1.2}_{-1.3}$	f_{2000}^{217}	18.1	$17.5^{+6.0}_{-5.5}$
Ω_Λ	0.6792	$0.680^{+0.033}_{-0.034}$	r_{drag}	147.17	$147.2^{+1.3}_{-1.2}$	$f_{2000}^{143 \times 217}$	12.8	$11.9^{+6.7}_{-6.0}$
Ω_m	0.3208	$0.320^{+0.034}_{-0.033}$	k_D	0.14060	$0.1406^{+0.0014}_{-0.0015}$	χ_{small}^2	395.93	$397.0 (\nu: 1.5)$
$\Omega_m h^2$	0.1435	$0.1433^{+0.0052}_{-0.0053}$	$100\theta_D$	0.16104	$0.16103^{+0.00076}_{-0.00070}$	χ_{lowl}^2	22.24	$23.0 (\nu: 2.0)$
$\Omega_m h^3$	0.09594	$0.0959^{+0.0013}_{-0.0012}$	z_{eq}	3413	3410^{+120}_{-130}	χ_{CamSpec}^2	6705.0	$6717.4 (\nu: 14.6)$
σ_8	0.8106	$0.810^{+0.023}_{-0.024}$	k_{eq}	0.010417	$0.01041^{+0.00038}_{-0.00039}$	χ_{prior}^2	1.4	$5.3 (\nu: 4.2)$
S_8	0.838	$0.837^{+0.062}_{-0.063}$	$100\theta_{\text{eq}}$	0.8106	$0.811^{+0.024}_{-0.022}$	χ_{CMB}^2	7123.1	$7137.4 (\nu: 14.7)$
$\sigma_8 \Omega_m^{0.5}$	0.4591	$0.458^{+0.034}_{-0.034}$	$100\theta_{s,\text{eq}}$	0.4482	$0.449^{+0.012}_{-0.012}$			
$\sigma_8 \Omega_m^{0.25}$	0.6101	$0.610^{+0.030}_{-0.031}$	$H(0.15)$	72.25	$72.3^{+2.1}_{-1.9}$			

Best-fit $\chi_{\text{eff}}^2 = 7124.55$; $\bar{\chi}_{\text{eff}}^2 = 7142.72$; $R - 1 = 0.00730$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.93 commander_dx12_v3.2_29: 22.24 CamSpec like_10.7cleaned: 6704.97

13 nrun+nnu+w+mnu

13.1 base_nrun_nnu_w_mnu_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022447	$0.02248^{+0.00048}_{-0.00048}$	$\Omega_\nu h^2$	0.00002	< 0.00228	$D_M(0.15)$	626.7	626^{+24}_{-23}
$\Omega_c h^2$	0.1200	$0.1205^{+0.0081}_{-0.0076}$	$\Omega_m h^3$	0.0990	$0.1000^{+0.0091}_{-0.0086}$	$H(0.38)$	83.78	$83.7^{+3.2}_{-3.1}$
$100\theta_{MC}$	1.04098	$1.0409^{+0.0012}_{-0.0011}$	σ_8	0.8346	$0.829^{+0.032}_{-0.033}$	$D_M(0.38)$	1503	1503^{+56}_{-54}
τ	0.0537	$0.056^{+0.022}_{-0.020}$	S_8	0.8276	$0.824^{+0.029}_{-0.030}$	$H(0.51)$	90.24	$90.2^{+3.4}_{-3.4}$
Σm_ν [eV]	0.002	< 0.213	$\sigma_8 \Omega_m^{0.5}$	0.4533	$0.451^{+0.016}_{-0.017}$	$D_M(0.51)$	1951	1952^{+72}_{-70}
w_0	-1.041	$-1.053^{+0.088}_{-0.094}$	$\sigma_8 \Omega_m^{0.25}$	0.6151	$0.612^{+0.021}_{-0.021}$	$H(0.61)$	95.70	$95.7^{+3.7}_{-3.6}$
N_{eff}	3.071	$3.11^{+0.50}_{-0.48}$	$\sigma_8/h^{0.5}$	1.0011	$0.993^{+0.029}_{-0.033}$	$D_M(0.61)$	2274	2274^{+84}_{-81}
$\ln(10^{10} A_s)$	3.0431	$3.049^{+0.045}_{-0.043}$	$r_{\text{drag}} h$	102.09	$102.0^{+2.9}_{-2.9}$	$H(2.33)$	235.8	$236.5^{+7.5}_{-7.4}$
n_s	0.9667	$0.967^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.440^{+0.062}_{-0.059}$	$D_M(2.33)$	5732	5728^{+200}_{-190}
$dn_s/d \ln k$	-0.0028	$-0.004^{+0.019}_{-0.019}$	z_{re}	7.59	$7.8^{+2.1}_{-2.1}$	$f\sigma_8(0.15)$	0.4616	$0.461^{+0.017}_{-0.017}$
y_{cal}	1.0003	$1.0006^{+0.0062}_{-0.0063}$	$10^9 A_s$	2.097	$2.109^{+0.098}_{-0.090}$	$\sigma_8(0.15)$	0.7726	$0.767^{+0.030}_{-0.031}$
A_{217}^{CIB}	49.7	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8837	$1.887^{+0.042}_{-0.043}$	$f\sigma_8(0.38)$	0.4858	$0.485^{+0.020}_{-0.020}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.13	—	D_{40}	1220.1	1219^{+47}_{-45}	$\sigma_8(0.38)$	0.6857	$0.681^{+0.027}_{-0.028}$
A_{143}^{tSZ}	7.4	—	D_{220}	5730	5737^{+97}_{-98}	$f\sigma_8(0.51)$	0.4863	$0.486^{+0.021}_{-0.020}$
A_{100}^{PS}	255	262^{+70}_{-70}	D_{810}	2538.5	2541^{+34}_{-35}	$\sigma_8(0.51)$	0.6419	$0.637^{+0.025}_{-0.026}$
A_{143}^{PS}	44.5	47^{+20}_{-20}	D_{1420}	816.3	816^{+13}_{-13}	$f\sigma_8(0.61)$	0.4823	$0.482^{+0.021}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	40	42^{+20}_{-20}	D_{2000}	230.51	$230.3^{+4.8}_{-4.8}$	$\sigma_8(0.61)$	0.6109	$0.606^{+0.024}_{-0.025}$
A_{217}^{PS}	116.2	114^{+30}_{-30}	$n_{s,0.002}$	0.976	$0.979^{+0.053}_{-0.053}$	$f\sigma_8(2.33)$	0.3074	$0.306^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	Y_P	0.2458	$0.2462^{+0.0066}_{-0.0067}$	$\sigma_8(2.33)$	0.3167	$0.314^{+0.013}_{-0.013}$
A_{100}^{dustTT}	8.93	$9.0^{+4.8}_{-4.7}$	Y_P^{BBN}	0.2471	$0.2475^{+0.0066}_{-0.0067}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
A_{143}^{dustTT}	11.05	$11.0^{+4.6}_{-4.6}$	$10^5 D/H$	2.580	$2.59^{+0.13}_{-0.13}$	$f_{2000}^{143 \times 217}$	32.7	33^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.7^{+8.4}_{-8.3}$	Age/Gyr	13.708	$13.70^{+0.47}_{-0.45}$	f_{2000}^{217}	107.3	$107.7^{+5.2}_{-5.3}$
A_{217}^{dustTT}	94.2	94^{+20}_{-20}	z_*	1089.84	$1089.88^{+0.95}_{-0.92}$	χ^2_{lensing}	9.11	$9.47 (\nu: 0.3)$
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.095}$	r_*	144.25	$143.9^{+4.7}_{-4.5}$	χ^2_{small}	395.88	$397.1 (\nu: 1.7)$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.075}$	$100\theta_*$	1.04111	$1.0410^{+0.0015}_{-0.0014}$	χ^2_{lowl}	22.38	$22.5 (\nu: 1.2)$
$A_{100 \times 217}^{\text{dustTE}}$	0.479	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.856	$13.83^{+0.43}_{-0.42}$	χ^2_{plik}	2344.3	$2361.5 (\nu: 21.0)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	z_{drag}	1060.12	$1060.3^{+1.8}_{-1.8}$	χ^2_{H073p45}	5.7	$5.8 (\nu: 4.5)$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.21}_{-0.21}$	r_{drag}	146.88	$146.6^{+4.9}_{-4.7}$	χ^2_{JLA}	1035.46	$1036.3 (\nu: 1.6)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.69}$	k_D	0.14104	$0.1413^{+0.0034}_{-0.0035}$	$\chi^2_{6\text{DF}}$	0.075	$0.09 (\nu: 0.0)$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16076	$0.1608^{+0.0012}_{-0.0011}$	χ^2_{MGS}	2.51	$2.42 (\nu: 0.2)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3393	3390^{+72}_{-75}	χ^2_{DR12BAO}	3.95	$4.56 (\nu: 0.4)$
H_0	69.50	$69.6^{+2.7}_{-2.7}$	k_{eq}	0.010373	$0.01039^{+0.00029}_{-0.00028}$	χ^2_{prior}	1.9	$11.6 (\nu: 10.3)$
Ω_Λ	0.7050	$0.703^{+0.017}_{-0.018}$	$100\theta_{\text{eq}}$	0.8151	$0.816^{+0.014}_{-0.014}$	χ^2_{CMB}	2771.7	$2790.6 (\nu: 22.6)$
Ω_m	0.2950	$0.297^{+0.018}_{-0.017}$	$100\theta_{s,\text{eq}}$	0.4503	$0.4506^{+0.0073}_{-0.0068}$	χ^2_{BAO}	6.54	$7.1 (\nu: 0.7)$
$\Omega_m h^2$	0.1425	$0.1437^{+0.0085}_{-0.0082}$	$H(0.15)$	74.26	$74.3^{+2.8}_{-2.7}$			

Best-fit $\chi^2_{\text{eff}} = 3821.27$; $\bar{\chi}^2_{\text{eff}} = 3851.33$; $R - 1 = 0.00441$

χ^2_{eff} : BAO - 6DF: 0.07 MGS: 2.51 DR12BAO: 3.95 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.11 small_100x143_offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3_2_29: 22.38 plik_rd12_HM_v22b_TTTEEE: 2344.32 Hubble - H073p45: 5.65 SN - JLA Pantheon18: 1035.46

13.2 base_nrun_nnu_w_mnu_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00048}_{-0.00048}$	$\Omega_{\nu}h^2$	< 0.00229	$D_{\mathrm{M}}(0.15)$	626^{+24}_{-23}
$\Omega_{\mathrm{c}}h^2$	$0.1205^{+0.0081}_{-0.0076}$	$\Omega_{\mathrm{m}}h^3$	$0.1000^{+0.0091}_{-0.0086}$	$H(0.38)$	$83.8^{+3.2}_{-3.1}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0011}$	σ_8	$0.829^{+0.032}_{-0.033}$	$D_{\mathrm{M}}(0.38)$	1503^{+56}_{-54}
τ	$0.056^{+0.019}_{-0.014}$	S_8	$0.824^{+0.029}_{-0.030}$	$H(0.51)$	$90.2^{+3.4}_{-3.4}$
$\Sigma m_{\nu} [\mathrm{eV}]$	< 0.215	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.51)$	1951^{+72}_{-70}
w_0	$-1.052^{+0.087}_{-0.095}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.021}_{-0.021}$	$H(0.61)$	$95.7^{+3.7}_{-3.6}$
N_{eff}	$3.11^{+0.50}_{-0.48}$	$\sigma_8/h^{0.5}$	$0.994^{+0.029}_{-0.033}$	$D_{\mathrm{M}}(0.61)$	2274^{+83}_{-82}
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.044}_{-0.035}$	$r_{\mathrm{drag}}h$	$102.0^{+2.9}_{-2.9}$	$H(2.33)$	$236.5^{+7.5}_{-7.3}$
n_{s}	$0.968^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.062}_{-0.058}$	$D_{\mathrm{M}}(2.33)$	5727^{+200}_{-190}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.004^{+0.019}_{-0.019}$	z_{re}	< 9.63	$f\sigma_8(0.15)$	$0.461^{+0.017}_{-0.017}$
y_{cal}	$1.0006^{+0.0062}_{-0.0063}$	$10^9 A_{\mathrm{s}}$	$2.112^{+0.095}_{-0.073}$	$\sigma_8(0.15)$	$0.767^{+0.030}_{-0.031}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.887^{+0.042}_{-0.043}$	$f\sigma_8(0.38)$	$0.485^{+0.020}_{-0.020}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1219^{+47}_{-45}	$\sigma_8(0.38)$	$0.681^{+0.027}_{-0.028}$
A_{143}^{tSZ}	—	D_{220}	5736^{+97}_{-98}	$f\sigma_8(0.51)$	$0.486^{+0.021}_{-0.020}$
A_{100}^{PS}	262^{+70}_{-70}	D_{810}	2541^{+34}_{-35}	$\sigma_8(0.51)$	$0.637^{+0.025}_{-0.026}$
A_{143}^{PS}	47^{+20}_{-20}	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.61)$	$0.482^{+0.021}_{-0.020}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$230.3^{+4.8}_{-4.8}$	$\sigma_8(0.61)$	$0.606^{+0.024}_{-0.025}$
A_{217}^{PS}	114^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.979^{+0.053}_{-0.053}$	$f\sigma_8(2.33)$	$0.306^{+0.012}_{-0.012}$
A^{kSZ}	—	Y_{P}	$0.2463^{+0.0066}_{-0.0067}$	$\sigma_8(2.33)$	$0.314^{+0.013}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.8}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2476^{+0.0066}_{-0.0067}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143}^{\mathrm{dust}TT}$	$11.0^{+4.6}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.59^{+0.13}_{-0.13}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.7^{+8.4}_{-8.3}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.69^{+0.46}_{-0.45}$	f_{2000}^{217}	$107.7^{+5.2}_{-5.3}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.88^{+0.96}_{-0.92}$	$\chi_{\mathrm{lensing}}^2$	$9.46 (\nu: 0.3)$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.097}_{-0.095}$	r_*	$143.9^{+4.7}_{-4.5}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.075}$	$100\theta_*$	$1.0410^{+0.0015}_{-0.0014}$	χ_{lowl}^2	$22.5 (\nu: 1.2)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.83^{+0.43}_{-0.42}$	χ_{plik}^2	$2361.5 (\nu: 21.0)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.3^{+1.8}_{-1.8}$	$\chi_{\mathrm{H073p45}}^2$	$5.8 (\nu: 4.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$146.5^{+4.8}_{-4.7}$	χ_{JLA}^2	$1036.3 (\nu: 1.5)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.70}_{-0.69}$	k_{D}	$0.1413^{+0.0035}_{-0.0034}$	$\chi_{6\mathrm{DF}}^2$	$0.09 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0012}_{-0.0011}$	χ_{MGS}^2	$2.42 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3389^{+72}_{-74}	$\chi_{\mathrm{DR12BAO}}^2$	$4.54 (\nu: 0.4)$
H_0	$69.6^{+2.8}_{-2.7}$	k_{eq}	$0.01039^{+0.00029}_{-0.00028}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{Λ}	$0.703^{+0.017}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013}$	χ_{CMB}^2	$2790.4 (\nu: 22.4)$
Ω_{m}	$0.297^{+0.018}_{-0.017}$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0073}_{-0.0067}$	χ_{BAO}^2	$7.1 (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1437^{+0.0085}_{-0.0081}$	$H(0.15)$	$74.3^{+2.8}_{-2.7}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3851.17; R - 1 = 0.00442$$

14 nrun+nrnunrun

14.1 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022332	$0.02234^{+0.00042}_{-0.00043}$	$\Omega_m h^2$	0.14367	$0.1436^{+0.0037}_{-0.0034}$	$100\theta_{\text{eq}}$	0.8103	$0.811^{+0.016}_{-0.017}$
$\Omega_c h^2$	0.12070	$0.1206^{+0.0040}_{-0.0036}$	$\Omega_m h^3$	0.09633	$0.09636^{+0.00082}_{-0.00078}$	$100\theta_{\text{s,eq}}$	0.4479	$0.4480^{+0.0080}_{-0.0085}$
$100\theta_{\text{MC}}$	1.04082	$1.04086^{+0.00080}_{-0.00078}$	σ_8	0.8178	$0.817^{+0.023}_{-0.022}$	$H(0.15)$	72.42	$72.5^{+1.4}_{-1.5}$
τ	0.0570	$0.058^{+0.025}_{-0.022}$	S_8	0.8441	$0.843^{+0.048}_{-0.045}$	$D_{\text{M}}(0.15)$	646.0	646^{+15}_{-14}
$\ln(10^{10} A_{\text{s}})$	3.0513	$3.053^{+0.050}_{-0.044}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4623	$0.462^{+0.026}_{-0.025}$	$H(0.38)$	82.68	$82.7^{+1.0}_{-1.0}$
n_{s}	0.9624	$0.961^{+0.013}_{-0.014}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6149	$0.614^{+0.025}_{-0.024}$	$D_{\text{M}}(0.38)$	1538.7	1538^{+30}_{-28}
$\text{d}n_{\text{s}}/\text{d} \ln k$	0.0053	$0.001^{+0.026}_{-0.026}$	$\sigma_8/h^{0.5}$	0.9987	$0.997^{+0.036}_{-0.035}$	$H(0.51)$	89.48	$89.51^{+0.81}_{-0.82}$
$\text{d}^2 n_{\text{s}}/\text{d} \ln k^2$	0.0139	$0.012^{+0.032}_{-0.035}$	$r_{\text{drag}} h$	98.53	$98.6^{+2.8}_{-3.1}$	$D_{\text{M}}(0.51)$	1992.0	1991^{+35}_{-32}
y_{cal}	1.0005	$1.0006^{+0.0062}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.446^{+0.074}_{-0.072}$	$H(0.61)$	95.17	$95.20^{+0.66}_{-0.65}$
A_{217}^{CIB}	45.2	47^{+20}_{-20}	z_{re}	7.98	$8.0^{+2.4}_{-2.3}$	$D_{\text{M}}(0.61)$	2316.9	2316^{+38}_{-35}
$\xi^{\text{tSZ}} \times \text{CIB}$	0.70	—	$10^9 A_{\text{s}}$	2.114	$2.12^{+0.11}_{-0.091}$	$H(2.33)$	236.97	$237.0^{+2.4}_{-2.2}$
A_{143}^{tSZ}	7.08	$5.4^{+4.5}_{-4.6}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8864	$1.887^{+0.031}_{-0.030}$	$D_{\text{M}}(2.33)$	5768.0	5767^{+31}_{-30}
A_{100}^{PS}	247	259^{+70}_{-70}	D_{40}	1221.4	1218^{+48}_{-47}	$f\sigma_8(0.15)$	0.4663	$0.465^{+0.024}_{-0.023}$
A_{143}^{PS}	49.0	45^{+20}_{-20}	D_{220}	5739	5740^{+96}_{-100}	$\sigma_8(0.15)$	0.7549	$0.754^{+0.021}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	52.6	41^{+20}_{-20}	D_{810}	2540.2	2539^{+36}_{-34}	$f\sigma_8(0.38)$	0.4829	$0.482^{+0.020}_{-0.019}$
A_{217}^{PS}	121.3	114^{+20}_{-30}	D_{1420}	818.9	817^{+13}_{-12}	$\sigma_8(0.38)$	0.6683	$0.668^{+0.018}_{-0.016}$
A^{kSZ}	0.0	—	D_{2000}	232.2	$231.2^{+5.3}_{-5.2}$	$f\sigma_8(0.51)$	0.4806	$0.480^{+0.018}_{-0.017}$
A_{100}^{dustTT}	8.80	$8.9^{+4.8}_{-4.7}$	$n_{\text{s},0.002}$	1.017	$1.02^{+0.11}_{-0.12}$	$\sigma_8(0.51)$	0.6250	$0.624^{+0.017}_{-0.015}$
A_{143}^{dustTT}	11.05	$10.9^{+4.8}_{-4.6}$	Y_{P}	0.245380	$0.24538^{+0.00016}_{-0.00018}$	$f\sigma_8(0.61)$	0.4749	$0.474^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.5^{+8.4}_{-8.3}$	$Y_{\text{P}}^{\text{BBN}}$	0.246707	$0.24671^{+0.00016}_{-0.00019}$	$\sigma_8(0.61)$	0.5945	$0.594^{+0.016}_{-0.014}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.593	$2.591^{+0.081}_{-0.076}$	$f\sigma_8(2.33)$	0.2994	$0.2992^{+0.0080}_{-0.0070}$
A_{100}^{dustTE}	0.115	$0.115^{+0.096}_{-0.098}$	Age/Gyr	13.807	$13.804^{+0.069}_{-0.067}$	$\sigma_8(2.33)$	0.3084	$0.3081^{+0.0085}_{-0.0073}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.075}$	z_*	1090.03	$1090.01^{+0.79}_{-0.75}$	f_{2000}^{143}	27.5	29^{+9}_{-9}
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	r_*	144.28	$144.29^{+0.80}_{-0.88}$	$f_{2000}^{143 \times 217}$	31.0	32^{+6}_{-6}
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04101	$1.04104^{+0.00078}_{-0.00076}$	f_{2000}^{217}	105.6	$106.7^{+6.0}_{-5.8}$
$A_{143 \times 217}^{\text{dustTE}}$	0.668	$0.67^{+0.20}_{-0.20}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.860	$13.860^{+0.074}_{-0.081}$	χ_{simall}^2	396.4	$397.5 (\nu: 2.1)$
A_{217}^{dustTE}	2.09	$2.10^{+0.70}_{-0.71}$	z_{drag}	1059.89	$1059.92^{+0.85}_{-0.87}$	χ_{lowl}^2	21.69	$22.4 (\nu: 1.1)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	146.95	$146.95^{+0.79}_{-0.86}$	χ_{plik}^2	2344.6	$2360.7 (\nu: 17.5)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14099	$0.14099^{+0.00090}_{-0.00087}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.4)$
H_0	67.05	$67.1^{+1.6}_{-1.8}$	$100\theta_{\text{D}}$	0.160775	$0.16077^{+0.00050}_{-0.00049}$	χ_{CMB}^2	2762.7	$2780.6 (\nu: 18.7)$
Ω_{Λ}	0.6804	$0.681^{+0.022}_{-0.026}$	z_{eq}	3418	3417^{+89}_{-81}			
Ω_{m}	0.3196	$0.319^{+0.026}_{-0.022}$	k_{eq}	0.010432	$0.01043^{+0.00027}_{-0.00025}$			

Best-fit $\chi_{\text{eff}}^2 = 2764.20$; $\bar{\chi}_{\text{eff}}^2 = 2792.05$; $R - 1 = 0.02103$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.42 commander_dx12_v3.2.29: 21.69 plik_rd12_HM_v22b_TTTEE: 2344.61

14.2 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022418	$0.02243^{+0.00036}_{-0.00037}$	$\Omega_m h^3$	0.09639	$0.09638^{+0.00079}_{-0.00077}$	$H(0.15)$	72.87	$72.9^{+1.0}_{-1.0}$
$\Omega_c h^2$	0.11958	$0.1195^{+0.0027}_{-0.0025}$	σ_8	0.8146	$0.814^{+0.024}_{-0.022}$	$D_M(0.15)$	641.5	641^{+10}_{-10}
$100\theta_{MC}$	1.04101	$1.04100^{+0.00074}_{-0.00072}$	S_8	0.8313	$0.830^{+0.036}_{-0.036}$	$H(0.38)$	83.00	$83.03^{+0.76}_{-0.77}$
τ	0.0586	$0.059^{+0.025}_{-0.021}$	$\sigma_8 \Omega_m^{0.5}$	0.4553	$0.454^{+0.020}_{-0.020}$	$D_M(0.38)$	1529.8	1529^{+21}_{-20}
$\ln(10^{10} A_s)$	3.0524	$3.053^{+0.053}_{-0.041}$	$\sigma_8 \Omega_m^{0.25}$	0.6090	$0.608^{+0.021}_{-0.021}$	$H(0.51)$	89.74	$89.75^{+0.61}_{-0.61}$
n_s	0.9652	$0.964^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	0.9910	$0.990^{+0.032}_{-0.031}$	$D_M(0.51)$	1981.5	1981^{+24}_{-23}
$dn_s/d \ln k$	0.0033	$0.000^{+0.027}_{-0.027}$	$r_{drag} h$	99.43	$99.5^{+2.0}_{-2.0}$	$H(0.61)$	95.37	$95.38^{+0.52}_{-0.51}$
$d^2 n_s/d \ln k^2$	0.0112	$0.009^{+0.034}_{-0.035}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.432^{+0.067}_{-0.066}$	$D_M(0.61)$	2305.7	2305^{+26}_{-25}
y_{cal}	1.0006	$1.0007^{+0.0062}_{-0.0061}$	z_{re}	8.09	$8.1^{+2.4}_{-2.2}$	$H(2.33)$	236.34	$236.3^{+1.6}_{-1.6}$
A_{217}^{CIB}	45.9	47^{+20}_{-20}	$10^9 A_s$	2.117	$2.12^{+0.12}_{-0.086}$	$D_M(2.33)$	5759.5	5759^{+24}_{-24}
$\xi^{tSZ \times CIB}$	0.58	—	$10^9 A_s e^{-2\tau}$	1.8826	$1.882^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	0.4599	$0.459^{+0.019}_{-0.019}$
A_{143}^{tSZ}	7.19	> 0.943	D_{40}	1216.6	1215^{+48}_{-47}	$\sigma_8(0.15)$	0.7527	$0.752^{+0.022}_{-0.019}$
A_{100}^{PS}	248	259^{+70}_{-70}	D_{220}	5744	5744^{+98}_{-100}	$f\sigma_8(0.38)$	0.4781	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	47.3	45^{+20}_{-20}	D_{810}	2540.6	2540^{+36}_{-34}	$\sigma_8(0.38)$	0.6671	$0.666^{+0.019}_{-0.016}$
$A_{143 \times 217}^{PS}$	49.7	41^{+20}_{-20}	D_{1420}	819.3	818^{+13}_{-12}	$f\sigma_8(0.51)$	0.4766	$0.476^{+0.016}_{-0.015}$
A_{217}^{PS}	120.5	114^{+30}_{-30}	D_{2000}	232.2	$231.4^{+5.9}_{-5.1}$	$\sigma_8(0.51)$	0.6242	$0.624^{+0.018}_{-0.014}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	1.013	$1.01^{+0.12}_{-0.11}$	$f\sigma_8(0.61)$	0.4715	$0.471^{+0.015}_{-0.014}$
A_{100}^{dustTT}	8.83	$8.9^{+4.8}_{-4.5}$	Y_P	0.245414	$0.24542^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	0.5939	$0.593^{+0.017}_{-0.014}$
A_{143}^{dustTT}	11.06	$10.9^{+4.5}_{-4.7}$	Y_P^{BBN}	0.246741	$0.24674^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.2994	$0.2992^{+0.0084}_{-0.0067}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.5^{+8.2}_{-8.3}$	$10^5 D/H$	2.577	$2.575^{+0.071}_{-0.064}$	$\sigma_8(2.33)$	0.3087	$0.3084^{+0.0087}_{-0.0072}$
A_{217}^{dustTT}	95.4	93^{+20}_{-20}	Age/Gyr	13.788	$13.787^{+0.055}_{-0.053}$	f_{2000}^{143}	27.7	29^{+9}_{-9}
A_{100}^{dustTE}	0.114	$0.114^{+0.093}_{-0.095}$	z_*	1089.82	$1089.80^{+0.61}_{-0.57}$	$f_{2000}^{143 \times 217}$	31.2	32^{+6}_{-6}
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.081}_{-0.073}$	r_*	144.50	$144.52^{+0.62}_{-0.63}$	f_{2000}^{217}	105.9	$106.7^{+6.5}_{-5.6}$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04119	$1.04118^{+0.00073}_{-0.00071}$	χ_{simall}^2	396.6	$397.7 (\nu: 2.7)$
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.879	$13.880^{+0.058}_{-0.060}$	χ_{lowl}^2	21.44	$22.2 (\nu: 1.2)$
$A_{143 \times 217}^{dustTE}$	0.666	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.01	$1060.03^{+0.78}_{-0.79}$	χ_{plik}^2	2345.1	$2360.9 (\nu: 18.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.73}$	r_{drag}	147.15	$147.16^{+0.64}_{-0.65}$	χ_{6DF}^2	0.047	$0.068 (\nu: 0.0)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14084	$0.14084^{+0.00077}_{-0.00079}$	χ_{MGS}^2	1.10	$1.19 (\nu: 0.1)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160720	$0.16071^{+0.00048}_{-0.00045}$	$\chi_{DR12BAO}^2$	4.82	$5.1 (\nu: 1.3)$
H_0	67.57	$67.6^{+1.2}_{-1.2}$	z_{eq}	3393	3391^{+61}_{-59}	χ_{prior}^2	1.6	$11.5 (\nu: 9.9)$
Ω_Λ	0.6876	$0.688^{+0.016}_{-0.017}$	k_{eq}	0.010357	$0.01035^{+0.00019}_{-0.00018}$	χ_{BAO}^2	5.97	$6.4 (\nu: 0.9)$
Ω_m	0.3124	$0.312^{+0.017}_{-0.016}$	$100\theta_{eq}$	0.8151	$0.815^{+0.011}_{-0.011}$	χ_{CMB}^2	2763.2	$2780.9 (\nu: 18.6)$
$\Omega_m h^2$	0.14264	$0.1426^{+0.0026}_{-0.0025}$	$100\theta_{s,eq}$	0.4503	$0.4505^{+0.0058}_{-0.0058}$			

Best-fit $\chi_{eff}^2 = 2770.78$; $\bar{\chi}_{eff}^2 = 2798.78$; $R - 1 = 0.02726$

χ_{eff}^2 : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.83 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.62 commander_dx12_v3_2_29: 21.44 plik_rd12_HM_v22b_TTTEE: 2345.10

14.3 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.022365	$0.02237^{+0.00041}_{-0.00040}$	$\Omega_{\text{m}}h^2$	0.14319	$0.1432^{+0.0029}_{-0.0030}$	$100\theta_{\text{eq}}$	0.8125	$0.813^{+0.014}_{-0.013}$
$\Omega_{\text{c}}h^2$	0.12018	$0.1202^{+0.0031}_{-0.0031}$	$\Omega_{\text{m}}h^3$	0.09634	$0.09634^{+0.00080}_{-0.00076}$	$100\theta_{\text{s,eq}}$	0.4490	$0.4490^{+0.0070}_{-0.0066}$
$100\theta_{\text{MC}}$	1.04091	$1.04090^{+0.00077}_{-0.00073}$	σ_8	0.8152	$0.814^{+0.018}_{-0.017}$	$H(0.15)$	72.62	$72.6^{+1.2}_{-1.2}$
τ	0.0564	$0.056^{+0.023}_{-0.021}$	S_8	0.8371	$0.836^{+0.035}_{-0.034}$	$D_{\text{M}}(0.15)$	644.0	644^{+12}_{-12}
$\ln(10^{10}A_{\text{s}})$	3.0482	$3.049^{+0.043}_{-0.038}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4585	$0.458^{+0.019}_{-0.019}$	$H(0.38)$	82.82	$82.83^{+0.89}_{-0.88}$
n_{s}	0.9639	$0.963^{+0.012}_{-0.013}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.6114	$0.611^{+0.018}_{-0.018}$	$D_{\text{M}}(0.38)$	1534.7	1535^{+25}_{-24}
$\text{d}n_{\text{s}}/\text{d}\ln k$	0.0057	$0.002^{+0.027}_{-0.025}$	$\sigma_8/h^{0.5}$	0.9939	$0.993^{+0.026}_{-0.025}$	$H(0.51)$	89.59	$89.60^{+0.72}_{-0.70}$
$\text{d}^2n_{\text{s}}/\text{d}\ln k^2$	0.0129	$0.010^{+0.033}_{-0.035}$	$r_{\text{drag}}h$	98.94	$98.9^{+2.5}_{-2.4}$	$D_{\text{M}}(0.51)$	1987.3	1987^{+29}_{-28}
y_{cal}	1.0002	$1.0005^{+0.0063}_{-0.0061}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.439^{+0.058}_{-0.057}$	$H(0.61)$	95.25	$95.26^{+0.60}_{-0.56}$
A_{217}^{CIB}	45.3	47^{+20}_{-20}	z_{re}	7.90	$7.9^{+2.1}_{-2.2}$	$D_{\text{M}}(0.61)$	2311.9	2312^{+31}_{-30}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.70	—	$10^9 A_{\text{s}}$	2.108	$2.110^{+0.092}_{-0.079}$	$H(2.33)$	236.67	$236.7^{+1.9}_{-1.9}$
A_{143}^{tSZ}	7.1	—	$10^9 A_{\text{s}} e^{-2\tau}$	1.8830	$1.884^{+0.028}_{-0.028}$	$D_{\text{M}}(2.33)$	5764.4	5764^{+27}_{-28}
A_{100}^{PS}	246	259^{+70}_{-70}	D_{40}	1220.7	1219^{+46}_{-45}	$f\sigma_8(0.15)$	0.4627	$0.462^{+0.018}_{-0.018}$
A_{143}^{PS}	48.6	45^{+20}_{-20}	D_{220}	5738	5740^{+96}_{-99}	$\sigma_8(0.15)$	0.7528	$0.752^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	52.4	41^{+20}_{-20}	D_{810}	2538.6	2538^{+36}_{-33}	$f\sigma_8(0.38)$	0.4801	$0.479^{+0.014}_{-0.014}$
A_{217}^{PS}	121.0	114^{+20}_{-30}	D_{1420}	818.9	817^{+13}_{-12}	$\sigma_8(0.38)$	0.6668	$0.666^{+0.014}_{-0.013}$
A^{kSZ}	0.0	—	D_{2000}	232.2	$231.2^{+5.6}_{-5.0}$	$f\sigma_8(0.51)$	0.4781	$0.477^{+0.013}_{-0.013}$
$A_{100}^{\text{dust}TT}$	8.81	$8.9^{+4.7}_{-4.6}$	$n_{\text{s},0.002}$	1.012	$1.01^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6238	$0.623^{+0.014}_{-0.012}$
$A_{143}^{\text{dust}TT}$	10.97	$10.9^{+4.6}_{-4.6}$	Y_{P}	0.245394	$0.24539^{+0.00015}_{-0.00017}$	$f\sigma_8(0.61)$	0.4727	$0.472^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{dust}TT}$	20.0	$18.5^{+8.4}_{-8.3}$	$Y_{\text{P}}^{\text{BBN}}$	0.246720	$0.24672^{+0.00015}_{-0.00017}$	$\sigma_8(0.61)$	0.5934	$0.593^{+0.013}_{-0.012}$
$A_{217}^{\text{dust}TT}$	95.4	94^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.586	$2.587^{+0.075}_{-0.073}$	$f\sigma_8(2.33)$	0.2990	$0.2986^{+0.0067}_{-0.0062}$
$A_{100}^{\text{dust}TE}$	0.115	$0.114^{+0.096}_{-0.096}$	Age/Gyr	13.799	$13.799^{+0.061}_{-0.062}$	$\sigma_8(2.33)$	0.3081	$0.3077^{+0.0072}_{-0.0065}$
$A_{100 \times 143}^{\text{dust}TE}$	0.135	$0.135^{+0.077}_{-0.074}$	z_*	1089.94	$1089.94^{+0.70}_{-0.68}$	f_{2000}^{143}	27.3	29^{+9}_{-9}
$A_{100 \times 217}^{\text{dust}TE}$	0.484	$0.48^{+0.22}_{-0.22}$	r_*	144.39	$144.39^{+0.71}_{-0.70}$	$f_{2000}^{143 \times 217}$	30.9	32^{+6}_{-7}
$A_{143}^{\text{dust}TE}$	0.224	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04109	$1.04108^{+0.00075}_{-0.00072}$	f_{2000}^{217}	105.5	$106.6^{+6.2}_{-5.6}$
$A_{143 \times 217}^{\text{dust}TE}$	0.668	$0.67^{+0.20}_{-0.21}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.869	$13.869^{+0.065}_{-0.065}$	χ_{lensing}^2	8.98	$9.47 (\nu: 0.4)$
$A_{217}^{\text{dust}TE}$	2.09	$2.09^{+0.71}_{-0.72}$	z_{drag}	1059.93	$1059.94^{+0.83}_{-0.81}$	χ_{simall}^2	396.28	$397.2 (\nu: 1.4)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.05	$147.05^{+0.72}_{-0.70}$	χ_{lowl}^2	21.70	$22.5 (\nu: 1.3)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14091	$0.14091^{+0.00078}_{-0.00085}$	χ_{plik}^2	2344.9	$2360.5 (\nu: 16.3)$
H_0	67.28	$67.3^{+1.4}_{-1.4}$	$100\theta_{\text{D}}$	0.160757	$0.16075^{+0.00049}_{-0.00047}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.1)$
Ω_{Λ}	0.6837	$0.684^{+0.019}_{-0.020}$	z_{eq}	3406	3407^{+70}_{-72}	χ_{CMB}^2	2771.8	$2789.6 (\nu: 18.4)$
Ω_{m}	0.3163	$0.316^{+0.020}_{-0.019}$	k_{eq}	0.010396	$0.01040^{+0.00021}_{-0.00022}$			

Best-fit $\chi_{\text{eff}}^2 = 2773.34$; $\bar{\chi}_{\text{eff}}^2 = 2801.12$; $R - 1 = 0.02893$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.98 simall_100x143_offlike5_EE_Aplanck_B: 396.28 commander_dx12_v3.2_29: 21.70 plik_rd12_HM_v22b_TTTEEE: 2344.88

14.4 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02243^{+0.00036}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.09637^{+0.00076}_{-0.00076}$	$H(0.15)$	$72.93^{+0.97}_{-0.97}$
$\Omega_{\mathrm{c}}h^2$	$0.1194^{+0.0025}_{-0.0024}$	σ_8	$0.813^{+0.019}_{-0.017}$	$D_{\mathrm{M}}(0.15)$	$640.9^{+9.7}_{-9.4}$
$100\theta_{\mathrm{MC}}$	$1.04100^{+0.00074}_{-0.00071}$	S_8	$0.828^{+0.030}_{-0.028}$	$H(0.38)$	$83.05^{+0.72}_{-0.72}$
τ	$0.059^{+0.022}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1529^{+19}_{-19}
$\ln(10^{10}A_{\mathrm{s}})$	$3.052^{+0.042}_{-0.037}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.016}_{-0.016}$	$H(0.51)$	$89.77^{+0.60}_{-0.58}$
n_{s}	$0.965^{+0.010}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.989^{+0.024}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1980^{+23}_{-23}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.001^{+0.027}_{-0.025}$	$r_{\mathrm{drag}}h$	$99.6^{+1.9}_{-1.9}$	$H(0.61)$	$95.39^{+0.50}_{-0.48}$
$\mathrm{d}^2n_{\mathrm{s}}/\mathrm{d}\ln k^2$	$0.009^{+0.033}_{-0.034}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.056}_{-0.056}$	$D_{\mathrm{M}}(0.61)$	2304^{+25}_{-25}
y_{cal}	$1.0007^{+0.0062}_{-0.0061}$	z_{re}	$8.1^{+2.0}_{-2.0}$	$H(2.33)$	$236.2^{+1.5}_{-1.5}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.117^{+0.091}_{-0.077}$	$D_{\mathrm{M}}(2.33)$	5759^{+23}_{-23}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.028}_{-0.029}$	$f\sigma_8(0.15)$	$0.458^{+0.015}_{-0.015}$
A_{143}^{tSZ}	> 0.943	D_{40}	1217^{+47}_{-47}	$\sigma_8(0.15)$	$0.751^{+0.017}_{-0.015}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5745^{+97}_{-100}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+35}_{-35}	$\sigma_8(0.38)$	$0.666^{+0.015}_{-0.013}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$231.5^{+5.9}_{-5.1}$	$\sigma_8(0.51)$	$0.623^{+0.014}_{-0.012}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$1.01^{+0.11}_{-0.12}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.5}$	Y_{P}	$0.24542^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.593^{+0.014}_{-0.012}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2990^{+0.0069}_{-0.0060}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+7.8}_{-8.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.575^{+0.071}_{-0.064}$	$\sigma_8(2.33)$	$0.3083^{+0.0075}_{-0.0063}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.053}_{-0.052}$	f_{2000}^{143}	29^{+9}_{-9}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.095}_{-0.095}$	z_*	$1089.79^{+0.60}_{-0.57}$	$f_{2000}^{143\times 217}$	32^{+6}_{-7}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.080}_{-0.073}$	r_*	$144.54^{+0.59}_{-0.58}$	f_{2000}^{217}	$106.6^{+6.3}_{-5.5}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04118^{+0.00072}_{-0.00069}$	$\chi_{\mathrm{lensing}}^2$	$9.21\ (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.883^{+0.054}_{-0.056}$	χ_{small}^2	$397.5\ (\nu: 1.9)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1060.03^{+0.78}_{-0.82}$	χ_{lowl}^2	$22.3\ (\nu: 1.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.73}$	r_{drag}	$147.19^{+0.61}_{-0.61}$	χ_{plik}^2	$2360.7\ (\nu: 16.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14081^{+0.00075}_{-0.00077}$	$\chi_{6\mathrm{DF}}^2$	$0.059\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00049}_{-0.00045}$	χ_{MGS}^2	$1.22\ (\nu: 0.1)$
H_0	$67.6^{+1.1}_{-1.1}$	z_{eq}	3389^{+56}_{-55}	$\chi_{\mathrm{DR12BAO}}^2$	$5.0\ (\nu: 1.0)$
Ω_{Λ}	$0.689^{+0.014}_{-0.015}$	k_{eq}	$0.01034^{+0.00017}_{-0.00017}$	χ_{prior}^2	$11.5\ (\nu: 9.8)$
Ω_{m}	$0.311^{+0.015}_{-0.014}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.010}_{-0.010}$	χ_{CMB}^2	$2789.8\ (\nu: 18.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1425^{+0.0023}_{-0.0023}$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0054}_{-0.0053}$	χ_{BAO}^2	$6.2\ (\nu: 0.7)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.58; R - 1 = 0.02956$$

14.5 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00042}_{-0.00043}$	$\Omega_{\mathrm{m}}h^2$	$0.1436^{+0.0037}_{-0.0034}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.016}_{-0.017}$
$\Omega_{\mathrm{c}}h^2$	$0.1206^{+0.0040}_{-0.0036}$	$\Omega_{\mathrm{m}}h^3$	$0.09636^{+0.00081}_{-0.00078}$	$100\theta_{\mathrm{s,eq}}$	$0.4480^{+0.0080}_{-0.0085}$
$100\theta_{\mathrm{MC}}$	$1.04086^{+0.00080}_{-0.00079}$	σ_8	$0.817^{+0.023}_{-0.020}$	$H(0.15)$	$72.5^{+1.4}_{-1.5}$
τ	$0.058^{+0.023}_{-0.017}$	S_8	$0.843^{+0.048}_{-0.044}$	$D_{\mathrm{M}}(0.15)$	646^{+15}_{-14}
$\ln(10^{10}A_{\mathrm{s}})$	$3.054^{+0.049}_{-0.034}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.462^{+0.026}_{-0.024}$	$H(0.38)$	$82.7^{+1.0}_{-1.1}$
n_{s}	$0.961^{+0.013}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.025}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1538^{+30}_{-27}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.001^{+0.026}_{-0.026}$	$\sigma_8/h^{0.5}$	$0.998^{+0.035}_{-0.033}$	$H(0.51)$	$89.52^{+0.81}_{-0.83}$
$\mathrm{d}^2n_{\mathrm{s}}/\mathrm{d}\ln k^2$	$0.012^{+0.032}_{-0.035}$	$r_{\mathrm{drag}}h$	$98.6^{+2.8}_{-3.1}$	$D_{\mathrm{M}}(0.51)$	1991^{+35}_{-32}
y_{cal}	$1.0005^{+0.0062}_{-0.0062}$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.074}_{-0.069}$	$H(0.61)$	$95.20^{+0.66}_{-0.65}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 10.1	$D_{\mathrm{M}}(0.61)$	2316^{+38}_{-35}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	10^9A_{s}	$2.12^{+0.10}_{-0.077}$	$H(2.33)$	$236.9^{+2.4}_{-2.1}$
A_{143}^{tSZ}	$5.4^{+4.5}_{-4.6}$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.887^{+0.031}_{-0.030}$	$D_{\mathrm{M}}(2.33)$	5767^{+31}_{-30}
A_{100}^{PS}	259^{+70}_{-70}	D_{40}	1218^{+48}_{-47}	$f\sigma_8(0.15)$	$0.466^{+0.024}_{-0.023}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5740^{+96}_{-100}	$\sigma_8(0.15)$	$0.755^{+0.020}_{-0.017}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{810}	2539^{+36}_{-34}	$f\sigma_8(0.38)$	$0.482^{+0.020}_{-0.019}$
A_{217}^{PS}	114^{+20}_{-30}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.38)$	$0.668^{+0.018}_{-0.014}$
A^{kSZ}	—	D_{2000}	$231.2^{+5.3}_{-5.2}$	$f\sigma_8(0.51)$	$0.480^{+0.018}_{-0.017}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$n_{\mathrm{s},0.002}$	$1.02^{+0.11}_{-0.12}$	$\sigma_8(0.51)$	$0.625^{+0.016}_{-0.013}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.8}_{-4.6}$	Y_{P}	$0.24538^{+0.00016}_{-0.00019}$	$f\sigma_8(0.61)$	$0.475^{+0.016}_{-0.015}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.4}_{-8.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00016}_{-0.00019}$	$\sigma_8(0.61)$	$0.594^{+0.016}_{-0.012}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.591^{+0.082}_{-0.076}$	$f\sigma_8(2.33)$	$0.2994^{+0.0079}_{-0.0058}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.096}_{-0.099}$	Age/Gyr	$13.804^{+0.069}_{-0.067}$	$\sigma_8(2.33)$	$0.3083^{+0.0083}_{-0.0060}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.075}_{-0.076}$	z_*	$1090.01^{+0.79}_{-0.74}$	f_{2000}^{143}	29^{+9}_{-9}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.29^{+0.80}_{-0.88}$	$f_{2000}^{143\times 217}$	32^{+6}_{-6}
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.04105^{+0.00079}_{-0.00077}$	f_{2000}^{217}	$106.7^{+6.0}_{-5.8}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.860^{+0.074}_{-0.081}$	χ_{small}^2	$397.5\,(\nu: 2.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.10^{+0.69}_{-0.72}$	z_{drag}	$1059.93^{+0.85}_{-0.87}$	χ_{lowl}^2	$22.4\,(\nu: 1.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$146.96^{+0.79}_{-0.86}$	χ_{plik}^2	$2360.5\,(\nu: 17.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14099^{+0.00090}_{-0.00088}$	χ_{prior}^2	$11.4\,(\nu: 10.3)$
H_0	$67.1^{+1.6}_{-1.8}$	$100\theta_{\mathrm{D}}$	$0.16076^{+0.00050}_{-0.00049}$	χ_{CMB}^2	$2780.4\,(\nu: 18.3)$
Ω_{Λ}	$0.681^{+0.022}_{-0.026}$	z_{eq}	3417^{+89}_{-81}		
Ω_{m}	$0.319^{+0.026}_{-0.022}$	k_{eq}	$0.01043^{+0.00027}_{-0.00025}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2791.89; R - 1 = 0.02012$$

14.6 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00036}_{-0.00038}$	$\Omega_m h^3$	$0.09638^{+0.00079}_{-0.00077}$	$H(0.15)$	$72.9^{+1.0}_{-1.0}$
$\Omega_c h^2$	$0.1195^{+0.0027}_{-0.0026}$	σ_8	$0.814^{+0.024}_{-0.018}$	$D_M(0.15)$	$641^{+10}_{-9.9}$
$100\theta_{MC}$	$1.04100^{+0.00075}_{-0.00071}$	S_8	$0.830^{+0.036}_{-0.034}$	$H(0.38)$	$83.03^{+0.76}_{-0.77}$
τ	$0.060^{+0.023}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.020}_{-0.018}$	$D_M(0.38)$	1529^{+21}_{-20}
$\ln(10^{10} A_s)$	$3.054^{+0.052}_{-0.035}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.021}_{-0.019}$	$H(0.51)$	$89.76^{+0.61}_{-0.61}$
n_s	$0.964^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.990^{+0.032}_{-0.028}$	$D_M(0.51)$	1981^{+24}_{-23}
$dn_s/d \ln k$	$0.000^{+0.027}_{-0.027}$	$r_{drag} h$	$99.5^{+2.0}_{-2.0}$	$H(0.61)$	$95.38^{+0.51}_{-0.51}$
$d^2 n_s/d \ln k^2$	$0.0095^{+0.033}_{-0.035}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.067}_{-0.063}$	$D_M(0.61)$	2305^{+26}_{-25}
y_{cal}	$1.0007^{+0.0063}_{-0.0061}$	z_{re}	< 10.2	$H(2.33)$	$236.3^{+1.6}_{-1.6}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.12^{+0.11}_{-0.073}$	$D_M(2.33)$	5759^{+24}_{-24}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.029}_{-0.029}$	$f\sigma_8(0.15)$	$0.459^{+0.019}_{-0.018}$
A_{143}^{tSZ}	> 0.943	D_{40}	1215^{+48}_{-47}	$\sigma_8(0.15)$	$0.752^{+0.021}_{-0.016}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5744^{+99}_{-100}	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.015}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+37}_{-34}	$\sigma_8(0.38)$	$0.667^{+0.019}_{-0.014}$
$A_{143 \times 217}^{PS}$	41^{+20}_{-20}	D_{1420}	818^{+13}_{-12}	$f\sigma_8(0.51)$	$0.476^{+0.016}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$231.4^{+6.0}_{-5.1}$	$\sigma_8(0.51)$	$0.624^{+0.017}_{-0.013}$
A^{kSZ}	—	$n_{s,0.002}$	$1.01^{+0.11}_{-0.12}$	$f\sigma_8(0.61)$	$0.471^{+0.015}_{-0.013}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	Y_P	$0.24542^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	$0.594^{+0.017}_{-0.012}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.6}$	Y_P^{BBN}	$0.24674^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2993^{+0.0083}_{-0.0058}$
$A_{143 \times 217}^{dustTT}$	$18.5^{+8.0}_{-8.3}$	$10^5 D/H$	$2.575^{+0.071}_{-0.064}$	$\sigma_8(2.33)$	$0.3086^{+0.0085}_{-0.0060}$
A_{217}^{dustTT}	93^{+20}_{-20}	Age/Gyr	$13.787^{+0.054}_{-0.053}$	f_{2000}^{143}	29^{+9}_{-9}
A_{100}^{dustTE}	$0.114^{+0.094}_{-0.095}$	z_*	$1089.80^{+0.61}_{-0.58}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.080}_{-0.073}$	r_*	$144.52^{+0.62}_{-0.63}$	f_{2000}^{217}	$106.6^{+6.2}_{-5.5}$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04118^{+0.00073}_{-0.00070}$	χ_{simall}^2	$397.7 (\nu: 2.7)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.880^{+0.058}_{-0.059}$	χ_{lowl}^2	$22.2 (\nu: 1.2)$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1060.03^{+0.78}_{-0.79}$	χ_{plik}^2	$2360.8 (\nu: 17.8)$
A_{217}^{dustTE}	$2.09^{+0.68}_{-0.74}$	r_{drag}	$147.16^{+0.64}_{-0.65}$	χ_{6DF}^2	$0.067 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0017}_{-0.0016}$	k_D	$0.14084^{+0.00077}_{-0.00079}$	χ_{MGS}^2	$1.19 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16071^{+0.00048}_{-0.00045}$	$\chi_{DR12BAO}^2$	$5.1 (\nu: 1.3)$
H_0	$67.6^{+1.2}_{-1.2}$	z_{eq}	3391^{+61}_{-59}	χ_{prior}^2	$11.5 (\nu: 9.7)$
Ω_Λ	$0.688^{+0.015}_{-0.017}$	k_{eq}	$0.01035^{+0.00019}_{-0.00018}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
Ω_m	$0.312^{+0.017}_{-0.015}$	$100\theta_{eq}$	$0.816^{+0.011}_{-0.011}$	χ_{CMB}^2	$2780.8 (\nu: 18.3)$
$\Omega_m h^2$	$0.1426^{+0.0025}_{-0.0025}$	$100\theta_{s,eq}$	$0.4505^{+0.0058}_{-0.0058}$		

$$\bar{\chi}_{eff}^2 = 2798.65; R - 1 = 0.02773$$

14.7 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02237^{+0.00040}_{-0.00039}$	$\Omega_{\mathrm{m}}h^2$	$0.1432^{+0.0029}_{-0.0030}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.013}_{-0.013}$
$\Omega_{\mathrm{c}}h^2$	$0.1201^{+0.0031}_{-0.0031}$	$\Omega_{\mathrm{m}}h^3$	$0.09634^{+0.00080}_{-0.00077}$	$100\theta_{\mathrm{s,eq}}$	$0.4491^{+0.0069}_{-0.0066}$
$100\theta_{\mathrm{MC}}$	$1.04090^{+0.00077}_{-0.00073}$	σ_8	$0.815^{+0.018}_{-0.016}$	$H(0.15)$	$72.6^{+1.2}_{-1.2}$
τ	$0.057^{+0.020}_{-0.016}$	S_8	$0.836^{+0.035}_{-0.034}$	$D_{\mathrm{M}}(0.15)$	644^{+12}_{-12}
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.042}_{-0.030}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.019}_{-0.019}$	$H(0.38)$	$82.84^{+0.90}_{-0.86}$
n_{s}	$0.963^{+0.012}_{-0.013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1534^{+24}_{-24}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.002^{+0.027}_{-0.025}$	$\sigma_8/h^{0.5}$	$0.993^{+0.026}_{-0.025}$	$H(0.51)$	$89.61^{+0.72}_{-0.68}$
$\mathrm{d}^2n_{\mathrm{s}}/\mathrm{d}\ln k^2$	$0.011^{+0.032}_{-0.034}$	$r_{\mathrm{drag}}h$	$99.0^{+2.5}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1987^{+28}_{-28}
y_{cal}	$1.0005^{+0.0063}_{-0.0061}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.058}_{-0.056}$	$H(0.61)$	$95.26^{+0.59}_{-0.55}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.75	$D_{\mathrm{M}}(0.61)$	2312^{+31}_{-31}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	10^9A_{s}	$2.112^{+0.091}_{-0.063}$	$H(2.33)$	$236.7^{+1.8}_{-1.9}$
A_{143}^{tSZ}	> 0.866	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.028}_{-0.027}$	$D_{\mathrm{M}}(2.33)$	5764^{+27}_{-28}
A_{100}^{PS}	259^{+70}_{-70}	D_{40}	1219^{+46}_{-45}	$f\sigma_8(0.15)$	$0.462^{+0.018}_{-0.018}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5740^{+97}_{-100}	$\sigma_8(0.15)$	$0.752^{+0.016}_{-0.014}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{810}	2538^{+35}_{-33}	$f\sigma_8(0.38)$	$0.480^{+0.014}_{-0.014}$
A_{217}^{PS}	114^{+20}_{-30}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.38)$	$0.666^{+0.014}_{-0.012}$
A^{kSZ}	—	D_{2000}	$231.3^{+5.6}_{-5.0}$	$f\sigma_8(0.51)$	$0.478^{+0.013}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$n_{\mathrm{s},0.002}$	$1.01^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	$0.623^{+0.014}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.4}$	Y_{P}	$0.24539^{+0.00015}_{-0.00016}$	$f\sigma_8(0.61)$	$0.472^{+0.012}_{-0.011}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.3}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	$0.593^{+0.013}_{-0.010}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.586^{+0.074}_{-0.073}$	$f\sigma_8(2.33)$	$0.2988^{+0.0066}_{-0.0053}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.096}_{-0.096}$	Age/Gyr	$13.798^{+0.060}_{-0.062}$	$\sigma_8(2.33)$	$0.3079^{+0.0071}_{-0.0055}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.074}$	z_*	$1089.93^{+0.68}_{-0.68}$	f_{2000}^{143}	29^{+9}_{-9}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.39^{+0.71}_{-0.67}$	$f_{2000}^{143\times 217}$	32^{+6}_{-7}
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.04109^{+0.00076}_{-0.00071}$	f_{2000}^{217}	$106.6^{+6.1}_{-5.7}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.870^{+0.064}_{-0.063}$	$\chi_{\mathrm{lensing}}^2$	$9.47 (\nu: 0.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.09^{+0.71}_{-0.72}$	z_{drag}	$1059.95^{+0.82}_{-0.82}$	χ_{small}^2	$397.2 (\nu: 1.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.05^{+0.73}_{-0.69}$	χ_{lowl}^2	$22.4 (\nu: 1.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14091^{+0.00078}_{-0.00084}$	χ_{plik}^2	$2360.4 (\nu: 16.1)$
H_0	$67.3^{+1.4}_{-1.4}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00049}_{-0.00047}$	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_{Λ}	$0.684^{+0.019}_{-0.020}$	z_{eq}	3406^{+69}_{-71}	χ_{CMB}^2	$2789.5 (\nu: 17.9)$
Ω_{m}	$0.316^{+0.020}_{-0.019}$	k_{eq}	$0.01039^{+0.00021}_{-0.00022}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2800.94; R - 1 = 0.02757$$

14.8 base_nrun_nrunrun_plikHM_TTTEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02243^{+0.00036}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.09637^{+0.00076}_{-0.00076}$	$H(0.15)$	$72.93^{+0.96}_{-0.97}$
$\Omega_{\mathrm{c}}h^2$	$0.1194^{+0.0025}_{-0.0024}$	σ_8	$0.813^{+0.019}_{-0.016}$	$D_{\mathrm{M}}(0.15)$	$640.9^{+9.7}_{-9.3}$
$100\theta_{\mathrm{MC}}$	$1.04100^{+0.00074}_{-0.00070}$	S_8	$0.828^{+0.029}_{-0.028}$	$H(0.38)$	$83.05^{+0.71}_{-0.71}$
τ	$0.059^{+0.021}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1528^{+19}_{-19}
$\ln(10^{10}A_{\mathrm{s}})$	$3.053^{+0.041}_{-0.032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.016}_{-0.015}$	$H(0.51)$	$89.77^{+0.59}_{-0.57}$
n_{s}	$0.965^{+0.010}_{-0.011}$	$\sigma_8/h^{0.5}$	$0.989^{+0.024}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1980^{+23}_{-23}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$0.001^{+0.027}_{-0.025}$	$r_{\mathrm{drag}}h$	$99.6^{+1.9}_{-1.9}$	$H(0.61)$	$95.39^{+0.50}_{-0.48}$
$\mathrm{d}^2n_{\mathrm{s}}/\mathrm{d}\ln k^2$	$0.009^{+0.034}_{-0.034}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.056}_{-0.054}$	$D_{\mathrm{M}}(0.61)$	2304^{+25}_{-24}
y_{cal}	$1.0007^{+0.0063}_{-0.0060}$	z_{re}	< 9.97	$H(2.33)$	$236.2^{+1.5}_{-1.5}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.118^{+0.089}_{-0.066}$	$D_{\mathrm{M}}(2.33)$	5759^{+23}_{-23}
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.027}_{-0.029}$	$f\sigma_8(0.15)$	$0.458^{+0.015}_{-0.015}$
A_{143}^{tSZ}	> 0.943	D_{40}	1217^{+47}_{-47}	$\sigma_8(0.15)$	$0.752^{+0.017}_{-0.014}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5745^{+98}_{-100}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.012}$
A_{143}^{PS}	44^{+20}_{-20}	D_{810}	2539^{+36}_{-34}	$\sigma_8(0.38)$	$0.666^{+0.015}_{-0.012}$
$A_{143\times 217}^{\mathrm{PS}}$	41^{+20}_{-20}	D_{1420}	818^{+13}_{-13}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.011}$
A_{217}^{PS}	114^{+30}_{-30}	D_{2000}	$231.5^{+5.9}_{-5.1}$	$\sigma_8(0.51)$	$0.623^{+0.014}_{-0.011}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$1.01^{+0.11}_{-0.12}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.5}$	Y_{P}	$0.24542^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.593^{+0.013}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2991^{+0.0070}_{-0.0054}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+7.8}_{-8.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.575^{+0.071}_{-0.064}$	$\sigma_8(2.33)$	$0.3084^{+0.0074}_{-0.0056}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	Age/Gyr	$13.786^{+0.052}_{-0.053}$	f_{2000}^{143}	29^{+9}_{-9}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.095}_{-0.095}$	z_*	$1089.79^{+0.60}_{-0.57}$	$f_{2000}^{143\times 217}$	32^{+6}_{-6}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.080}_{-0.073}$	r_*	$144.55^{+0.59}_{-0.57}$	f_{2000}^{217}	$106.5^{+6.3}_{-5.6}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04118^{+0.00071}_{-0.00068}$	$\chi_{\mathrm{lensing}}^2$	$9.20\ (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.883^{+0.055}_{-0.055}$	χ_{small}^2	$397.5\ (\nu: 1.9)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	z_{drag}	$1060.03^{+0.78}_{-0.82}$	χ_{lowl}^2	$22.3\ (\nu: 1.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.09^{+0.68}_{-0.74}$	r_{drag}	$147.19^{+0.61}_{-0.60}$	χ_{plik}^2	$2360.7\ (\nu: 16.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14081^{+0.00075}_{-0.00077}$	$\chi_{6\mathrm{DF}}^2$	$0.058\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00049}_{-0.00045}$	χ_{MGS}^2	$1.23\ (\nu: 0.1)$
H_0	$67.7^{+1.1}_{-1.1}$	z_{eq}	3389^{+56}_{-55}	$\chi_{\mathrm{DR12BAO}}^2$	$4.9\ (\nu: 1.0)$
Ω_{Λ}	$0.689^{+0.014}_{-0.015}$	k_{eq}	$0.01034^{+0.00017}_{-0.00017}$	χ_{prior}^2	$11.5\ (\nu: 9.6)$
Ω_{m}	$0.311^{+0.015}_{-0.014}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.010}_{-0.010}$	χ_{CMB}^2	$2789.7\ (\nu: 18.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1425^{+0.0023}_{-0.0023}$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0054}_{-0.0053}$	χ_{BAO}^2	$6.2\ (\nu: 0.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.47; R - 1 = 0.02999$$

15 nrun+r

15.1 base_nrun_r_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02221^{+0.00061}_{-0.00058}$	$\sigma_8/h^{0.5}$	0.9939	$0.991^{+0.041}_{-0.042}$	$H(0.51)$	89.33	$89.4^{+1.2}_{-1.1}$
$\Omega_c h^2$	0.1208	$0.1205^{+0.0054}_{-0.0054}$	$r_{\text{drag}} h$	98.35	$98.6^{+4.3}_{-4.0}$	$D_M(0.51)$	1996.5	1993^{+47}_{-48}
$100\theta_{\text{MC}}$	1.04076	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.450	$2.438^{+0.099}_{-0.10}$	$H(0.61)$	95.02	$95.10^{+0.99}_{-0.88}$
τ	0.0529	$0.054^{+0.023}_{-0.023}$	z_{re}	7.60	$7.6^{+2.2}_{-2.5}$	$D_M(0.61)$	2322	2318^{+50}_{-52}
$\ln(10^{10} A_s)$	3.0434	$3.045^{+0.047}_{-0.048}$	$10^9 A_s$	2.098	$2.10^{+0.10}_{-0.099}$	$H(2.33)$	236.87	$236.7^{+3.3}_{-3.3}$
n_s	0.9625	$0.963^{+0.016}_{-0.015}$	$10^9 A_s e^{-2\tau}$	1.8870	$1.887^{+0.036}_{-0.036}$	$D_M(2.33)$	5776.0	5773^{+42}_{-44}
$dn_s/d \ln k$	-0.0036	$-0.008^{+0.021}_{-0.023}$	D_{40}	1225	1233^{+60}_{-55}	$f\sigma_8(0.15)$	0.4644	$0.462^{+0.032}_{-0.032}$
r	0.000	< 0.215	D_{220}	5712	5711^{+100}_{-110}	$\sigma_8(0.15)$	0.7500	$0.749^{+0.020}_{-0.020}$
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0064}$	D_{810}	2538.8	2539^{+36}_{-35}	$f\sigma_8(0.38)$	0.4806	$0.479^{+0.024}_{-0.025}$
A_{217}^{CIB}	50.9	49^{+20}_{-20}	D_{1420}	814.7	814^{+13}_{-13}	$\sigma_8(0.38)$	0.6638	$0.663^{+0.016}_{-0.016}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.07	—	D_{2000}	229.49	$229.0^{+5.0}_{-4.8}$	$f\sigma_8(0.51)$	0.4781	$0.476^{+0.021}_{-0.022}$
A_{143}^{tSZ}	7.1	—	$n_{s,0.002}$	0.974	$0.988^{+0.072}_{-0.066}$	$\sigma_8(0.51)$	0.6207	$0.620^{+0.015}_{-0.015}$
A_{100}^{PS}	258	267^{+70}_{-70}	Y_{P}	0.245313	$0.24533^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	0.4723	$0.471^{+0.018}_{-0.019}$
A_{143}^{PS}	46.9	51^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246639	$0.24665^{+0.00024}_{-0.00027}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	41.0	44^{+20}_{-20}	$10^5 D/H$	2.624	$2.62^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	0.2973	$0.2971^{+0.0070}_{-0.0068}$
A_{217}^{PS}	116.7	115^{+30}_{-30}	Age/Gyr	13.826	$13.818^{+0.096}_{-0.098}$	$\sigma_8(2.33)$	0.3061	$0.3060^{+0.0074}_{-0.0072}$
A^{kSZ}	0.0	—	z_*	1090.25	$1090.2^{+1.1}_{-1.1}$	$r_{0.002}$	0.000	< 0.232
A_{100}^{dustTT}	8.90	$9.0^{+4.8}_{-4.8}$	r_*	144.38	$144.4^{+1.3}_{-1.3}$	$r_{0.01}$	0.000	< 0.218
A_{143}^{dustTT}	10.82	$10.8^{+4.5}_{-4.6}$	$100\theta_*$	1.04097	$1.0410^{+0.0012}_{-0.0012}$	$\ln(10^{10} A_t)$	-6.50	$-0.4^{+2.2}_{-4.1}$
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.4^{+8.4}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	13.870	$13.87^{+0.12}_{-0.12}$	r_{10}	0.000	< 0.125
A_{217}^{dustTT}	93.8	93^{+20}_{-20}	z_{drag}	1059.51	$1059.6^{+1.3}_{-1.3}$	$10^9 A_t$	0.000	< 0.455
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.11	$147.1^{+1.3}_{-1.3}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.406
c_{217}	0.99828	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	0.14070	$0.1407^{+0.0015}_{-0.0015}$	f_{2000}^{143}	31.2	32^{+8}_{-8}
H_0	66.86	$67.0^{+2.4}_{-2.3}$	$100\theta_{\text{D}}$	0.16099	$0.16095^{+0.00074}_{-0.00074}$	$f_{2000}^{143 \times 217}$	33.8	34^{+6}_{-6}
Ω_Λ	0.6787	$0.681^{+0.033}_{-0.035}$	z_{eq}	3417	3410^{+120}_{-120}	f_{2000}^{217}	108.3	$108.9^{+5.4}_{-5.4}$
Ω_{m}	0.3213	$0.319^{+0.035}_{-0.033}$	k_{eq}	0.010428	$0.01041^{+0.00038}_{-0.00038}$	χ_{small}^2	395.91	$397.3 (\nu: 1.6)$
$\Omega_{\text{m}} h^2$	0.1436	$0.1433^{+0.0052}_{-0.0052}$	$100\theta_{\text{eq}}$	0.8101	$0.812^{+0.024}_{-0.022}$	χ_{lowl}^2	22.7	$23.7 (\nu: 2.5)$
$\Omega_{\text{m}} h^3$	0.09602	$0.0961^{+0.0013}_{-0.0013}$	$100\theta_{s,\text{eq}}$	0.4478	$0.449^{+0.012}_{-0.012}$	χ_{plik}^2	759.2	$773.6 (\nu: 17.0)$
σ_8	0.8127	$0.811^{+0.023}_{-0.024}$	$H(0.15)$	72.24	$72.4^{+2.1}_{-2.0}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.8)$
S_8	0.841	$0.837^{+0.063}_{-0.062}$	$D_M(0.15)$	647.7	646^{+20}_{-21}	χ_{CMB}^2	1177.9	$1194.6 (\nu: 17.4)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4607	$0.458^{+0.035}_{-0.034}$	$H(0.38)$	82.52	$82.6^{+1.5}_{-1.4}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6119	$0.610^{+0.030}_{-0.030}$	$D_M(0.38)$	1542.4	1540^{+40}_{-41}			

Best-fit $\chi_{\text{eff}}^2 = 1179.41$; $\bar{\chi}_{\text{eff}}^2 = 1201.96$; $R - 1 = 0.00730$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.91 commander_dx12_v3.2.29: 22.73 plik_rd12_HM_v22_TT: 759.25

15.2 base_nrun_r_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02227	$0.02230^{+0.00056}_{-0.00056}$	$r_{\text{drag}} h$	99.84	$99.8^{+2.5}_{-2.4}$	$H(0.61)$	95.32	$95.34^{+0.68}_{-0.64}$
$\Omega_c h^2$	0.11893	$0.1189^{+0.0032}_{-0.0032}$	$\langle d^2 \rangle^{1/2}$	2.420	$2.415^{+0.077}_{-0.078}$	$D_M(0.61)$	2304.2	2304^{+31}_{-32}
$100\theta_{\text{MC}}$	1.04106	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	7.64	$7.8^{+2.2}_{-2.3}$	$H(2.33)$	235.76	$235.8^{+2.1}_{-2.0}$
τ	0.0539	$0.055^{+0.024}_{-0.022}$	$10^9 A_s$	2.091	$2.10^{+0.10}_{-0.10}$	$D_M(2.33)$	5763.8	5763^{+32}_{-33}
$\ln(10^{10} A_s)$	3.0401	$3.045^{+0.048}_{-0.049}$	$10^9 A_s e^{-2\tau}$	1.8772	$1.880^{+0.032}_{-0.031}$	$f\sigma_8(0.15)$	0.4535	$0.454^{+0.020}_{-0.020}$
n_s	0.9671	$0.966^{+0.011}_{-0.011}$	D_{40}	1217	1228^{+60}_{-53}	$\sigma_8(0.15)$	0.7455	$0.746^{+0.019}_{-0.018}$
$dn_s/d\ln k$	-0.0024	$-0.008^{+0.020}_{-0.023}$	D_{220}	5715	5717^{+100}_{-110}	$f\sigma_8(0.38)$	0.4722	$0.472^{+0.017}_{-0.017}$
r	0.000	< 0.225	D_{810}	2535.9	2538^{+36}_{-34}	$\sigma_8(0.38)$	0.6611	$0.661^{+0.016}_{-0.016}$
y_{cal}	1.0002	$1.0006^{+0.0063}_{-0.0062}$	D_{1420}	815.4	815^{+13}_{-12}	$f\sigma_8(0.51)$	0.4710	$0.471^{+0.015}_{-0.015}$
A_{217}^{CIB}	50.7	49^{+20}_{-20}	D_{2000}	229.88	$229.3^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	0.6188	$0.619^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.04	—	$n_{s,0.002}$	0.975	$0.991^{+0.075}_{-0.065}$	$f\sigma_8(0.61)$	0.4662	$0.466^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.2	—	Y_{P}	0.245354	$0.24536^{+0.00022}_{-0.00026}$	$\sigma_8(0.61)$	0.5888	$0.589^{+0.014}_{-0.014}$
A_{100}^{PS}	257	266^{+70}_{-70}	$Y_{\text{P}}^{\text{BBN}}$	0.246680	$0.24669^{+0.00022}_{-0.00026}$	$f\sigma_8(2.33)$	0.2970	$0.2971^{+0.0072}_{-0.0067}$
A_{143}^{PS}	45.3	50^{+20}_{-20}	10^5D/H	2.605	$2.60^{+0.11}_{-0.10}$	$\sigma_8(2.33)$	0.3062	$0.3064^{+0.0075}_{-0.0068}$
$A_{143 \times 217}^{\text{PS}}$	39	43^{+20}_{-20}	Age/Gyr	13.799	$13.797^{+0.075}_{-0.076}$	$r_{0.002}$	0.000	< 0.247
A_{217}^{PS}	115.9	114^{+30}_{-30}	z_*	1089.95	$1089.92^{+0.80}_{-0.80}$	$r_{0.01}$	0.000	< 0.228
A^{kSZ}	0.0	—	r_*	144.79	$144.76^{+0.85}_{-0.85}$	$\ln(10^{10} A_t)$	-7.24	$-0.3^{+2.2}_{-4.1}$
A_{100}^{dustTT}	8.96	$9.0^{+4.6}_{-4.8}$	$100\theta_*$	1.04125	$1.0412^{+0.0011}_{-0.0011}$	r_{10}	0.000	< 0.132
A_{143}^{dustTT}	10.79	$10.8^{+4.5}_{-4.6}$	$D_M(z_*)/\text{Gpc}$	13.905	$13.903^{+0.082}_{-0.084}$	$10^9 A_t$	0.000	< 0.475
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.4^{+8.3}_{-8.5}$	z_{drag}	1059.63	$1059.7^{+1.3}_{-1.2}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.423
A_{217}^{dustTT}	93.8	93^{+20}_{-20}	r_{drag}	147.49	$147.45^{+0.94}_{-0.95}$	f_{2000}^{143}	30.7	32^{+8}_{-8}
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	0.14037	$0.1404^{+0.0013}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.3	34^{+6}_{-6}
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16096	$0.16091^{+0.00073}_{-0.00073}$	f_{2000}^{217}	107.8	$108.6^{+5.2}_{-5.4}$
H_0	67.69	$67.7^{+1.5}_{-1.4}$	z_{eq}	3374	3375^{+75}_{-75}	χ_{small}^2	395.9	$397.4 (\nu: 1.8)$
Ω_{Λ}	0.6905	$0.690^{+0.019}_{-0.019}$	k_{eq}	0.010298	$0.01030^{+0.00023}_{-0.00023}$	χ_{lowl}^2	22.22	$23.2 (\nu: 2.1)$
Ω_{m}	0.3095	$0.310^{+0.019}_{-0.019}$	$100\theta_{\text{eq}}$	0.8182	$0.818^{+0.014}_{-0.014}$	χ_{plik}^2	760.6	$774.0 (\nu: 16.1)$
$\Omega_{\text{m}} h^2$	0.14184	$0.1419^{+0.0031}_{-0.0031}$	$100\theta_{\text{s,eq}}$	0.4520	$0.4519^{+0.0073}_{-0.0070}$	$\chi_{6\text{DF}}^2$	0.017	$0.055 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09601	$0.0961^{+0.0013}_{-0.0013}$	$H(0.15)$	72.95	$73.0^{+1.3}_{-1.2}$	χ_{MGS}^2	1.34	$1.38 (\nu: 0.1)$
σ_8	0.8066	$0.807^{+0.021}_{-0.020}$	$D_M(0.15)$	640.6	641^{+12}_{-12}	χ_{DR12BAO}^2	4.08	$4.7 (\nu: 1.2)$
S_8	0.8193	$0.820^{+0.039}_{-0.037}$	$H(0.38)$	83.02	$83.04^{+0.96}_{-0.90}$	χ_{prior}^2	1.5	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4488	$0.449^{+0.021}_{-0.021}$	$D_M(0.38)$	1528.2	1528^{+24}_{-25}	χ_{BAO}^2	5.44	$6.2 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6016	$0.602^{+0.021}_{-0.021}$	$H(0.51)$	89.72	$89.73^{+0.79}_{-0.74}$	χ_{CMB}^2	1178.8	$1194.6 (\nu: 16.8)$
$\sigma_8/h^{0.5}$	0.9804	$0.981^{+0.030}_{-0.030}$	$D_M(0.51)$	1980.0	1980^{+28}_{-29}			

Best-fit $\chi_{\text{eff}}^2 = 1185.74$; $\bar{\chi}_{\text{eff}}^2 = 1208.12$; $R - 1 = 0.01047$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.08 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.94 commander_dx12_v3_2_29: 22.22 plik_rd12_HM_v22_TT: 760.60

15.3 base_nrun_r_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02240	$0.02247^{+0.00059}_{-0.00058}$	$\sigma_8/h^{0.5}$	0.9706	$0.968^{+0.039}_{-0.041}$	$H(0.51)$	90.07	$90.2^{+1.3}_{-1.1}$
$\Omega_c h^2$	0.11731	$0.1170^{+0.0049}_{-0.0042}$	$r_{\text{drag}} h$	101.12	$101.4^{+3.4}_{-3.8}$	$D_M(0.51)$	1965.4	1961^{+43}_{-44}
$100\theta_{\text{MC}}$	1.04121	$1.0413^{+0.0014}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.400	$2.385^{+0.094}_{-0.087}$	$H(0.61)$	95.60	$95.7^{+1.1}_{-0.87}$
τ	0.0566	$0.058^{+0.025}_{-0.022}$	z_{re}	7.86	$8.0^{+2.3}_{-2.3}$	$D_M(0.61)$	2288.5	2284^{+46}_{-48}
$\ln(10^{10} A_s)$	3.043	$3.046^{+0.050}_{-0.050}$	$10^9 A_s$	2.096	$2.10^{+0.11}_{-0.10}$	$H(2.33)$	234.85	$234.7^{+3.0}_{-2.9}$
n_s	0.9706	$0.971^{+0.012}_{-0.014}$	$10^9 A_s e^{-2\tau}$	1.8722	$1.872^{+0.036}_{-0.033}$	$D_M(2.33)$	5752.0	5747^{+41}_{-52}
$dn_s/d \ln k$	-0.0020	$-0.009^{+0.020}_{-0.024}$	D_{40}	1213	1220^{+62}_{-50}	$f\sigma_8(0.15)$	0.4450	$0.443^{+0.028}_{-0.028}$
r	0.000	< 0.262	D_{220}	5733	5727^{+93}_{-110}	$\sigma_8(0.15)$	0.7431	$0.742^{+0.020}_{-0.021}$
y_{cal}	1.0006	$1.0005^{+0.0062}_{-0.0063}$	D_{810}	2537.0	2537^{+37}_{-33}	$f\sigma_8(0.38)$	0.4658	$0.464^{+0.023}_{-0.024}$
A_{217}^{CIB}	49.8	48^{+20}_{-20}	D_{1420}	817.1	816^{+12}_{-12}	$\sigma_8(0.38)$	0.6600	$0.659^{+0.017}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.14	—	D_{2000}	230.57	$229.8^{+4.3}_{-4.7}$	$f\sigma_8(0.51)$	0.4658	$0.464^{+0.020}_{-0.022}$
A_{143}^{tSZ}	7.2	—	$n_{s,0.002}$	0.977	$0.999^{+0.074}_{-0.062}$	$\sigma_8(0.51)$	0.6182	$0.618^{+0.016}_{-0.015}$
A_{100}^{PS}	255	264^{+70}_{-70}	Y_{P}	0.245407	$0.24543^{+0.00025}_{-0.00025}$	$f\sigma_8(0.61)$	0.4618	$0.461^{+0.018}_{-0.020}$
A_{143}^{PS}	45.8	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246734	$0.24676^{+0.00025}_{-0.00025}$	$\sigma_8(0.61)$	0.5885	$0.588^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	41	42^{+30}_{-20}	$10^5 \text{D}/\text{H}$	2.580	$2.57^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	0.2972	$0.2972^{+0.0076}_{-0.0067}$
A_{217}^{PS}	116.5	114^{+30}_{-30}	Age/Gyr	13.774	$13.762^{+0.091}_{-0.12}$	$\sigma_8(2.33)$	0.3070	$0.3070^{+0.0078}_{-0.0072}$
A^{kSZ}	0.0	—	z_*	1089.65	$1089.54^{+0.98}_{-0.98}$	$r_{0.002}$	0.000	< 0.297
A_{100}^{dustTT}	8.9	$9.0^{+5.5}_{-5.1}$	r_*	145.11	$145.1^{+1.3}_{-1.2}$	$r_{0.01}$	0.000	< 0.272
A_{143}^{dustTT}	10.81	$10.8^{+4.3}_{-4.8}$	$100\theta_*$	1.04140	$1.0415^{+0.0014}_{-0.0012}$	$\ln(10^{10} A_t)$	-6.44	$-0.1^{+2.3}_{-3.9}$
$A_{143 \times 217}^{\text{dustTT}}$	19.2	$18.4^{+8.2}_{-8.0}$	$D_M(z_*)/\text{Gpc}$	13.934	$13.93^{+0.11}_{-0.11}$	r_{10}	0.000	< 0.160
A_{217}^{dustTT}	94.3	93^{+20}_{-20}	z_{drag}	1059.82	$1059.9^{+1.4}_{-1.2}$	$10^9 A_t$	0.000	< 0.562
c_{100}	0.99966	$0.9996^{+0.0017}_{-0.0015}$	r_{drag}	147.77	$147.8^{+1.3}_{-1.2}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.496
c_{217}	0.99826	$0.9983^{+0.0015}_{-0.0017}$	k_{D}	0.14017	$0.1402^{+0.0014}_{-0.0016}$	f_{2000}^{143}	30.2	31^{+8}_{-8}
H_0	68.43	$68.6^{+2.2}_{-2.1}$	$100\theta_{\text{D}}$	0.16085	$0.16079^{+0.00073}_{-0.00069}$	$f_{2000}^{143 \times 217}$	32.9	34^{+6}_{-5}
Ω_{Λ}	0.7003	$0.702^{+0.024}_{-0.029}$	z_{eq}	3339	3334^{+110}_{-100}	f_{2000}^{217}	107.4	$108.2^{+5.3}_{-5.2}$
Ω_{m}	0.2997	$0.298^{+0.029}_{-0.024}$	k_{eq}	0.010190	$0.01018^{+0.00034}_{-0.00032}$	χ_{simall}^2	396.3	$397.9 (\nu: 2.8)$
$\Omega_{\text{m}} h^2$	0.14036	$0.1402^{+0.0047}_{-0.0043}$	$100\theta_{\text{eq}}$	0.8251	$0.826^{+0.019}_{-0.021}$	χ_{lowl}^2	21.83	$22.6 (\nu: 1.6)$
$\Omega_{\text{m}} h^3$	0.09605	$0.0962^{+0.0014}_{-0.0013}$	$100\theta_{\text{s,eq}}$	0.4555	$0.456^{+0.010}_{-0.011}$	χ_{plik}^2	762.7	$777.2 (\nu: 21.3)$
σ_8	0.8029	$0.802^{+0.024}_{-0.025}$	$H(0.15)$	73.58	$73.8^{+1.9}_{-1.8}$	χ_{H073p45}^2	9.1	$8.7 (\nu: 4.4)$
S_8	0.803	$0.799^{+0.056}_{-0.053}$	$D_M(0.15)$	634.4	633^{+18}_{-18}	χ_{prior}^2	1.5	$7.5 (\nu: 7.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4396	$0.438^{+0.030}_{-0.029}$	$H(0.38)$	83.48	$83.6^{+1.5}_{-1.3}$	χ_{CMB}^2	1180.8	$1197.6 (\nu: 22.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5941	$0.592^{+0.028}_{-0.029}$	$D_M(0.38)$	1515.7	1512^{+36}_{-37}			

Best-fit $\chi_{\text{eff}}^2 = 1191.50$; $\bar{\chi}_{\text{eff}}^2 = 1213.73$; $R - 1 = 0.05584$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.27 commander_dx12_v3.2_29: 21.83 plik_rd12_HM_v22_TT: 762.71 Hubble - H073p45: 9.14

15.4 base_nrun_r_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00061}_{-0.00058}$	$\sigma_8/h^{0.5}$	$0.992^{+0.040}_{-0.042}$	$H(0.51)$	$89.4^{+1.2}_{-1.1}$
$\Omega_c h^2$	$0.1204^{+0.0054}_{-0.0054}$	$r_{\text{drag}} h$	$98.7^{+4.3}_{-4.0}$	$D_M(0.51)$	1992^{+47}_{-48}
$100\theta_{\text{MC}}$	$1.0408^{+0.0012}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.099}_{-0.10}$	$H(0.61)$	$95.12^{+0.98}_{-0.88}$
τ	$0.055^{+0.020}_{-0.014}$	z_{re}	< 9.63	$D_M(0.61)$	2317^{+50}_{-52}
$\ln(10^{10} A_s)$	$3.048^{+0.045}_{-0.034}$	$10^9 A_s$	$2.107^{+0.096}_{-0.070}$	$H(2.33)$	$236.7^{+3.3}_{-3.3}$
n_s	$0.963^{+0.016}_{-0.015}$	$10^9 A_s e^{-2\tau}$	$1.887^{+0.036}_{-0.036}$	$D_M(2.33)$	5772^{+42}_{-44}
$dn_s/d \ln k$	$-0.008^{+0.021}_{-0.022}$	D_{40}	1233^{+60}_{-55}	$f\sigma_8(0.15)$	$0.462^{+0.032}_{-0.031}$
r	< 0.218	D_{220}	5711^{+100}_{-110}	$\sigma_8(0.15)$	$0.750^{+0.019}_{-0.018}$
y_{cal}	$1.0005^{+0.0064}_{-0.0064}$	D_{810}	2539^{+36}_{-35}	$f\sigma_8(0.38)$	$0.479^{+0.024}_{-0.025}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$229.0^{+5.0}_{-4.8}$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.021}$
A_{143}^{tSZ}	—	$n_{s,0.002}$	$0.989^{+0.072}_{-0.067}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.012}$
A_{100}^{PS}	267^{+70}_{-70}	Y_{P}	$0.24533^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	$0.471^{+0.018}_{-0.019}$
A_{143}^{PS}	51^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00024}_{-0.00027}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$10^5 \text{D}/\text{H}$	$2.61^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	$0.2975^{+0.0066}_{-0.0050}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.816^{+0.095}_{-0.097}$	$\sigma_8(2.33)$	$0.3064^{+0.0070}_{-0.0051}$
A^{kSZ}	—	z_*	$1090.1^{+1.0}_{-1.1}$	$r_{0.002}$	< 0.235
A_{100}^{dustTT}	$9.0^{+4.8}_{-4.8}$	r_*	$144.4^{+1.3}_{-1.3}$	$r_{0.01}$	< 0.220
A_{143}^{dustTT}	$10.8^{+4.5}_{-4.6}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\ln(10^{10} A_t)$	$-0.4^{+2.2}_{-4.0}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.3}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	$13.87^{+0.12}_{-0.12}$	r_{10}	< 0.126
A_{217}^{dustTT}	93^{+20}_{-20}	z_{drag}	$1059.6^{+1.3}_{-1.3}$	$10^9 A_t$	< 0.459
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.1^{+1.3}_{-1.3}$	$10^9 A_t e^{-2\tau}$	< 0.410
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1407^{+0.0015}_{-0.0014}$	f_{2000}^{143}	32^{+8}_{-8}
H_0	$67.1^{+2.4}_{-2.3}$	$100\theta_{\text{D}}$	$0.16094^{+0.00072}_{-0.00074}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
Ω_{Λ}	$0.681^{+0.032}_{-0.034}$	z_{eq}	3409^{+120}_{-120}	f_{2000}^{217}	$108.8^{+5.4}_{-5.4}$
Ω_{m}	$0.319^{+0.034}_{-0.032}$	k_{eq}	$0.01040^{+0.00038}_{-0.00037}$	χ_{simall}^2	$397.2 (\nu: 1.6)$
$\Omega_{\text{m}} h^2$	$0.1433^{+0.0052}_{-0.0051}$	$100\theta_{\text{eq}}$	$0.812^{+0.023}_{-0.022}$	χ_{lowl}^2	$23.6 (\nu: 2.5)$
$\Omega_{\text{m}} h^3$	$0.0961^{+0.0013}_{-0.0013}$	$100\theta_{\text{s,eq}}$	$0.449^{+0.012}_{-0.012}$	χ_{plik}^2	$773.6 (\nu: 17.0)$
σ_8	$0.812^{+0.023}_{-0.022}$	$H(0.15)$	$72.4^{+2.1}_{-2.0}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.837^{+0.063}_{-0.062}$	$D_M(0.15)$	646^{+20}_{-21}	χ_{CMB}^2	$1194.4 (\nu: 17.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.459^{+0.035}_{-0.034}$	$H(0.38)$	$82.7^{+1.5}_{-1.4}$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.610^{+0.030}_{-0.030}$	$D_M(0.38)$	1539^{+40}_{-41}		

$$\bar{\chi}_{\text{eff}}^2 = 1201.72; R - 1 = 0.00869$$

15.5 base_nrun_r_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02231^{+0.00056}_{-0.00054}$	$r_{\mathrm{drag}} h$	$99.8^{+2.5}_{-2.4}$	$H(0.61)$	$95.34^{+0.67}_{-0.64}$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0032}$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.075}_{-0.074}$	$D_{\mathrm{M}}(0.61)$	2304^{+31}_{-32}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	z_{re}	< 9.79	$H(2.33)$	$235.8^{+2.1}_{-2.0}$
τ	$0.056^{+0.021}_{-0.015}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.099}_{-0.071}$	$D_{\mathrm{M}}(2.33)$	5763^{+33}_{-33}
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.046}_{-0.034}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019}$
n_{s}	$0.966^{+0.011}_{-0.011}$	D_{40}	1228^{+60}_{-53}	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.015}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.008^{+0.020}_{-0.023}$	D_{220}	5717^{+100}_{-110}	$f\sigma_8(0.38)$	$0.473^{+0.016}_{-0.016}$
r	< 0.226	D_{810}	2538^{+36}_{-34}	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.012}$
y_{cal}	$1.0006^{+0.0063}_{-0.0062}$	D_{1420}	815^{+13}_{-12}	$f\sigma_8(0.51)$	$0.472^{+0.015}_{-0.014}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{2000}	$229.3^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.992^{+0.074}_{-0.064}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	Y_{P}	$0.24537^{+0.00022}_{-0.00025}$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.010}$
A_{100}^{PS}	266^{+70}_{-70}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00022}_{-0.00025}$	$f\sigma_8(2.33)$	$0.2974^{+0.0069}_{-0.0051}$
A_{143}^{PS}	50^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.10}_{-0.10}$	$\sigma_8(2.33)$	$0.3067^{+0.0073}_{-0.0052}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.075}_{-0.075}$	$r_{0.002}$	< 0.250
A_{217}^{PS}	114^{+30}_{-30}	z_{*}	$1089.91^{+0.80}_{-0.80}$	$r_{0.01}$	< 0.230
A^{kSZ}	—	r_{*}	$144.76^{+0.85}_{-0.85}$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.3^{+2.2}_{-4.0}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.8}$	$100\theta_{*}$	$1.0412^{+0.0011}_{-0.0011}$	r_{10}	< 0.133
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.5}_{-4.6}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.903^{+0.081}_{-0.084}$	$10^9 A_{\mathrm{t}}$	< 0.477
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.4^{+8.3}_{-8.6}$	z_{drag}	$1059.7^{+1.3}_{-1.2}$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 0.427
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	r_{drag}	$147.45^{+0.93}_{-0.96}$	f_{2000}^{143}	32^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	$0.1404^{+0.0013}_{-0.0012}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16090^{+0.00073}_{-0.00073}$	f_{2000}^{217}	$108.6^{+5.2}_{-5.3}$
H_0	$67.7^{+1.4}_{-1.4}$	z_{eq}	3375^{+75}_{-75}	χ_{simall}^2	$397.4 (\nu: 1.9)$
Ω_{Λ}	$0.690^{+0.019}_{-0.019}$	k_{eq}	$0.01030^{+0.00023}_{-0.00023}$	χ_{lowl}^2	$23.2 (\nu: 2.1)$
Ω_{m}	$0.310^{+0.019}_{-0.019}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.014}$	χ_{plik}^2	$773.9 (\nu: 16.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0031}_{-0.0031}$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0072}_{-0.0070}$	$\chi_{6\mathrm{DF}}^2$	$0.054 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0013}_{-0.0012}$	$H(0.15)$	$73.0^{+1.2}_{-1.2}$	χ_{MGS}^2	$1.39 (\nu: 0.1)$
σ_8	$0.808^{+0.021}_{-0.017}$	$D_{\mathrm{M}}(0.15)$	640^{+12}_{-12}	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.2)$
S_8	$0.820^{+0.038}_{-0.037}$	$H(0.38)$	$83.05^{+0.95}_{-0.89}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1528^{+24}_{-25}	χ_{BAO}^2	$6.1 (\nu: 0.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.020}_{-0.020}$	$H(0.51)$	$89.74^{+0.78}_{-0.74}$	χ_{CMB}^2	$1194.4 (\nu: 16.6)$
$\sigma_8/h^{0.5}$	$0.982^{+0.030}_{-0.028}$	$D_{\mathrm{M}}(0.51)$	1979^{+28}_{-29}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1207.94; R - 1 = 0.01172$$

15.6 base_nrun_r_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02247^{+0.00061}_{-0.00058}$	$\sigma_8/h^{0.5}$	$0.968^{+0.039}_{-0.041}$	$H(0.51)$	$90.2^{+1.3}_{-1.1}$
$\Omega_{\text{c}}h^2$	$0.1170^{+0.0048}_{-0.0042}$	$r_{\text{drag}}h$	$101.4^{+3.3}_{-3.8}$	$D_{\text{M}}(0.51)$	1961^{+42}_{-44}
$100\theta_{\text{MC}}$	$1.0413^{+0.0014}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.386^{+0.094}_{-0.084}$	$H(0.61)$	$95.7^{+1.1}_{-0.87}$
τ	$0.059^{+0.023}_{-0.017}$	z_{re}	< 9.95	$D_{\text{M}}(0.61)$	2284^{+46}_{-48}
$\ln(10^{10}A_{\text{s}})$	$3.048^{+0.048}_{-0.038}$	$10^9 A_{\text{s}}$	$2.11^{+0.10}_{-0.079}$	$H(2.33)$	$234.7^{+3.0}_{-2.9}$
n_{s}	$0.971^{+0.012}_{-0.014}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.872^{+0.036}_{-0.033}$	$D_{\text{M}}(2.33)$	5746^{+40}_{-51}
$\text{d}n_{\text{s}}/\text{d} \ln k$	$-0.009^{+0.020}_{-0.024}$	D_{40}	1220^{+61}_{-49}	$f\sigma_8(0.15)$	$0.443^{+0.028}_{-0.028}$
r	< 0.264	D_{220}	5727^{+94}_{-110}	$\sigma_8(0.15)$	$0.743^{+0.020}_{-0.022}$
y_{cal}	$1.0005^{+0.0062}_{-0.0062}$	D_{810}	2537^{+36}_{-32}	$f\sigma_8(0.38)$	$0.464^{+0.023}_{-0.024}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	816^{+12}_{-12}	$\sigma_8(0.38)$	$0.660^{+0.017}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$229.9^{+4.3}_{-4.7}$	$f\sigma_8(0.51)$	$0.465^{+0.020}_{-0.022}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.999^{+0.075}_{-0.062}$	$\sigma_8(0.51)$	$0.618^{+0.016}_{-0.015}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24543^{+0.00026}_{-0.00025}$	$f\sigma_8(0.61)$	$0.461^{+0.018}_{-0.020}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24676^{+0.00026}_{-0.00025}$	$\sigma_8(0.61)$	$0.589^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	43^{+30}_{-20}	$10^5 \text{D}/\text{H}$	$2.57^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	$0.2974^{+0.0074}_{-0.0061}$
A_{217}^{PS}	114^{+30}_{-30}	Age/Gyr	$13.762^{+0.090}_{-0.11}$	$\sigma_8(2.33)$	$0.3072^{+0.0082}_{-0.0056}$
A^{kSZ}	—	z_*	$1089.53^{+0.98}_{-0.97}$	$r_{0.002}$	< 0.299
A_{100}^{dustTT}	$9.1^{+5.6}_{-5.1}$	r_*	$145.1^{+1.2}_{-1.2}$	$r_{0.01}$	< 0.273
A_{143}^{dustTT}	$10.8^{+4.3}_{-4.8}$	$100\theta_*$	$1.0415^{+0.0013}_{-0.0012}$	$\ln(10^{10}A_{\text{t}})$	$-0.1^{+2.3}_{-3.9}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.4^{+8.2}_{-7.9}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.93^{+0.11}_{-0.11}$	r_{10}	< 0.161
A_{217}^{dustTT}	93^{+20}_{-20}	z_{drag}	$1060.0^{+1.4}_{-1.2}$	$10^9 A_{\text{t}}$	< 0.568
c_{100}	$0.9996^{+0.0017}_{-0.0015}$	r_{drag}	$147.8^{+1.3}_{-1.2}$	$10^9 A_{\text{t}}e^{-2\tau}$	< 0.497
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	k_{D}	$0.1402^{+0.0014}_{-0.0016}$	f_{2000}^{143}	31^{+8}_{-8}
H_0	$68.6^{+2.1}_{-2.1}$	$100\theta_{\text{D}}$	$0.16078^{+0.00073}_{-0.00068}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-5}
Ω_{Λ}	$0.702^{+0.023}_{-0.029}$	z_{eq}	3333^{+110}_{-100}	f_{2000}^{217}	$108.2^{+5.1}_{-4.9}$
Ω_{m}	$0.298^{+0.029}_{-0.023}$	k_{eq}	$0.01017^{+0.00034}_{-0.00032}$	χ_{simall}^2	$397.8 (\nu: 2.8)$
$\Omega_{\text{m}}h^2$	$0.1401^{+0.0047}_{-0.0043}$	$100\theta_{\text{eq}}$	$0.827^{+0.019}_{-0.021}$	χ_{lowl}^2	$22.5 (\nu: 1.6)$
$\Omega_{\text{m}}h^3$	$0.0962^{+0.0014}_{-0.0012}$	$100\theta_{\text{s,eq}}$	$0.456^{+0.010}_{-0.011}$	χ_{plik}^2	$777.1 (\nu: 21.1)$
σ_8	$0.802^{+0.023}_{-0.026}$	$H(0.15)$	$73.8^{+1.9}_{-1.8}$	χ_{H073p45}^2	$8.6 (\nu: 4.3)$
S_8	$0.799^{+0.055}_{-0.054}$	$D_{\text{M}}(0.15)$	633^{+18}_{-18}	χ_{prior}^2	$7.5 (\nu: 7.0)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.438^{+0.030}_{-0.029}$	$H(0.38)$	$83.6^{+1.5}_{-1.3}$	χ_{CMB}^2	$1197.5 (\nu: 22.3)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.593^{+0.028}_{-0.030}$	$D_{\text{M}}(0.38)$	1512^{+36}_{-37}		

$$\bar{\chi}_{\text{eff}}^2 = 1213.56; R - 1 = 0.05904$$

15.7 base_nrun_r_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022399	$0.02241^{+0.00041}_{-0.00040}$	σ_8	0.8129	$0.812^{+0.020}_{-0.020}$	$H(0.38)$	82.84	$82.9^{+1.0}_{-0.96}$
$\Omega_c h^2$	0.12022	$0.1202^{+0.0036}_{-0.0036}$	S_8	0.8348	$0.833^{+0.043}_{-0.043}$	$D_M(0.38)$	1534.5	1534^{+27}_{-28}
$100\theta_{MC}$	1.04090	$1.04091^{+0.00080}_{-0.00085}$	$\sigma_8 \Omega_m^{0.5}$	0.4572	$0.456^{+0.024}_{-0.024}$	$H(0.51)$	89.61	$89.64^{+0.81}_{-0.76}$
τ	0.0561	$0.056^{+0.023}_{-0.022}$	$\sigma_8 \Omega_m^{0.25}$	0.6097	$0.609^{+0.022}_{-0.022}$	$D_M(0.51)$	1987.0	1986^{+32}_{-32}
$\ln(10^{10} A_s)$	3.0495	$3.050^{+0.045}_{-0.045}$	$\sigma_8/h^{0.5}$	0.9910	$0.989^{+0.032}_{-0.032}$	$H(0.61)$	95.27	$95.30^{+0.65}_{-0.61}$
n_s	0.9647	$0.964^{+0.012}_{-0.012}$	$r_{\text{drag}} h$	98.92	$99.0^{+2.8}_{-2.7}$	$D_M(0.61)$	2311.5	2311^{+34}_{-35}
$dn_s/d \ln k$	-0.0044	$-0.009^{+0.019}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.433^{+0.080}_{-0.082}$	$H(2.33)$	236.73	$236.7^{+2.2}_{-2.1}$
r	0.000	< 0.223	z_{re}	7.86	$7.9^{+2.1}_{-2.3}$	$D_M(2.33)$	5763.3	5762^{+29}_{-29}
y_{cal}	1.0005	$1.0007^{+0.0066}_{-0.0064}$	$10^9 A_s$	2.110	$2.113^{+0.097}_{-0.093}$	$f\sigma_8(0.15)$	0.4614	$0.461^{+0.022}_{-0.022}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8865	$1.888^{+0.032}_{-0.031}$	$\sigma_8(0.15)$	0.7507	$0.750^{+0.018}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.26	—	D_{40}	1221	1232^{+59}_{-51}	$f\sigma_8(0.38)$	0.4787	$0.478^{+0.018}_{-0.018}$
A_{143}^{tSZ}	7.3	—	D_{220}	5730	5726^{+100}_{-100}	$\sigma_8(0.38)$	0.6649	$0.664^{+0.015}_{-0.015}$
A_{100}^{PS}	253	264^{+70}_{-70}	D_{810}	2541.9	2543^{+35}_{-35}	$f\sigma_8(0.51)$	0.4768	$0.476^{+0.016}_{-0.016}$
A_{143}^{PS}	46.8	49^{+20}_{-20}	D_{1420}	817.1	816^{+13}_{-12}	$\sigma_8(0.51)$	0.6220	$0.621^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	44.0	43^{+20}_{-20}	D_{2000}	230.61	$229.9^{+4.8}_{-4.7}$	$f\sigma_8(0.61)$	0.4714	$0.471^{+0.014}_{-0.015}$
A_{217}^{PS}	118.0	115^{+30}_{-30}	$n_{s,0.002}$	0.979	$0.995^{+0.065}_{-0.058}$	$\sigma_8(0.61)$	0.5917	$0.591^{+0.013}_{-0.013}$
A^{kSZ}	0.0	—	Y_{P}	0.245407	$0.24541^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	0.2982	$0.2979^{+0.0067}_{-0.0065}$
A_{100}^{dustTT}	8.90	$8.9^{+4.7}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	0.246733	$0.24674^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	0.3072	$0.3069^{+0.0070}_{-0.0068}$
A_{143}^{dustTT}	11.06	$10.9^{+4.6}_{-4.5}$	$10^5 D/H$	2.580	$2.578^{+0.075}_{-0.073}$	$r_{0.002}$	0.000	< 0.243
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.4}_{-8.5}$	Age/Gyr	13.796	$13.794^{+0.065}_{-0.064}$	$r_{0.01}$	0.000	< 0.227
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	z_*	1089.90	$1089.88^{+0.72}_{-0.72}$	$\ln(10^{10} A_t)$	-6.53	$-0.1^{+2.0}_{-3.9}$
A_{100}^{dustTE}	0.114	$0.116^{+0.097}_{-0.096}$	r_*	144.35	$144.36^{+0.80}_{-0.80}$	r_{10}	0.000	< 0.130
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.136^{+0.075}_{-0.076}$	$100\theta_*$	1.04107	$1.04109^{+0.00079}_{-0.00084}$	$10^9 A_t$	0.000	< 0.475
$A_{100 \times 217}^{\text{dustTE}}$	0.484	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.866	$13.866^{+0.075}_{-0.075}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.420
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	z_{drag}	1060.01	$1060.05^{+0.80}_{-0.84}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.20}_{-0.21}$	r_{drag}	147.00	$147.00^{+0.80}_{-0.80}$	$f_{2000}^{143 \times 217}$	32.7	33^{+6}_{-6}
A_{217}^{dustTE}	2.09	$2.08^{+0.69}_{-0.68}$	k_{D}	0.14098	$0.14099^{+0.00089}_{-0.00089}$	f_{2000}^{217}	107.3	$108.1^{+5.2}_{-5.2}$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.160708	$0.16069^{+0.00048}_{-0.00047}$	χ_{small}^2	396.34	$397.6 (\nu: 2.0)$
c_{217}	0.99821	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3408	3407^{+80}_{-80}	χ_{lowl}^2	22.29	$23.3 (\nu: 1.7)$
H_0	67.29	$67.3^{+1.6}_{-1.6}$	k_{eq}	0.010402	$0.01040^{+0.00025}_{-0.00024}$	χ_{plik}^2	2344.9	$2361.1 (\nu: 18.7)$
Ω_{Λ}	0.6836	$0.684^{+0.022}_{-0.023}$	$100\theta_{\text{eq}}$	0.8123	$0.813^{+0.015}_{-0.015}$	χ_{prior}^2	1.9	$11.6 (\nu: 10.4)$
Ω_{m}	0.3164	$0.316^{+0.023}_{-0.022}$	$100\theta_{\text{s,eq}}$	0.4488	$0.4490^{+0.0078}_{-0.0076}$	χ_{CMB}^2	2763.6	$2782.0 (\nu: 19.3)$
$\Omega_{\text{m}} h^2$	0.14326	$0.1432^{+0.0034}_{-0.0034}$	$H(0.15)$	72.63	$72.7^{+1.4}_{-1.3}$			
$\Omega_{\text{m}} h^3$	0.09640	$0.09643^{+0.00080}_{-0.00080}$	$D_M(0.15)$	643.9	644^{+14}_{-14}			

Best-fit $\chi_{\text{eff}}^2 = 2765.44$; $\bar{\chi}_{\text{eff}}^2 = 2793.62$; $R - 1 = 0.01370$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.35 commander_dx12_v3.2_29: 22.29 plik_rd12_HM_v22b_TTTEEE: 2344.95

15.8 base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022443	$0.02247^{+0.00037}_{-0.00036}$	S_8	0.8261	$0.824^{+0.034}_{-0.033}$	$H(0.51)$	89.77	$89.82^{+0.62}_{-0.59}$
$\Omega_c h^2$	0.11944	$0.1193^{+0.0027}_{-0.0026}$	$\sigma_8 \Omega_m^{0.5}$	0.4525	$0.451^{+0.019}_{-0.018}$	$D_M(0.51)$	1980.2	1978^{+24}_{-24}
$100\theta_{MC}$	1.04101	$1.04102^{+0.00074}_{-0.00078}$	$\sigma_8 \Omega_m^{0.25}$	0.6057	$0.604^{+0.018}_{-0.018}$	$H(0.61)$	95.39	$95.44^{+0.51}_{-0.49}$
τ	0.0568	$0.057^{+0.023}_{-0.022}$	$\sigma_8/h^{0.5}$	0.9858	$0.984^{+0.027}_{-0.027}$	$D_M(0.61)$	2304.2	2302^{+26}_{-26}
$\ln(10^{10} A_s)$	3.0489	$3.051^{+0.046}_{-0.045}$	$r_{\text{drag}} h$	99.54	$99.7^{+2.0}_{-2.0}$	$H(2.33)$	236.27	$236.2^{+1.6}_{-1.6}$
n_s	0.9667	$0.966^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.432	$2.420^{+0.070}_{-0.072}$	$D_M(2.33)$	5758.2	5756^{+24}_{-24}
$dn_s/d \ln k$	-0.0038	$-0.009^{+0.019}_{-0.021}$	z_{re}	7.91	$7.9^{+2.2}_{-2.3}$	$f\sigma_8(0.15)$	0.4571	$0.456^{+0.018}_{-0.017}$
r	0.001	< 0.231	$10^9 A_s$	2.109	$2.113^{+0.099}_{-0.093}$	$\sigma_8(0.15)$	0.7491	$0.748^{+0.017}_{-0.017}$
y_{cal}	1.0005	$1.0008^{+0.0064}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8827	$1.884^{+0.030}_{-0.028}$	$f\sigma_8(0.38)$	0.4754	$0.474^{+0.015}_{-0.015}$
A_{217}^{CIB}	48.8	48^{+20}_{-20}	D_{40}	1219	1230^{+57}_{-50}	$\sigma_8(0.38)$	0.6641	$0.663^{+0.015}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.25	—	D_{220}	5733	5729^{+100}_{-98}	$f\sigma_8(0.51)$	0.4740	$0.473^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.3	—	D_{810}	2541.1	2542^{+36}_{-34}	$\sigma_8(0.51)$	0.6214	$0.621^{+0.014}_{-0.014}$
A_{100}^{PS}	253	263^{+70}_{-70}	D_{1420}	817.7	817^{+13}_{-13}	$f\sigma_8(0.61)$	0.4690	$0.468^{+0.013}_{-0.013}$
A_{143}^{PS}	45.9	48^{+20}_{-20}	D_{2000}	230.87	$230.2^{+4.6}_{-4.7}$	$\sigma_8(0.61)$	0.5913	$0.591^{+0.014}_{-0.013}$
$A_{143 \times 217}^{\text{PS}}$	43.2	42^{+20}_{-20}	$n_{s,0.002}$	0.979	$0.996^{+0.068}_{-0.059}$	$f\sigma_8(2.33)$	0.2981	$0.2979^{+0.0068}_{-0.0065}$
A_{217}^{PS}	117.6	114^{+30}_{-30}	Y_{P}	0.245424	$0.24543^{+0.00014}_{-0.00014}$	$\sigma_8(2.33)$	0.3074	$0.3072^{+0.0071}_{-0.0067}$
A^{kSZ}	0.0	—	$Y_{\text{P}}^{\text{BBN}}$	0.246750	$0.24676^{+0.00014}_{-0.00014}$	$r_{0.002}$	0.001	< 0.254
A_{100}^{dustTT}	8.89	$8.9^{+4.7}_{-4.8}$	10^5D/H	2.572	$2.567^{+0.067}_{-0.066}$	$r_{0.01}$	0.001	< 0.236
A_{143}^{dustTT}	11.01	$11.0^{+4.6}_{-4.5}$	Age/Gyr	13.785	$13.781^{+0.054}_{-0.054}$	$\ln(10^{10} A_t)$	-3.97	$0.0^{+2.0}_{-4.0}$
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$18.6^{+8.5}_{-8.4}$	z_*	1089.78	$1089.73^{+0.59}_{-0.58}$	r_{10}	0.000	< 0.135
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	r_*	144.52	$144.54^{+0.63}_{-0.63}$	$10^9 A_t$	0.002	< 0.492
A_{100}^{dustTE}	0.115	$0.116^{+0.096}_{-0.096}$	$100\theta_*$	1.04118	$1.04119^{+0.00073}_{-0.00077}$	$10^9 A_t e^{-2\tau}$	0.002	< 0.435
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.074}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.882^{+0.060}_{-0.061}$	f_{2000}^{143}	29.5	31^{+8}_{-8}
$A_{100 \times 217}^{\text{dustTE}}$	0.478	$0.48^{+0.22}_{-0.21}$	z_{drag}	1060.05	$1060.12^{+0.80}_{-0.76}$	$f_{2000}^{143 \times 217}$	32.4	33^{+6}_{-6}
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	r_{drag}	147.16	$147.17^{+0.65}_{-0.66}$	f_{2000}^{217}	107.1	$107.9^{+5.2}_{-5.1}$
$A_{143 \times 217}^{\text{dustTE}}$	0.664	$0.66^{+0.19}_{-0.21}$	k_{D}	0.14085	$0.14086^{+0.00081}_{-0.00082}$	χ_{small}^2	396.4	$397.8 (\nu: 2.3)$
A_{217}^{dustTE}	2.07	$2.07^{+0.70}_{-0.67}$	$100\theta_{\text{D}}$	0.160689	$0.16066^{+0.00046}_{-0.00046}$	χ_{lowl}^2	22.15	$23.1 (\nu: 1.6)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3390	3387^{+61}_{-59}	χ_{plik}^2	2345.5	$2361.2 (\nu: 19.1)$
c_{217}	0.99821	$0.9982^{+0.0015}_{-0.0016}$	k_{eq}	0.010348	$0.01034^{+0.00019}_{-0.00018}$	$\chi_{6\text{DF}}^2$	0.038	$0.053 (\nu: 0.0)$
H_0	67.64	$67.7^{+1.2}_{-1.2}$	$100\theta_{\text{eq}}$	0.8157	$0.816^{+0.011}_{-0.011}$	χ_{MGS}^2	1.16	$1.29 (\nu: 0.1)$
Ω_{Λ}	0.6885	$0.690^{+0.015}_{-0.016}$	$100\theta_{s,\text{eq}}$	0.4506	$0.4509^{+0.0057}_{-0.0058}$	χ_{DR12BAO}^2	4.63	$4.8 (\nu: 1.0)$
Ω_{m}	0.3115	$0.310^{+0.016}_{-0.015}$	$H(0.15)$	72.93	$73.0^{+1.0}_{-1.0}$	χ_{prior}^2	1.8	$11.6 (\nu: 10.2)$
$\Omega_{\text{m}} h^2$	0.14252	$0.1424^{+0.0026}_{-0.0025}$	$D_M(0.15)$	640.9	$640^{+10}_{-9.9}$	χ_{BAO}^2	5.82	$6.1 (\nu: 0.7)$
$\Omega_{\text{m}} h^3$	0.09640	$0.09643^{+0.00080}_{-0.00077}$	$H(0.38)$	83.05	$83.11^{+0.76}_{-0.74}$	χ_{CMB}^2	2764.1	$2782.0 (\nu: 19.4)$
σ_8	0.8107	$0.810^{+0.019}_{-0.019}$	$D_M(0.38)$	1528.6	1527^{+20}_{-20}			

Best-fit $\chi_{\text{eff}}^2 = 2771.67$; $\bar{\chi}_{\text{eff}}^2 = 2799.74$; $R - 1 = 0.01808$

χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.63 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.43 commander_dx12_v3_2_29: 22.15 plik_rd12_HM_v22b_TTTEEE: 2345.48

15.9 base_nrun_r_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022512	$0.02255^{+0.00035}_{-0.00038}$	$\Omega_m h^3$	0.09644	$0.09648^{+0.00078}_{-0.00078}$	$H(0.15)$	73.22	$73.3^{+1.3}_{-1.3}$
$\Omega_c h^2$	0.11871	$0.1185^{+0.0034}_{-0.0034}$	σ_8	0.8089	$0.808^{+0.021}_{-0.022}$	$D_M(0.15)$	638.0	637^{+13}_{-13}
$100\theta_{MC}$	1.04108	$1.04112^{+0.00076}_{-0.00082}$	S_8	0.8183	$0.815^{+0.041}_{-0.043}$	$H(0.38)$	83.26	$83.34^{+0.97}_{-0.94}$
τ	0.0578	$0.059^{+0.025}_{-0.022}$	$\sigma_8 \Omega_m^{0.5}$	0.4482	$0.446^{+0.022}_{-0.024}$	$D_M(0.38)$	1522.8	1521^{+26}_{-26}
$\ln(10^{10} A_s)$	3.0493	$3.051^{+0.049}_{-0.046}$	$\sigma_8 \Omega_m^{0.25}$	0.6021	$0.600^{+0.021}_{-0.022}$	$H(0.51)$	89.94	$90.01^{+0.76}_{-0.74}$
n_s	0.9688	$0.968^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	0.9811	$0.979^{+0.031}_{-0.032}$	$D_M(0.51)$	1973.3	1971^{+30}_{-30}
$dn_s/d \ln k$	-0.0033	$-0.009^{+0.019}_{-0.021}$	$r_{drag} h$	100.12	$100.3^{+2.7}_{-2.6}$	$H(0.61)$	95.53	$95.58^{+0.60}_{-0.60}$
r	0.001	< 0.238	$\langle d^2 \rangle^{1/2}$	2.422	$2.408^{+0.077}_{-0.089}$	$D_M(0.61)$	2296.8	2294^{+33}_{-33}
y_{cal}	1.0006	$1.0008^{+0.0061}_{-0.0059}$	z_{re}	7.98	$8.0^{+2.3}_{-2.3}$	$H(2.33)$	235.87	$235.8^{+2.1}_{-2.1}$
A_{217}^{CIB}	47.3	48^{+20}_{-20}	$10^9 A_s$	2.110	$2.11^{+0.10}_{-0.095}$	$D_M(2.33)$	5752.4	5750^{+27}_{-25}
$\xi^{tSZ \times CIB}$	0.45	—	$10^9 A_s e^{-2\tau}$	1.8798	$1.881^{+0.031}_{-0.027}$	$f\sigma_8(0.15)$	0.4531	$0.451^{+0.021}_{-0.022}$
A_{143}^{tSZ}	7.2	—	D_{40}	1216	1227^{+58}_{-47}	$\sigma_8(0.15)$	0.7480	$0.747^{+0.018}_{-0.019}$
A_{100}^{PS}	250	263^{+70}_{-70}	D_{220}	5738	5734^{+98}_{-96}	$f\sigma_8(0.38)$	0.4725	$0.471^{+0.017}_{-0.018}$
A_{143}^{PS}	48.1	47^{+20}_{-20}	D_{810}	2541.3	2542^{+35}_{-32}	$\sigma_8(0.38)$	0.6635	$0.663^{+0.016}_{-0.017}$
$A_{143 \times 217}^{PS}$	48.3	42^{+20}_{-20}	D_{1420}	818.7	817^{+14}_{-12}	$f\sigma_8(0.51)$	0.4716	$0.470^{+0.015}_{-0.016}$
A_{217}^{PS}	119.7	114^{+30}_{-30}	D_{2000}	231.32	$230.5^{+5.2}_{-4.7}$	$\sigma_8(0.51)$	0.6211	$0.620^{+0.015}_{-0.016}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.979	$0.999^{+0.068}_{-0.058}$	$f\sigma_8(0.61)$	0.4670	$0.466^{+0.014}_{-0.015}$
A_{100}^{dustTT}	8.90	$9.0^{+4.7}_{-4.9}$	Y_P	0.245449	$0.24546^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	0.5911	$0.590^{+0.014}_{-0.015}$
A_{143}^{dustTT}	11.05	$11.0^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246775	$0.24679^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.2982	$0.2980^{+0.0073}_{-0.0070}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+9.2}_{-8.2}$	$10^5 D/H$	2.560	$2.554^{+0.071}_{-0.063}$	$\sigma_8(2.33)$	0.3077	$0.3074^{+0.0079}_{-0.0070}$
A_{217}^{dustTT}	95.1	93^{+20}_{-20}	Age/Gyr	13.773	$13.767^{+0.061}_{-0.054}$	$r_{0.002}$	0.000	< 0.265
A_{100}^{dustTE}	0.114	$0.114^{+0.096}_{-0.094}$	z_*	1089.63	$1089.57^{+0.69}_{-0.62}$	$r_{0.01}$	0.000	< 0.245
$A_{100 \times 143}^{dustTE}$	0.135	$0.136^{+0.075}_{-0.079}$	r_*	144.66	$144.69^{+0.84}_{-0.78}$	$\ln(10^{10} A_t)$	-4.52	$0.0^{+2.0}_{-3.8}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04126	$1.04129^{+0.00076}_{-0.00080}$	r_{10}	0.000	< 0.143
A_{143}^{dustTE}	0.224	$0.23^{+0.13}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.892	$13.895^{+0.081}_{-0.073}$	$10^9 A_t$	0.001	< 0.512
$A_{143 \times 217}^{dustTE}$	0.662	$0.66^{+0.20}_{-0.20}$	z_{drag}	1060.16	$1060.24^{+0.76}_{-0.80}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.451
A_{217}^{dustTE}	2.06	$2.06^{+0.71}_{-0.67}$	r_{drag}	147.28	$147.29^{+0.87}_{-0.79}$	χ_{small}^2	396.6	$398.0 (\nu: 2.9)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14078	$0.14079^{+0.00088}_{-0.00090}$	χ_{lowl}^2	21.95	$22.9 (\nu: 1.4)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160631	$0.16060^{+0.00046}_{-0.00044}$	χ_{plik}^2	2346.6	$2362.7 (\nu: 21.6)$
H_0	67.98	$68.1^{+1.5}_{-1.5}$	z_{eq}	3375	3371^{+78}_{-80}	$\chi_{H073p45}^2$	10.9	$10.5 (\nu: 2.6)$
Ω_Λ	0.6930	$0.694^{+0.020}_{-0.021}$	k_{eq}	0.010300	$0.01029^{+0.00024}_{-0.00024}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.1)$
Ω_m	0.3070	$0.306^{+0.021}_{-0.020}$	$100\theta_{eq}$	0.8187	$0.820^{+0.015}_{-0.014}$	χ_{CMB}^2	2765.1	$2783.5 (\nu: 21.7)$
$\Omega_m h^2$	0.14187	$0.1417^{+0.0033}_{-0.0033}$	$100\theta_{s,eq}$	0.4521	$0.4526^{+0.0078}_{-0.0075}$			

Best-fit $\chi_{eff}^2 = 2777.70$; $\bar{\chi}_{eff}^2 = 2805.57$; $R - 1 = 0.02989$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.57 commander_dx12_v3.2_29: 21.95 plik_rd12_HM_v22b_TTTEEE: 2346.61 Hubble - H073p45: 10.85

15.10 base_nrun_r_plikHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02242^{+0.00040}_{-0.00040}$	σ_8	$0.812^{+0.020}_{-0.018}$	$H(0.38)$	$82.9^{+1.0}_{-0.95}$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0036}_{-0.0035}$	S_8	$0.834^{+0.043}_{-0.042}$	$D_{\mathrm{M}}(0.38)$	1534^{+27}_{-27}
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00080}_{-0.00085}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$H(0.51)$	$89.64^{+0.81}_{-0.75}$
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.51)$	1986^{+32}_{-32}
$\ln(10^{10} A_{\mathrm{s}})$	$3.052^{+0.044}_{-0.034}$	$\sigma_8/h^{0.5}$	$0.990^{+0.031}_{-0.031}$	$H(0.61)$	$95.30^{+0.65}_{-0.61}$
n_{s}	$0.964^{+0.012}_{-0.012}$	$r_{\mathrm{drag}} h$	$99.0^{+2.8}_{-2.7}$	$D_{\mathrm{M}}(0.61)$	2310^{+34}_{-34}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.0095^{+0.018}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.080}_{-0.079}$	$H(2.33)$	$236.7^{+2.2}_{-2.1}$
r	< 0.223	z_{re}	< 9.75	$D_{\mathrm{M}}(2.33)$	5762^{+29}_{-29}
y_{cal}	$1.0007^{+0.0065}_{-0.0064}$	$10^9 A_{\mathrm{s}}$	$2.116^{+0.094}_{-0.071}$	$f\sigma_8(0.15)$	$0.461^{+0.022}_{-0.022}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.888^{+0.032}_{-0.031}$	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{40}	1232^{+59}_{-51}	$f\sigma_8(0.38)$	$0.478^{+0.018}_{-0.018}$
A_{143}^{tSZ}	—	D_{220}	5726^{+100}_{-100}	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.013}$
A_{100}^{PS}	264^{+70}_{-70}	D_{810}	2543^{+35}_{-35}	$f\sigma_8(0.51)$	$0.476^{+0.016}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	D_{1420}	816^{+13}_{-12}	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.011}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{2000}	$229.9^{+4.8}_{-4.7}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.995^{+0.065}_{-0.057}$	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.011}$
A^{kSZ}	—	Y_{P}	$0.24541^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	$0.2981^{+0.0065}_{-0.0051}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	$0.3072^{+0.0068}_{-0.0053}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.5}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.577^{+0.075}_{-0.072}$	$r_{0.002}$	< 0.244
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.7^{+8.4}_{-8.5}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.793^{+0.064}_{-0.064}$	$r_{0.01}$	< 0.227
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_*	$1089.87^{+0.72}_{-0.72}$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.1^{+2.0}_{-3.9}$
$A_{100}^{\mathrm{dust}TE}$	$0.116^{+0.097}_{-0.095}$	r_*	$144.36^{+0.80}_{-0.80}$	r_{10}	< 0.130
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.136^{+0.075}_{-0.076}$	$100\theta_*$	$1.04109^{+0.00079}_{-0.00084}$	$10^9 A_{\mathrm{t}}$	< 0.477
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.866^{+0.075}_{-0.075}$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 0.421
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	z_{drag}	$1060.06^{+0.83}_{-0.81}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$147.00^{+0.80}_{-0.80}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-6}
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.68}$	k_{D}	$0.14099^{+0.00089}_{-0.00089}$	f_{2000}^{217}	$108.1^{+5.1}_{-5.2}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00047}_{-0.00047}$	χ_{simall}^2	$397.6 (\nu: 2.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3407^{+80}_{-80}	χ_{lowl}^2	$23.3 (\nu: 1.7)$
H_0	$67.3^{+1.6}_{-1.6}$	k_{eq}	$0.01040^{+0.00025}_{-0.00024}$	χ_{plik}^2	$2360.9 (\nu: 18.5)$
Ω_{Λ}	$0.684^{+0.021}_{-0.023}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.015}_{-0.015}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{m}	$0.316^{+0.023}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.4490^{+0.0077}_{-0.0076}$	χ_{CMB}^2	$2781.8 (\nu: 18.9)$
$\Omega_{\mathrm{m}} h^2$	$0.1432^{+0.0034}_{-0.0033}$	$H(0.15)$	$72.7^{+1.4}_{-1.3}$		
$\Omega_{\mathrm{m}} h^3$	$0.09643^{+0.00081}_{-0.00080}$	$D_{\mathrm{M}}(0.15)$	643^{+14}_{-14}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2793.42; R - 1 = 0.01323$$

15.11 base_nrun_r_plikHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02248^{+0.00037}_{-0.00035}$	S_8	$0.824^{+0.034}_{-0.032}$	$H(0.51)$	$89.82^{+0.62}_{-0.59}$
$\Omega_c h^2$	$0.1193^{+0.0027}_{-0.0026}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.018}_{-0.017}$	$D_M(0.51)$	1978^{+24}_{-24}
$100\theta_{MC}$	$1.04102^{+0.00074}_{-0.00078}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.018}_{-0.017}$	$H(0.61)$	$95.44^{+0.51}_{-0.49}$
τ	$0.058^{+0.020}_{-0.016}$	$\sigma_8/h^{0.5}$	$0.984^{+0.027}_{-0.026}$	$D_M(0.61)$	2302^{+25}_{-26}
$\ln(10^{10} A_s)$	$3.052^{+0.045}_{-0.035}$	$r_{\text{drag}} h$	$99.7^{+2.0}_{-2.0}$	$H(2.33)$	$236.2^{+1.6}_{-1.6}$
n_s	$0.967^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.069}_{-0.067}$	$D_M(2.33)$	5756^{+24}_{-24}
$dn_s/d \ln k$	$-0.009^{+0.018}_{-0.021}$	z_{re}	< 9.84	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016}$
r	< 0.233	$10^9 A_s$	$2.116^{+0.096}_{-0.073}$	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.015}$
y_{cal}	$1.0007^{+0.0064}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	$1.884^{+0.030}_{-0.028}$	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1230^{+57}_{-50}	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5729^{+100}_{-98}	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.013}$
A_{143}^{tSZ}	—	D_{810}	2542^{+36}_{-34}	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
A_{100}^{PS}	263^{+70}_{-70}	D_{1420}	817^{+13}_{-12}	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.012}$
A_{143}^{PS}	48^{+20}_{-20}	D_{2000}	$230.2^{+4.6}_{-4.7}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$n_{s,0.002}$	$0.997^{+0.068}_{-0.058}$	$f\sigma_8(2.33)$	$0.2981^{+0.0067}_{-0.0053}$
A_{217}^{PS}	114^{+30}_{-30}	Y_{P}	$0.24543^{+0.00014}_{-0.00014}$	$\sigma_8(2.33)$	$0.3074^{+0.0069}_{-0.0054}$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24676^{+0.00014}_{-0.00014}$	$r_{0.002}$	< 0.254
$A_{100}^{\text{dust}TT}$	$8.9^{+4.6}_{-4.8}$	10^5D/H	$2.567^{+0.066}_{-0.065}$	$r_{0.01}$	< 0.237
$A_{143}^{\text{dust}TT}$	$11.0^{+4.7}_{-4.5}$	Age/Gyr	$13.781^{+0.054}_{-0.054}$	$\ln(10^{10} A_t)$	$0.0^{+2.0}_{-4.0}$
$A_{143 \times 217}^{\text{dust}TT}$	$18.6^{+8.6}_{-8.4}$	z_*	$1089.72^{+0.59}_{-0.58}$	r_{10}	< 0.135
$A_{217}^{\text{dust}TT}$	93^{+20}_{-20}	r_*	$144.54^{+0.62}_{-0.63}$	$10^9 A_t$	< 0.493
$A_{100}^{\text{dust}TE}$	$0.116^{+0.096}_{-0.095}$	$100\theta_*$	$1.04119^{+0.00074}_{-0.00077}$	$10^9 A_t e^{-2\tau}$	< 0.437
$A_{100 \times 143}^{\text{dust}TE}$	$0.135^{+0.074}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	$13.882^{+0.060}_{-0.061}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100 \times 217}^{\text{dust}TE}$	$0.48^{+0.22}_{-0.21}$	z_{drag}	$1060.13^{+0.80}_{-0.77}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-6}
$A_{143}^{\text{dust}TE}$	$0.22^{+0.14}_{-0.14}$	r_{drag}	$147.17^{+0.65}_{-0.66}$	f_{2000}^{217}	$107.9^{+5.2}_{-5.1}$
$A_{143 \times 217}^{\text{dust}TE}$	$0.66^{+0.19}_{-0.21}$	k_{D}	$0.14086^{+0.00081}_{-0.00081}$	χ_{simall}^2	$397.7 (\nu: 2.3)$
$A_{217}^{\text{dust}TE}$	$2.07^{+0.70}_{-0.68}$	$100\theta_{\text{D}}$	$0.16065^{+0.00045}_{-0.00045}$	χ_{lowl}^2	$23.1 (\nu: 1.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3387^{+61}_{-58}	χ_{plik}^2	$2361.0 (\nu: 18.8)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	k_{eq}	$0.01034^{+0.00019}_{-0.00018}$	$\chi_{6\text{DF}}^2$	$0.053 (\nu: 0.0)$
H_0	$67.7^{+1.2}_{-1.2}$	$100\theta_{\text{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{MGS}^2	$1.29 (\nu: 0.1)$
Ω_Λ	$0.690^{+0.015}_{-0.016}$	$100\theta_{s,\text{eq}}$	$0.4509^{+0.0057}_{-0.0058}$	χ_{DR12BAO}^2	$4.8 (\nu: 1.0)$
Ω_m	$0.310^{+0.016}_{-0.015}$	$H(0.15)$	$73.0^{+1.0}_{-1.0}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
$\Omega_m h^2$	$0.1424^{+0.0025}_{-0.0024}$	$D_M(0.15)$	$640^{+10}_{-9.9}$	χ_{BAO}^2	$6.1 (\nu: 0.6)$
$\Omega_m h^3$	$0.09644^{+0.00081}_{-0.00078}$	$H(0.38)$	$83.11^{+0.76}_{-0.74}$	χ_{CMB}^2	$2781.9 (\nu: 18.9)$
σ_8	$0.810^{+0.019}_{-0.017}$	$D_M(0.38)$	1527^{+20}_{-20}		

$$\bar{\chi}_{\text{eff}}^2 = 2799.55; R - 1 = 0.01821$$

15.12 base_nrun_r_plikHM_TTTEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02255^{+0.00035}_{-0.00038}$	σ_8	$0.808^{+0.020}_{-0.017}$	$H(0.38)$	$83.34^{+0.97}_{-0.93}$
$\Omega_c h^2$	$0.1185^{+0.0034}_{-0.0034}$	S_8	$0.816^{+0.041}_{-0.041}$	$D_M(0.38)$	1521^{+26}_{-26}
$100\theta_{MC}$	$1.04112^{+0.00077}_{-0.00082}$	$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.022}_{-0.023}$	$H(0.51)$	$90.01^{+0.76}_{-0.74}$
τ	$0.059^{+0.022}_{-0.017}$	$\sigma_8 \Omega_m^{0.25}$	$0.601^{+0.021}_{-0.021}$	$D_M(0.51)$	1971^{+30}_{-30}
$\ln(10^{10} A_s)$	$3.053^{+0.047}_{-0.035}$	$\sigma_8/h^{0.5}$	$0.979^{+0.030}_{-0.030}$	$H(0.61)$	$95.59^{+0.60}_{-0.59}$
n_s	$0.968^{+0.011}_{-0.012}$	$r_{\text{drag}} h$	$100.3^{+2.7}_{-2.6}$	$D_M(0.61)$	2294^{+32}_{-33}
$dn_s/d \ln k$	$-0.0095^{+0.019}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	$2.410^{+0.076}_{-0.081}$	$H(2.33)$	$235.8^{+2.1}_{-2.1}$
r	< 0.239	z_{re}	< 10.1	$D_M(2.33)$	5750^{+27}_{-25}
y_{cal}	$1.0008^{+0.0061}_{-0.0060}$	$10^9 A_s$	$2.12^{+0.10}_{-0.074}$	$f\sigma_8(0.15)$	$0.452^{+0.021}_{-0.021}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.881^{+0.031}_{-0.026}$	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.015}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1227^{+58}_{-47}	$f\sigma_8(0.38)$	$0.471^{+0.017}_{-0.018}$
A_{143}^{tSZ}	—	D_{220}	5734^{+98}_{-96}	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.012}$
A_{100}^{PS}	263^{+70}_{-70}	D_{810}	2542^{+35}_{-32}	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015}$
A_{143}^{PS}	47^{+20}_{-20}	D_{1420}	817^{+14}_{-12}	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$230.5^{+5.2}_{-4.7}$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014}$
A_{217}^{PS}	114^{+30}_{-30}	$n_{s,0.002}$	$0.999^{+0.068}_{-0.057}$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.011}$
A^{kSZ}	—	Y_P	$0.24546^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2982^{+0.0071}_{-0.0052}$
A_{100}^{dustTT}	$9.0^{+4.5}_{-4.8}$	Y_P^{BBN}	$0.24679^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.3077^{+0.0078}_{-0.0054}$
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.4}$	$10^5 D/H$	$2.554^{+0.071}_{-0.063}$	$r_{0.002}$	< 0.269
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+9.2}_{-8.2}$	Age/Gyr	$13.767^{+0.061}_{-0.054}$	$r_{0.01}$	< 0.246
A_{217}^{dustTT}	93^{+20}_{-20}	z_*	$1089.57^{+0.68}_{-0.63}$	$\ln(10^{10} A_t)$	$0.0^{+2.0}_{-3.8}$
A_{100}^{dustTE}	$0.114^{+0.096}_{-0.094}$	r_*	$144.68^{+0.84}_{-0.77}$	r_{10}	< 0.145
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.079}$	$100\theta_*$	$1.04128^{+0.00076}_{-0.00080}$	$10^9 A_t$	< 0.513
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.895^{+0.081}_{-0.073}$	$10^9 A_t e^{-2\tau}$	< 0.451
A_{143}^{dustTE}	$0.23^{+0.13}_{-0.14}$	z_{drag}	$1060.24^{+0.76}_{-0.80}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	r_{drag}	$147.29^{+0.87}_{-0.78}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
A_{217}^{dustTE}	$2.06^{+0.71}_{-0.67}$	k_D	$0.14079^{+0.00088}_{-0.00090}$	f_{2000}^{217}	$107.7^{+5.2}_{-5.1}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16059^{+0.00046}_{-0.00044}$	χ_{simall}^2	$398.0 (\nu: 3.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3371^{+77}_{-80}	χ_{lowl}^2	$22.9 (\nu: 1.4)$
H_0	$68.1^{+1.5}_{-1.5}$	k_{eq}	$0.01029^{+0.00024}_{-0.00024}$	χ_{plik}^2	$2362.5 (\nu: 21.4)$
Ω_Λ	$0.694^{+0.020}_{-0.021}$	$100\theta_{\text{eq}}$	$0.820^{+0.015}_{-0.014}$	χ_{H073p45}^2	$10.5 (\nu: 2.6)$
Ω_m	$0.306^{+0.021}_{-0.020}$	$100\theta_{s,\text{eq}}$	$0.4526^{+0.0077}_{-0.0074}$	χ_{prior}^2	$11.5 (\nu: 10.0)$
$\Omega_m h^2$	$0.1417^{+0.0032}_{-0.0033}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{CMB}^2	$2783.4 (\nu: 21.4)$
$\Omega_m h^3$	$0.09649^{+0.00078}_{-0.00078}$	$D_M(0.15)$	637^{+13}_{-13}		

$$\bar{\chi}_{\text{eff}}^2 = 2805.37; R - 1 = 0.03153$$

15.13 base_nrun_r_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02214	$0.02222^{+0.00064}_{-0.00061}$ (+0.0 σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6117	$0.608^{+0.030}_{-0.031}$ (−0.2 σ)	$D_{\mathrm{M}}(0.38)$	1543.1	1537^{+40}_{-43} (−0.1 σ)
$\Omega_{\mathrm{c}}h^2$	0.1209	$0.1202^{+0.0054}_{-0.0055}$ (−0.1 σ)	$\sigma_8/h^{0.5}$	0.9937	$0.988^{+0.041}_{-0.042}$ (−0.2 σ)	$H(0.51)$	89.31	$89.5^{+1.3}_{-1.1}$ (+0.1 σ)
$100\theta_{\mathrm{MC}}$	1.04081	$1.0409^{+0.0012}_{-0.0012}$ (+0.1 σ)	$r_{\mathrm{drag}}h$	98.30	$98.9^{+4.4}_{-4.0}$ (+0.2 σ)	$D_{\mathrm{M}}(0.51)$	1997.4	1990^{+47}_{-50} (−0.1 σ)
τ	0.0529	$0.053^{+0.023}_{-0.023}$ (−0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.451	$2.432^{+0.099}_{-0.10}$ (−0.2 σ)	$H(0.61)$	95.00	$95.2^{+1.0}_{-0.90}$ (+0.1 σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0421	$3.042^{+0.048}_{-0.048}$ (−0.1 σ)	z_{re}	7.60	$7.6^{+2.2}_{-2.5}$ (−0.0 σ)	$D_{\mathrm{M}}(0.61)$	2323	2315^{+51}_{-54} (−0.1 σ)
n_{s}	0.9616	$0.964^{+0.016}_{-0.015}$ (+0.3 σ)	$10^9 A_{\mathrm{s}}$	2.095	$2.10^{+0.10}_{-0.099}$ (−0.1 σ)	$H(2.33)$	236.90	$236.5^{+3.3}_{-3.3}$ (−0.1 σ)
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	−0.0039	$−0.007^{+0.021}_{-0.023}$ (+0.1 σ)	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8847	$1.883^{+0.037}_{-0.036}$ (−0.3 σ)	$D_{\mathrm{M}}(2.33)$	5777.0	5771^{+44}_{-46} (−0.1 σ)
r	0.000	< 0.218 (+0.1 σ)	D_{40}	1224	1232^{+60}_{-56} (−0.1 σ)	$f\sigma_8(0.15)$	0.4645	$0.460^{+0.031}_{-0.032}$ (−0.2 σ)
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0064}$ (+0.0 σ)	D_{220}	5704	5701^{+110}_{-110} (−0.2 σ)	$\sigma_8(0.15)$	0.7495	$0.748^{+0.020}_{-0.020}$ (−0.1 σ)
A_{100}^{PS}	248	246^{+70}_{-70} (−0.8 σ)	D_{810}	2534.8	2536^{+36}_{-36} (−0.2 σ)	$f\sigma_8(0.38)$	0.4805	$0.477^{+0.024}_{-0.025}$ (−0.2 σ)
A_{143}^{PS}	39.7	43^{+20}_{-20} (−1.0 σ)	D_{1420}	812.8	814^{+14}_{-14} (−0.0 σ)	$\sigma_8(0.38)$	0.6633	$0.662^{+0.016}_{-0.016}$ (−0.1 σ)
A_{217}^{PS}	98.2	100^{+30}_{-40} (−1.4 σ)	D_{2000}	228.8	$229.0^{+5.2}_{-5.2}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4779	$0.475^{+0.021}_{-0.022}$ (−0.2 σ)
A_{217}^{CIB}	44.6	42^{+20}_{-20} (−1.0 σ)	$n_{\mathrm{s},0.002}$	0.974	$0.986^{+0.075}_{-0.065}$ (−0.1 σ)	$\sigma_8(0.51)$	0.6203	$0.619^{+0.015}_{-0.015}$ (−0.1 σ)
A_{143}^{tSZ}	4.35	< 8.67 (−0.6 σ)	Y_{P}	0.245300	$0.24533^{+0.00025}_{-0.00029}$ (+0.0 σ)	$f\sigma_8(0.61)$	0.4721	$0.470^{+0.018}_{-0.020}$ (−0.2 σ)
$r_{143\times 217}^{\mathrm{PS}}$	0.548	$0.64^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246626	$0.24666^{+0.00025}_{-0.00029}$ (+0.0 σ)	$\sigma_8(0.61)$	0.5899	$0.589^{+0.014}_{-0.014}$ (−0.1 σ)
$r_{143\times 217}^{\mathrm{CIB}}$	0.68	—	$10^5\mathrm{D}/\mathrm{H}$	2.630	$2.61^{+0.12}_{-0.12}$ (−0.0 σ)	$f\sigma_8(2.33)$	0.2971	$0.2969^{+0.0069}_{-0.0068}$ (−0.1 σ)
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.00	—	Age/Gyr	13.828	$13.81^{+0.10}_{-0.10}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3058	$0.3059^{+0.0074}_{-0.0073}$ (−0.0 σ)
A^{kSZ}	3.8	—	z_*	1090.30	$1090.1^{+1.1}_{-1.1}$ (−0.1 σ)	$r_{0.002}$	0.000	< 0.234 (+0.1 σ)
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.51}$	r_*	144.38	$144.5^{+1.3}_{-1.2}$ (+0.1 σ)	$r_{0.01}$	0.000	< 0.220 (+0.1 σ)
A_{143}^{dust}	0.984	$0.98^{+0.46}_{-0.46}$	$100\theta_*$	1.04101	$1.0411^{+0.0012}_{-0.0012}$ (+0.1 σ)	$\ln(10^{10}A_{\mathrm{t}})$	−6.04	$−0.3^{+2.2}_{-4.0}$ (+0.0 σ)
A_{217}^{dust}	0.959	$0.97^{+0.26}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.869	$13.88^{+0.12}_{-0.11}$ (+0.1 σ)	r_{10}	0.000	< 0.125 (+0.1 σ)
$A_{143\times 217}^{\mathrm{dust}}$	1.006	$1.03^{+0.42}_{-0.42}$	z_{drag}	1059.47	$1059.6^{+1.3}_{-1.3}$ (+0.0 σ)	$10^9 A_{\mathrm{t}}$	0.000	< 0.459 (+0.1 σ)
c_{100}	0.99743	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	r_{drag}	147.12	$147.2^{+1.3}_{-1.2}$ (+0.1 σ)	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.000	< 0.411 (+0.1 σ)
c_{217}	1.00143	$1.0013^{+0.0041}_{-0.0041}$ (+4.8 σ)	k_{D}	0.14066	$0.1406^{+0.0014}_{-0.0015}$ (−0.1 σ)	f_{2000}^{143}	32.3	32^{+9}_{-9} (−0.2 σ)
H_0	66.82	$67.2^{+2.5}_{-2.3}$ (+0.1 σ)	$100\theta_{\mathrm{D}}$	0.16104	$0.16096^{+0.00078}_{-0.00075}$ (+0.0 σ)	f_{2000}^{217}	108.5	$108.2^{+5.7}_{-5.8}$ (−0.3 σ)
Ω_{Λ}	0.6782	$0.683^{+0.033}_{-0.034}$ (+0.1 σ)	z_{eq}	3418	3403^{+120}_{-130} (−0.1 σ)	$f_{2000}^{143\times 217}$	33.9	34^{+6}_{-6} (−0.3 σ)
Ω_{m}	0.3218	$0.317^{+0.034}_{-0.033}$ (−0.1 σ)	k_{eq}	0.010431	$0.01039^{+0.00037}_{-0.00038}$ (−0.1 σ)	χ_{small}^2	395.90	397.3 (ν : 1.5) (−0.0 σ)
$\Omega_{\mathrm{m}}h^2$	0.1437	$0.1430^{+0.0051}_{-0.0053}$ (−0.1 σ)	$100\theta_{\mathrm{eq}}$	0.8098	$0.813^{+0.024}_{-0.022}$ (+0.1 σ)	χ_{lowl}^2	22.7	23.7 (ν : 2.6) (+0.0 σ)
$\Omega_{\mathrm{m}}h^3$	0.09599	$0.0961^{+0.0013}_{-0.0013}$ (+0.0 σ)	$100\theta_{\mathrm{s,eq}}$	0.4477	$0.449^{+0.012}_{-0.012}$ (+0.1 σ)	$\chi_{\mathrm{CamSpec}}^2$	7050.5	7065.1 (ν : 16.5)
σ_8	0.8122	$0.810^{+0.024}_{-0.024}$ (−0.1 σ)	$H(0.15)$	72.21	$72.5^{+2.2}_{-2.0}$ (+0.1 σ)	χ_{prior}^2	2.4	7.7 (ν : 6.1) (+0.1 σ)
S_8	0.841	$0.833^{+0.062}_{-0.062}$ (−0.2 σ)	$D_{\mathrm{M}}(0.15)$	648.1	645^{+20}_{-21} (−0.1 σ)	χ_{CMB}^2	7469.1	7486.1 (ν : 17.1) (+1065.9 σ)
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4607	$0.456^{+0.034}_{-0.034}$ (−0.2 σ)	$H(0.38)$	82.49	$82.7^{+1.6}_{-1.4}$ (+0.1 σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 7471.53$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.12$; $\bar{\chi}_{\mathrm{eff}}^2 = 7493.80$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.84$; $R - 1 = 0.00512$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.90 (Δ -0.00) commander_dx12.v3.2.29: 22.71 (Δ -0.02) CamSpec like_10.7HM: 7050.49

15.14 base_nrun_r_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00059}_{-0.00056} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.029}_{-0.031} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+29}_{-29} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0032} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	$95.35^{+0.68}_{-0.63} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.412^{+0.076}_{-0.077} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+31}_{-32} \quad (-0.1\sigma)$
τ	$0.055^{+0.022}_{-0.022} \quad (-0.1\sigma)$	z_{re}	$7.7^{+2.1}_{-2.4} \quad (-0.1\sigma)$	$H(2.33)$	$235.7^{+2.1}_{-2.0} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.048}_{-0.049} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.10} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+32}_{-34} \quad (-0.0\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.032}_{-0.031} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.020} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.006^{+0.021}_{-0.024} \quad (+0.1\sigma)$	D_{40}	$1228^{+61}_{-55} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.018}_{-0.019} \quad (-0.1\sigma)$
r	$< 0.225 \quad (+0.0\sigma)$	D_{220}	$5707^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.017} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0064} \quad (-0.0\sigma)$	D_{810}	$2535^{+37}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{100}^{PS}	$245^{+70}_{-60} \quad (-0.7\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.3^{+5.2}_{-5.1} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	$n_{\mathrm{s},0.002}$	$0.988^{+0.077}_{-0.064} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	Y_{P}	$0.24536^{+0.00023}_{-0.00026} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.6\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00023}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0069}_{-0.0068} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.31}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.11}_{-0.11} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3062^{+0.0073}_{-0.0070} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Age/Gyr	$13.796^{+0.075}_{-0.078} \quad (-0.0\sigma)$	$r_{0.002}$	$< 0.242 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1089.91^{+0.81}_{-0.83} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.227 \quad (+0.0\sigma)$
A^{kSZ}	—	r_*	$144.78^{+0.87}_{-0.86} \quad (+0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+2.1}_{-4.0} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	r_{10}	$< 0.129 \quad (+0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.46}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.084}_{-0.084} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.475 \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	z_{drag}	$1059.7^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.422 \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	r_{drag}	$147.48^{+0.95}_{-0.97} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	f_{2000}^{217}	$108.0^{+5.8}_{-5.6} \quad (-0.3\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_{\mathrm{D}}$	$0.16092^{+0.00076}_{-0.00074} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	$3373^{+75}_{-74} \quad (-0.1\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.019}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 2.2) \quad (+0.1\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.013} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.3 \quad (\nu: 15.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0031}_{-0.0031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0072}_{-0.0070} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.052 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$H(0.15)$	$73.0^{+1.3}_{-1.2} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.43 \quad (\nu: 0.1) \quad (+0.1\sigma)$
σ_8	$0.806^{+0.020}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+12}_{-12} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
S_8	$0.818^{+0.039}_{-0.038} \quad (-0.1\sigma)$	$H(0.38)$	$83.06^{+0.96}_{-0.90} \quad (+0.1\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+24}_{-25} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$H(0.51)$	$89.75^{+0.80}_{-0.74} \quad (+0.1\sigma)$	χ_{CMB}^2	$7486.0 \quad (\nu: 16.4) \quad (+1085.9\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 7499.85; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.73; R - 1 = 0.00974$$

15.15 base_nrun_r_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00063}_{-0.00060} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.030}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1537^{+40}_{-43} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0054}_{-0.0055} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.989^{+0.041}_{-0.042} \quad (-0.2\sigma)$	$H(0.51)$	$89.5^{+1.3}_{-1.1} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.9^{+4.4}_{-4.0} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1990^{+47}_{-50} \quad (-0.1\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.098}_{-0.10} \quad (-0.2\sigma)$	$H(0.61)$	$95.2^{+1.0}_{-0.89} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.046}_{-0.033} \quad (-0.2\sigma)$	z_{re}	$< 9.60 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2314^{+50}_{-54} \quad (-0.1\sigma)$
n_{s}	$0.964^{+0.016}_{-0.015} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.098}_{-0.069} \quad (-0.2\sigma)$	$H(2.33)$	$236.5^{+3.3}_{-3.3} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.007^{+0.021}_{-0.023} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.038}_{-0.036} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5770^{+43}_{-45} \quad (-0.1\sigma)$
r	$< 0.220 \quad (+0.1\sigma)$	D_{40}	$1231^{+60}_{-56} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.460^{+0.031}_{-0.032} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	D_{220}	$5702^{+110}_{-110} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.020}_{-0.018} \quad (-0.1\sigma)$
A_{100}^{PS}	$245^{+70}_{-70} \quad (-0.8\sigma)$	D_{810}	$2536^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.024}_{-0.025} \quad (-0.2\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+14}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	D_{2000}	$229.1^{+5.2}_{-5.2} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.021}_{-0.022} \quad (-0.2\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.987^{+0.075}_{-0.065} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.67 \quad (-0.6\sigma)$	Y_{P}	$0.24534^{+0.00025}_{-0.00028} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.018}_{-0.019} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00025}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0066}_{-0.0050} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.812^{+0.097}_{-0.10} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0070}_{-0.0051} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.1^{+1.1}_{-1.1} \quad (-0.1\sigma)$	$r_{0.002}$	$< 0.236 \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	r_*	$144.5^{+1.3}_{-1.2} \quad (+0.1\sigma)$	$r_{0.01}$	$< 0.222 \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.3^{+2.2}_{-4.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.12}_{-0.11} \quad (+0.1\sigma)$	r_{10}	$< 0.126 \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	z_{drag}	$1059.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.464 \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.2^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.414 \quad (+0.1\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	k_{D}	$0.1406^{+0.0014}_{-0.0015} \quad (-0.1\sigma)$	f_{2000}^{143}	$32^{+9}_{-9} \quad (-0.2\sigma)$
H_0	$67.2^{+2.5}_{-2.3} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16095^{+0.00077}_{-0.00074} \quad (+0.0\sigma)$	f_{2000}^{217}	$108.1^{+5.7}_{-5.8} \quad (-0.3\sigma)$
Ω_{Λ}	$0.683^{+0.033}_{-0.034} \quad (+0.2\sigma)$	z_{eq}	$3401^{+120}_{-130} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (-0.3\sigma)$
Ω_{m}	$0.317^{+0.034}_{-0.033} \quad (-0.2\sigma)$	k_{eq}	$0.01038^{+0.00037}_{-0.00038} \quad (-0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.5) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1430^{+0.0051}_{-0.0052} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.024}_{-0.022} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.6 \quad (\nu: 2.5) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.0 \quad (\nu: 16.4)$
σ_8	$0.811^{+0.023}_{-0.022} \quad (-0.2\sigma)$	$H(0.15)$	$72.5^{+2.2}_{-2.0} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
S_8	$0.833^{+0.062}_{-0.062} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+20}_{-21} \quad (-0.1\sigma)$	χ_{CMB}^2	$7485.8 \quad (\nu: 16.8) \quad (+1073.7\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.034}_{-0.034} \quad (-0.2\sigma)$	$H(0.38)$	$82.7^{+1.6}_{-1.4} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7493.58$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.86$; $R - 1 = 0.00549$

15.16 base_nrun_r_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00058}_{-0.00056} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.029}_{-0.027} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+28}_{-29} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0032} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	$95.36^{+0.68}_{-0.64} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.414^{+0.074}_{-0.073} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+31}_{-32} \quad (-0.1\sigma)$
τ	$0.056^{+0.020}_{-0.014} \quad (-0.1\sigma)$	z_{re}	$< 9.64 \quad (-0.1\sigma)$	$H(2.33)$	$235.7^{+2.1}_{-2.0} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.047}_{-0.034} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.070} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+32}_{-34} \quad (-0.0\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.032}_{-0.031} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.019} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.007^{+0.020}_{-0.024} \quad (+0.1\sigma)$	D_{40}	$1227^{+61}_{-55} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.015} \quad (-0.1\sigma)$
r	$< 0.226 \quad (+0.0\sigma)$	D_{220}	$5706^{+100}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.016} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0064} \quad (-0.0\sigma)$	D_{810}	$2535^{+37}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.012} \quad (-0.1\sigma)$
A_{100}^{PS}	$245^{+70}_{-60} \quad (-0.7\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.3^{+5.2}_{-5.1} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.011} \quad (-0.1\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	$n_{\mathrm{s},0.002}$	$0.989^{+0.077}_{-0.064} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	Y_{P}	$0.24536^{+0.00023}_{-0.00026} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.010} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.6\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00023}_{-0.00026} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0067}_{-0.0052} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.31}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.11}_{-0.11} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0070}_{-0.0053} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.795^{+0.075}_{-0.078} \quad (-0.0\sigma)$	$r_{0.002}$	$< 0.244 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1089.91^{+0.81}_{-0.83} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.229 \quad (+0.0\sigma)$
A^{kSZ}	—	r_*	$144.78^{+0.87}_{-0.86} \quad (+0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+2.1}_{-4.0} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0010} \quad (+0.1\sigma)$	r_{10}	$< 0.131 \quad (+0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.084}_{-0.084} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.478 \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	z_{drag}	$1059.7^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.425 \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	r_{drag}	$147.48^{+0.96}_{-0.97} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.9^{+5.9}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00076}_{-0.00074} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.8^{+1.5}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	$3373^{+75}_{-74} \quad (-0.1\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.019}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01029^{+0.00023}_{-0.00023} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 2.2) \quad (+0.1\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.014}_{-0.013} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7065.3 \quad (\nu: 15.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0031}_{-0.0031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0072}_{-0.0070} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.051 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$H(0.15)$	$73.0^{+1.3}_{-1.2} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.44 \quad (\nu: 0.1) \quad (+0.1\sigma)$
σ_8	$0.807^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+12}_{-12} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
S_8	$0.819^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$H(0.38)$	$83.07^{+0.95}_{-0.90} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+24}_{-25} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$H(0.51)$	$89.76^{+0.80}_{-0.74} \quad (+0.1\sigma)$	χ_{CMB}^2	$7485.8 \quad (\nu: 16.1) \quad (+1091.2\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 7499.67; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.73; R - 1 = 0.00851$$

15.17 base_nrun_r_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02223^{+0.00064}_{-0.00059}$	$\sigma_8/h^{0.5}$	0.9883	$0.988^{+0.026}_{-0.028}$	$H(0.51)$	89.46	$89.49^{+0.99}_{-0.91}$
$\Omega_c h^2$	0.11999	$0.1201^{+0.0040}_{-0.0041}$	$r_{\text{drag}} h$	98.95	$98.9^{+3.2}_{-3.1}$	$D_M(0.51)$	1990.3	1990^{+38}_{-38}
$100\theta_{\text{MC}}$	1.04084	$1.0408^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.435^{+0.072}_{-0.073}$	$H(0.61)$	95.12	$95.15^{+0.83}_{-0.76}$
τ	0.0528	$0.054^{+0.022}_{-0.021}$	z_{re}	7.56	$7.6^{+2.1}_{-2.2}$	$D_M(0.61)$	2315.4	2315^{+40}_{-41}
$\ln(10^{10} A_s)$	3.0406	$3.044^{+0.042}_{-0.040}$	$10^9 A_s$	2.092	$2.099^{+0.090}_{-0.083}$	$H(2.33)$	236.36	$236.5^{+2.5}_{-2.6}$
n_s	0.9646	$0.964^{+0.013}_{-0.013}$	$10^9 A_s e^{-2\tau}$	1.8821	$1.885^{+0.030}_{-0.030}$	$D_M(2.33)$	5772.5	5771^{+37}_{-40}
$dn_s/d \ln k$	-0.0010	$-0.006^{+0.020}_{-0.022}$	D_{40}	1227	1235^{+60}_{-51}	$f\sigma_8(0.15)$	0.4599	$0.460^{+0.021}_{-0.022}$
r	0.000	< 0.205	D_{220}	5715	5716^{+110}_{-100}	$\sigma_8(0.15)$	0.7480	$0.748^{+0.015}_{-0.015}$
y_{cal}	1.0003	$1.0006^{+0.0063}_{-0.0065}$	D_{810}	2537.2	2539^{+34}_{-34}	$f\sigma_8(0.38)$	0.4771	$0.477^{+0.016}_{-0.017}$
A_{217}^{CIB}	49.7	49^{+20}_{-20}	D_{1420}	815.3	814^{+13}_{-13}	$\sigma_8(0.38)$	0.6625	$0.663^{+0.013}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.22	—	D_{2000}	229.84	$229.2^{+4.9}_{-5.0}$	$f\sigma_8(0.51)$	0.4751	$0.475^{+0.013}_{-0.015}$
A_{143}^{tSZ}	7.0	—	$n_{s,0.002}$	0.968	$0.983^{+0.070}_{-0.064}$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012}$
A_{100}^{PS}	256	266^{+70}_{-70}	Y_{P}	0.245320	$0.24533^{+0.00025}_{-0.00028}$	$f\sigma_8(0.61)$	0.4697	$0.470^{+0.012}_{-0.013}$
A_{143}^{PS}	48.4	50^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246646	$0.24666^{+0.00025}_{-0.00028}$	$\sigma_8(0.61)$	0.5896	$0.590^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	44.4	43^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.621	$2.61^{+0.11}_{-0.12}$	$f\sigma_8(2.33)$	0.2971	$0.2971^{+0.0062}_{-0.0059}$
A_{217}^{PS}	117.9	114^{+30}_{-30}	Age/Gyr	13.818	$13.815^{+0.085}_{-0.090}$	$\sigma_8(2.33)$	0.3061	$0.3061^{+0.0070}_{-0.0066}$
A^{kSZ}	0.0	—	z_*	1090.15	$1090.11^{+0.97}_{-0.98}$	$r_{0.002}$	0.000	< 0.220
A_{100}^{dustTT}	9.07	$9.0^{+4.7}_{-4.8}$	r_*	144.57	$144.5^{+1.0}_{-0.97}$	$r_{0.01}$	0.000	< 0.208
A_{143}^{dustTT}	10.88	$10.8^{+4.7}_{-4.6}$	$100\theta_*$	1.04105	$1.0410^{+0.0011}_{-0.0011}$	$\ln(10^{10} A_t)$	-8.76	$-0.4^{+2.2}_{-4.0}$
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.5}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.882^{+0.094}_{-0.092}$	r_{10}	0.000	< 0.117
A_{217}^{dustTT}	94.3	93^{+20}_{-20}	z_{drag}	1059.51	$1059.6^{+1.4}_{-1.3}$	$10^9 A_t$	0.000	< 0.436
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.30	$147.2^{+1.0}_{-1.0}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.386
c_{217}	0.99830	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	0.14050	$0.1406^{+0.0013}_{-0.0013}$	f_{2000}^{143}	30.6	32^{+8}_{-8}
H_0	67.18	$67.2^{+1.9}_{-1.8}$	$100\theta_{\text{D}}$	0.16101	$0.16095^{+0.00076}_{-0.00078}$	$f_{2000}^{143 \times 217}$	33.4	34^{+6}_{-6}
Ω_{Λ}	0.6835	$0.683^{+0.025}_{-0.026}$	z_{eq}	3398	3401^{+93}_{-94}	f_{2000}^{217}	107.8	$108.6^{+5.3}_{-5.3}$
Ω_{m}	0.3165	$0.317^{+0.026}_{-0.025}$	k_{eq}	0.010370	$0.01038^{+0.00028}_{-0.00029}$	χ^2_{lensing}	8.89	$9.69 (\nu: 0.5)$
$\Omega_{\text{m}} h^2$	0.14282	$0.1430^{+0.0039}_{-0.0039}$	$100\theta_{\text{eq}}$	0.8136	$0.813^{+0.018}_{-0.017}$	χ^2_{small}	395.90	$397.2 (\nu: 1.4)$
$\Omega_{\text{m}} h^3$	0.09595	$0.0960^{+0.0013}_{-0.0012}$	$100\theta_{s,\text{eq}}$	0.4497	$0.4494^{+0.0092}_{-0.0087}$	χ^2_{lowl}	23.1	$23.9 (\nu: 2.6)$
σ_8	0.8100	$0.810^{+0.016}_{-0.017}$	$H(0.15)$	72.51	$72.5^{+1.6}_{-1.6}$	χ^2_{plik}	759.3	$772.8 (\nu: 15.2)$
S_8	0.8320	$0.833^{+0.042}_{-0.043}$	$D_M(0.15)$	645.0	645^{+16}_{-16}	χ^2_{prior}	1.4	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4557	$0.456^{+0.023}_{-0.024}$	$H(0.38)$	82.70	$82.7^{+1.2}_{-1.1}$	χ^2_{CMB}	1187.1	$1203.5 (\nu: 17.2)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6076	$0.608^{+0.019}_{-0.021}$	$D_M(0.38)$	1537.0	1537^{+32}_{-32}			

Best-fit $\chi^2_{\text{eff}} = 1188.53$; $\bar{\chi}^2_{\text{eff}} = 1210.83$; $R - 1 = 0.00920$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.88 simall_100x143_offlike5_EE_Aplanck_B: 395.90 commander_dx12_v3.2.29: 23.09 plik_rd12_HM.v22_TT: 759.26

15.18 base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02230^{+0.00062}_{-0.00056}$	$r_{\text{drag}} h$	99.62	$99.7^{+2.2}_{-2.2}$	$H(0.61)$	95.23	$95.32^{+0.68}_{-0.62}$
$\Omega_c h^2$	0.11914	$0.1191^{+0.0029}_{-0.0029}$	$\langle d^2 \rangle^{1/2}$	2.429	$2.424^{+0.061}_{-0.062}$	$D_M(0.61)$	2307.9	2305^{+29}_{-29}
$100\theta_{\text{MC}}$	1.04098	$1.0410^{+0.0010}_{-0.0011}$	z_{re}	7.73	$7.9^{+1.9}_{-2.0}$	$H(2.33)$	235.84	$235.9^{+1.9}_{-1.9}$
τ	0.0545	$0.056^{+0.021}_{-0.019}$	$10^9 A_s$	2.095	$2.107^{+0.086}_{-0.083}$	$D_M(2.33)$	5768.0	5764^{+32}_{-34}
$\ln(10^{10} A_s)$	3.0420	$3.048^{+0.040}_{-0.040}$	$10^9 A_s e^{-2\tau}$	1.8782	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	0.4557	$0.455^{+0.016}_{-0.016}$
n_s	0.9667	$0.966^{+0.011}_{-0.011}$	D_{40}	1222	1232^{+58}_{-51}	$\sigma_8(0.15)$	0.7471	$0.747^{+0.014}_{-0.014}$
$dn_s/d \ln k$	-0.00099	$-0.006^{+0.021}_{-0.022}$	D_{220}	5714	5723^{+110}_{-100}	$f\sigma_8(0.38)$	0.4740	$0.474^{+0.013}_{-0.014}$
r	0.000	< 0.216	D_{810}	2536.3	2540^{+35}_{-35}	$\sigma_8(0.38)$	0.6623	$0.663^{+0.013}_{-0.012}$
y_{cal}	1.0004	$1.0008^{+0.0061}_{-0.0065}$	D_{1420}	815.6	815^{+13}_{-13}	$f\sigma_8(0.51)$	0.4726	$0.473^{+0.012}_{-0.012}$
A_{217}^{CIB}	50.1	48^{+20}_{-20}	D_{2000}	229.95	$229.6^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	0.6198	$0.620^{+0.012}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.14	—	$n_{s,0.002}$	0.970	$0.986^{+0.071}_{-0.065}$	$f\sigma_8(0.61)$	0.4677	$0.468^{+0.011}_{-0.011}$
A_{143}^{tSZ}	7.1	—	Y_P	0.245328	$0.24536^{+0.00025}_{-0.00026}$	$\sigma_8(0.61)$	0.5897	$0.590^{+0.012}_{-0.011}$
A_{100}^{PS}	256	265^{+70}_{-70}	Y_P^{BBN}	0.246655	$0.24669^{+0.00025}_{-0.00026}$	$f\sigma_8(2.33)$	0.2974	$0.2976^{+0.0059}_{-0.0059}$
A_{143}^{PS}	47.0	50^{+20}_{-20}	10^5D/H	2.617	$2.60^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	0.3066	$0.3069^{+0.0064}_{-0.0063}$
$A_{143 \times 217}^{\text{PS}}$	42.2	43^{+20}_{-20}	Age/Gyr	13.809	$13.799^{+0.074}_{-0.079}$	$r_{0.002}$	0.000	< 0.236
A_{217}^{PS}	117.2	115^{+30}_{-30}	z_*	1090.06	$1089.93^{+0.82}_{-0.84}$	$r_{0.01}$	0.000	< 0.220
A^{kSZ}	0.0	—	r_*	144.78	$144.73^{+0.79}_{-0.77}$	$\ln(10^{10} A_t)$	-6.05	$-0.3^{+2.2}_{-4.0}$
A_{100}^{dustTT}	8.96	$8.9^{+4.8}_{-4.9}$	$100\theta_*$	1.04117	$1.0412^{+0.0010}_{-0.0011}$	r_{10}	0.000	< 0.126
A_{143}^{dustTT}	10.87	$10.7^{+4.7}_{-4.6}$	$D_M(z_*)/\text{Gpc}$	13.905	$13.901^{+0.077}_{-0.076}$	$10^9 A_t$	0.000	< 0.461
$A_{143 \times 217}^{\text{dustTT}}$	19.2	$18.3^{+8.3}_{-8.5}$	z_{drag}	1059.47	$1059.7^{+1.3}_{-1.3}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.408
A_{217}^{dustTT}	94.1	93^{+20}_{-20}	r_{drag}	147.50	$147.42^{+0.88}_{-0.87}$	f_{2000}^{143}	30.7	32^{+8}_{-8}
c_{100}	0.99962	$0.9996^{+0.0015}_{-0.0017}$	k_D	0.14031	$0.1405^{+0.0013}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.4	34^{+6}_{-6}
c_{217}	0.99827	$0.9983^{+0.0015}_{-0.0016}$	$100\theta_D$	0.16102	$0.16090^{+0.00075}_{-0.00075}$	f_{2000}^{217}	107.9	$108.4^{+5.2}_{-5.3}$
H_0	67.54	$67.6^{+1.3}_{-1.3}$	z_{eq}	3378	3378^{+67}_{-68}	χ^2_{lensing}	8.96	$9.49 (\nu: 0.3)$
Ω_Λ	0.6887	$0.690^{+0.017}_{-0.017}$	k_{eq}	0.010309	$0.01031^{+0.00021}_{-0.00021}$	χ^2_{small}	396.1	$397.5 (\nu: 1.7)$
Ω_m	0.3113	$0.310^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8173	$0.818^{+0.012}_{-0.012}$	χ^2_{lowl}	22.7	$23.5 (\nu: 2.3)$
$\Omega_m h^2$	0.14200	$0.1420^{+0.0028}_{-0.0028}$	$100\theta_{s,\text{eq}}$	0.4516	$0.4516^{+0.0065}_{-0.0063}$	χ^2_{plik}	759.8	$773.1 (\nu: 14.9)$
$\Omega_m h^3$	0.09590	$0.0961^{+0.0013}_{-0.0012}$	$H(0.15)$	72.81	$72.9^{+1.2}_{-1.1}$	$\chi^2_{6\text{DF}}$	0.031	$0.054 (\nu: 0.0)$
σ_8	0.8085	$0.809^{+0.015}_{-0.016}$	$D_M(0.15)$	641.9	641^{+11}_{-11}	χ^2_{MGS}	1.22	$1.32 (\nu: 0.1)$
S_8	0.8236	$0.823^{+0.031}_{-0.032}$	$H(0.38)$	82.91	$83.00^{+0.89}_{-0.85}$	χ^2_{DR12BAO}	4.41	$4.7 (\nu: 1.1)$
$\sigma_8 \Omega_m^{0.5}$	0.4511	$0.451^{+0.017}_{-0.017}$	$D_M(0.38)$	1531.0	1529^{+23}_{-23}	χ^2_{prior}	1.6	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_m^{0.25}$	0.6039	$0.604^{+0.016}_{-0.017}$	$H(0.51)$	89.62	$89.71^{+0.76}_{-0.71}$	χ^2_{CMB}	1187.5	$1203.5 (\nu: 16.4)$
$\sigma_8/h^{0.5}$	0.9838	$0.983^{+0.023}_{-0.024}$	$D_M(0.51)$	1983.3	1981^{+27}_{-27}	χ^2_{BAO}	5.66	$6.1 (\nu: 0.7)$

Best-fit $\chi^2_{\text{eff}} = 1194.69$; $\bar{\chi}^2_{\text{eff}} = 1216.99$; $R - 1 = 0.01565$
 χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.41 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.96 small_100x143.offlike5_EE_Aplanck_B: 396.06 comman-
der_dx12.v3.2.29: 22.68 plik_rd12_HM.v22_TT: 759.76

15.19 base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02224^{+0.00063}_{-0.00059}$	$\sigma_8/h^{0.5}$	$0.989^{+0.026}_{-0.028}$	$H(0.51)$	$89.51^{+0.98}_{-0.89}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0039}_{-0.0040}$	$r_{\mathrm{drag}}h$	$99.0^{+3.2}_{-3.0}$	$D_{\mathrm{M}}(0.51)$	1989^{+35}_{-38}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.072}_{-0.072}$	$H(0.61)$	$95.17^{+0.82}_{-0.74}$
τ	$0.055^{+0.020}_{-0.014}$	z_{re}	< 9.53	$D_{\mathrm{M}}(0.61)$	2314^{+38}_{-41}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.040}_{-0.030}$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.086}_{-0.062}$	$H(2.33)$	$236.4^{+2.4}_{-2.5}$
n_{s}	$0.964^{+0.013}_{-0.013}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(2.33)$	5770^{+37}_{-39}
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.006^{+0.020}_{-0.022}$	D_{40}	1234^{+60}_{-51}	$f\sigma_8(0.15)$	$0.460^{+0.021}_{-0.022}$
r	< 0.207	D_{220}	5716^{+110}_{-100}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
y_{cal}	$1.0006^{+0.0063}_{-0.0065}$	D_{810}	2539^{+34}_{-34}	$f\sigma_8(0.38)$	$0.477^{+0.016}_{-0.017}$
A_{217}^{CIB}	49^{+20}_{-20}	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{2000}	$229.3^{+4.9}_{-5.0}$	$f\sigma_8(0.51)$	$0.475^{+0.013}_{-0.015}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.984^{+0.070}_{-0.064}$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0094}$
A_{100}^{PS}	266^{+70}_{-70}	Y_{P}	$0.24534^{+0.00025}_{-0.00028}$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.013}$
A_{143}^{PS}	50^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00025}_{-0.00028}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0089}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.61^{+0.12}_{-0.11}$	$f\sigma_8(2.33)$	$0.2974^{+0.0060}_{-0.0045}$
A_{217}^{PS}	114^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.813^{+0.084}_{-0.089}$	$\sigma_8(2.33)$	$0.3064^{+0.0066}_{-0.0048}$
A^{kSZ}	—	z_*	$1090.09^{+0.95}_{-0.97}$	$r_{0.002}$	< 0.223
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.8}$	r_*	$144.54^{+0.99}_{-0.94}$	$r_{0.01}$	< 0.209
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.7}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.4^{+2.2}_{-4.0}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.5}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.884^{+0.093}_{-0.089}$	r_{10}	< 0.119
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.6^{+1.4}_{-1.3}$	$10^9 A_{\mathrm{t}}$	< 0.441
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.2^{+1.0}_{-1.0}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.391
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1406^{+0.0013}_{-0.0013}$	f_{2000}^{143}	32^{+8}_{-8}
H_0	$67.2^{+1.9}_{-1.7}$	$100\theta_{\mathrm{D}}$	$0.16094^{+0.00077}_{-0.00078}$	$f_{2000}^{143\times 217}$	34^{+6}_{-6}
Ω_{Λ}	$0.684^{+0.024}_{-0.025}$	z_{eq}	3399^{+88}_{-93}	f_{2000}^{217}	$108.6^{+5.3}_{-5.4}$
Ω_{m}	$0.316^{+0.025}_{-0.024}$	k_{eq}	$0.01037^{+0.00027}_{-0.00028}$	$\chi_{\mathrm{lensing}}^2$	$9.67\,(\nu: 0.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0037}_{-0.0039}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.018}_{-0.016}$	χ_{simall}^2	$397.1\,(\nu: 1.4)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0013}_{-0.0012}$	$100\theta_{\mathrm{s,eq}}$	$0.4496^{+0.0091}_{-0.0083}$	χ_{lowl}^2	$23.8\,(\nu: 2.6)$
σ_8	$0.811^{+0.016}_{-0.015}$	$H(0.15)$	$72.6^{+1.6}_{-1.5}$	χ_{plik}^2	$772.7\,(\nu: 15.2)$
S_8	$0.832^{+0.041}_{-0.043}$	$D_{\mathrm{M}}(0.15)$	645^{+15}_{-16}	χ_{prior}^2	$7.3\,(\nu: 6.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.023}_{-0.023}$	$H(0.38)$	$82.8^{+1.2}_{-1.1}$	χ_{CMB}^2	$1203.3\,(\nu: 16.9)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.019}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1536^{+30}_{-32}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1210.63; R - 1 = 0.00844$$

15.20 base_nrun_r_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00062}_{-0.00055}$	$r_{\mathrm{drag}} h$	$99.7^{+2.2}_{-2.1}$	$H(0.61)$	$95.32^{+0.67}_{-0.62}$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0028}_{-0.0029}$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.061}_{-0.062}$	$D_{\mathrm{M}}(0.61)$	2305^{+29}_{-30}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0010}_{-0.0011}$	z_{re}	< 9.64	$H(2.33)$	$235.9^{+1.9}_{-1.9}$
τ	$0.057^{+0.019}_{-0.015}$	$10^9 A_{\mathrm{s}}$	$2.109^{+0.084}_{-0.067}$	$D_{\mathrm{M}}(2.33)$	5763^{+32}_{-34}
$\ln(10^{10} A_{\mathrm{s}})$	$3.049^{+0.039}_{-0.032}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.15)$	$0.455^{+0.016}_{-0.016}$
n_{s}	$0.966^{+0.011}_{-0.011}$	D_{40}	1232^{+59}_{-51}	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.013}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.006^{+0.020}_{-0.022}$	D_{220}	5723^{+110}_{-100}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.014}$
r	< 0.220	D_{810}	2540^{+35}_{-35}	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.011}$
y_{cal}	$1.0008^{+0.0062}_{-0.0065}$	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{2000}	$229.6^{+4.8}_{-4.7}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.987^{+0.070}_{-0.065}$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.011}$
A_{143}^{tSZ}	—	Y_{P}	$0.24536^{+0.00025}_{-0.00025}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0092}$
A_{100}^{PS}	265^{+70}_{-70}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00025}_{-0.00026}$	$f\sigma_8(2.33)$	$0.2978^{+0.0058}_{-0.0046}$
A_{143}^{PS}	50^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.60^{+0.11}_{-0.11}$	$\sigma_8(2.33)$	$0.3071^{+0.0062}_{-0.0049}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.798^{+0.074}_{-0.078}$	$r_{0.002}$	< 0.237
A_{217}^{PS}	115^{+30}_{-30}	z_*	$1089.93^{+0.81}_{-0.84}$	$r_{0.01}$	< 0.224
A^{kSZ}	—	r_*	$144.73^{+0.79}_{-0.77}$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.3^{+2.2}_{-4.0}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.9}$	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011}$	r_{10}	< 0.126
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.8}_{-4.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.077}_{-0.076}$	$10^9 A_{\mathrm{t}}$	< 0.462
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-8.6}$	z_{drag}	$1059.7^{+1.3}_{-1.3}$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 0.415
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	r_{drag}	$147.43^{+0.88}_{-0.87}$	f_{2000}^{143}	32^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16090^{+0.00076}_{-0.00075}$	f_{2000}^{217}	$108.4^{+5.2}_{-5.3}$
H_0	$67.7^{+1.3}_{-1.3}$	z_{eq}	3378^{+67}_{-68}	$\chi_{\mathrm{lensing}}^2$	$9.46 (\nu: 0.3)$
Ω_{Λ}	$0.690^{+0.017}_{-0.017}$	k_{eq}	$0.01031^{+0.00020}_{-0.00021}$	χ_{simall}^2	$397.4 (\nu: 1.8)$
Ω_{m}	$0.310^{+0.017}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012}$	χ_{lowl}^2	$23.5 (\nu: 2.3)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0028}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0065}_{-0.0063}$	χ_{plik}^2	$773.0 (\nu: 14.9)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0013}_{-0.0012}$	$H(0.15)$	$72.9^{+1.2}_{-1.1}$	$\chi_{6\mathrm{DF}}^2$	$0.052 (\nu: 0.0)$
σ_8	$0.809^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.15)$	641^{+11}_{-11}	χ_{MGS}^2	$1.33 (\nu: 0.1)$
S_8	$0.823^{+0.031}_{-0.032}$	$H(0.38)$	$83.01^{+0.89}_{-0.84}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1529^{+22}_{-23}	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016}$	$H(0.51)$	$89.71^{+0.76}_{-0.70}$	χ_{CMB}^2	$1203.4 (\nu: 16.3)$
$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1981^{+26}_{-27}	χ_{BAO}^2	$6.1 (\nu: 0.7)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1216.87; R - 1 = 0.01475$$

15.21 base_nrun_r_plikHM_TTTEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022398	$0.02243^{+0.00040}_{-0.00038}$	σ_8	0.8121	$0.811^{+0.016}_{-0.015}$	$H(0.38)$	82.86	$82.93^{+0.89}_{-0.85}$
$\Omega_c h^2$	0.12015	$0.1199^{+0.0031}_{-0.0029}$	S_8	0.8333	$0.830^{+0.033}_{-0.032}$	$D_M(0.38)$	1533.9	1532^{+23}_{-24}
$100\theta_{MC}$	1.04094	$1.04093^{+0.00078}_{-0.00076}$	$\sigma_8 \Omega_m^{0.5}$	0.4564	$0.455^{+0.018}_{-0.017}$	$H(0.51)$	89.63	$89.69^{+0.72}_{-0.68}$
τ	0.0546	$0.056^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6088	$0.607^{+0.017}_{-0.016}$	$D_M(0.51)$	1986.3	1984^{+27}_{-28}
$\ln(10^{10} A_s)$	3.0464	$3.049^{+0.043}_{-0.039}$	$\sigma_8/h^{0.5}$	0.9897	$0.987^{+0.024}_{-0.023}$	$H(0.61)$	95.29	$95.33^{+0.60}_{-0.55}$
n_s	0.9654	$0.965^{+0.011}_{-0.011}$	$r_{\text{drag}} h$	98.99	$99.2^{+2.4}_{-2.3}$	$D_M(0.61)$	2310.7	2308^{+30}_{-30}
$dn_s/d \ln k$	-0.0025	$-0.008^{+0.019}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.431^{+0.061}_{-0.062}$	$H(2.33)$	236.69	$236.6^{+1.8}_{-1.7}$
r	0.001	< 0.215	z_{re}	7.71	$7.8^{+2.0}_{-2.1}$	$D_M(2.33)$	5762.6	5761^{+26}_{-28}
y_{cal}	1.0006	$1.0007^{+0.0064}_{-0.0064}$	$10^9 A_s$	2.104	$2.110^{+0.092}_{-0.080}$	$f\sigma_8(0.15)$	0.4606	$0.459^{+0.017}_{-0.016}$
A_{217}^{CIB}	47.4	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8862	$1.886^{+0.029}_{-0.028}$	$\sigma_8(0.15)$	0.7500	$0.749^{+0.014}_{-0.013}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.47	—	D_{40}	1225	1233^{+56}_{-49}	$f\sigma_8(0.38)$	0.4780	$0.477^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{220}	5733	5729^{+100}_{-100}	$\sigma_8(0.38)$	0.6643	$0.664^{+0.013}_{-0.012}$
A_{100}^{PS}	251	264^{+70}_{-70}	D_{810}	2542.8	2542^{+35}_{-34}	$f\sigma_8(0.51)$	0.4761	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	49.3	48^{+20}_{-20}	D_{1420}	818.1	816^{+13}_{-13}	$\sigma_8(0.51)$	0.6215	$0.621^{+0.013}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	49.2	43^{+20}_{-20}	D_{2000}	231.06	$230.0^{+4.7}_{-4.6}$	$f\sigma_8(0.61)$	0.4708	$0.470^{+0.011}_{-0.011}$
A_{217}^{PS}	120.2	115^{+30}_{-30}	$n_{s,0.002}$	0.973	$0.992^{+0.062}_{-0.058}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	Y_{P}	0.245407	$0.24542^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0064}_{-0.0057}$
A_{100}^{dustTT}	8.87	$9.0^{+4.8}_{-4.8}$	$Y_{\text{P}}^{\text{BBN}}$	0.246733	$0.24674^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	0.3070	$0.3068^{+0.0069}_{-0.0062}$
A_{143}^{dustTT}	11.05	$11.0^{+4.5}_{-4.6}$	$10^5 D/H$	2.580	$2.575^{+0.072}_{-0.071}$	$r_{0.002}$	0.001	< 0.229
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.7^{+8.3}_{-8.6}$	Age/Gyr	13.795	$13.791^{+0.059}_{-0.062}$	$r_{0.01}$	0.001	< 0.217
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	z_*	1089.90	$1089.84^{+0.67}_{-0.66}$	$\ln(10^{10} A_t)$	-4.27	$-0.2^{+2.0}_{-4.0}$
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.097}$	r_*	144.37	$144.41^{+0.66}_{-0.68}$	r_{10}	0.000	< 0.122
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.136^{+0.075}_{-0.076}$	$100\theta_*$	1.04111	$1.04111^{+0.00077}_{-0.00075}$	$10^9 A_t$	0.001	< 0.456
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.867	$13.871^{+0.062}_{-0.065}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.405
A_{143}^{dustTE}	0.224	$0.23^{+0.14}_{-0.14}$	z_{drag}	1060.01	$1060.06^{+0.82}_{-0.82}$	f_{2000}^{143}	29.3	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.20}_{-0.20}$	r_{drag}	147.02	$147.05^{+0.67}_{-0.70}$	$f_{2000}^{143 \times 217}$	32.4	33^{+5}_{-6}
A_{217}^{dustTE}	2.09	$2.08^{+0.70}_{-0.69}$	k_{D}	0.14096	$0.14095^{+0.00081}_{-0.00079}$	f_{2000}^{217}	106.9	$108.0^{+5.1}_{-5.2}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\text{D}}$	0.160717	$0.16068^{+0.00047}_{-0.00048}$	χ_{lensing}^2	8.96	$9.56 (\nu: 0.3)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3406	3401^{+69}_{-66}	χ_{small}^2	396.06	$397.4 (\nu: 1.7)$
H_0	67.33	$67.4^{+1.4}_{-1.4}$	k_{eq}	0.010397	$0.01038^{+0.00021}_{-0.00020}$	χ_{lowl}^2	22.66	$23.4 (\nu: 1.8)$
Ω_{Λ}	0.6841	$0.686^{+0.018}_{-0.019}$	$100\theta_{\text{eq}}$	0.8126	$0.814^{+0.013}_{-0.013}$	χ_{plik}^2	2345.1	$2360.6 (\nu: 17.6)$
Ω_{m}	0.3159	$0.314^{+0.019}_{-0.018}$	$100\theta_{\text{s,eq}}$	0.4490	$0.4495^{+0.0064}_{-0.0065}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.5)$
$\Omega_{\text{m}} h^2$	0.14319	$0.1430^{+0.0029}_{-0.0028}$	$H(0.15)$	72.66	$72.8^{+1.2}_{-1.2}$	χ_{CMB}^2	2772.8	$2791.0 (\nu: 19.4)$
$\Omega_{\text{m}} h^3$	0.09641	$0.09642^{+0.00081}_{-0.00078}$	$D_M(0.15)$	643.6	643^{+12}_{-12}			

Best-fit $\chi_{\text{eff}}^2 = 2774.45$; $\bar{\chi}_{\text{eff}}^2 = 2802.59$; $R - 1 = 0.00905$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.96 simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2_29: 22.66 plik_rd12_HM_v22b_TTTEE: 2345.10

15.22 base_nrun_r_plikHM_TTTEE_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022442	$0.02248^{+0.00037}_{-0.00037}$	S_8	0.8260	$0.824^{+0.028}_{-0.026}$	$H(0.51)$	89.77	$89.82^{+0.58}_{-0.56}$
$\Omega_c h^2$	0.11941	$0.1193^{+0.0025}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	0.4524	$0.451^{+0.015}_{-0.014}$	$D_M(0.51)$	1980.2	1978^{+22}_{-22}
$100\theta_{MC}$	1.04098	$1.04101^{+0.00074}_{-0.00072}$	$\sigma_8 \Omega_m^{0.25}$	0.6056	$0.605^{+0.015}_{-0.014}$	$H(0.61)$	95.390	$95.44^{+0.50}_{-0.48}$
τ	0.0569	$0.058^{+0.021}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9857	$0.984^{+0.021}_{-0.021}$	$D_M(0.61)$	2304.2	2302^{+24}_{-24}
$\ln(10^{10} A_s)$	3.0493	$3.052^{+0.041}_{-0.037}$	$r_{\text{drag}} h$	99.54	$99.7^{+1.8}_{-1.9}$	$H(2.33)$	236.25	$236.2^{+1.5}_{-1.4}$
n_s	0.9664	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.424^{+0.058}_{-0.060}$	$D_M(2.33)$	5758.5	5756^{+23}_{-24}
$dn_s/d \ln k$	-0.0037	$-0.008^{+0.019}_{-0.020}$	z_{re}	7.92	$8.0^{+2.0}_{-1.9}$	$f\sigma_8(0.15)$	0.4570	$0.456^{+0.014}_{-0.013}$
r	0.000	< 0.217	$10^9 A_s$	2.110	$2.115^{+0.089}_{-0.077}$	$\sigma_8(0.15)$	0.7491	$0.749^{+0.015}_{-0.013}$
y_{cal}	1.0007	$1.0008^{+0.0064}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8831	$1.884^{+0.028}_{-0.027}$	$f\sigma_8(0.38)$	0.4754	$0.475^{+0.012}_{-0.011}$
A_{217}^{CIB}	49.0	48^{+20}_{-20}	D_{40}	1220	1231^{+57}_{-49}	$\sigma_8(0.38)$	0.6640	$0.664^{+0.013}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.19	—	D_{220}	5736	5733^{+100}_{-99}	$f\sigma_8(0.51)$	0.4740	$0.473^{+0.011}_{-0.010}$
A_{143}^{tSZ}	7.3	—	D_{810}	2541.5	2542^{+34}_{-34}	$\sigma_8(0.51)$	0.6214	$0.621^{+0.012}_{-0.011}$
A_{100}^{PS}	253	263^{+70}_{-70}	D_{1420}	817.6	817^{+13}_{-13}	$f\sigma_8(0.61)$	0.4690	$0.4684^{+0.0099}_{-0.0098}$
A_{143}^{PS}	45.1	48^{+20}_{-20}	D_{2000}	230.85	$230.3^{+4.6}_{-4.6}$	$\sigma_8(0.61)$	0.5913	$0.591^{+0.012}_{-0.010}$
$A_{143 \times 217}^{\text{PS}}$	41.9	42^{+20}_{-20}	$n_{s,0.002}$	0.978	$0.993^{+0.063}_{-0.059}$	$f\sigma_8(2.33)$	0.2981	$0.2981^{+0.0062}_{-0.0053}$
A_{217}^{PS}	117.4	114^{+30}_{-30}	Y_P	0.245423	$0.24543^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	0.3074	$0.3074^{+0.0065}_{-0.0057}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246750	$0.24676^{+0.00014}_{-0.00015}$	$r_{0.002}$	0.000	< 0.231
$A_{100}^{\text{dust}TT}$	8.93	$9.0^{+4.6}_{-4.9}$	$10^5 D/H$	2.572	$2.567^{+0.069}_{-0.066}$	$r_{0.01}$	0.000	< 0.218
$A_{143}^{\text{dust}TT}$	11.01	$11.0^{+4.5}_{-4.6}$	Age/Gyr	13.786	$13.781^{+0.053}_{-0.053}$	$\ln(10^{10} A_t)$	-4.68	$-0.1^{+1.9}_{-4.0}$
$A_{143 \times 217}^{\text{dust}TT}$	19.4	$18.6^{+8.3}_{-8.4}$	z_*	1089.78	$1089.72^{+0.58}_{-0.56}$	r_{10}	0.000	< 0.122
$A_{217}^{\text{dust}TT}$	94.4	93^{+20}_{-20}	r_*	144.53	$144.54^{+0.55}_{-0.58}$	$10^9 A_t$	0.001	< 0.460
$A_{100}^{\text{dust}TE}$	0.114	$0.115^{+0.10}_{-0.098}$	$100\theta_*$	1.04115	$1.04118^{+0.00073}_{-0.00071}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.409
$A_{100 \times 143}^{\text{dust}TE}$	0.136	$0.136^{+0.077}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	13.882	$13.883^{+0.053}_{-0.057}$	f_{2000}^{143}	29.6	31^{+8}_{-8}
$A_{100 \times 217}^{\text{dust}TE}$	0.481	$0.48^{+0.21}_{-0.22}$	z_{drag}	1060.05	$1060.12^{+0.80}_{-0.80}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-6}
$A_{143}^{\text{dust}TE}$	0.225	$0.23^{+0.14}_{-0.14}$	r_{drag}	147.17	$147.17^{+0.57}_{-0.63}$	f_{2000}^{217}	107.2	$107.9^{+5.0}_{-5.1}$
$A_{143 \times 217}^{\text{dust}TE}$	0.663	$0.66^{+0.21}_{-0.20}$	k_D	0.14084	$0.14086^{+0.00080}_{-0.00074}$	χ_{lensing}^2	8.84	$9.42 (\nu: 0.2)$
$A_{217}^{\text{dust}TE}$	2.07	$2.07^{+0.72}_{-0.68}$	$100\theta_D$	0.160687	$0.16065^{+0.00046}_{-0.00046}$	χ_{small}^2	396.5	$397.7 (\nu: 2.1)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3390	3387^{+56}_{-52}	χ_{lowl}^2	22.19	$23.2 (\nu: 1.8)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	k_{eq}	0.010346	$0.01034^{+0.00017}_{-0.00016}$	χ_{plik}^2	2345.4	$2360.6 (\nu: 17.5)$
H_0	67.64	$67.7^{+1.1}_{-1.1}$	$100\theta_{\text{eq}}$	0.8158	$0.8164^{+0.0099}_{-0.010}$	$\chi_{6\text{DF}}^2$	0.037	$0.049 (\nu: 0.0)$
Ω_Λ	0.6885	$0.690^{+0.014}_{-0.015}$	$100\theta_{s,\text{eq}}$	0.4506	$0.4509^{+0.0050}_{-0.0053}$	χ_{MGS}^2	1.16	$1.29 (\nu: 0.1)$
Ω_m	0.3115	$0.310^{+0.015}_{-0.014}$	$H(0.15)$	72.92	$73.01^{+0.94}_{-0.94}$	χ_{DR12BAO}^2	4.62	$4.7 (\nu: 0.8)$
$\Omega_m h^2$	0.14250	$0.1424^{+0.0023}_{-0.0022}$	$D_M(0.15)$	640.9	$640.1^{+9.4}_{-9.2}$	χ_{prior}^2	1.9	$11.7 (\nu: 10.4)$
$\Omega_m h^3$	0.09638	$0.09643^{+0.00079}_{-0.00079}$	$H(0.38)$	83.04	$83.11^{+0.71}_{-0.70}$	χ_{CMB}^2	2772.8	$2790.9 (\nu: 19.1)$
σ_8	0.8107	$0.810^{+0.016}_{-0.015}$	$D_M(0.38)$	1528.6	1527^{+19}_{-19}	χ_{BAO}^2	5.81	$6.1 (\nu: 0.5)$

Best-fit $\chi_{\text{eff}}^2 = 2780.54$; $\bar{\chi}_{\text{eff}}^2 = 2808.64$; $R - 1 = 0.01143$

χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.62 CMB - smicadx12_Dec5.ftl.mv2.ndclpp_p.teb.consext8: 8.84 small_100x143.offlike5_EE_Aplanck_B: 396.45 commander_dx12.v3.2.29: 22.19 plik_rd12_HM.v22b_TTTEE: 2345.36

15.23 base_nrun_r_plikHM_TTTEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02243^{+0.00039}_{-0.00038}$	σ_8	$0.811^{+0.016}_{-0.014}$	$H(0.38)$	$82.95^{+0.89}_{-0.85}$
$\Omega_c h^2$	$0.1199^{+0.0030}_{-0.0029}$	S_8	$0.830^{+0.033}_{-0.032}$	$D_M(0.38)$	1532^{+23}_{-24}
$100\theta_{MC}$	$1.04094^{+0.00078}_{-0.00077}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.017}$	$H(0.51)$	$89.70^{+0.71}_{-0.67}$
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.017}_{-0.016}$	$D_M(0.51)$	1984^{+27}_{-28}
$\ln(10^{10} A_s)$	$3.051^{+0.042}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.988^{+0.024}_{-0.023}$	$H(0.61)$	$95.34^{+0.59}_{-0.55}$
n_s	$0.965^{+0.011}_{-0.011}$	$r_{\text{drag}} h$	$99.2^{+2.4}_{-2.3}$	$D_M(0.61)$	2308^{+29}_{-30}
$dn_s/d \ln k$	$-0.009^{+0.019}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.060}_{-0.062}$	$H(2.33)$	$236.5^{+1.8}_{-1.7}$
r	< 0.216	z_{re}	< 9.68	$D_M(2.33)$	5760^{+26}_{-27}
y_{cal}	$1.0007^{+0.0064}_{-0.0065}$	$10^9 A_s$	$2.113^{+0.090}_{-0.064}$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.016}$
A_{217}^{CIB}	48^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.886^{+0.029}_{-0.028}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1233^{+56}_{-49}	$f\sigma_8(0.38)$	$0.477^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{220}	5729^{+100}_{-100}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010}$
A_{100}^{PS}	264^{+70}_{-70}	D_{810}	2542^{+35}_{-35}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	48^{+20}_{-20}	D_{1420}	816^{+13}_{-13}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{2000}	$230.0^{+4.7}_{-4.6}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.992^{+0.062}_{-0.058}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0091}$
A^{kSZ}	—	Y_P	$0.24542^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	$0.2979^{+0.0063}_{-0.0046}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.8}$	Y_P^{BBN}	$0.24674^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	$0.3070^{+0.0068}_{-0.0049}$
A_{143}^{dustTT}	$11.0^{+4.5}_{-4.6}$	10^5D/H	$2.574^{+0.072}_{-0.071}$	$r_{0.002}$	< 0.230
$A_{143 \times 217}^{\text{dustTT}}$	$18.7^{+8.3}_{-8.7}$	Age/Gyr	$13.790^{+0.058}_{-0.061}$	$r_{0.01}$	< 0.218
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.83^{+0.66}_{-0.65}$	$\ln(10^{10} A_t)$	$-0.2^{+2.0}_{-4.0}$
A_{100}^{dustTE}	$0.115^{+0.10}_{-0.097}$	r_*	$144.42^{+0.66}_{-0.67}$	r_{10}	< 0.122
$A_{100 \times 143}^{\text{dustTE}}$	$0.136^{+0.075}_{-0.076}$	$100\theta_*$	$1.04111^{+0.00077}_{-0.00076}$	$10^9 A_t$	< 0.457
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.872^{+0.062}_{-0.064}$	$10^9 A_t e^{-2\tau}$	< 0.407
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	z_{drag}	$1060.07^{+0.82}_{-0.79}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	r_{drag}	$147.06^{+0.67}_{-0.69}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-6}
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.69}$	k_D	$0.14095^{+0.00080}_{-0.00079}$	f_{2000}^{217}	$108.0^{+5.2}_{-5.2}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16068^{+0.00047}_{-0.00047}$	χ_{lensing}^2	$9.55 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3400^{+68}_{-65}	χ_{simall}^2	$397.4 (\nu: 1.8)$
H_0	$67.5^{+1.4}_{-1.4}$	k_{eq}	$0.01038^{+0.00021}_{-0.00020}$	χ_{lowl}^2	$23.3 (\nu: 1.8)$
Ω_Λ	$0.686^{+0.018}_{-0.019}$	$100\theta_{\text{eq}}$	$0.814^{+0.013}_{-0.013}$	χ_{plik}^2	$2360.5 (\nu: 17.5)$
Ω_m	$0.314^{+0.019}_{-0.018}$	$100\theta_{s,\text{eq}}$	$0.4496^{+0.0064}_{-0.0064}$	χ_{prior}^2	$11.6 (\nu: 10.5)$
$\Omega_m h^2$	$0.1429^{+0.0028}_{-0.0027}$	$H(0.15)$	$72.8^{+1.2}_{-1.2}$	χ_{CMB}^2	$2790.8 (\nu: 19.1)$
$\Omega_m h^3$	$0.09642^{+0.00081}_{-0.00078}$	$D_M(0.15)$	642^{+12}_{-12}		

$$\bar{\chi}_{\text{eff}}^2 = 2802.46; R - 1 = 0.01057$$

15.24 base_nrun_r_plikHM_TTTEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02248^{+0.00037}_{-0.00037}$	S_8	$0.824^{+0.028}_{-0.026}$	$H(0.51)$	$89.83^{+0.58}_{-0.56}$
$\Omega_c h^2$	$0.1192^{+0.0025}_{-0.0023}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.014}$	$D_M(0.51)$	1978^{+22}_{-22}
$100\theta_{MC}$	$1.04101^{+0.00074}_{-0.00072}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.015}_{-0.014}$	$H(0.61)$	$95.44^{+0.50}_{-0.47}$
τ	$0.058^{+0.020}_{-0.016}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.021}$	$D_M(0.61)$	2302^{+24}_{-24}
$\ln(10^{10} A_s)$	$3.052^{+0.041}_{-0.032}$	$r_{\text{drag}} h$	$99.7^{+1.8}_{-1.8}$	$H(2.33)$	$236.2^{+1.5}_{-1.4}$
n_s	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.058}_{-0.060}$	$D_M(2.33)$	5756^{+23}_{-24}
$dn_s/d \ln k$	$-0.008^{+0.019}_{-0.020}$	z_{re}	< 9.77	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.013}$
r	< 0.217	$10^9 A_s$	$2.117^{+0.088}_{-0.066}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
y_{cal}	$1.0008^{+0.0064}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	$1.884^{+0.028}_{-0.027}$	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1231^{+57}_{-49}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5733^{+110}_{-99}	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
A_{143}^{tSZ}	—	D_{810}	2542^{+34}_{-34}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0099}$
A_{100}^{PS}	263^{+70}_{-70}	D_{1420}	817^{+13}_{-13}	$f\sigma_8(0.61)$	$0.4685^{+0.0099}_{-0.0098}$
A_{143}^{PS}	48^{+20}_{-20}	D_{2000}	$230.3^{+4.6}_{-4.6}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0094}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	$n_{s,0.002}$	$0.994^{+0.063}_{-0.060}$	$f\sigma_8(2.33)$	$0.2982^{+0.0061}_{-0.0047}$
A_{217}^{PS}	114^{+30}_{-30}	Y_P	$0.24543^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.3075^{+0.0064}_{-0.0050}$
A^{kSZ}	—	Y_P^{BBN}	$0.24676^{+0.00014}_{-0.00015}$	$r_{0.002}$	< 0.231
$A_{100}^{\text{dust}TT}$	$9.0^{+4.6}_{-4.8}$	10^5D/H	$2.566^{+0.069}_{-0.066}$	$r_{0.01}$	< 0.218
$A_{143}^{\text{dust}TT}$	$11.0^{+4.5}_{-4.6}$	Age/Gyr	$13.781^{+0.053}_{-0.054}$	$\ln(10^{10} A_t)$	$-0.1^{+1.9}_{-4.0}$
$A_{143 \times 217}^{\text{dust}TT}$	$18.6^{+8.3}_{-8.5}$	z_*	$1089.72^{+0.58}_{-0.56}$	r_{10}	< 0.122
$A_{217}^{\text{dust}TT}$	93^{+20}_{-20}	r_*	$144.55^{+0.55}_{-0.58}$	$10^9 A_t$	< 0.460
$A_{100}^{\text{dust}TE}$	$0.115^{+0.10}_{-0.098}$	$100\theta_*$	$1.04119^{+0.00073}_{-0.00071}$	$10^9 A_t e^{-2\tau}$	< 0.409
$A_{100 \times 143}^{\text{dust}TE}$	$0.136^{+0.077}_{-0.075}$	$D_M(z_*)/\text{Gpc}$	$13.883^{+0.053}_{-0.057}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100 \times 217}^{\text{dust}TE}$	$0.48^{+0.21}_{-0.22}$	z_{drag}	$1060.13^{+0.80}_{-0.81}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-6}
$A_{143}^{\text{dust}TE}$	$0.22^{+0.14}_{-0.14}$	r_{drag}	$147.17^{+0.58}_{-0.63}$	f_{2000}^{217}	$107.8^{+5.0}_{-5.1}$
$A_{143 \times 217}^{\text{dust}TE}$	$0.66^{+0.21}_{-0.20}$	k_D	$0.14086^{+0.00080}_{-0.00074}$	χ_{lensing}^2	$9.40 (\nu: 0.2)$
$A_{217}^{\text{dust}TE}$	$2.07^{+0.71}_{-0.68}$	$100\theta_D$	$0.16065^{+0.00046}_{-0.00046}$	χ_{simall}^2	$397.7 (\nu: 2.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3387^{+56}_{-52}	χ_{lowl}^2	$23.2 (\nu: 1.8)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{eq}	$0.01034^{+0.00017}_{-0.00016}$	χ_{plik}^2	$2360.5 (\nu: 17.5)$
H_0	$67.7^{+1.1}_{-1.1}$	$100\theta_{\text{eq}}$	$0.8165^{+0.0099}_{-0.010}$	$\chi_{6\text{DF}}^2$	$0.048 (\nu: 0.0)$
Ω_Λ	$0.690^{+0.014}_{-0.015}$	$100\theta_{s,\text{eq}}$	$0.4510^{+0.0050}_{-0.0053}$	χ_{MGS}^2	$1.30 (\nu: 0.1)$
Ω_m	$0.310^{+0.015}_{-0.014}$	$H(0.15)$	$73.02^{+0.94}_{-0.93}$	χ_{DR12BAO}^2	$4.7 (\nu: 0.8)$
$\Omega_m h^2$	$0.1424^{+0.0023}_{-0.0022}$	$D_M(0.15)$	$640.1^{+9.3}_{-9.1}$	χ_{prior}^2	$11.7 (\nu: 10.3)$
$\Omega_m h^3$	$0.09644^{+0.00079}_{-0.00080}$	$H(0.38)$	$83.12^{+0.71}_{-0.69}$	χ_{CMB}^2	$2790.8 (\nu: 19.0)$
σ_8	$0.810^{+0.015}_{-0.014}$	$D_M(0.38)$	1527^{+19}_{-18}	χ_{BAO}^2	$6.1 (\nu: 0.5)$

$$\bar{\chi}_{\text{eff}}^2 = 2808.56; R - 1 = 0.01181$$

15.25 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022298	$0.02234^{+0.00043}_{-0.00043} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4534	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_M(0.38)$	1533.3	$1532^{+25}_{-25} \quad (-0.0\sigma)$
$\Omega_c h^2$	0.11968	$0.1195^{+0.0032}_{-0.0033} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6056	$0.605^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$H(0.51)$	89.59	$89.65^{+0.76}_{-0.73} \quad (-0.1\sigma)$
$100\theta_{MC}$	1.04085	$1.04088^{+0.00080}_{-0.00079} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9855	$0.985^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_M(0.51)$	1985.9	$1984^{+30}_{-29} \quad (-0.0\sigma)$
τ	0.0534	$0.055^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$r_{drag} h$	99.23	$99.4^{+2.6}_{-2.5} \quad (+0.2\sigma)$	$H(0.61)$	95.23	$95.28^{+0.62}_{-0.59} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0405	$3.044^{+0.045}_{-0.040} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.435	$2.425^{+0.062}_{-0.064} \quad (-0.2\sigma)$	$D_M(0.61)$	2310.5	$2308^{+32}_{-32} \quad (-0.0\sigma)$
n_s	0.9659	$0.966^{+0.012}_{-0.012} \quad (+0.3\sigma)$	z_{re}	7.60	$7.7^{+2.1}_{-2.1} \quad (-0.1\sigma)$	$H(2.33)$	236.27	$236.2^{+2.0}_{-2.0} \quad (-0.5\sigma)$
$dn_s/d \ln k$	-0.0008	$-0.005^{+0.018}_{-0.020} \quad (+0.4\sigma)$	$10^9 A_s$	2.092	$2.099^{+0.096}_{-0.083} \quad (-0.3\sigma)$	$D_M(2.33)$	5766.9	$5764^{+28}_{-29} \quad (+0.4\sigma)$
r	0.020	$< 0.231 \quad (+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	1.8798	$1.881^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4578	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	1.0005	$1.0006^{+0.0062}_{-0.0067} \quad (-0.0\sigma)$	D_{40}	1231	$1239^{+58}_{-50} \quad (+0.3\sigma)$	$\sigma_8(0.15)$	0.7473	$0.747^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{PS}	235	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	5718	$5714^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4755	$0.475^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A_{143}^{PS}	40	$41^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	2536.2	$2537^{+34}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6621	$0.662^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	101.9	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	816.0	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	0.4738	$0.473^{+0.012}_{-0.012} \quad (-0.4\sigma)$
A_{217}^{CIB}	44.6	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.28	$229.9^{+4.9}_{-4.8} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	0.6195	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.54	$< 8.71 \quad (-0.7\sigma)$	$n_{s,0.002}$	0.968	$0.984^{+0.064}_{-0.058} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4686	$0.468^{+0.011}_{-0.011} \quad (-0.4\sigma)$
$r_{143 \times 217}^{PS}$	0.586	$0.65^{+0.31}_{-0.32}$	Y_P	0.245367	$0.24538^{+0.00016}_{-0.00019} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	0.5894	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	0.78	—	Y_P^{BBN}	0.246693	$0.24671^{+0.00016}_{-0.00019} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	0.2971	$0.2972^{+0.0062}_{-0.0059} \quad (-0.2\sigma)$
$\xi^{tSZ \times CIB}$	0.07	—	$10^5 D/H$	2.599	$2.593^{+0.082}_{-0.077} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	0.3062	$0.3064^{+0.0068}_{-0.0063} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	Age/Gyr	13.805	$13.800^{+0.064}_{-0.064} \quad (+0.4\sigma)$	$r_{0.002}$	0.018	$< 0.250 \quad (+0.3\sigma)$
A_{100}^{dust}	1.009	$1.01^{+0.49}_{-0.50}$	z_*	1089.98	$1089.92^{+0.73}_{-0.70} \quad (+0.3\sigma)$	$r_{0.01}$	0.019	$< 0.235 \quad (+0.3\sigma)$
A_{143}^{dust}	0.969	$0.96^{+0.46}_{-0.46}$	r_*	144.57	$144.58^{+0.75}_{-0.74} \quad (+0.6\sigma)$	$\ln(10^{10} A_t)$	-0.86	$0.1^{+1.8}_{-3.9} \quad (+0.2\sigma)$
A_{217}^{dust}	0.969	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	1.04104	$1.04107^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	r_{10}	0.009	$< 0.133 \quad (+0.3\sigma)$
$A_{143 \times 217}^{dust}$	1.003	$1.02^{+0.42}_{-0.40}$	$D_M(z_*)/Gpc$	13.887	$13.888^{+0.071}_{-0.070} \quad (+0.7\sigma)$	$10^9 A_t$	0.042	$< 0.491 \quad (+0.3\sigma)$
c_{100}	0.99769	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	1059.74	$1059.82^{+0.88}_{-0.92} \quad (-0.8\sigma)$	$10^9 A_t e^{-2\tau}$	0.038	$< 0.437 \quad (+0.3\sigma)$
c_{217}	1.00132	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	147.26	$147.26^{+0.77}_{-0.75} \quad (+0.7\sigma)$	f_{2000}^{143}	30.1	$30^{+9}_{-8} \quad (-0.2\sigma)$
c_{TE}	0.9966	$0.996^{+0.013}_{-0.012}$	k_D	0.14064	$0.14066^{+0.00086}_{-0.00090} \quad (-0.9\sigma)$	f_{2000}^{217}	106.9	$107.4^{+5.6}_{-5.4} \quad (-0.3\sigma)$
c_{EE}	0.9922	$0.992^{+0.013}_{-0.013}$	$100\theta_D$	0.16086	$0.16082^{+0.00054}_{-0.00051} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	67.38	$67.5^{+1.5}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	3393	$3390^{+73}_{-73} \quad (-0.4\sigma)$	$\chi^2_{lensing}$	8.89	$9.56 (\nu: 0.3) \quad (+0.0\sigma)$
Ω_Λ	0.6859	$0.687^{+0.019}_{-0.020} \quad (+0.2\sigma)$	k_{eq}	0.010355	$0.01035^{+0.00022}_{-0.00022} \quad (-0.4\sigma)$	χ^2_{small}	396.00	$397.4 (\nu: 1.5) \quad (-0.0\sigma)$
Ω_m	0.3141	$0.313^{+0.020}_{-0.019} \quad (-0.2\sigma)$	$100\theta_{eq}$	0.8147	$0.815^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ^2_{lowl}	23.5	$24.3 (\nu: 2.5) \quad (+0.5\sigma)$
$\Omega_m h^2$	0.14263	$0.1425^{+0.0030}_{-0.0031} \quad (-0.4\sigma)$	$100\theta_{s,eq}$	0.4502	$0.4505^{+0.0072}_{-0.0069} \quad (+0.4\sigma)$	$\chi^2_{CamSpec}$	11499.1	$11514.1 (\nu: 16.9)$
$\Omega_m h^3$	0.09611	$0.09616^{+0.00087}_{-0.00087} \quad (-0.8\sigma)$	$H(0.15)$	72.69	$72.8^{+1.3}_{-1.2} \quad (+0.0\sigma)$	χ^2_{prior}	2.1	$7.8 (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	0.8090	$0.809^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_M(0.15)$	643.2	$642^{+13}_{-12} \quad (-0.1\sigma)$	χ^2_{CMB}	11927.5	$11945.3 (\nu: 18.1) \quad (+1470.2\sigma)$
S_8	0.8278	$0.826^{+0.034}_{-0.033} \quad (-0.3\sigma)$	$H(0.38)$	82.85	$82.92^{+0.94}_{-0.91} \quad (-0.0\sigma)$			

Best-fit $\chi^2_{eff} = 11929.59$; $\Delta\chi^2_{eff} = 9155.14$; $\bar{\chi}^2_{eff} = 11953.15$; $\Delta\bar{\chi}^2_{eff} = 9150.56$; $R - 1 = 0.01351$

χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.89 (Δ -0.07) simall_100x143_offlike5_EE_Aplanck_B: 396.00 (Δ -0.06) commander_dx12_v3_2_29: 23.48 (Δ 0.81) CamSpec like_10.7HM_1400_unified: 11499.08

15.26 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00041}_{-0.00040} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+22}_{-23} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0025}_{-0.0025} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.61)$	$95.37^{+0.51}_{-0.49} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00075}_{-0.00076} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-1.9} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+24}_{-25} \quad (+0.1\sigma)$
τ	$0.056^{+0.021}_{-0.019} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.059}_{-0.060} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.6} \quad (-0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.046}_{-0.039} \quad (-0.4\sigma)$	z_{re}	$7.9^{+2.0}_{-2.0} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5761^{+24}_{-25} \quad (+0.5\sigma)$
n_{s}	$0.968^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.098}_{-0.081} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.005^{+0.018}_{-0.020} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.029} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
r	$< 0.239 \quad (+0.3\sigma)$	D_{40}	$1238^{+58}_{-50} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012} \quad (-0.3\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0068} \quad (-0.0\sigma)$	D_{220}	$5718^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.013} \quad (-0.3\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.8\sigma)$	D_{810}	$2538^{+34}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.1^{+4.9}_{-4.8} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0098} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.985^{+0.064}_{-0.058} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.76 \quad (-0.7\sigma)$	Y_{P}	$0.24539^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0061}_{-0.0058} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0067}_{-0.0061} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.586^{+0.077}_{-0.073} \quad (+0.7\sigma)$	$r_{0.002}$	$< 0.260 \quad (+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.792^{+0.055}_{-0.056} \quad (+0.5\sigma)$	$r_{0.01}$	$< 0.245 \quad (+0.3\sigma)$
A^{kSZ}	—	z_*	$1089.83^{+0.62}_{-0.61} \quad (+0.5\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$0.1^{+1.8}_{-3.9} \quad (+0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.70^{+0.62}_{-0.59} \quad (+0.7\sigma)$	r_{10}	$< 0.138 \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	$100\theta_*$	$1.04114^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.506 \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.060}_{-0.057} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.450 \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	z_{drag}	$1059.87^{+0.90}_{-0.85} \quad (-0.8\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.36^{+0.66}_{-0.63} \quad (+0.8\sigma)$	f_{2000}^{217}	$107.3^{+5.6}_{-5.4} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0038}_{-0.0039} \quad (+4.8\sigma)$	k_{D}	$0.14058^{+0.00081}_{-0.00083} \quad (-0.9\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00051}_{-0.00051} \quad (+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.56 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{eq}	$3378^{+56}_{-57} \quad (-0.4\sigma)$	χ_{small}^2	$397.6 \quad (\nu: 1.8) \quad (-0.1\sigma)$
H_0	$67.7^{+1.1}_{-1.1} \quad (-0.0\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 2.4) \quad (+0.5\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.015} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 16.5)$
Ω_{m}	$0.310^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0056}_{-0.0054} \quad (+0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.042 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0023}_{-0.0024} \quad (-0.4\sigma)$	$H(0.15)$	$72.99^{+0.98}_{-0.95} \quad (-0.0\sigma)$	χ_{MGs}^2	$1.36 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09617^{+0.00086}_{-0.00088} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.2^{+9.5}_{-9.5} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.7) \quad (-0.2\sigma)$
σ_8	$0.808^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.07^{+0.74}_{-0.71} \quad (-0.1\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.821^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+19}_{-19} \quad (+0.1\sigma)$	χ_{CMB}^2	$11945.2 \quad (\nu: 17.4) \quad (+1481.2\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.51)$	$89.77^{+0.61}_{-0.58} \quad (-0.2\sigma)$	χ_{BAO}^2	$5.93 \quad (\nu: 0.4) \quad (-0.1\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.98; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 9150.35; R - 1 = 0.01470$$

15.27 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00042}_{-0.00042} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1531^{+25}_{-25} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0032}_{-0.0032} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$H(0.51)$	$89.66^{+0.75}_{-0.72} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00080}_{-0.00080} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1983^{+29}_{-29} \quad (-0.0\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.4^{+2.5}_{-2.5} \quad (+0.2\sigma)$	$H(0.61)$	$95.29^{+0.62}_{-0.58} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.044}_{-0.030} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.062}_{-0.065} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2308^{+31}_{-31} \quad (-0.0\sigma)$
n_{s}	$0.966^{+0.012}_{-0.012} \quad (+0.4\sigma)$	z_{re}	$< 9.57 \quad (-0.1\sigma)$	$H(2.33)$	$236.2^{+1.9}_{-1.9} \quad (-0.5\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.006^{+0.019}_{-0.020} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.094}_{-0.062} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+28}_{-28} \quad (+0.4\sigma)$
r	$< 0.232 \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0067} \quad (-0.0\sigma)$	D_{40}	$1239^{+58}_{-50} \quad (+0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5714^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2537^{+34}_{-36} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.9^{+4.9}_{-4.8} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0094} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.71 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.985^{+0.064}_{-0.059} \quad (-0.3\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	Y_{P}	$0.24538^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0089} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0060}_{-0.0046} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.080}_{-0.076} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0066}_{-0.0050} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.799^{+0.063}_{-0.064} \quad (+0.4\sigma)$	$r_{0.002}$	$< 0.251 \quad (+0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	z_*	$1089.91^{+0.72}_{-0.70} \quad (+0.3\sigma)$	$r_{0.01}$	$< 0.235 \quad (+0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.46}$	r_*	$144.59^{+0.75}_{-0.73} \quad (+0.6\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$0.1^{+1.8}_{-3.9} \quad (+0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.04108^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	r_{10}	$< 0.133 \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.071}_{-0.069} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.493 \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.83^{+0.91}_{-0.93} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.438 \quad (+0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.27^{+0.77}_{-0.76} \quad (+0.8\sigma)$	f_{2000}^{143}	$30^{+9}_{-8} \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14066^{+0.00086}_{-0.00089} \quad (-0.9\sigma)$	f_{2000}^{217}	$107.4^{+5.6}_{-5.4} \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00054}_{-0.00051} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.5^{+1.5}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	$3389^{+72}_{-72} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.53 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_{Λ}	$0.687^{+0.019}_{-0.020} \quad (+0.2\sigma)$	k_{eq}	$0.01034^{+0.00022}_{-0.00022} \quad (-0.4\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{m}	$0.313^{+0.020}_{-0.019} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013} \quad (+0.4\sigma)$	χ_{lowl}^2	$24.2 \quad (\nu: 2.5) \quad (+0.5\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0030}_{-0.0030} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4506^{+0.0072}_{-0.0068} \quad (+0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 16.9)$
$\Omega_{\mathrm{m}} h^3$	$0.09616^{+0.00087}_{-0.00087} \quad (-0.8\sigma)$	$H(0.15)$	$72.8^{+1.3}_{-1.2} \quad (+0.1\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
σ_8	$0.809^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+12}_{-12} \quad (-0.1\sigma)$	χ_{CMB}^2	$11945.1 \quad (\nu: 17.9) \quad (+1479.6\sigma)$
S_8	$0.826^{+0.034}_{-0.033} \quad (-0.3\sigma)$	$H(0.38)$	$82.94^{+0.93}_{-0.90} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11953.00; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.54; R - 1 = 0.01489$$

15.28 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02238^{+0.00041}_{-0.00040} \quad (-0.7\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.014}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+22}_{-23} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0024}_{-0.0025} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.020} \quad (-0.3\sigma)$	$H(0.61)$	$95.38^{+0.51}_{-0.49} \quad (-0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04096^{+0.00075}_{-0.00076} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.0}_{-1.9} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+24}_{-25} \quad (+0.1\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.059}_{-0.060} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.6} \quad (-0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.047^{+0.045}_{-0.032} \quad (-0.4\sigma)$	z_{re}	$< 9.67 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5760^{+24}_{-25} \quad (+0.5\sigma)$
n_{s}	$0.968^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.096}_{-0.066} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.014}_{-0.014} \quad (-0.3\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	$-0.006^{+0.018}_{-0.020} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.029} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.012} \quad (-0.3\sigma)$
r	$< 0.239 \quad (+0.3\sigma)$	D_{40}	$1238^{+58}_{-50} \quad (+0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.011} \quad (-0.3\sigma)$
y_{cal}	$1.0008^{+0.0061}_{-0.0068} \quad (-0.0\sigma)$	D_{220}	$5718^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.011} \quad (-0.3\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.8\sigma)$	D_{810}	$2538^{+34}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0099} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.1^{+4.9}_{-4.8} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0094} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.985^{+0.064}_{-0.058} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0094} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.7\sigma)$	Y_{P}	$0.24540^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0061}_{-0.0048} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00015}_{-0.00017} \quad (-0.7\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0065}_{-0.0050} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.585^{+0.076}_{-0.073} \quad (+0.7\sigma)$	$r_{0.002}$	$< 0.260 \quad (+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.791^{+0.055}_{-0.056} \quad (+0.5\sigma)$	$r_{0.01}$	$< 0.245 \quad (+0.3\sigma)$
A^{kSZ}	—	z_*	$1089.82^{+0.62}_{-0.61} \quad (+0.5\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$0.1^{+1.8}_{-3.9} \quad (+0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.70^{+0.62}_{-0.59} \quad (+0.7\sigma)$	r_{10}	$< 0.138 \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	$100\theta_*$	$1.04114^{+0.00075}_{-0.00075} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.507 \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.060}_{-0.057} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.450 \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	z_{drag}	$1059.87^{+0.90}_{-0.86} \quad (-0.8\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.37^{+0.66}_{-0.64} \quad (+0.8\sigma)$	f_{2000}^{217}	$107.3^{+5.6}_{-5.4} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0038}_{-0.0040} \quad (+4.8\sigma)$	k_{D}	$0.14058^{+0.00082}_{-0.00082} \quad (-0.9\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00051}_{-0.00051} \quad (+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.52 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{eq}	$3377^{+56}_{-57} \quad (-0.4\sigma)$	χ_{small}^2	$397.6 \quad (\nu: 1.8) \quad (-0.1\sigma)$
H_0	$67.7^{+1.1}_{-1.1} \quad (-0.0\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 2.4) \quad (+0.5\sigma)$
Ω_{Λ}	$0.691^{+0.015}_{-0.015} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 16.5)$
Ω_{m}	$0.309^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0056}_{-0.0053} \quad (+0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.040 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0023}_{-0.0024} \quad (-0.4\sigma)$	$H(0.15)$	$73.00^{+0.97}_{-0.94} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09617^{+0.00086}_{-0.00088} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.1^{+9.4}_{-9.5} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.7) \quad (-0.2\sigma)$
σ_8	$0.809^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$H(0.38)$	$83.08^{+0.74}_{-0.70} \quad (-0.1\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.821^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+19}_{-19} \quad (+0.1\sigma)$	χ_{CMB}^2	$11945.1 \quad (\nu: 17.3) \quad (+1484.3\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.51)$	$89.77^{+0.61}_{-0.57} \quad (-0.2\sigma)$	χ_{BAO}^2	$5.90 \quad (\nu: 0.4) \quad (-0.1\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 11958.86$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.30$; $R - 1 = 0.01525$

15.29 base_nrun_r_plikHM_TT_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02212	$0.02215^{+0.00061}_{-0.00059}$	$\Omega_{\mathrm{m}}h^3$	0.09601	$0.0960^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(0.15)$	651.0	650^{+21}_{-20}
$\Omega_{\mathrm{c}}h^2$	0.1217	$0.1213^{+0.0054}_{-0.0052}$	σ_8	0.8159	$0.815^{+0.023}_{-0.023}$	$H(0.38)$	82.29	$82.4^{+1.4}_{-1.4}$
$100\theta_{\mathrm{MC}}$	1.04064	$1.0407^{+0.0012}_{-0.0012}$	S_8	0.852	$0.848^{+0.062}_{-0.059}$	$D_{\mathrm{M}}(0.38)$	1549.0	1546^{+41}_{-40}
τ	0.0531	$0.054^{+0.024}_{-0.022}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4665	$0.464^{+0.034}_{-0.033}$	$H(0.51)$	89.16	$89.3^{+1.1}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0459	$3.048^{+0.048}_{-0.046}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6169	$0.615^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(0.51)$	2004.1	2001^{+47}_{-46}
n_{s}	0.9607	$0.961^{+0.015}_{-0.015}$	$\sigma_8/h^{0.5}$	1.0007	$0.998^{+0.040}_{-0.040}$	$H(0.61)$	94.89	$94.97^{+0.92}_{-0.85}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	-0.0042	$-0.006^{+0.020}_{-0.019}$	$r_{\mathrm{drag}}h$	97.68	$98.0^{+4.1}_{-4.0}$	$D_{\mathrm{M}}(0.61)$	2330	2326^{+50}_{-50}
r	0.0135	< 0.0804	$\langle d^2 \rangle^{1/2}$	2.465	$2.459^{+0.097}_{-0.096}$	$H(2.33)$	237.39	$237.2^{+3.3}_{-3.2}$
y_{cal}	1.0004	$1.0006^{+0.0064}_{-0.0064}$	z_{re}	7.64	$7.7^{+2.2}_{-2.4}$	$D_{\mathrm{M}}(2.33)$	5781.6	5778^{+41}_{-42}
$A_{B,\mathrm{dust}}$	4.64	$4.9^{+3.2}_{-2.2}$	$10^9 A_{\mathrm{s}}$	2.103	$2.11^{+0.10}_{-0.094}$	$f\sigma_8(0.15)$	0.4698	$0.468^{+0.031}_{-0.030}$
$A_{B,\mathrm{sync}}$	1.47	< 4.90	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8909	$1.891^{+0.037}_{-0.037}$	$\sigma_8(0.15)$	0.7525	$0.752^{+0.020}_{-0.019}$
$\alpha_{B,\mathrm{dust}}$	-0.54	—	D_{40}	1232	1232^{+56}_{-53}	$f\sigma_8(0.38)$	0.4848	$0.483^{+0.024}_{-0.024}$
$\beta_{B,\mathrm{dust}}$	1.578	$1.60^{+0.25}_{-0.25}$	D_{220}	5707	5712^{+110}_{-110}	$\sigma_8(0.38)$	0.6653	$0.665^{+0.016}_{-0.015}$
$\alpha_{B,\mathrm{sync}}$	-0.33	—	D_{810}	2539.7	2540^{+37}_{-36}	$f\sigma_8(0.51)$	0.4815	$0.480^{+0.020}_{-0.021}$
$\beta_{B,\mathrm{sync}}$	-3.03	$-3.10^{+0.67}_{-0.74}$	D_{1420}	814.2	814^{+13}_{-13}	$\sigma_8(0.51)$	0.6220	$0.622^{+0.015}_{-0.014}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.35	< 0.363	D_{2000}	229.30	$229.0^{+5.0}_{-4.9}$	$f\sigma_8(0.61)$	0.4753	$0.474^{+0.018}_{-0.018}$
A_{217}^{CIB}	50.7	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	0.974	$0.981^{+0.062}_{-0.061}$	$\sigma_8(0.61)$	0.5914	$0.591^{+0.014}_{-0.013}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.09	—	Y_{P}	0.245292	$0.24530^{+0.00024}_{-0.00028}$	$f\sigma_8(2.33)$	0.2976	$0.2976^{+0.0071}_{-0.0066}$
A_{143}^{tSZ}	7.1	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246618	$0.24663^{+0.00024}_{-0.00028}$	$\sigma_8(2.33)$	0.3062	$0.3063^{+0.0076}_{-0.0070}$
A_{100}^{PS}	258	267^{+70}_{-70}	$10^5\mathrm{D}/\mathrm{H}$	2.633	$2.63^{+0.11}_{-0.11}$	$r_{0.002}$	0.0122	< 0.0778
A_{143}^{PS}	47.8	51^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	13.838	$13.831^{+0.094}_{-0.095}$	$r_{0.01}$	0.0128	< 0.0780
$A_{143\times 217}^{\mathrm{PS}}$	41.8	44^{+20}_{-20}	z_*	1090.38	$1090.3^{+1.1}_{-1.0}$	$\ln(10^{10}A_{\mathrm{t}})$	-1.26	$-0.9^{+1.7}_{-3.7}$
A_{217}^{PS}	117.3	115^{+30}_{-30}	r_*	144.19	$144.3^{+1.3}_{-1.2}$	r_{10}	0.0063	< 0.0405
A^{kSZ}	0.0	—	$100\theta_*$	1.04086	$1.0409^{+0.0012}_{-0.0012}$	$10^9 A_{\mathrm{t}}$	0.028	< 0.170
$A_{100}^{\mathrm{dust}TT}$	8.89	$9.0^{+4.7}_{-4.7}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.853	$13.86^{+0.12}_{-0.11}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.026	< 0.151
$A_{143}^{\mathrm{dust}TT}$	10.80	$10.7^{+4.7}_{-4.6}$	z_{drag}	1059.47	$1059.5^{+1.3}_{-1.3}$	f_{2000}^{143}	31.4	32^{+8}_{-8}
$A_{143\times 217}^{\mathrm{dust}TT}$	19.1	$18.4^{+8.6}_{-8.6}$	r_{drag}	146.93	$147.0^{+1.3}_{-1.3}$	$f_{2000}^{143\times 217}$	34.0	34^{+6}_{-6}
$A_{217}^{\mathrm{dust}TT}$	94.0	93^{+20}_{-20}	k_{D}	0.14084	$0.1408^{+0.0014}_{-0.0015}$	f_{2000}^{217}	108.4	$108.9^{+5.3}_{-5.3}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	0.16102	$0.16100^{+0.00075}_{-0.00073}$	$\chi_{\mathrm{BKPLANCK}}^2$	734.7	$739.1 (\nu: 3.7)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3436	3429^{+120}_{-120}	χ_{small}^2	396.03	$397.3 (\nu: 1.9)$
H_0	66.48	$66.7^{+2.3}_{-2.3}$	k_{eq}	0.010487	$0.01046^{+0.00038}_{-0.00037}$	χ_{lowl}^2	23.3	$23.6 (\nu: 2.4)$
Ω_{Λ}	0.6732	$0.675^{+0.032}_{-0.035}$	$100\theta_{\mathrm{eq}}$	0.8064	$0.808^{+0.023}_{-0.022}$	χ_{plik}^2	759.2	$772.8 (\nu: 16.2)$
Ω_{m}	0.3268	$0.325^{+0.035}_{-0.032}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	0.4460	$0.447^{+0.012}_{-0.011}$	χ_{prior}^2	1.5	$8.9 (\nu: 8.1)$
$\Omega_{\mathrm{m}}h^2$	0.1444	$0.1441^{+0.0052}_{-0.0050}$	$H(0.15)$	71.92	$72.1^{+2.0}_{-2.0}$	χ_{CMB}^2	1913.3	$1932.8 (\nu: 19.7)$

Best-fit $\chi_{\mathrm{eff}}^2 = 1914.80$; $\bar{\chi}_{\mathrm{eff}}^2 = 1941.72$; $R - 1 = 0.00186$

χ_{eff}^2 : CMB - BK15_dust: 734.70 small_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3_2_29: 23.33 plik_rd12_HM_v22_TT: 759.19

15.30 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02227^{+0.00055}_{-0.00054}$	S_8	0.8255	$0.825^{+0.039}_{-0.038}$	$D_M(0.51)$	1983.5	1983^{+28}_{-28}
$\Omega_c h^2$	0.11928	$0.1192^{+0.0032}_{-0.0032}$	$\sigma_8 \Omega_m^{0.5}$	0.4522	$0.452^{+0.021}_{-0.021}$	$H(0.61)$	95.25	$95.28^{+0.65}_{-0.63}$
$100\theta_{MC}$	1.04097	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8 \Omega_m^{0.25}$	0.6051	$0.605^{+0.021}_{-0.020}$	$D_M(0.61)$	2308.0	2307^{+31}_{-30}
τ	0.0559	$0.056^{+0.024}_{-0.021}$	$\sigma_8/h^{0.5}$	0.9854	$0.985^{+0.030}_{-0.029}$	$H(2.33)$	235.96	$236.0^{+2.1}_{-2.0}$
$\ln(10^{10} A_s)$	3.0462	$3.048^{+0.050}_{-0.045}$	$r_{drag} h$	99.54	$99.6^{+2.5}_{-2.4}$	$D_M(2.33)$	5766.8	5765^{+32}_{-32}
n_s	0.9660	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.430	$2.428^{+0.075}_{-0.073}$	$f\sigma_8(0.15)$	0.4567	$0.456^{+0.020}_{-0.019}$
$dn_s/d \ln k$	-0.0041	$-0.006^{+0.020}_{-0.020}$	z_{re}	7.86	$7.9^{+2.2}_{-2.2}$	$\sigma_8(0.15)$	0.7481	$0.748^{+0.019}_{-0.017}$
r	0.0146	< 0.0853	$10^9 A_s$	2.104	$2.11^{+0.11}_{-0.092}$	$f\sigma_8(0.38)$	0.4750	$0.475^{+0.017}_{-0.017}$
y_{cal}	1.0006	$1.0008^{+0.0065}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8810	$1.882^{+0.032}_{-0.032}$	$\sigma_8(0.38)$	0.6631	$0.663^{+0.016}_{-0.015}$
$A_{B,dust}$	4.66	$4.9^{+3.2}_{-2.2}$	D_{40}	1222	1225^{+53}_{-51}	$f\sigma_8(0.51)$	0.4735	$0.473^{+0.015}_{-0.015}$
$A_{B,sync}$	1.51	< 4.87	D_{220}	5717	5721^{+110}_{-100}	$\sigma_8(0.51)$	0.6206	$0.621^{+0.015}_{-0.014}$
$\alpha_{B,dust}$	-0.50	—	D_{810}	2538.4	2539^{+37}_{-36}	$f\sigma_8(0.61)$	0.4685	$0.468^{+0.014}_{-0.014}$
$\beta_{B,dust}$	1.577	$1.60^{+0.25}_{-0.25}$	D_{1420}	815.4	815^{+13}_{-13}	$\sigma_8(0.61)$	0.5905	$0.590^{+0.014}_{-0.013}$
$\alpha_{B,sync}$	-0.16	—	D_{2000}	229.73	$229.5^{+4.9}_{-4.7}$	$f\sigma_8(2.33)$	0.2977	$0.2977^{+0.0073}_{-0.0065}$
$\beta_{B,sync}$	-3.03	$-3.10^{+0.68}_{-0.74}$	$n_{s,0.002}$	0.979	$0.984^{+0.063}_{-0.063}$	$\sigma_8(2.33)$	0.3069	$0.3069^{+0.0075}_{-0.0068}$
$\epsilon_{dust,sync}$	-0.33	< 0.357	Y_P	0.245343	$0.24535^{+0.00021}_{-0.00025}$	$r_{0.002}$	0.0134	< 0.0829
A_{217}^{CIB}	50.8	48^{+20}_{-20}	Y_P^{BBN}	0.246669	$0.24668^{+0.00022}_{-0.00025}$	$r_{0.01}$	0.0139	< 0.0831
$\xi^{tSZ \times CIB}$	0.05	—	$10^5 D/H$	2.610	$2.61^{+0.10}_{-0.10}$	$\ln(10^{10} A_t)$	-1.18	$-0.8^{+1.6}_{-3.6}$
A_{143}^{tSZ}	7.1	—	Age/Gyr	13.806	$13.803^{+0.075}_{-0.075}$	r_{10}	0.0069	< 0.0432
A_{100}^{PS}	259	266^{+70}_{-70}	z_*	1090.02	$1089.99^{+0.79}_{-0.79}$	$10^9 A_t$	0.031	< 0.180
A_{143}^{PS}	46.8	50^{+20}_{-20}	r_*	144.72	$144.71^{+0.87}_{-0.85}$	$10^9 A_t e^{-2\tau}$	0.027	< 0.160
$A_{143 \times 217}^{PS}$	40	43^{+20}_{-20}	$100\theta_*$	1.04117	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	31.2	32^{+8}_{-8}
A_{217}^{PS}	116.5	114^{+30}_{-30}	$D_M(z_*)/\text{Gpc}$	13.899	$13.898^{+0.084}_{-0.082}$	$f_{2000}^{143 \times 217}$	33.8	34^{+6}_{-6}
A^{kSZ}	0.0	—	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.3}$	f_{2000}^{217}	108.3	$108.5^{+5.4}_{-5.3}$
A_{100}^{dustTT}	8.86	$8.9^{+4.6}_{-4.7}$	r_{drag}	147.43	$147.41^{+0.96}_{-0.95}$	$\chi_{BKPLANCK}^2$	735.6	$739.8 (\nu: 3.5)$
A_{143}^{dustTT}	10.80	$10.8^{+4.6}_{-4.5}$	k_D	0.14042	$0.1405^{+0.0013}_{-0.0013}$	χ_{small}^2	396.3	$397.5 (\nu: 2.4)$
$A_{143 \times 217}^{dustTT}$	19.1	$18.3^{+8.6}_{-8.6}$	$100\theta_D$	0.16097	$0.16094^{+0.00075}_{-0.00072}$	χ_{lowl}^2	22.42	$23.0 (\nu: 1.9)$
A_{217}^{dustTT}	94.0	93^{+20}_{-20}	z_{eq}	3382	3382^{+75}_{-73}	χ_{plik}^2	760.1	$773.1 (\nu: 16.2)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	k_{eq}	0.010322	$0.01032^{+0.00023}_{-0.00022}$	χ_{6DF}^2	0.038	$0.070 (\nu: 0.0)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0017}$	$100\theta_{eq}$	0.8166	$0.817^{+0.014}_{-0.013}$	χ_{MGS}^2	1.16	$1.25 (\nu: 0.1)$
H_0	67.52	$67.6^{+1.4}_{-1.4}$	$100\theta_{s,eq}$	0.4512	$0.4513^{+0.0071}_{-0.0070}$	$\chi_{DR12BAO}^2$	4.57	$5.1 (\nu: 1.7)$
Ω_Λ	0.6881	$0.688^{+0.019}_{-0.019}$	$H(0.15)$	72.80	$72.8^{+1.2}_{-1.2}$	χ_{prior}^2	1.6	$9.0 (\nu: 8.0)$
Ω_m	0.3119	$0.312^{+0.019}_{-0.019}$	$D_M(0.15)$	642.1	642^{+12}_{-12}	χ_{BAO}^2	5.76	$6.4 (\nu: 1.1)$
$\Omega_m h^2$	0.14217	$0.1422^{+0.0031}_{-0.0031}$	$H(0.38)$	82.91	$82.95^{+0.91}_{-0.89}$	χ_{CMB}^2	1914.4	$1933.4 (\nu: 20.0)$
$\Omega_m h^3$	0.09599	$0.0960^{+0.0013}_{-0.0013}$	$D_M(0.38)$	1531.2	1530^{+24}_{-24}			
σ_8	0.8097	$0.810^{+0.021}_{-0.020}$	$H(0.51)$	89.63	$89.66^{+0.76}_{-0.73}$			

Best-fit $\chi_{eff}^2 = 1921.76$; $\bar{\chi}_{eff}^2 = 1948.77$; $R - 1 = 0.00528$
 χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.57 CMB - BK15_dust: 735.55 small_100x143.offlike5_EE_Aplanck_B: 396.34 commander_dx12_v3_2_29: 22.42 plik_rd12_HM_v22_TT: 760.08

15.31 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02218^{+0.00059}_{-0.00058}$	σ_8	0.8121	$0.812^{+0.016}_{-0.016}$	$D_M(0.38)$	1540.3	1540^{+32}_{-32}
$\Omega_c h^2$	0.12050	$0.1205^{+0.0040}_{-0.0040}$	S_8	0.8380	$0.837^{+0.042}_{-0.041}$	$H(0.51)$	89.39	$89.39^{+0.95}_{-0.91}$
$100\theta_{MC}$	1.04080	$1.0408^{+0.0011}_{-0.0012}$	$\sigma_8 \Omega_m^{0.5}$	0.4590	$0.459^{+0.023}_{-0.023}$	$D_M(0.51)$	1994.0	1994^{+37}_{-37}
τ	0.0534	$0.054^{+0.023}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	0.6105	$0.610^{+0.019}_{-0.020}$	$H(0.61)$	95.07	$95.07^{+0.80}_{-0.77}$
$\ln(10^{10} A_s)$	3.0435	$3.044^{+0.044}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9922	$0.992^{+0.026}_{-0.027}$	$D_M(0.61)$	2319.3	2319^{+40}_{-40}
n_s	0.9632	$0.962^{+0.013}_{-0.013}$	$r_{\text{drag}} h$	98.58	$98.6^{+3.2}_{-3.1}$	$H(2.33)$	236.69	$236.7^{+2.5}_{-2.5}$
$dn_s/d \ln k$	-0.0029	$-0.005^{+0.020}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.445^{+0.069}_{-0.069}$	$D_M(2.33)$	5774.4	5774^{+38}_{-38}
r	0.0134	< 0.0808	z_{re}	7.64	$7.6^{+2.1}_{-2.3}$	$f\sigma_8(0.15)$	0.4629	$0.463^{+0.021}_{-0.021}$
y_{cal}	1.0005	$1.0006^{+0.0064}_{-0.0063}$	$10^9 A_s$	2.098	$2.100^{+0.094}_{-0.085}$	$\sigma_8(0.15)$	0.7496	$0.749^{+0.015}_{-0.014}$
$A_{B,\text{dust}}$	4.66	$4.9^{+3.2}_{-2.2}$	$10^9 A_s e^{-2\tau}$	1.8854	$1.886^{+0.031}_{-0.030}$	$f\sigma_8(0.38)$	0.4795	$0.479^{+0.016}_{-0.016}$
$A_{B,\text{sync}}$	1.44	< 4.89	D_{40}	1230	1232^{+53}_{-52}	$\sigma_8(0.38)$	0.6636	$0.663^{+0.013}_{-0.013}$
$\alpha_{B,\text{dust}}$	-0.52	—	D_{220}	5714	5715^{+110}_{-110}	$f\sigma_8(0.51)$	0.4772	$0.477^{+0.013}_{-0.014}$
$\beta_{B,\text{dust}}$	1.575	$1.60^{+0.25}_{-0.25}$	D_{810}	2538.4	2538^{+36}_{-35}	$\sigma_8(0.51)$	0.6207	$0.620^{+0.012}_{-0.012}$
$\alpha_{B,\text{sync}}$	-0.44	—	D_{1420}	814.9	814^{+14}_{-13}	$f\sigma_8(0.61)$	0.4715	$0.471^{+0.012}_{-0.012}$
$\beta_{B,\text{sync}}$	-3.04	$-3.10^{+0.67}_{-0.73}$	D_{2000}	229.60	$229.2^{+4.9}_{-4.9}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.012}_{-0.011}$
$\epsilon_{\text{dust,sync}}$	-0.34	< 0.369	$n_{s,0.002}$	0.972	$0.978^{+0.062}_{-0.061}$	$f\sigma_8(2.33)$	0.2974	$0.2972^{+0.0064}_{-0.0060}$
A_{217}^{CIB}	50.8	48^{+20}_{-20}	Y_P	0.245319	$0.24531^{+0.00023}_{-0.00027}$	$\sigma_8(2.33)$	0.3062	$0.3061^{+0.0070}_{-0.0067}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.06	—	Y_P^{BBN}	0.246645	$0.24664^{+0.00023}_{-0.00027}$	$r_{0.002}$	0.0121	< 0.0779
A_{143}^{tSZ}	7.2	—	$10^5 D/H$	2.621	$2.62^{+0.11}_{-0.11}$	$r_{0.01}$	0.0127	< 0.0781
A_{100}^{PS}	259	266^{+70}_{-70}	Age/Gyr	13.822	$13.822^{+0.088}_{-0.087}$	$\ln(10^{10} A_t)$	-1.27	$-0.9^{+1.7}_{-3.6}$
A_{143}^{PS}	46.8	50^{+20}_{-20}	z_*	1090.20	$1090.21^{+0.94}_{-0.91}$	r_{10}	0.0062	< 0.0405
$A_{143 \times 217}^{\text{PS}}$	41	44^{+20}_{-20}	r_*	144.45	$144.46^{+0.98}_{-0.95}$	$10^9 A_t$	0.028	< 0.170
A_{217}^{PS}	116.5	115^{+30}_{-30}	$100\theta_*$	1.04100	$1.0410^{+0.0011}_{-0.0012}$	$10^9 A_t e^{-2\tau}$	0.025	< 0.152
A^{kSZ}	0.0	—	$D_M(z_*)/\text{Gpc}$	13.876	$13.877^{+0.091}_{-0.090}$	f_{2000}^{143}	31.2	32^{+8}_{-8}
A_{100}^{dustTT}	8.93	$8.9^{+4.7}_{-4.7}$	z_{drag}	1059.55	$1059.5^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	33.8	34^{+6}_{-6}
A_{143}^{dustTT}	10.86	$10.8^{+4.7}_{-4.6}$	r_{drag}	147.17	$147.2^{+1.0}_{-1.0}$	f_{2000}^{217}	108.2	$108.7^{+5.3}_{-5.3}$
$A_{143 \times 217}^{\text{dustTT}}$	19.1	$18.4^{+8.7}_{-8.5}$	k_D	0.14064	$0.1406^{+0.0013}_{-0.0013}$	χ^2_{lensing}	9.08	$9.7 (\nu: 0.6)$
A_{217}^{dustTT}	93.9	93^{+20}_{-20}	$100\theta_D$	0.16099	$0.16100^{+0.00074}_{-0.00074}$	χ^2_{BKPLANCK}	735.2	$739.4 (\nu: 3.5)$
c_{100}	0.99962	$0.9996^{+0.0016}_{-0.0016}$	z_{eq}	3410	3409^{+91}_{-92}	χ^2_{small}	396.02	$397.1 (\nu: 1.4)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_{eq}	0.010407	$0.01040^{+0.00028}_{-0.00028}$	χ^2_{lowl}	23.2	$23.6 (\nu: 2.4)$
H_0	66.98	$67.0^{+1.8}_{-1.8}$	$100\theta_{\text{eq}}$	0.8114	$0.812^{+0.017}_{-0.017}$	χ^2_{plik}	759.0	$772.3 (\nu: 15.3)$
Ω_Λ	0.6806	$0.681^{+0.025}_{-0.026}$	$100\theta_{s,\text{eq}}$	0.4485	$0.4486^{+0.0090}_{-0.0086}$	χ^2_{prior}	1.7	$8.9 (\nu: 8.1)$
Ω_m	0.3194	$0.319^{+0.026}_{-0.025}$	$H(0.15)$	72.35	$72.4^{+1.6}_{-1.5}$	χ^2_{CMB}	1922.5	$1942.2 (\nu: 19.9)$
$\Omega_m h^2$	0.14333	$0.1433^{+0.0038}_{-0.0038}$	$D_M(0.15)$	646.6	647^{+16}_{-16}			
$\Omega_m h^3$	0.09601	$0.0960^{+0.0013}_{-0.0013}$	$H(0.38)$	82.59	$82.6^{+1.2}_{-1.1}$			

Best-fit $\chi^2_{\text{eff}} = 1924.17$; $\bar{\chi}^2_{\text{eff}} = 1951.15$; $R - 1 = 0.00356$

χ^2_{eff} : CMB - smicadx12.Dec5.ftl.mv2.ndclpp.p.teb.consext8: 9.09 BK15.dust: 735.20 small.100x143_offlike5.EE.Aplanck_B: 396.02 commander_dx12.v3.2.29: 23.21 plik_rd12_HM.v22.TT: 758.99

15.32 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02226^{+0.00055}_{-0.00054}$	S_8	0.8257	$0.826^{+0.031}_{-0.031}$	$D_M(0.51)$	1983.3	1983^{+26}_{-26}
$\Omega_c h^2$	0.11929	$0.1193^{+0.0028}_{-0.0028}$	$\sigma_8 \Omega_m^{0.5}$	0.4523	$0.452^{+0.017}_{-0.017}$	$H(0.61)$	95.26	$95.27^{+0.64}_{-0.62}$
$100\theta_{MC}$	1.04098	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8 \Omega_m^{0.25}$	0.6052	$0.605^{+0.016}_{-0.016}$	$D_M(0.61)$	2307.8	2307^{+29}_{-28}
τ	0.0558	$0.057^{+0.022}_{-0.019}$	$\sigma_8/h^{0.5}$	0.9856	$0.986^{+0.023}_{-0.023}$	$H(2.33)$	235.98	$236.0^{+1.8}_{-1.8}$
$\ln(10^{10} A_s)$	3.0466	$3.049^{+0.043}_{-0.040}$	$r_{drag} h$	99.54	$99.6^{+2.2}_{-2.1}$	$D_M(2.33)$	5766.4	5766^{+32}_{-32}
n_s	0.9656	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.432^{+0.061}_{-0.061}$	$f\sigma_8(0.15)$	0.4568	$0.457^{+0.016}_{-0.016}$
$dn_s/d \ln k$	-0.0032	$-0.005^{+0.020}_{-0.020}$	z_{re}	7.84	$7.9^{+2.0}_{-2.0}$	$\sigma_8(0.15)$	0.7483	$0.749^{+0.015}_{-0.014}$
r	0.0155	< 0.0833	$10^9 A_s$	2.104	$2.109^{+0.092}_{-0.082}$	$f\sigma_8(0.38)$	0.4751	$0.475^{+0.013}_{-0.013}$
y_{cal}	1.0008	$1.0008^{+0.0064}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8823	$1.882^{+0.030}_{-0.029}$	$\sigma_8(0.38)$	0.6633	$0.664^{+0.013}_{-0.012}$
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.2}$	D_{40}	1227	1227^{+52}_{-50}	$f\sigma_8(0.51)$	0.4736	$0.474^{+0.012}_{-0.012}$
$A_{B,sync}$	1.46	< 4.93	D_{220}	5726	5724^{+110}_{-100}	$\sigma_8(0.51)$	0.6207	$0.621^{+0.013}_{-0.012}$
$\alpha_{B,dust}$	-0.50	—	D_{810}	2539.9	2539^{+37}_{-35}	$f\sigma_8(0.61)$	0.4686	$0.469^{+0.011}_{-0.011}$
$\beta_{B,dust}$	1.577	$1.60^{+0.25}_{-0.25}$	D_{1420}	816.0	815^{+13}_{-13}	$\sigma_8(0.61)$	0.5906	$0.591^{+0.012}_{-0.011}$
$\alpha_{B,sync}$	-0.24	—	D_{2000}	229.97	$229.6^{+4.8}_{-4.7}$	$f\sigma_8(2.33)$	0.2978	$0.2979^{+0.0063}_{-0.0057}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.67}_{-0.73}$	$n_{s,0.002}$	0.976	$0.981^{+0.062}_{-0.062}$	$\sigma_8(2.33)$	0.3070	$0.3071^{+0.0067}_{-0.0061}$
$\epsilon_{dust,sync}$	-0.34	< 0.350	Y_P	0.245346	$0.24535^{+0.00021}_{-0.00025}$	$r_{0.002}$	0.0142	< 0.0812
A_{217}^{CIB}	50.9	48^{+20}_{-20}	Y_P^{BBN}	0.246673	$0.24667^{+0.00021}_{-0.00025}$	$r_{0.01}$	0.0148	< 0.0816
$\xi^{tSZ \times CIB}$	0.06	—	$10^5 D/H$	2.608	$2.61^{+0.10}_{-0.099}$	$\ln(10^{10} A_t)$	-1.12	$-0.8^{+1.6}_{-3.6}$
A_{143}^{tSZ}	7.1	—	Age/Gyr	13.805	$13.804^{+0.074}_{-0.074}$	r_{10}	0.0073	< 0.0421
A_{100}^{PS}	259	265^{+70}_{-70}	z_*	1090.01	$1090.00^{+0.78}_{-0.77}$	$10^9 A_t$	0.033	< 0.175
A_{143}^{PS}	46.6	50^{+20}_{-20}	r_*	144.71	$144.71^{+0.77}_{-0.76}$	$10^9 A_t e^{-2\tau}$	0.029	< 0.157
$A_{143 \times 217}^{PS}$	40	43^{+20}_{-20}	$100\theta_*$	1.04117	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	31.1	32^{+8}_{-8}
A_{217}^{PS}	116.3	115^{+30}_{-30}	$D_M(z_*)/\text{Gpc}$	13.898	$13.898^{+0.077}_{-0.075}$	$f_{2000}^{143 \times 217}$	33.6	34^{+6}_{-6}
A^{kSZ}	0.0	—	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.3}$	f_{2000}^{217}	108.1	$108.5^{+5.4}_{-5.3}$
A_{100}^{dustTT}	8.86	$8.9^{+4.6}_{-4.7}$	r_{drag}	147.41	$147.41^{+0.90}_{-0.86}$	$\chi^2_{lensing}$	8.87	$9.38 (\nu: 0.2)$
A_{143}^{dustTT}	10.72	$10.7^{+4.6}_{-4.6}$	k_D	0.14044	$0.1404^{+0.0012}_{-0.0012}$	$\chi^2_{BKPLANCK}$	735.5	$739.8 (\nu: 3.4)$
$A_{143 \times 217}^{dustTT}$	19.0	$18.3^{+8.6}_{-8.5}$	$100\theta_D$	0.16096	$0.16095^{+0.00074}_{-0.00072}$	χ^2_{small}	396.35	$397.5 (\nu: 2.0)$
A_{217}^{dustTT}	93.8	93^{+20}_{-20}	z_{eq}	3382	3382^{+66}_{-65}	χ^2_{lowl}	22.81	$23.2 (\nu: 2.1)$
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0016}$	k_{eq}	0.010323	$0.01032^{+0.00020}_{-0.00020}$	χ^2_{plik}	759.8	$772.6 (\nu: 15.6)$
c_{217}	0.99828	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8166	$0.817^{+0.012}_{-0.012}$	χ^2_{6DF}	0.037	$0.064 (\nu: 0.0)$
H_0	67.52	$67.5^{+1.3}_{-1.3}$	$100\theta_{s,eq}$	0.4512	$0.4513^{+0.0063}_{-0.0062}$	χ^2_{MGS}	1.16	$1.24 (\nu: 0.1)$
Ω_Λ	0.6881	$0.688^{+0.016}_{-0.017}$	$H(0.15)$	72.80	$72.8^{+1.1}_{-1.1}$	$\chi^2_{DR12BAO}$	4.57	$5.0 (\nu: 1.3)$
Ω_m	0.3119	$0.312^{+0.017}_{-0.016}$	$D_M(0.15)$	642.0	642^{+11}_{-11}	χ^2_{prior}	1.6	$9.0 (\nu: 8.0)$
$\Omega_m h^2$	0.14219	$0.1422^{+0.0028}_{-0.0027}$	$H(0.38)$	82.92	$82.94^{+0.86}_{-0.83}$	χ^2_{CMB}	1923.3	$1942.4 (\nu: 20.1)$
$\Omega_m h^3$	0.09601	$0.0960^{+0.0013}_{-0.0013}$	$D_M(0.38)$	1531.1	1531^{+22}_{-22}	χ^2_{BAO}	5.76	$6.3 (\nu: 0.9)$
σ_8	0.8099	$0.810^{+0.016}_{-0.016}$	$H(0.51)$	89.64	$89.65^{+0.72}_{-0.70}$			

Best-fit $\chi^2_{eff} = 1930.66$; $\bar{\chi}^2_{eff} = 1957.70$; $R - 1 = 0.00643$
 χ^2_{eff} : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.57 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.87 BK15_dust: 735.50 simall_100x143_offlike5_EE_Aplanck_B: 396.35 commander_dx12_v3.2.29: 22.81 plik_rd12_HM_v22.TT: 759.81

15.33 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02216^{+0.00060}_{-0.00058}$	$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(0.15)$	649^{+20}_{-20}
$\Omega_{\mathrm{c}}h^2$	$0.1213^{+0.0053}_{-0.0052}$	σ_8	$0.816^{+0.022}_{-0.022}$	$H(0.38)$	$82.4^{+1.4}_{-1.4}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0012}_{-0.0012}$	S_8	$0.848^{+0.062}_{-0.060}$	$D_{\mathrm{M}}(0.38)$	1545^{+40}_{-40}
τ	$0.055^{+0.021}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.465^{+0.034}_{-0.033}$	$H(0.51)$	$89.3^{+1.1}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.047}_{-0.033}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.616^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(0.51)$	2000^{+46}_{-46}
n_{s}	$0.961^{+0.015}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.999^{+0.040}_{-0.040}$	$H(0.61)$	$94.98^{+0.92}_{-0.84}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.007^{+0.020}_{-0.019}$	$r_{\mathrm{drag}}h$	$98.0^{+4.1}_{-4.0}$	$D_{\mathrm{M}}(0.61)$	2326^{+49}_{-50}
r	< 0.0806	$\langle d^2 \rangle^{1/2}$	$2.460^{+0.096}_{-0.096}$	$H(2.33)$	$237.2^{+3.3}_{-3.2}$
y_{cal}	$1.0006^{+0.0064}_{-0.0064}$	z_{re}	< 9.76	$D_{\mathrm{M}}(2.33)$	5778^{+41}_{-42}
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2}$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.10}_{-0.070}$	$f\sigma_8(0.15)$	$0.468^{+0.031}_{-0.030}$
$A_{B,\mathrm{sync}}$	< 4.89	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.891^{+0.037}_{-0.036}$	$\sigma_8(0.15)$	$0.753^{+0.019}_{-0.018}$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	1232^{+55}_{-53}	$f\sigma_8(0.38)$	$0.484^{+0.024}_{-0.024}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	D_{220}	5712^{+110}_{-110}	$\sigma_8(0.38)$	$0.666^{+0.016}_{-0.013}$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	2540^{+37}_{-36}	$f\sigma_8(0.51)$	$0.481^{+0.020}_{-0.021}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.74}$	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.51)$	$0.622^{+0.015}_{-0.012}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.363	D_{2000}	$229.0^{+5.0}_{-4.9}$	$f\sigma_8(0.61)$	$0.475^{+0.018}_{-0.018}$
A_{217}^{CIB}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.982^{+0.062}_{-0.060}$	$\sigma_8(0.61)$	$0.592^{+0.014}_{-0.011}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	Y_{P}	$0.24530^{+0.00024}_{-0.00027}$	$f\sigma_8(2.33)$	$0.2980^{+0.0069}_{-0.0050}$
A_{143}^{tSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00024}_{-0.00027}$	$\sigma_8(2.33)$	$0.3067^{+0.0073}_{-0.0052}$
A_{100}^{PS}	267^{+70}_{-70}	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.11}$	$r_{0.002}$	< 0.0781
A_{143}^{PS}	51^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.829^{+0.093}_{-0.094}$	$r_{0.01}$	< 0.0782
$A_{143\times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	z_*	$1090.3^{+1.0}_{-1.0}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.7}$
A_{217}^{PS}	115^{+30}_{-30}	r_*	$144.3^{+1.3}_{-1.2}$	r_{10}	< 0.0407
A^{kSZ}	—	$100\theta_*$	$1.0409^{+0.0012}_{-0.0012}$	$10^9 A_{\mathrm{t}}$	< 0.170
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.7}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.86^{+0.12}_{-0.11}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.152
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	z_{drag}	$1059.5^{+1.3}_{-1.3}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.4^{+8.6}_{-8.6}$	r_{drag}	$147.0^{+1.3}_{-1.3}$	$f_{2000}^{143\times 217}$	34^{+6}_{-6}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	k_{D}	$0.1408^{+0.0014}_{-0.0015}$	f_{2000}^{217}	$108.9^{+5.3}_{-5.3}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00074}_{-0.00073}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.1 (\nu: 3.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3427^{+120}_{-120}	χ_{simall}^2	$397.2 (\nu: 1.9)$
H_0	$66.7^{+2.3}_{-2.3}$	k_{eq}	$0.01046^{+0.00037}_{-0.00037}$	χ_{lowl}^2	$23.5 (\nu: 2.3)$
Ω_{Λ}	$0.676^{+0.032}_{-0.035}$	$100\theta_{\mathrm{eq}}$	$0.808^{+0.023}_{-0.022}$	χ_{plik}^2	$772.7 (\nu: 16.2)$
Ω_{m}	$0.324^{+0.035}_{-0.032}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.447^{+0.012}_{-0.011}$	χ_{prior}^2	$8.9 (\nu: 8.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1441^{+0.0051}_{-0.0050}$	$H(0.15)$	$72.1^{+2.0}_{-1.9}$	χ_{CMB}^2	$1932.6 (\nu: 19.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1941.52; R - 1 = 0.00204$$

15.34 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02227^{+0.00055}_{-0.00054}$	S_8	$0.825^{+0.039}_{-0.037}$	$D_M(0.51)$	1982^{+28}_{-28}
$\Omega_c h^2$	$0.1192^{+0.0032}_{-0.0032}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.021}_{-0.020}$	$H(0.61)$	$95.28^{+0.66}_{-0.63}$
$100\theta_{MC}$	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.021}_{-0.020}$	$D_M(0.61)$	2307^{+30}_{-30}
τ	$0.057^{+0.021}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.986^{+0.030}_{-0.028}$	$H(2.33)$	$236.0^{+2.1}_{-2.0}$
$\ln(10^{10} A_s)$	$3.049^{+0.048}_{-0.035}$	$r_{\text{drag}} h$	$99.6^{+2.5}_{-2.4}$	$D_M(2.33)$	5765^{+32}_{-33}
n_s	$0.966^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.074}_{-0.071}$	$f\sigma_8(0.15)$	$0.457^{+0.020}_{-0.019}$
$dn_s/d \ln k$	$-0.006^{+0.020}_{-0.020}$	z_{re}	< 9.91	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.015}$
r	< 0.0851	$10^9 A_s$	$2.11^{+0.10}_{-0.072}$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.016}$
y_{cal}	$1.0007^{+0.0065}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	$1.882^{+0.032}_{-0.032}$	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.013}$
$A_{B,\text{dust}}$	$4.9^{+3.2}_{-2.2}$	D_{40}	1224^{+53}_{-51}	$f\sigma_8(0.51)$	$0.474^{+0.015}_{-0.014}$
$A_{B,\text{sync}}$	< 4.86	D_{220}	5721^{+110}_{-100}	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.011}$
$\alpha_{B,\text{dust}}$	—	D_{810}	2539^{+37}_{-36}	$f\sigma_8(0.61)$	$0.469^{+0.014}_{-0.013}$
$\beta_{B,\text{dust}}$	$1.60^{+0.25}_{-0.25}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.011}$
$\alpha_{B,\text{sync}}$	—	D_{2000}	$229.5^{+4.9}_{-4.7}$	$f\sigma_8(2.33)$	$0.2980^{+0.0071}_{-0.0052}$
$\beta_{B,\text{sync}}$	$-3.10^{+0.68}_{-0.74}$	$n_{s,0.002}$	$0.985^{+0.062}_{-0.062}$	$\sigma_8(2.33)$	$0.3072^{+0.0074}_{-0.0054}$
$\epsilon_{\text{dust,sync}}$	< 0.357	Y_P	$0.24535^{+0.00021}_{-0.00025}$	$r_{0.002}$	< 0.0828
A_{217}^{CIB}	48^{+20}_{-20}	Y_P^{BBN}	$0.24668^{+0.00021}_{-0.00025}$	$r_{0.01}$	< 0.0828
$\xi^{\text{tSZ} \times \text{CIB}}$	—	10^5D/H	$2.61^{+0.10}_{-0.10}$	$\ln(10^{10} A_t)$	$-0.8^{+1.6}_{-3.5}$
A_{143}^{tSZ}	—	Age/Gyr	$13.802^{+0.075}_{-0.075}$	r_{10}	< 0.0432
A_{100}^{PS}	266^{+70}_{-70}	z_*	$1089.98^{+0.79}_{-0.79}$	$10^9 A_t$	< 0.180
A_{143}^{PS}	50^{+20}_{-20}	r_*	$144.71^{+0.87}_{-0.85}$	$10^9 A_t e^{-2\tau}$	< 0.160
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	32^{+8}_{-8}
A_{217}^{PS}	114^{+30}_{-30}	$D_M(z_*)/\text{Gpc}$	$13.898^{+0.084}_{-0.082}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
A^{kSZ}	—	z_{drag}	$1059.6^{+1.3}_{-1.3}$	f_{2000}^{217}	$108.5^{+5.4}_{-5.3}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	r_{drag}	$147.41^{+0.95}_{-0.95}$	χ_{BKPLANCK}^2	$739.8 (\nu: 3.5)$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.5}$	k_D	$0.1405^{+0.0013}_{-0.0013}$	χ_{simall}^2	$397.5 (\nu: 2.5)$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.5}_{-8.6}$	$100\theta_D$	$0.16094^{+0.00074}_{-0.00072}$	χ_{lowl}^2	$22.9 (\nu: 1.9)$
A_{217}^{dustTT}	93^{+20}_{-20}	z_{eq}	3382^{+74}_{-73}	χ_{plik}^2	$773.0 (\nu: 16.1)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{eq}	$0.01032^{+0.00023}_{-0.00022}$	$\chi_{6\text{DF}}^2$	$0.069 (\nu: 0.0)$
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	$100\theta_{\text{eq}}$	$0.817^{+0.014}_{-0.013}$	χ_{MGS}^2	$1.26 (\nu: 0.1)$
H_0	$67.6^{+1.4}_{-1.4}$	$100\theta_{s,\text{eq}}$	$0.4513^{+0.0070}_{-0.0070}$	χ_{DR12BAO}^2	$5.0 (\nu: 1.6)$
Ω_Λ	$0.689^{+0.018}_{-0.019}$	$H(0.15)$	$72.8^{+1.2}_{-1.2}$	χ_{prior}^2	$9.0 (\nu: 8.0)$
Ω_m	$0.311^{+0.019}_{-0.018}$	$D_M(0.15)$	642^{+12}_{-12}	χ_{BAO}^2	$6.4 (\nu: 1.1)$
$\Omega_m h^2$	$0.1421^{+0.0031}_{-0.0031}$	$H(0.38)$	$82.95^{+0.91}_{-0.88}$	χ_{CMB}^2	$1933.2 (\nu: 19.6)$
$\Omega_m h^3$	$0.0960^{+0.0013}_{-0.0013}$	$D_M(0.38)$	1530^{+24}_{-24}		
σ_8	$0.810^{+0.021}_{-0.018}$	$H(0.51)$	$89.67^{+0.76}_{-0.73}$		

$$\bar{\chi}_{\text{eff}}^2 = 1948.61; R - 1 = 0.00617$$

15.35 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00058}_{-0.00057}$	σ_8	$0.812^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1539^{+30}_{-31}
$\Omega_{\mathrm{c}}h^2$	$0.1204^{+0.0038}_{-0.0039}$	S_8	$0.837^{+0.041}_{-0.041}$	$H(0.51)$	$89.42^{+0.94}_{-0.89}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1993^{+36}_{-36}
τ	$0.055^{+0.020}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.019}_{-0.020}$	$H(0.61)$	$95.09^{+0.79}_{-0.75}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.042}_{-0.030}$	$\sigma_8/h^{0.5}$	$0.992^{+0.026}_{-0.027}$	$D_{\mathrm{M}}(0.61)$	2318^{+38}_{-39}
n_{s}	$0.963^{+0.013}_{-0.012}$	$r_{\mathrm{drag}}h$	$98.7^{+3.1}_{-2.9}$	$H(2.33)$	$236.6^{+2.4}_{-2.4}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.005^{+0.019}_{-0.019}$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.068}_{-0.069}$	$D_{\mathrm{M}}(2.33)$	5774^{+37}_{-38}
r	< 0.0812	z_{re}	< 9.60	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
y_{cal}	$1.0006^{+0.0064}_{-0.0063}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.091}_{-0.062}$	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.013}$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.031}_{-0.030}$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016}$
$A_{B,\mathrm{sync}}$	< 4.87	D_{40}	1231^{+52}_{-51}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	5715^{+110}_{-110}	$f\sigma_8(0.51)$	$0.477^{+0.013}_{-0.014}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	D_{810}	2538^{+36}_{-34}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096}$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.66}_{-0.73}$	D_{2000}	$229.2^{+4.9}_{-4.9}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0090}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.366	$n_{\mathrm{s},0.002}$	$0.979^{+0.062}_{-0.061}$	$f\sigma_8(2.33)$	$0.2976^{+0.0061}_{-0.0046}$
A_{217}^{CIB}	48^{+20}_{-20}	Y_{P}	$0.24532^{+0.00023}_{-0.00027}$	$\sigma_8(2.33)$	$0.3065^{+0.0067}_{-0.0050}$
$\xi^{\mathrm{tSZ}} \times \mathrm{CIB}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00027}$	$r_{0.002}$	< 0.0782
A_{143}^{tSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11}$	$r_{0.01}$	< 0.0786
A_{100}^{PS}	266^{+70}_{-70}	$\mathrm{Age}/\mathrm{Gyr}$	$13.820^{+0.086}_{-0.085}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6}$
A_{143}^{PS}	50^{+20}_{-20}	z_*	$1090.18^{+0.92}_{-0.90}$	r_{10}	< 0.0408
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	r_*	$144.48^{+0.96}_{-0.92}$	$10^9 A_{\mathrm{t}}$	< 0.171
A_{217}^{PS}	115^{+30}_{-30}	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.153
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.879^{+0.091}_{-0.088}$	f_{2000}^{143}	32^{+8}_{-8}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	z_{drag}	$1059.5^{+1.3}_{-1.2}$	$f_{2000}^{143 \times 217}$	34^{+6}_{-6}
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	r_{drag}	$147.2^{+1.0}_{-0.99}$	f_{2000}^{217}	$108.7^{+5.3}_{-5.2}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.4^{+8.6}_{-8.4}$	k_{D}	$0.1406^{+0.0012}_{-0.0013}$	$\chi_{\mathrm{lensing}}^2$	$9.7 (\nu: 0.6)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00074}_{-0.00073}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.4 (\nu: 3.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{eq}	3406^{+88}_{-90}	χ_{simall}^2	$397.1 (\nu: 1.5)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{eq}	$0.01040^{+0.00027}_{-0.00028}$	χ_{lowl}^2	$23.6 (\nu: 2.3)$
H_0	$67.0^{+1.8}_{-1.7}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.017}_{-0.016}$	χ_{plik}^2	$772.2 (\nu: 15.3)$
Ω_{Λ}	$0.681^{+0.024}_{-0.025}$	$100\theta_{\mathrm{s,eq}}$	$0.4488^{+0.0088}_{-0.0083}$	χ_{prior}^2	$8.9 (\nu: 8.1)$
Ω_{m}	$0.319^{+0.025}_{-0.024}$	$H(0.15)$	$72.4^{+1.6}_{-1.5}$	χ_{CMB}^2	$1942.0 (\nu: 19.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1432^{+0.0037}_{-0.0038}$	$D_{\mathrm{M}}(0.15)$	646^{+15}_{-15}		
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0013}_{-0.0013}$	$H(0.38)$	$82.6^{+1.2}_{-1.1}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1950.93; R - 1 = 0.00327$$

15.36 base_nrun_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00055}_{-0.00054}$	S_8	$0.826^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.51)$	1983^{+26}_{-26}
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0028}_{-0.0028}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017}$	$H(0.61)$	$95.28^{+0.64}_{-0.61}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.61)$	2307^{+28}_{-28}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.022}$	$H(2.33)$	$236.0^{+1.8}_{-1.8}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.042}_{-0.032}$	$r_{\mathrm{drag}}h$	$99.6^{+2.2}_{-2.1}$	$D_{\mathrm{M}}(2.33)$	5766^{+32}_{-32}
n_{s}	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.061}_{-0.061}$	$f\sigma_8(0.15)$	$0.457^{+0.016}_{-0.016}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.005^{+0.020}_{-0.020}$	z_{re}	< 9.77	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.013}$
r	< 0.0832	$10^9 A_{\mathrm{s}}$	$2.111^{+0.090}_{-0.067}$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.013}$
y_{cal}	$1.0008^{+0.0064}_{-0.0062}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.030}_{-0.029}$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2}$	D_{40}	1227^{+52}_{-51}	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.011}$
$A_{B,\mathrm{sync}}$	< 4.93	D_{220}	5724^{+110}_{-100}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.010}$
$\alpha_{B,\mathrm{dust}}$	—	D_{810}	2539^{+36}_{-35}	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0097}$
$\alpha_{B,\mathrm{sync}}$	—	D_{2000}	$229.6^{+4.8}_{-4.7}$	$f\sigma_8(2.33)$	$0.2980^{+0.0062}_{-0.0049}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.73}$	$n_{\mathrm{s},0.002}$	$0.982^{+0.062}_{-0.062}$	$\sigma_8(2.33)$	$0.3073^{+0.0067}_{-0.0051}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.348	Y_{P}	$0.24535^{+0.00021}_{-0.00025}$	$r_{0.002}$	< 0.0812
A_{217}^{CIB}	48^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00021}_{-0.00025}$	$r_{0.01}$	< 0.0816
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^5\mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.099}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.8^{+1.6}_{-3.6}$
A_{143}^{tSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.803^{+0.074}_{-0.073}$	r_{10}	< 0.0421
A_{100}^{PS}	265^{+70}_{-70}	z_*	$1089.99^{+0.77}_{-0.76}$	$10^9 A_{\mathrm{t}}$	< 0.175
A_{143}^{PS}	50^{+20}_{-20}	r_*	$144.71^{+0.78}_{-0.75}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.156
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	32^{+8}_{-8}
A_{217}^{PS}	115^{+30}_{-30}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.899^{+0.077}_{-0.074}$	$f_{2000}^{143\times 217}$	34^{+6}_{-6}
A^{kSZ}	—	z_{drag}	$1059.6^{+1.3}_{-1.3}$	f_{2000}^{217}	$108.5^{+5.4}_{-5.3}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.6}_{-4.7}$	r_{drag}	$147.41^{+0.90}_{-0.86}$	$\chi_{\mathrm{lensing}}^2$	$9.36 (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.6}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.7 (\nu: 3.3)$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.6}_{-8.5}$	$100\theta_{\mathrm{D}}$	$0.16094^{+0.00073}_{-0.00072}$	χ_{simall}^2	$397.5 (\nu: 2.1)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{eq}	3381^{+65}_{-65}	χ_{lowl}^2	$23.2 (\nu: 2.0)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{eq}	$0.01032^{+0.00020}_{-0.00020}$	χ_{plik}^2	$772.6 (\nu: 15.5)$
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012}$	$\chi_{6\mathrm{DF}}^2$	$0.062 (\nu: 0.0)$
H_0	$67.6^{+1.3}_{-1.3}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4513^{+0.0063}_{-0.0061}$	χ_{MGS}^2	$1.25 (\nu: 0.1)$
Ω_{Λ}	$0.688^{+0.016}_{-0.017}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.3)$
Ω_{m}	$0.312^{+0.017}_{-0.016}$	$D_{\mathrm{M}}(0.15)$	642^{+11}_{-11}	χ_{prior}^2	$9.0 (\nu: 8.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1421^{+0.0027}_{-0.0027}$	$H(0.38)$	$82.94^{+0.85}_{-0.83}$	χ_{CMB}^2	$1942.4 (\nu: 19.9)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(0.38)$	1531^{+22}_{-22}	χ_{BAO}^2	$6.3 (\nu: 0.8)$
σ_8	$0.810^{+0.016}_{-0.014}$	$H(0.51)$	$89.66^{+0.71}_{-0.70}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1957.58; R - 1 = 0.00713$$

15.37 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022384	$0.02238^{+0.00040}_{-0.00040}$	H_0	67.14	$67.1^{+1.6}_{-1.6}$	$100\theta_{s,eq}$	0.4480	$0.4480^{+0.0079}_{-0.0078}$
$\Omega_c h^2$	0.12062	$0.1206^{+0.0037}_{-0.0036}$	Ω_Λ	0.6813	$0.681^{+0.022}_{-0.023}$	$H(0.15)$	72.50	$72.5^{+1.4}_{-1.3}$
$100\theta_{MC}$	1.04088	$1.04087^{+0.00081}_{-0.00082}$	Ω_m	0.3187	$0.319^{+0.023}_{-0.022}$	$D_M(0.15)$	645.2	645^{+14}_{-14}
τ	0.0559	$0.057^{+0.023}_{-0.021}$	$\Omega_m h^2$	0.14365	$0.1436^{+0.0035}_{-0.0034}$	$H(0.38)$	82.75	$82.8^{+1.0}_{-0.95}$
$\ln(10^{10} A_s)$	3.0504	$3.053^{+0.048}_{-0.044}$	$\Omega_m h^3$	0.09644	$0.09643^{+0.00080}_{-0.00080}$	$D_M(0.38)$	1537.1	1537^{+27}_{-27}
n_s	0.9637	$0.963^{+0.012}_{-0.012}$	σ_8	0.8139	$0.814^{+0.020}_{-0.019}$	$H(0.51)$	89.55	$89.55^{+0.79}_{-0.74}$
$dn_s/d \ln k$	-0.0063	$-0.008^{+0.018}_{-0.018}$	S_8	0.8389	$0.839^{+0.042}_{-0.041}$	$D_M(0.51)$	1990.0	1990^{+31}_{-32}
r	0.0167	< 0.0857	$\sigma_8 \Omega_m^{0.5}$	0.4595	$0.460^{+0.023}_{-0.023}$	$H(0.61)$	95.23	$95.23^{+0.64}_{-0.59}$
y_{cal}	1.0005	$1.0008^{+0.0065}_{-0.0063}$	$\sigma_8 \Omega_m^{0.25}$	0.6116	$0.612^{+0.021}_{-0.021}$	$D_M(0.61)$	2314.7	2315^{+34}_{-35}
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.2}$	$\sigma_8/h^{0.5}$	0.9934	$0.994^{+0.031}_{-0.030}$	$H(2.33)$	236.98	$237.0^{+2.2}_{-2.1}$
$A_{B,sync}$	1.49	< 4.87	$r_{drag} h$	98.63	$98.7^{+2.8}_{-2.7}$	$D_M(2.33)$	5765.0	5765^{+28}_{-29}
$\alpha_{B,dust}$	-0.51	—	$\langle d^2 \rangle^{1/2}$	2.446	$2.447^{+0.074}_{-0.074}$	$f\sigma_8(0.15)$	0.4635	$0.464^{+0.021}_{-0.021}$
$\beta_{B,dust}$	1.579	$1.60^{+0.25}_{-0.25}$	z_{re}	7.85	$7.9^{+2.2}_{-2.2}$	$\sigma_8(0.15)$	0.7514	$0.752^{+0.018}_{-0.017}$
$\alpha_{B,sync}$	-0.32	—	$10^9 A_s$	2.112	$2.12^{+0.10}_{-0.092}$	$f\sigma_8(0.38)$	0.4803	$0.480^{+0.017}_{-0.017}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.73}$	$10^9 A_s e^{-2\tau}$	1.8888	$1.890^{+0.032}_{-0.031}$	$\sigma_8(0.38)$	0.6653	$0.666^{+0.016}_{-0.015}$
$\epsilon_{dust,sync}$	-0.35	< 0.354	D_{40}	1224.0	1227^{+50}_{-48}	$f\sigma_8(0.51)$	0.4780	$0.478^{+0.015}_{-0.015}$
A_{217}^{CIB}	49.5	48^{+20}_{-20}	D_{220}	5727	5730^{+100}_{-98}	$\sigma_8(0.51)$	0.6223	$0.623^{+0.014}_{-0.013}$
$\xi^{tSZ \times CIB}$	0.17	—	D_{810}	2542.7	2543^{+35}_{-35}	$f\sigma_8(0.61)$	0.4725	$0.473^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.3	—	D_{1420}	816.6	816^{+13}_{-13}	$\sigma_8(0.61)$	0.5919	$0.592^{+0.014}_{-0.013}$
A_{100}^{PS}	255	264^{+70}_{-70}	D_{2000}	230.31	$230.0^{+4.7}_{-4.6}$	$f\sigma_8(2.33)$	0.2982	$0.2983^{+0.0071}_{-0.0064}$
A_{143}^{PS}	46.6	49^{+20}_{-20}	$n_{s,0.002}$	0.984	$0.989^{+0.057}_{-0.054}$	$\sigma_8(2.33)$	0.3071	$0.3073^{+0.0075}_{-0.0067}$
$A_{143 \times 217}^{PS}$	42.4	43^{+20}_{-20}	Y_P	0.245401	$0.24540^{+0.00015}_{-0.00017}$	$r_{0.002}$	0.0155	< 0.0838
A_{217}^{PS}	117.6	115^{+30}_{-30}	Y_P^{BBN}	0.246728	$0.24672^{+0.00015}_{-0.00017}$	$r_{0.01}$	0.0160	< 0.0836
A^{kSZ}	0.0	—	$10^5 D/H$	2.583	$2.584^{+0.075}_{-0.072}$	$\ln(10^{10} A_t)$	-1.04	$-0.8^{+1.6}_{-3.5}$
A_{100}^{dustTT}	8.88	$8.9^{+4.7}_{-4.7}$	Age/Gyr	13.800	$13.800^{+0.063}_{-0.063}$	r_{10}	0.0080	< 0.0439
A_{143}^{dustTT}	11.02	$11.0^{+4.5}_{-4.6}$	z_*	1089.96	$1089.96^{+0.72}_{-0.72}$	$10^9 A_t$	0.035	< 0.181
$A_{143 \times 217}^{dustTT}$	19.6	$18.7^{+8.4}_{-8.4}$	r_*	144.26	$144.27^{+0.80}_{-0.80}$	$10^9 A_t e^{-2\tau}$	0.032	< 0.162
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$100\theta_*$	1.04106	$1.04105^{+0.00079}_{-0.00081}$	f_{2000}^{143}	30.4	31^{+8}_{-8}
A_{100}^{dustTE}	0.115	$0.115^{+0.099}_{-0.097}$	$D_M(z_*)/\text{Gpc}$	13.857	$13.858^{+0.075}_{-0.075}$	$f_{2000}^{143 \times 217}$	33.1	33^{+6}_{-6}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.076}_{-0.076}$	z_{drag}	1060.01	$1060.01^{+0.80}_{-0.80}$	f_{2000}^{217}	107.6	$108.1^{+5.2}_{-5.1}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	r_{drag}	146.91	$146.92^{+0.80}_{-0.80}$	$\chi_{BKPLANCK}^2$	735.1	$739.4 (\nu: 3.6)$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	k_D	0.14107	$0.14106^{+0.00087}_{-0.00088}$	χ_{small}^2	396.4	$397.6 (\nu: 2.5)$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.21}_{-0.21}$	$100\theta_D$	0.160712	$0.16072^{+0.00048}_{-0.00047}$	χ_{lowl}^2	22.43	$22.9 (\nu: 1.4)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.69}$	z_{eq}	3417	3417^{+83}_{-80}	χ_{plik}^2	2345.1	$2360.7 (\nu: 18.6)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	0.010430	$0.01043^{+0.00025}_{-0.00025}$	χ_{prior}^2	1.9	$13.2 (\nu: 11.6)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8106	$0.811^{+0.015}_{-0.015}$	χ_{CMB}^2	3499.0	$3520.6 (\nu: 22.1)$

Best-fit $\chi_{eff}^2 = 3500.83$; $\bar{\chi}_{eff}^2 = 3533.84$; $R - 1 = 0.00338$

χ_{eff}^2 : CMB - BK15_dust: 735.07 small_100x143_offlike5_EE_Aplanck_B: 396.36 commander_dx12_v3_2_29: 22.43 plik_rd12_HM_v22b_TTTEE: 2345.11

15.38 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022446	$0.02245^{+0.00036}_{-0.00036}$	Ω_m	0.3125	$0.312^{+0.016}_{-0.016}$	$D_M(0.38)$	1529.6	1529^{+20}_{-20}
$\Omega_c h^2$	0.11961	$0.1195^{+0.0026}_{-0.0026}$	$\Omega_m h^2$	0.14270	$0.1426^{+0.0025}_{-0.0025}$	$H(0.51)$	89.75	$89.77^{+0.62}_{-0.59}$
$100\theta_{MC}$	1.04098	$1.04099^{+0.00075}_{-0.00077}$	$\Omega_m h^3$	0.09643	$0.09643^{+0.00080}_{-0.00081}$	$D_M(0.51)$	1981.3	1981^{+23}_{-24}
τ	0.0580	$0.058^{+0.023}_{-0.021}$	σ_8	0.8126	$0.812^{+0.020}_{-0.019}$	$H(0.61)$	95.379	$95.40^{+0.51}_{-0.49}$
$\ln(10^{10} A_s)$	3.0531	$3.054^{+0.050}_{-0.044}$	S_8	0.8293	$0.828^{+0.034}_{-0.032}$	$D_M(0.61)$	2305.4	2305^{+25}_{-26}
n_s	0.9664	$0.9656^{+0.0098}_{-0.011}$	$\sigma_8 \Omega_m^{0.5}$	0.4542	$0.453^{+0.018}_{-0.018}$	$H(2.33)$	236.39	$236.3^{+1.6}_{-1.6}$
$dn_s/d \ln k$	-0.0053	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6075	$0.607^{+0.019}_{-0.018}$	$D_M(2.33)$	5758.6	5758^{+23}_{-24}
r	0.0218	< 0.0879	$\sigma_8/h^{0.5}$	0.9885	$0.987^{+0.028}_{-0.026}$	$f\sigma_8(0.15)$	0.4588	$0.458^{+0.017}_{-0.017}$
y_{cal}	1.0010	$1.0009^{+0.0066}_{-0.0064}$	$r_{drag} h$	99.41	$99.5^{+2.0}_{-2.0}$	$\sigma_8(0.15)$	0.7508	$0.750^{+0.019}_{-0.017}$
$A_{B,dust}$	4.61	$4.9^{+3.1}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	2.436	$2.433^{+0.068}_{-0.067}$	$f\sigma_8(0.38)$	0.4769	$0.476^{+0.015}_{-0.014}$
$A_{B,sync}$	1.40	< 4.87	z_{re}	8.03	$8.1^{+2.2}_{-2.2}$	$\sigma_8(0.38)$	0.6654	$0.665^{+0.016}_{-0.015}$
$\alpha_{B,dust}$	-0.51	—	$10^9 A_s$	2.118	$2.12^{+0.11}_{-0.091}$	$f\sigma_8(0.51)$	0.4754	$0.475^{+0.014}_{-0.013}$
$\beta_{B,dust}$	1.580	$1.60^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8862	$1.885^{+0.030}_{-0.029}$	$\sigma_8(0.51)$	0.6226	$0.622^{+0.015}_{-0.014}$
$\alpha_{B,sync}$	-0.37	—	D_{40}	1224.1	1224^{+48}_{-46}	$f\sigma_8(0.61)$	0.4703	$0.470^{+0.013}_{-0.012}$
$\beta_{B,sync}$	-3.04	$-3.11^{+0.69}_{-0.73}$	D_{220}	5736	5735^{+100}_{-98}	$\sigma_8(0.61)$	0.5924	$0.592^{+0.014}_{-0.013}$
$\epsilon_{dust,sync}$	-0.37	< 0.361	D_{810}	2544.5	2543^{+36}_{-35}	$f\sigma_8(2.33)$	0.2987	$0.2985^{+0.0073}_{-0.0065}$
A_{217}^{CIB}	48.6	48^{+20}_{-20}	D_{1420}	818.3	817^{+13}_{-13}	$\sigma_8(2.33)$	0.3079	$0.3077^{+0.0077}_{-0.0067}$
$\xi^{tSZ \times CIB}$	0.31	—	D_{2000}	231.01	$230.4^{+4.6}_{-4.6}$	$r_{0.002}$	0.0203	< 0.0863
A_{143}^{tSZ}	7.2	—	$n_{s,0.002}$	0.983	$0.989^{+0.056}_{-0.055}$	$r_{0.01}$	0.0209	< 0.0862
A_{100}^{PS}	253	263^{+70}_{-70}	Y_P	0.245425	$0.24543^{+0.00014}_{-0.00014}$	$\ln(10^{10} A_t)$	-0.77	$-0.7^{+1.6}_{-3.5}$
A_{143}^{PS}	47.4	48^{+20}_{-20}	Y_P^{BBN}	0.246752	$0.24675^{+0.00014}_{-0.00014}$	r_{10}	0.0104	< 0.0450
$A_{143 \times 217}^{PS}$	45.4	43^{+20}_{-20}	$10^5 D/H$	2.572	$2.571^{+0.067}_{-0.065}$	$10^9 A_t$	0.046	< 0.186
A_{217}^{PS}	118.7	115^{+30}_{-30}	Age/Gyr	13.786	$13.785^{+0.053}_{-0.054}$	$10^9 A_t e^{-2\tau}$	0.041	< 0.165
A^{kSZ}	0.0	—	z_*	1089.79	$1089.78^{+0.59}_{-0.58}$	f_{2000}^{143}	29.7	31^{+8}_{-8}
$A_{100}^{dust TT}$	8.84	$9.0^{+4.7}_{-4.6}$	r_*	144.47	$144.49^{+0.63}_{-0.63}$	$f_{2000}^{143 \times 217}$	32.6	33^{+6}_{-5}
$A_{143}^{dust TT}$	11.02	$11.0^{+4.5}_{-4.5}$	$100\theta_*$	1.04117	$1.04117^{+0.00074}_{-0.00076}$	f_{2000}^{217}	107.3	$107.8^{+5.2}_{-5.0}$
$A_{143 \times 217}^{dust TT}$	19.6	$18.7^{+8.4}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	13.876	$13.878^{+0.060}_{-0.060}$	$\chi_{BKPLANCK}^2$	735.3	$739.8 (\nu: 3.6)$
$A_{217}^{dust TT}$	94.5	94^{+20}_{-20}	z_{drag}	1060.09	$1060.09^{+0.79}_{-0.77}$	χ_{small}^2	396.8	$397.9 (\nu: 3.0)$
$A_{100}^{dust TE}$	0.114	$0.115^{+0.098}_{-0.096}$	r_{drag}	147.11	$147.13^{+0.67}_{-0.65}$	χ_{lowl}^2	22.40	$22.6 (\nu: 1.3)$
$A_{100 \times 143}^{dust TE}$	0.134	$0.135^{+0.077}_{-0.078}$	k_D	0.14090	$0.14089^{+0.00079}_{-0.00081}$	χ_{plik}^2	2345.0	$2360.4 (\nu: 18.2)$
$A_{100 \times 217}^{dust TE}$	0.482	$0.48^{+0.22}_{-0.21}$	$100\theta_D$	0.160677	$0.16067^{+0.00046}_{-0.00046}$	χ_{6DF}^2	0.049	$0.068 (\nu: 0.0)$
$A_{143}^{dust TE}$	0.225	$0.22^{+0.14}_{-0.14}$	z_{eq}	3395	3393^{+60}_{-59}	χ_{MGS}^2	1.10	$1.18 (\nu: 0.1)$
$A_{143 \times 217}^{dust TE}$	0.665	$0.66^{+0.21}_{-0.20}$	k_{eq}	0.010361	$0.01035^{+0.00018}_{-0.00018}$	$\chi_{DR12BAO}^2$	4.88	$5.1 (\nu: 1.3)$
$A_{217}^{dust TE}$	2.07	$2.07^{+0.69}_{-0.69}$	$100\theta_{eq}$	0.8149	$0.815^{+0.011}_{-0.011}$	χ_{prior}^2	1.9	$13.2 (\nu: 12.0)$
c_{100}	0.99973	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_{s,eq}$	0.4502	$0.4504^{+0.0058}_{-0.0057}$	χ_{BAO}^2	6.02	$6.4 (\nu: 0.9)$
c_{217}	0.99821	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	72.87	$72.9^{+1.0}_{-0.99}$	χ_{CMB}^2	3499.5	$3520.8 (\nu: 22.0)$
H_0	67.58	$67.6^{+1.2}_{-1.2}$	$D_M(0.15)$	641.5	641^{+10}_{-10}			
Ω_Λ	0.6875	$0.688^{+0.016}_{-0.016}$	$H(0.38)$	83.01	$83.04^{+0.76}_{-0.73}$			

Best-fit $\chi_{eff}^2 = 3507.39$; $\bar{\chi}_{eff}^2 = 3540.38$; $R - 1 = 0.00677$
 χ_{eff}^2 : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.88 CMB - BK15_dust: 735.29 small_100x143.offlike5_EE_Aplanck_B: 396.77 commander_dx12_v3_2_29: 22.40 plik_rd12_HM_v22b_TTTEF
2345.00

15.39 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00040}_{-0.00039}$	H_0	$67.2^{+1.6}_{-1.6}$	$100\theta_{\mathrm{s,eq}}$	$0.4481^{+0.0078}_{-0.0078}$
$\Omega_{\mathrm{c}}h^2$	$0.1206^{+0.0037}_{-0.0036}$	Ω_{Λ}	$0.681^{+0.022}_{-0.023}$	$H(0.15)$	$72.5^{+1.4}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.04087^{+0.00081}_{-0.00082}$	Ω_{m}	$0.319^{+0.023}_{-0.022}$	$D_{\mathrm{M}}(0.15)$	645^{+14}_{-14}
τ	$0.058^{+0.021}_{-0.016}$	$\Omega_{\mathrm{m}}h^2$	$0.1436^{+0.0034}_{-0.0034}$	$H(0.38)$	$82.8^{+1.0}_{-0.94}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.054^{+0.047}_{-0.034}$	$\Omega_{\mathrm{m}}h^3$	$0.09643^{+0.00079}_{-0.00080}$	$D_{\mathrm{M}}(0.38)$	1537^{+27}_{-27}
n_{s}	$0.963^{+0.012}_{-0.012}$	σ_8	$0.815^{+0.020}_{-0.017}$	$H(0.51)$	$89.56^{+0.79}_{-0.74}$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.008^{+0.017}_{-0.018}$	S_8	$0.840^{+0.042}_{-0.041}$	$D_{\mathrm{M}}(0.51)$	1990^{+31}_{-32}
r	< 0.0859	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.023}_{-0.023}$	$H(0.61)$	$95.23^{+0.64}_{-0.59}$
y_{cal}	$1.0008^{+0.0065}_{-0.0063}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.61)$	2314^{+34}_{-34}
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2}$	$\sigma_8/h^{0.5}$	$0.994^{+0.030}_{-0.029}$	$H(2.33)$	$236.9^{+2.2}_{-2.1}$
$A_{B,\mathrm{sync}}$	< 4.88	$r_{\mathrm{drag}}h$	$98.7^{+2.8}_{-2.7}$	$D_{\mathrm{M}}(2.33)$	5765^{+28}_{-29}
$\alpha_{B,\mathrm{dust}}$	—	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.073}_{-0.072}$	$f\sigma_8(0.15)$	$0.464^{+0.021}_{-0.021}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	z_{re}	< 9.91	$\sigma_8(0.15)$	$0.752^{+0.018}_{-0.015}$
$\alpha_{B,\mathrm{sync}}$	—	$10^9 A_{\mathrm{s}}$	$2.12^{+0.10}_{-0.071}$	$f\sigma_8(0.38)$	$0.481^{+0.017}_{-0.017}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.73}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.890^{+0.032}_{-0.031}$	$\sigma_8(0.38)$	$0.666^{+0.015}_{-0.012}$
$\epsilon_{\mathrm{dust,sync}}$	< 0.353	D_{40}	1227^{+50}_{-47}	$f\sigma_8(0.51)$	$0.478^{+0.015}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5730^{+100}_{-98}	$\sigma_8(0.51)$	$0.623^{+0.014}_{-0.011}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2543^{+36}_{-35}	$f\sigma_8(0.61)$	$0.473^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{1420}	816^{+13}_{-13}	$\sigma_8(0.61)$	$0.593^{+0.013}_{-0.010}$
A_{100}^{PS}	264^{+70}_{-70}	D_{2000}	$230.0^{+4.7}_{-4.6}$	$f\sigma_8(2.33)$	$0.2985^{+0.0069}_{-0.0051}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.989^{+0.057}_{-0.054}$	$\sigma_8(2.33)$	$0.3075^{+0.0073}_{-0.0053}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24540^{+0.00015}_{-0.00016}$	$r_{0.002}$	< 0.0840
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00015}_{-0.00016}$	$r_{0.01}$	< 0.0837
A^{kSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.583^{+0.075}_{-0.071}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.8^{+1.6}_{-3.5}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.800^{+0.063}_{-0.063}$	r_{10}	< 0.0440
$A_{143}^{\mathrm{dust}TT}$	$11.0^{+4.6}_{-4.6}$	z_{*}	$1089.95^{+0.72}_{-0.71}$	$10^9 A_{\mathrm{t}}$	< 0.182
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.4}_{-8.4}$	r_{*}	$144.27^{+0.80}_{-0.81}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.162
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_{*}$	$1.04105^{+0.00079}_{-0.00081}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.099}_{-0.097}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.859^{+0.075}_{-0.075}$	$f_{2000}^{143\times 217}$	33^{+6}_{-6}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.076}$	z_{drag}	$1060.01^{+0.80}_{-0.81}$	f_{2000}^{217}	$108.1^{+5.2}_{-5.1}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_{drag}	$146.93^{+0.80}_{-0.80}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.4 (\nu: 3.6)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	k_{D}	$0.14105^{+0.00088}_{-0.00089}$	χ_{simall}^2	$397.6 (\nu: 2.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00048}_{-0.00046}$	χ_{lowl}^2	$22.9 (\nu: 1.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.69}$	z_{eq}	3416^{+82}_{-80}	χ_{plik}^2	$2360.6 (\nu: 18.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	$0.01043^{+0.00025}_{-0.00024}$	χ_{prior}^2	$13.2 (\nu: 11.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.015}_{-0.015}$	χ_{CMB}^2	$3520.5 (\nu: 21.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3533.65; R - 1 = 0.00314$$

15.40 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00036}_{-0.00036}$	Ω_m	$0.312^{+0.016}_{-0.016}$	$D_M(0.38)$	1529^{+20}_{-20}
$\Omega_c h^2$	$0.1195^{+0.0026}_{-0.0026}$	$\Omega_m h^2$	$0.1426^{+0.0025}_{-0.0025}$	$H(0.51)$	$89.77^{+0.62}_{-0.58}$
$100\theta_{MC}$	$1.04100^{+0.00075}_{-0.00077}$	$\Omega_m h^3$	$0.09643^{+0.00079}_{-0.00081}$	$D_M(0.51)$	1980^{+23}_{-24}
τ	$0.059^{+0.021}_{-0.017}$	σ_8	$0.812^{+0.020}_{-0.016}$	$H(0.61)$	$95.40^{+0.51}_{-0.48}$
$\ln(10^{10} A_s)$	$3.055^{+0.049}_{-0.036}$	S_8	$0.828^{+0.034}_{-0.032}$	$D_M(0.61)$	2304^{+25}_{-26}
n_s	$0.9656^{+0.0098}_{-0.011}$	$\sigma_8 \Omega_m^{0.5}$	$0.454^{+0.018}_{-0.017}$	$H(2.33)$	$236.3^{+1.6}_{-1.6}$
$dn_s/d \ln k$	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.019}_{-0.017}$	$D_M(2.33)$	5758^{+23}_{-24}
r	< 0.0881	$\sigma_8/h^{0.5}$	$0.988^{+0.028}_{-0.025}$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.016}$
y_{cal}	$1.0009^{+0.0066}_{-0.0064}$	$r_{drag} h$	$99.5^{+2.0}_{-2.0}$	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.014}$
$A_{B,dust}$	$4.8^{+3.1}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.068}_{-0.063}$	$f\sigma_8(0.38)$	$0.476^{+0.015}_{-0.014}$
$A_{B,sync}$	< 4.90	z_{re}	< 10.0	$\sigma_8(0.38)$	$0.665^{+0.016}_{-0.012}$
$\alpha_{B,dust}$	—	$10^9 A_s$	$2.12^{+0.11}_{-0.075}$	$f\sigma_8(0.51)$	$0.475^{+0.014}_{-0.012}$
$\beta_{B,dust}$	$1.60^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	$1.885^{+0.030}_{-0.029}$	$\sigma_8(0.51)$	$0.622^{+0.015}_{-0.011}$
$\alpha_{B,sync}$	—	D_{40}	1223^{+48}_{-46}	$f\sigma_8(0.61)$	$0.470^{+0.013}_{-0.011}$
$\beta_{B,sync}$	$-3.11^{+0.69}_{-0.72}$	D_{220}	5735^{+100}_{-98}	$\sigma_8(0.61)$	$0.592^{+0.014}_{-0.011}$
$\epsilon_{dust,sync}$	< 0.361	D_{810}	2543^{+36}_{-35}	$f\sigma_8(2.33)$	$0.2986^{+0.0073}_{-0.0053}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	817^{+13}_{-13}	$\sigma_8(2.33)$	$0.3078^{+0.0076}_{-0.0055}$
$\xi^{tSZ \times CIB}$	—	D_{2000}	$230.4^{+4.6}_{-4.6}$	$r_{0.002}$	< 0.0865
A_{143}^{tSZ}	—	$n_{s,0.002}$	$0.990^{+0.057}_{-0.055}$	$r_{0.01}$	< 0.0862
A_{100}^{PS}	263^{+70}_{-70}	Y_P	$0.24543^{+0.00014}_{-0.00014}$	$\ln(10^{10} A_t)$	$-0.7^{+1.6}_{-3.5}$
A_{143}^{PS}	48^{+20}_{-20}	Y_P^{BBN}	$0.24675^{+0.00014}_{-0.00014}$	r_{10}	< 0.0452
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	$10^5 D/H$	$2.571^{+0.067}_{-0.064}$	$10^9 A_t$	< 0.186
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.785^{+0.053}_{-0.054}$	$10^9 A_t e^{-2\tau}$	< 0.166
A^{kSZ}	—	z_*	$1089.77^{+0.58}_{-0.58}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.6}$	r_*	$144.49^{+0.63}_{-0.63}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
A_{143}^{dustTT}	$11.0^{+4.5}_{-4.5}$	$100\theta_*$	$1.04117^{+0.00075}_{-0.00076}$	f_{2000}^{217}	$107.8^{+5.2}_{-5.0}$
$A_{143 \times 217}^{dustTT}$	$18.7^{+8.4}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	$13.878^{+0.060}_{-0.060}$	$\chi_{BKPLANCK}^2$	$739.8 (\nu: 3.6)$
A_{217}^{dustTT}	94^{+20}_{-20}	z_{drag}	$1060.09^{+0.79}_{-0.77}$	χ_{simall}^2	$397.9 (\nu: 3.1)$
A_{100}^{dustTE}	$0.115^{+0.099}_{-0.096}$	r_{drag}	$147.13^{+0.67}_{-0.65}$	χ_{lowl}^2	$22.6 (\nu: 1.3)$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.077}_{-0.078}$	k_D	$0.14089^{+0.00079}_{-0.00082}$	χ_{plik}^2	$2360.3 (\nu: 18.1)$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.21}$	$100\theta_D$	$0.16067^{+0.00045}_{-0.00045}$	χ_{6DF}^2	$0.067 (\nu: 0.0)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	z_{eq}	3393^{+60}_{-59}	χ_{MGS}^2	$1.19 (\nu: 0.1)$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.21}_{-0.20}$	k_{eq}	$0.01035^{+0.00018}_{-0.00018}$	$\chi_{DR12BAO}^2$	$5.1 (\nu: 1.3)$
A_{217}^{dustTE}	$2.07^{+0.69}_{-0.69}$	$100\theta_{eq}$	$0.815^{+0.011}_{-0.011}$	χ_{prior}^2	$13.2 (\nu: 12.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	$0.4504^{+0.0058}_{-0.0057}$	χ_{BAO}^2	$6.4 (\nu: 0.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	$72.9^{+1.0}_{-0.99}$	χ_{CMB}^2	$3520.7 (\nu: 21.7)$
H_0	$67.6^{+1.2}_{-1.2}$	$D_M(0.15)$	641^{+10}_{-10}		
Ω_Λ	$0.688^{+0.016}_{-0.016}$	$H(0.38)$	$83.04^{+0.76}_{-0.73}$		

$$\bar{\chi}_{\text{eff}}^2 = 3540.25; R - 1 = 0.00710$$

15.41 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02213	$0.02215^{+0.00061}_{-0.00060}$ (+0.0 σ)	$\Omega_{\mathrm{m}} h^3$	0.09605	$0.0961^{+0.0013}_{-0.0013}$ (+0.0 σ)	$H(0.38)$	82.39	$82.5^{+1.5}_{-1.4}$ (+0.1 σ)
$\Omega_{\mathrm{c}} h^2$	0.1214	$0.1211^{+0.0054}_{-0.0053}$ (−0.1 σ)	σ_8	0.8144	$0.814^{+0.023}_{-0.023}$ (−0.1 σ)	$D_{\mathrm{M}}(0.38)$	1546.2	1544^{+40}_{-41} (−0.1 σ)
$100\theta_{\mathrm{MC}}$	1.04079	$1.0408^{+0.0012}_{-0.0012}$ (+0.2 σ)	S_8	0.847	$0.845^{+0.062}_{-0.060}$ (−0.1 σ)	$H(0.51)$	89.24	$89.3^{+1.2}_{-1.1}$ (+0.1 σ)
τ	0.0534	$0.054^{+0.025}_{-0.022}$ (−0.0 σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4640	$0.463^{+0.034}_{-0.033}$ (−0.1 σ)	$D_{\mathrm{M}}(0.51)$	2000.9	1999^{+47}_{-48} (−0.1 σ)
$\ln(10^{10} A_{\mathrm{s}})$	3.0451	$3.046^{+0.050}_{-0.046}$ (−0.1 σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6147	$0.614^{+0.030}_{-0.030}$ (−0.1 σ)	$H(0.61)$	94.96	$95.00^{+0.97}_{-0.85}$ (+0.1 σ)
n_{s}	0.9605	$0.962^{+0.016}_{-0.015}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9977	$0.997^{+0.041}_{-0.041}$ (−0.1 σ)	$D_{\mathrm{M}}(0.61)$	2327	2324^{+50}_{-52} (−0.1 σ)
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	−0.0056	$−0.005^{+0.019}_{-0.019}$ (+0.1 σ)	$r_{\mathrm{drag}} h$	97.95	$98.1^{+4.2}_{-4.0}$ (+0.1 σ)	$H(2.33)$	237.21	$237.1^{+3.2}_{-3.2}$ (−0.1 σ)
r	0.0137	< 0.0838 (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.457	$2.454^{+0.098}_{-0.099}$ (−0.1 σ)	$D_{\mathrm{M}}(2.33)$	5778.8	5777^{+41}_{-44} (−0.1 σ)
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0065}$ (+0.0 σ)	z_{re}	7.66	$7.7^{+2.3}_{-2.4}$ (−0.0 σ)	$f\sigma_8(0.15)$	0.4675	$0.467^{+0.031}_{-0.031}$ (−0.1 σ)
$A_{B,\mathrm{dust}}$	4.62	$4.9^{+3.2}_{-2.1}$ (+0.0 σ)	$10^9 A_{\mathrm{s}}$	2.101	$2.10^{+0.11}_{-0.095}$ (−0.1 σ)	$\sigma_8(0.15)$	0.7512	$0.751^{+0.020}_{-0.019}$ (−0.1 σ)
$A_{B,\mathrm{sync}}$	1.48	< 4.94 (−0.0 σ)	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8884	$1.887^{+0.037}_{-0.037}$ (−0.2 σ)	$f\sigma_8(0.38)$	0.4830	$0.482^{+0.024}_{-0.024}$ (−0.1 σ)
$\alpha_{B,\mathrm{dust}}$	−0.53	—	D_{40}	1228	1231^{+56}_{-54} (−0.1 σ)	$\sigma_8(0.38)$	0.6645	$0.665^{+0.017}_{-0.016}$ (−0.1 σ)
$\beta_{B,\mathrm{dust}}$	1.579	$1.60^{+0.25}_{-0.25}$ (+0.0 σ)	D_{220}	5704	5703^{+110}_{-110} (−0.2 σ)	$f\sigma_8(0.51)$	0.4800	$0.479^{+0.020}_{-0.021}$ (−0.1 σ)
$\alpha_{B,\mathrm{sync}}$	−0.25	—	D_{810}	2536.8	2537^{+36}_{-37} (−0.2 σ)	$\sigma_8(0.51)$	0.6213	$0.621^{+0.015}_{-0.014}$ (−0.1 σ)
$\beta_{B,\mathrm{sync}}$	−3.04	$−3.10^{+0.68}_{-0.74}$ (+0.0 σ)	D_{1420}	812.8	814^{+14}_{-14} (−0.0 σ)	$f\sigma_8(0.61)$	0.4740	$0.473^{+0.018}_{-0.019}$ (−0.1 σ)
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	−0.34	< 0.350 (+0.0 σ)	D_{2000}	228.7	$229.0^{+5.1}_{-5.2}$ (+0.0 σ)	$\sigma_8(0.61)$	0.5908	$0.591^{+0.014}_{-0.013}$ (−0.1 σ)
A_{100}^{PS}	250	246^{+60}_{-60} (−0.7 σ)	$n_{\mathrm{s},0.002}$	0.979	$0.979^{+0.061}_{-0.060}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2974	$0.2975^{+0.0072}_{-0.0067}$ (−0.0 σ)
A_{143}^{PS}	39	43^{+20}_{-20} (−1.0 σ)	Y_{P}	0.245296	$0.24530^{+0.00024}_{-0.00028}$ (+0.0 σ)	$\sigma_8(2.33)$	0.3060	$0.3063^{+0.0078}_{-0.0071}$ (−0.0 σ)
A_{217}^{PS}	97.9	100^{+30}_{-40} (−1.4 σ)	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246622	$0.24663^{+0.00024}_{-0.00028}$ (+0.0 σ)	$r_{0.002}$	0.0125	< 0.0812 (+0.0 σ)
A_{217}^{CIB}	44.0	42^{+20}_{-20} (−1.0 σ)	$10^5 \mathrm{D}/\mathrm{H}$	2.632	$2.63^{+0.12}_{-0.11}$ (−0.0 σ)	$r_{0.01}$	0.0130	< 0.0815 (+0.0 σ)
A_{143}^{tSZ}	3.85	< 8.68 (−0.6 σ)	Age/Gyr	13.831	$13.827^{+0.094}_{-0.098}$ (−0.1 σ)	$\ln(10^{10} A_{\mathrm{t}})$	−1.25	$−0.9^{+1.7}_{-3.6}$ (+0.0 σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.542	$0.64^{+0.31}_{-0.31}$	z_*	1090.35	$1090.3^{+1.1}_{-1.1}$ (−0.0 σ)	r_{10}	0.0065	< 0.0424 (+0.0 σ)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.66	—	r_*	144.26	$144.3^{+1.2}_{-1.2}$ (+0.1 σ)	$10^9 A_{\mathrm{t}}$	0.029	< 0.176 (+0.0 σ)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.00	—	$100\theta_*$	1.04099	$1.0410^{+0.0012}_{-0.0012}$ (+0.2 σ)	$10^9 A_{\mathrm{t}} e^{-2\tau}$	0.026	< 0.158 (+0.0 σ)
A^{kSZ}	4.7	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.858	$13.86^{+0.12}_{-0.11}$ (+0.1 σ)	f_{2000}^{143}	32.5	32^{+9}_{-9} (−0.1 σ)
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.50}$	z_{drag}	1059.47	$1059.5^{+1.3}_{-1.3}$ (−0.0 σ)	f_{2000}^{217}	108.7	$108.3^{+5.7}_{-5.6}$ (−0.3 σ)
A_{143}^{dust}	0.984	$0.98^{+0.46}_{-0.45}$	r_{drag}	147.00	$147.0^{+1.3}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	34.1	34^{+6}_{-6} (−0.3 σ)
A_{217}^{dust}	0.962	$0.97^{+0.27}_{-0.27}$	k_{D}	0.14078	$0.1408^{+0.0014}_{-0.0015}$ (−0.1 σ)	$\chi_{\mathrm{BKPLANCK}}^2$	734.9	$739.2 (\nu: 3.7)$ (+0.1 σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.007	$1.03^{+0.42}_{-0.41}$	$100\theta_{\mathrm{D}}$	0.16103	$0.16101^{+0.00076}_{-0.00073}$ (+0.1 σ)	χ_{small}^2	396.0	$397.3 (\nu: 1.9)$ (−0.0 σ)
c_{100}	0.99739	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	z_{eq}	3429	3424^{+120}_{-120} (−0.1 σ)	χ_{lowl}^2	22.9	$23.6 (\nu: 2.4)$ (−0.0 σ)
c_{217}	1.00143	$1.0013^{+0.0040}_{-0.0040}$ (+4.8 σ)	k_{eq}	0.010466	$0.01045^{+0.00037}_{-0.00037}$ (−0.1 σ)	$\chi_{\mathrm{CamSpec}}^2$	7050.6	$7064.4 (\nu: 15.8)$
H_0	66.63	$66.7^{+2.4}_{-2.3}$ (+0.1 σ)	$100\theta_{\mathrm{eq}}$	0.8078	$0.809^{+0.023}_{-0.022}$ (+0.1 σ)	χ_{prior}^2	2.6	$9.3 (\nu: 7.4)$ (+0.1 σ)
Ω_{Λ}	0.6753	$0.677^{+0.032}_{-0.035}$ (+0.1 σ)	$100\theta_{\mathrm{s,eq}}$	0.4467	$0.447^{+0.012}_{-0.011}$ (+0.1 σ)	χ_{CMB}^2	8204.4	$8224.5 (\nu: 20.0)$ (+1001.9 σ)
Ω_{m}	0.3247	$0.323^{+0.035}_{-0.032}$ (−0.1 σ)	$H(0.15)$	72.05	$72.2^{+2.1}_{-1.9}$ (+0.1 σ)			
$\Omega_{\mathrm{m}} h^2$	0.1441	$0.1439^{+0.0051}_{-0.0050}$ (−0.1 σ)	$D_{\mathrm{M}}(0.15)$	649.7	649^{+20}_{-20} (−0.1 σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 8206.96$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.16$; $\bar{\chi}_{\mathrm{eff}}^2 = 8233.85$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.13$; $R - 1 = 0.00340$
 χ_{eff}^2 : CMB - BK15_dust: 734.86 (Δ 0.15) small_100x143_offlike5_EE_Aplanck_B: 396.03 (Δ 0.00) commander_dx12_v3.2.29: 22.86 (Δ -0.47) CamSpec like_10.7HM: 7050.61

15.42 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02226^{+0.00058}_{-0.00055}$ (-0.0σ)	σ_8	0.8082	$0.809^{+0.022}_{-0.020}$ (-0.1σ)	$H(0.51)$	89.66	$89.68^{+0.80}_{-0.74}$ $(+0.1\sigma)$
$\Omega_c h^2$	0.11917	$0.1192^{+0.0032}_{-0.0031}$ (-0.0σ)	S_8	0.8229	$0.824^{+0.039}_{-0.038}$ (-0.1σ)	$D_M(0.51)$	1982.2	1982^{+28}_{-30} (-0.1σ)
$100\theta_{MC}$	1.04104	$1.0411^{+0.0011}_{-0.0011}$ $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4507	$0.451^{+0.021}_{-0.021}$ (-0.1σ)	$H(0.61)$	95.28	$95.29^{+0.69}_{-0.63}$ $(+0.1\sigma)$
τ	0.0553	$0.056^{+0.025}_{-0.022}$ (-0.0σ)	$\sigma_8 \Omega_m^{0.25}$	0.6035	$0.604^{+0.021}_{-0.021}$ (-0.1σ)	$D_M(0.61)$	2306.6	2306^{+31}_{-32} (-0.1σ)
$\ln(10^{10} A_s)$	3.0438	$3.046^{+0.052}_{-0.047}$ (-0.1σ)	$\sigma_8/h^{0.5}$	0.9831	$0.984^{+0.031}_{-0.030}$ (-0.1σ)	$H(2.33)$	235.89	$235.9^{+2.1}_{-2.0}$ (-0.0σ)
n_s	0.9657	$0.966^{+0.012}_{-0.011}$ $(+0.2\sigma)$	$r_{drag} h$	99.65	$99.6^{+2.5}_{-2.4}$ $(+0.1\sigma)$	$D_M(2.33)$	5765.6	5765^{+32}_{-34} (-0.0σ)
$dn_s/d \ln k$	-0.0048	$-0.005^{+0.019}_{-0.020}$ $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.424	$2.426^{+0.075}_{-0.074}$ (-0.1σ)	$f\sigma_8(0.15)$	0.4553	$0.456^{+0.020}_{-0.020}$ (-0.1σ)
r	0.0170	< 0.0856 $(+0.0\sigma)$	z_{re}	7.80	$7.8^{+2.4}_{-2.3}$ (-0.0σ)	$\sigma_8(0.15)$	0.7468	$0.748^{+0.020}_{-0.018}$ (-0.1σ)
y_{cal}	1.0008	$1.0008^{+0.0065}_{-0.0066}$ $(+0.0\sigma)$	$10^9 A_s$	2.098	$2.10^{+0.11}_{-0.097}$ (-0.1σ)	$f\sigma_8(0.38)$	0.4737	$0.474^{+0.017}_{-0.017}$ (-0.1σ)
$A_{B,dust}$	4.60	$4.9^{+3.1}_{-2.1}$ $(+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8789	$1.879^{+0.032}_{-0.032}$ (-0.2σ)	$\sigma_8(0.38)$	0.6621	$0.663^{+0.017}_{-0.015}$ (-0.1σ)
$A_{B,sync}$	1.45	< 4.84 $(+0.0\sigma)$	D_{40}	1220	1224^{+53}_{-51} (-0.0σ)	$f\sigma_8(0.51)$	0.4724	$0.473^{+0.015}_{-0.015}$ (-0.1σ)
$\alpha_{B,dust}$	-0.50	—	D_{220}	5713	5712^{+100}_{-100} (-0.2σ)	$\sigma_8(0.51)$	0.6196	$0.620^{+0.016}_{-0.014}$ (-0.0σ)
$\beta_{B,dust}$	1.575	$1.60^{+0.25}_{-0.25}$ (-0.0σ)	D_{810}	2535.7	2537^{+36}_{-37} (-0.2σ)	$f\sigma_8(0.61)$	0.4675	$0.468^{+0.014}_{-0.014}$ (-0.1σ)
$\alpha_{B,sync}$	-0.38	—	D_{1420}	814.3	815^{+13}_{-14} (-0.0σ)	$\sigma_8(0.61)$	0.5896	$0.590^{+0.015}_{-0.013}$ (-0.0σ)
$\beta_{B,sync}$	-3.05	$-3.10^{+0.70}_{-0.76}$ $(+0.0\sigma)$	D_{2000}	229.3	$229.6^{+5.1}_{-5.1}$ $(+0.0\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2976^{+0.0076}_{-0.0066}$ (-0.0σ)
$\epsilon_{dust,sync}$	-0.34	< 0.357 $(+0.0\sigma)$	$n_{s,0.002}$	0.981	$0.982^{+0.060}_{-0.059}$ (-0.1σ)	$\sigma_8(2.33)$	0.3065	$0.3068^{+0.0079}_{-0.0070}$ (-0.0σ)
A_{100}^{PS}	249	245^{+60}_{-70} (-0.7σ)	Y_P	0.245343	$0.24535^{+0.00022}_{-0.00026}$ (-0.0σ)	$r_{0.002}$	0.0157	< 0.0843 $(+0.0\sigma)$
A_{143}^{PS}	41.7	42^{+20}_{-20} (-1.0σ)	Y_P^{BBN}	0.246670	$0.24667^{+0.00023}_{-0.00026}$ (-0.0σ)	$r_{0.01}$	0.0162	< 0.0834 $(+0.0\sigma)$
A_{217}^{PS}	98.5	100^{+30}_{-30} (-1.4σ)	$10^5 D/H$	2.610	$2.61^{+0.11}_{-0.10}$ $(+0.0\sigma)$	$\ln(10^{10} A_t)$	-1.03	$-0.8^{+1.7}_{-3.5}$ $(+0.0\sigma)$
A_{217}^{CIB}	42.9	42^{+20}_{-20} (-1.0σ)	Age/Gyr	13.803	$13.801^{+0.075}_{-0.078}$ (-0.0σ)	r_{10}	0.0081	< 0.0437 $(+0.0\sigma)$
A_{143}^{tSZ}	3.55	< 8.71 (-0.6σ)	z_*	1090.01	$1089.99^{+0.80}_{-0.83}$ $(+0.0\sigma)$	$10^9 A_t$	0.036	< 0.179 $(+0.0\sigma)$
$r_{143 \times 217}^{PS}$	0.583	$0.64^{+0.32}_{-0.32}$	r_*	144.74	$144.72^{+0.85}_{-0.85}$ $(+0.0\sigma)$	$10^9 A_t e^{-2\tau}$	0.032	< 0.161 $(+0.0\sigma)$
$r_{143 \times 217}^{CIB}$	0.68	—	$100\theta_*$	1.04124	$1.0413^{+0.0011}_{-0.0011}$ $(+0.2\sigma)$	f_{2000}^{143}	32.0	31^{+9}_{-9} (-0.1σ)
$\xi^{tSZ \times CIB}$	0.29	—	$D_M(z_*)/Gpc$	13.901	$13.899^{+0.082}_{-0.083}$ $(+0.0\sigma)$	f_{2000}^{217}	108.3	$108.0^{+5.7}_{-5.6}$ (-0.3σ)
A^{kSZ}	5.1	—	z_{drag}	1059.59	$1059.6^{+1.3}_{-1.3}$ (-0.0σ)	$f_{2000}^{143 \times 217}$	33.6	33^{+6}_{-6} (-0.3σ)
A_{100}^{dust}	1.02	$1.01^{+0.50}_{-0.50}$	r_{drag}	147.45	$147.43^{+0.93}_{-0.94}$ $(+0.1\sigma)$	$\chi_{BKPLANCK}^2$	735.6	$740.0 (\nu: 3.6)$ $(+0.1\sigma)$
A_{143}^{dust}	0.988	$0.97^{+0.46}_{-0.46}$	k_D	0.14039	$0.1404^{+0.0013}_{-0.0013}$ (-0.1σ)	χ_{small}^2	396.2	$397.5 (\nu: 2.5)$ (-0.0σ)
A_{217}^{dust}	0.966	$0.97^{+0.26}_{-0.27}$	$100\theta_D$	0.16098	$0.16096^{+0.00076}_{-0.00073}$ $(+0.1\sigma)$	χ_{lowl}^2	22.26	$23.0 (\nu: 1.9)$ (-0.0σ)
$A_{143 \times 217}^{dust}$	0.996	$1.03^{+0.42}_{-0.41}$	z_{eq}	3379	3380^{+75}_{-72} (-0.0σ)	$\chi_{CamSpec}^2$	7051.6	$7064.6 (\nu: 15.3)$
c_{100}	0.99743	$0.9975^{+0.0027}_{-0.0027}$ (-3.4σ)	k_{eq}	0.010314	$0.01032^{+0.00023}_{-0.00022}$ (-0.0σ)	χ_{6DF}^2	0.029	$0.066 (\nu: 0.0)$ (-0.0σ)
c_{217}	1.00144	$1.0013^{+0.0040}_{-0.0040}$ $(+4.8\sigma)$	$100\theta_{eq}$	0.8172	$0.817^{+0.014}_{-0.013}$ $(+0.0\sigma)$	χ_{MGS}^2	1.22	$1.29 (\nu: 0.1)$ $(+0.1\sigma)$
H_0	67.58	$67.6^{+1.4}_{-1.4}$ $(+0.1\sigma)$	$100\theta_{s,eq}$	0.4515	$0.4514^{+0.0071}_{-0.0070}$ $(+0.1\sigma)$	$\chi_{DR12BAO}^2$	4.37	$5.0 (\nu: 1.5)$ (-0.1σ)
Ω_Λ	0.6890	$0.689^{+0.019}_{-0.019}$ $(+0.1\sigma)$	$H(0.15)$	72.85	$72.9^{+1.3}_{-1.2}$ $(+0.1\sigma)$	χ_{prior}^2	2.5	$9.4 (\nu: 7.4)$ $(+0.1\sigma)$
Ω_m	0.3110	$0.311^{+0.019}_{-0.019}$ (-0.1σ)	$D_M(0.15)$	641.5	641^{+12}_{-12} (-0.1σ)	χ_{BAO}^2	5.61	$6.3 (\nu: 1.1)$ (-0.0σ)
$\Omega_m h^2$	0.14205	$0.1421^{+0.0031}_{-0.0030}$ (-0.0σ)	$H(0.38)$	82.95	$82.97^{+0.97}_{-0.89}$ $(+0.1\sigma)$	χ_{CMB}^2	8205.7	$8225.0 (\nu: 19.8)$ $(+995.9\sigma)$
$\Omega_m h^3$	0.09600	$0.0960^{+0.0013}_{-0.0013}$ $(+0.0\sigma)$	$D_M(0.38)$	1530.1	1530^{+24}_{-25} (-0.1σ)			

Best-fit $\chi_{eff}^2 = 8213.81$; $\Delta\chi_{eff}^2 = 6292.06$; $\bar{\chi}_{eff}^2 = 8240.71$; $\Delta\bar{\chi}_{eff}^2 = 6291.94$; $R - 1 = 0.00691$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ -0.01) MGS: 1.22 (Δ 0.06) DR12BAO: 4.37 (Δ -0.20) CMB - BK15_dust: 735.64 (Δ 0.08) small.100x143_offlike5.EE_Aplanck_B: 396.20 (Δ -0.14) commander_dx12.v3.2.29: 22.25 (Δ -0.17) CamSpec like_10.7HM: 7051.59

15.43 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02214	$0.02217^{+0.00060}_{-0.00057}$ (-0.0σ)	$\Omega_{\mathrm{m}}h^3$	0.09596	$0.0960^{+0.0012}_{-0.0012}$ ($+0.1\sigma$)	$H(0.38)$	82.54	$82.6^{+1.3}_{-1.1}$ ($+0.0\sigma$)
$\Omega_{\mathrm{c}}h^2$	0.12063	$0.1205^{+0.0040}_{-0.0041}$ ($+0.0\sigma$)	σ_8	0.8119	$0.812^{+0.016}_{-0.016}$ ($+0.0\sigma$)	$D_{\mathrm{M}}(0.38)$	1541.6	1540^{+32}_{-34} (-0.0σ)
$100\theta_{\mathrm{MC}}$	1.04082	$1.0409^{+0.0012}_{-0.0011}$ ($+0.1\sigma$)	S_8	0.8389	$0.838^{+0.042}_{-0.041}$ ($+0.0\sigma$)	$H(0.51)$	89.34	$89.4^{+1.0}_{-0.92}$ ($+0.0\sigma$)
τ	0.0535	$0.054^{+0.025}_{-0.022}$ ($+0.0\sigma$)	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4595	$0.459^{+0.023}_{-0.023}$ ($+0.0\sigma$)	$D_{\mathrm{M}}(0.51)$	1995.6	1994^{+38}_{-40} (-0.0σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0430	$3.043^{+0.046}_{-0.041}$ (-0.1σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6108	$0.610^{+0.020}_{-0.020}$ ($+0.0\sigma$)	$H(0.61)$	95.03	$95.08^{+0.85}_{-0.76}$ ($+0.0\sigma$)
n_{s}	0.9620	$0.963^{+0.014}_{-0.013}$ ($+0.1\sigma$)	$\sigma_8/h^{0.5}$	0.9925	$0.992^{+0.027}_{-0.027}$ ($+0.0\sigma$)	$D_{\mathrm{M}}(0.61)$	2321.0	2319^{+40}_{-43} (-0.0σ)
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	-0.0041	$-0.004^{+0.019}_{-0.019}$ ($+0.1\sigma$)	$r_{\mathrm{drag}}h$	98.48	$98.6^{+3.3}_{-3.1}$ ($+0.0\sigma$)	$H(2.33)$	236.74	$236.7^{+2.5}_{-2.5}$ ($+0.0\sigma$)
r	0.0130	< 0.0827 ($+0.0\sigma$)	$\langle d^2 \rangle^{1/2}$	2.448	$2.445^{+0.069}_{-0.068}$ (-0.0σ)	$D_{\mathrm{M}}(2.33)$	5776.2	5774^{+38}_{-40} (-0.0σ)
y_{cal}	1.0006	$1.0007^{+0.0065}_{-0.0064}$ ($+0.0\sigma$)	z_{re}	7.66	$7.7^{+2.3}_{-2.3}$ ($+0.0\sigma$)	$f\sigma_8(0.15)$	0.4634	$0.463^{+0.021}_{-0.021}$ ($+0.0\sigma$)
$A_{B,\mathrm{dust}}$	4.63	$4.9^{+3.2}_{-2.2}$ ($+0.0\sigma$)	$10^9 A_{\mathrm{s}}$	2.097	$2.098^{+0.098}_{-0.085}$ (-0.1σ)	$\sigma_8(0.15)$	0.7493	$0.749^{+0.015}_{-0.014}$ ($+0.0\sigma$)
$A_{B,\mathrm{sync}}$	1.47	< 4.92 ($+0.0\sigma$)	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8842	$1.884^{+0.031}_{-0.031}$ (-0.2σ)	$f\sigma_8(0.38)$	0.4797	$0.479^{+0.016}_{-0.016}$ ($+0.0\sigma$)
$\alpha_{B,\mathrm{dust}}$	-0.52	—	D_{40}	1228	1231^{+53}_{-52} (-0.0σ)	$\sigma_8(0.38)$	0.6633	$0.663^{+0.013}_{-0.013}$ ($+0.0\sigma$)
$\beta_{B,\mathrm{dust}}$	1.577	$1.60^{+0.25}_{-0.25}$ (-0.0σ)	D_{220}	5706	5706^{+110}_{-110} (-0.2σ)	$f\sigma_8(0.51)$	0.4773	$0.477^{+0.014}_{-0.014}$ ($+0.0\sigma$)
$\alpha_{B,\mathrm{sync}}$	-0.26	—	D_{810}	2535.1	2536^{+36}_{-35} (-0.2σ)	$\sigma_8(0.51)$	0.6203	$0.621^{+0.013}_{-0.012}$ ($+0.0\sigma$)
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.74}$ (-0.0σ)	D_{1420}	812.9	814^{+14}_{-14} (-0.0σ)	$f\sigma_8(0.61)$	0.4716	$0.471^{+0.012}_{-0.012}$ ($+0.0\sigma$)
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.33	< 0.346 ($+0.0\sigma$)	D_{2000}	228.8	$229.2^{+5.1}_{-5.2}$ ($+0.0\sigma$)	$\sigma_8(0.61)$	0.5900	$0.590^{+0.012}_{-0.012}$ ($+0.0\sigma$)
A_{100}^{PS}	249	245^{+60}_{-60} (-0.7σ)	$n_{\mathrm{s},0.002}$	0.975	$0.976^{+0.061}_{-0.061}$ (-0.1σ)	$f\sigma_8(2.33)$	0.2971	$0.2973^{+0.0067}_{-0.0061}$ ($+0.0\sigma$)
A_{143}^{PS}	39	42^{+20}_{-20} (-1.0σ)	Y_{P}	0.245301	$0.24531^{+0.00023}_{-0.00027}$ (-0.0σ)	$\sigma_8(2.33)$	0.3060	$0.3062^{+0.0076}_{-0.0067}$ ($+0.0\sigma$)
A_{217}^{PS}	97.7	100^{+30}_{-30} (-1.4σ)	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246627	$0.24664^{+0.00023}_{-0.00027}$ (-0.0σ)	$r_{0.002}$	0.0118	< 0.0802 ($+0.0\sigma$)
A_{217}^{CIB}	44.5	42^{+20}_{-20} (-1.0σ)	$10^5\mathrm{D}/\mathrm{H}$	2.629	$2.62^{+0.11}_{-0.11}$ ($+0.0\sigma$)	$r_{0.01}$	0.0124	< 0.0805 ($+0.0\sigma$)
A_{143}^{tSZ}	4.11	< 8.71 (-0.6σ)	Age/Gyr	13.826	$13.821^{+0.086}_{-0.090}$ (-0.0σ)	$\ln(10^{10}A_{\mathrm{t}})$	-1.30	$-0.9^{+1.7}_{-3.5}$ ($+0.0\sigma$)
$r_{143\times 217}^{\mathrm{PS}}$	0.544	$0.64^{+0.32}_{-0.31}$	z_*	1090.27	$1090.21^{+0.95}_{-0.97}$ ($+0.0\sigma$)	r_{10}	0.0061	< 0.0417 ($+0.0\sigma$)
$r_{143\times 217}^{\mathrm{CIB}}$	0.67	—	r_*	144.44	$144.45^{+0.97}_{-0.95}$ (-0.0σ)	$10^9 A_{\mathrm{t}}$	0.027	< 0.174 ($+0.0\sigma$)
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.00	—	$100\theta_*$	1.04102	$1.0411^{+0.0012}_{-0.0011}$ ($+0.1\sigma$)	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.025	< 0.156 ($+0.0\sigma$)
A^{kSZ}	4.2	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.875	$13.876^{+0.092}_{-0.090}$ (-0.0σ)	f_{2000}^{143}	32.4	32^{+9}_{-9} (-0.1σ)
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.50}$	z_{drag}	1059.44	$1059.5^{+1.3}_{-1.3}$ (-0.0σ)	f_{2000}^{217}	108.5	$108.1^{+5.7}_{-5.6}$ (-0.3σ)
A_{143}^{dust}	0.979	$0.98^{+0.45}_{-0.45}$	r_{drag}	147.18	$147.2^{+1.0}_{-1.0}$ (-0.0σ)	$f_{2000}^{143\times 217}$	33.9	34^{+6}_{-6} (-0.3σ)
A_{217}^{dust}	0.959	$0.97^{+0.26}_{-0.27}$	k_{D}	0.14059	$0.1406^{+0.0012}_{-0.0013}$ (-0.0σ)	$\chi_{\mathrm{lensing}}^2$	9.11	9.71 ($\nu: 0.5$) (-0.0σ)
$A_{143\times 217}^{\mathrm{dust}}$	1.005	$1.03^{+0.42}_{-0.41}$	$100\theta_{\mathrm{D}}$	0.16104	$0.16101^{+0.00074}_{-0.00072}$ ($+0.0\sigma$)	$\chi_{\mathrm{BKPLANCK}}^2$	735.2	739.5 ($\nu: 3.5$) ($+0.0\sigma$)
c_{100}	0.99744	$0.9975^{+0.0027}_{-0.0027}$ (-3.4σ)	z_{eq}	3412	3409^{+92}_{-92} ($+0.0\sigma$)	χ_{small}^2	396.02	397.1 ($\nu: 1.6$) ($+0.0\sigma$)
c_{217}	1.00145	$1.0013^{+0.0041}_{-0.0041}$ ($+4.8\sigma$)	k_{eq}	0.010413	$0.01041^{+0.00028}_{-0.00028}$ ($+0.0\sigma$)	χ_{lowl}^2	22.9	23.7 ($\nu: 2.5$) ($+0.0\sigma$)
H_0	66.91	$67.0^{+2.0}_{-1.8}$ ($+0.0\sigma$)	$100\theta_{\mathrm{eq}}$	0.8109	$0.811^{+0.018}_{-0.017}$ (-0.0σ)	$\chi_{\mathrm{CamSpec}}^2$	7050.4	7063.8 ($\nu: 14.7$)
Ω_{Λ}	0.6797	$0.681^{+0.026}_{-0.026}$ ($+0.0\sigma$)	$100\theta_{\mathrm{s,eq}}$	0.4483	$0.4486^{+0.0091}_{-0.0087}$ (-0.0σ)	χ_{prior}^2	2.5	9.3 ($\nu: 7.3$) ($+0.1\sigma$)
Ω_{m}	0.3203	$0.319^{+0.026}_{-0.026}$ (-0.0σ)	$H(0.15)$	72.28	$72.4^{+1.7}_{-1.6}$ ($+0.0\sigma$)	χ_{CMB}^2	8213.7	8233.8 ($\nu: 19.8$) ($+997.2\sigma$)
$\Omega_{\mathrm{m}}h^2$	0.14341	$0.1433^{+0.0039}_{-0.0038}$ ($+0.0\sigma$)	$D_{\mathrm{M}}(0.15)$	647.3	647^{+16}_{-17} (-0.0σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 8216.23$; $\Delta\chi_{\mathrm{eff}}^2 = 6292.06$; $\bar{\chi}_{\mathrm{eff}}^2 = 8243.12$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.97$; $R - 1 = 0.00347$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.11 (Δ 0.03) BK15_dust: 735.18 (Δ -0.02) small_100x143.offlike5_EE_Aplanck_B: 396.02 (Δ 0.00) com-mander_dx12_v3_2.29: 22.95 (Δ -0.26) CamSpec like_10.7HM: 7050.44

15.44 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02226	$0.02226^{+0.00058}_{-0.00055}$ (-0.0σ)	σ_8	0.8095	$0.810^{+0.017}_{-0.016}$ $(+0.0\sigma)$	$H(0.51)$	89.65	$89.66^{+0.78}_{-0.71}$ $(+0.0\sigma)$
$\Omega_c h^2$	0.11935	$0.1193^{+0.0028}_{-0.0028}$ $(+0.0\sigma)$	S_8	0.8255	$0.826^{+0.031}_{-0.030}$ $(+0.0\sigma)$	$D_M(0.51)$	1983.1	1983^{+26}_{-29} (-0.0σ)
$100\theta_{MC}$	1.04105	$1.0410^{+0.0011}_{-0.0011}$ $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4521	$0.452^{+0.017}_{-0.017}$ $(+0.0\sigma)$	$H(0.61)$	95.27	$95.28^{+0.67}_{-0.62}$ $(+0.0\sigma)$
τ	0.0563	$0.057^{+0.023}_{-0.019}$ $(+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6050	$0.605^{+0.016}_{-0.016}$ $(+0.0\sigma)$	$D_M(0.61)$	2307.5	2307^{+29}_{-31} (-0.0σ)
$\ln(10^{10} A_s)$	3.0461	$3.048^{+0.046}_{-0.039}$ (-0.0σ)	$\sigma_8/h^{0.5}$	0.9851	$0.986^{+0.023}_{-0.023}$ $(+0.0\sigma)$	$H(2.33)$	236.03	$236.0^{+1.8}_{-1.8}$ $(+0.0\sigma)$
n_s	0.9652	$0.966^{+0.011}_{-0.011}$ $(+0.2\sigma)$	$r_{drag} h$	99.53	$99.6^{+2.3}_{-2.2}$ $(+0.0\sigma)$	$D_M(2.33)$	5765.4	5765^{+32}_{-33} (-0.0σ)
$dn_s/d \ln k$	-0.0045	$-0.004^{+0.019}_{-0.020}$ $(+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.431	$2.431^{+0.060}_{-0.060}$ (-0.0σ)	$f\sigma_8(0.15)$	0.4567	$0.457^{+0.016}_{-0.015}$ $(+0.0\sigma)$
r	0.0155	< 0.0832 (-0.0σ)	z_{re}	7.89	$7.9^{+2.1}_{-2.0}$ $(+0.0\sigma)$	$\sigma_8(0.15)$	0.7480	$0.749^{+0.015}_{-0.014}$ $(+0.0\sigma)$
y_{cal}	1.0007	$1.0010^{+0.0064}_{-0.0064}$ $(+0.1\sigma)$	$10^9 A_s$	2.103	$2.107^{+0.099}_{-0.081}$ (-0.0σ)	$f\sigma_8(0.38)$	0.4749	$0.475^{+0.013}_{-0.013}$ $(+0.0\sigma)$
$A_{B,dust}$	4.62	$4.9^{+3.1}_{-2.2}$ $(+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8796	$1.880^{+0.030}_{-0.028}$ (-0.2σ)	$\sigma_8(0.38)$	0.6630	$0.664^{+0.014}_{-0.012}$ $(+0.0\sigma)$
$A_{B,sync}$	1.42	< 4.97 $(+0.0\sigma)$	D_{40}	1222	1227^{+51}_{-51} (-0.0σ)	$f\sigma_8(0.51)$	0.4734	$0.474^{+0.012}_{-0.012}$ $(+0.0\sigma)$
$\alpha_{B,dust}$	-0.51	—	D_{220}	5716	5716^{+110}_{-100} (-0.2σ)	$\sigma_8(0.51)$	0.6204	$0.621^{+0.013}_{-0.012}$ $(+0.0\sigma)$
$\beta_{B,dust}$	1.574	$1.60^{+0.25}_{-0.25}$ (-0.0σ)	D_{810}	2535.7	2537^{+36}_{-36} (-0.1σ)	$f\sigma_8(0.61)$	0.4684	$0.469^{+0.011}_{-0.011}$ $(+0.0\sigma)$
$\alpha_{B,sync}$	-0.48	—	D_{1420}	814.2	815^{+13}_{-14} (-0.0σ)	$\sigma_8(0.61)$	0.5903	$0.591^{+0.012}_{-0.011}$ $(+0.0\sigma)$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.74}$ $(+0.0\sigma)$	D_{2000}	229.4	$229.7^{+5.0}_{-5.1}$ $(+0.0\sigma)$	$f\sigma_8(2.33)$	0.2976	$0.2980^{+0.0066}_{-0.0057}$ $(+0.0\sigma)$
$\epsilon_{dust,sync}$	-0.34	< 0.359 $(+0.0\sigma)$	$n_{s,0.002}$	0.980	$0.980^{+0.061}_{-0.059}$ (-0.1σ)	$\sigma_8(2.33)$	0.3068	$0.3072^{+0.0072}_{-0.0061}$ $(+0.0\sigma)$
A_{100}^{PS}	248	245^{+60}_{-70} (-0.7σ)	Y_P	0.245349	$0.24535^{+0.00022}_{-0.00026}$ (-0.0σ)	$r_{0.002}$	0.0143	< 0.0813 (-0.0σ)
A_{143}^{PS}	40	42^{+20}_{-20} (-1.0σ)	Y_P^{BBN}	0.246676	$0.24667^{+0.00023}_{-0.00026}$ (-0.0σ)	$r_{0.01}$	0.0148	< 0.0814 (-0.0σ)
A_{217}^{PS}	98.1	101^{+30}_{-30} (-1.4σ)	$10^5 D/H$	2.607	$2.61^{+0.11}_{-0.10}$ $(+0.0\sigma)$	$\ln(10^{10} A_t)$	-1.12	$-0.8^{+1.7}_{-3.4}$ (-0.0σ)
A_{217}^{CIB}	43.7	41^{+20}_{-20} (-1.0σ)	Age/Gyr	13.803	$13.802^{+0.074}_{-0.076}$ (-0.0σ)	r_{10}	0.0073	< 0.0424 (-0.0σ)
A_{143}^{tSZ}	3.97	< 8.71 (-0.6σ)	z_*	1090.01	$1090.00^{+0.80}_{-0.82}$ $(+0.0\sigma)$	$10^9 A_t$	0.033	< 0.176 (-0.0σ)
$r_{143 \times 217}^{PS}$	0.561	$0.64^{+0.32}_{-0.32}$	r_*	144.69	$144.71^{+0.76}_{-0.76}$ (-0.0σ)	$10^9 A_t e^{-2\tau}$	0.029	< 0.156 (-0.0σ)
$r_{143 \times 217}^{CIB}$	0.66	—	$100\theta_*$	1.04124	$1.0412^{+0.0011}_{-0.0011}$ $(+0.1\sigma)$	f_{2000}^{143}	31.9	31^{+9}_{-9} (-0.1σ)
$\xi^{tSZ \times CIB}$	0.09	—	$D_M(z_*)/Gpc$	13.896	$13.898^{+0.075}_{-0.074}$ (-0.0σ)	f_{2000}^{217}	108.2	$107.9^{+5.7}_{-5.5}$ (-0.3σ)
A^{kSZ}	4.5	—	z_{drag}	1059.63	$1059.6^{+1.3}_{-1.2}$ (-0.0σ)	$f_{2000}^{143 \times 217}$	33.6	33^{+6}_{-6} (-0.3σ)
A_{100}^{dust}	1.02	$1.01^{+0.51}_{-0.50}$	r_{drag}	147.39	$147.41^{+0.88}_{-0.86}$ (-0.0σ)	$\chi_{lensing}^2$	9.03	$9.45 (\nu: 0.3)$ $(+0.1\sigma)$
A_{143}^{dust}	0.984	$0.97^{+0.46}_{-0.46}$	k_D	0.14047	$0.1404^{+0.0012}_{-0.0012}$ (-0.0σ)	$\chi_{BKPLANCK}^2$	735.6	$739.8 (\nu: 3.5)$ $(+0.0\sigma)$
A_{217}^{dust}	0.960	$0.97^{+0.26}_{-0.27}$	$100\theta_D$	0.16095	$0.16096^{+0.00074}_{-0.00071}$ $(+0.0\sigma)$	χ_{simall}^2	396.4	$397.5 (\nu: 2.4)$ $(+0.0\sigma)$
$A_{143 \times 217}^{dust}$	1.006	$1.03^{+0.42}_{-0.41}$	z_{eq}	3384	3382^{+66}_{-65} $(+0.0\sigma)$	χ_{lowl}^2	22.43	$23.2 (\nu: 2.1)$ $(+0.0\sigma)$
c_{100}	0.99745	$0.9975^{+0.0027}_{-0.0027}$ (-3.4σ)	k_{eq}	0.010328	$0.01032^{+0.00020}_{-0.00020}$ $(+0.0\sigma)$	$\chi_{CamSpec}^2$	7051.2	$7064.1 (\nu: 14.7)$
c_{217}	1.00137	$1.0013^{+0.0040}_{-0.0041}$ $(+4.8\sigma)$	$100\theta_{eq}$	0.8164	$0.817^{+0.012}_{-0.012}$ (-0.0σ)	χ_{6DF}^2	0.038	$0.064 (\nu: 0.0)$ $(+0.0\sigma)$
H_0	67.53	$67.6^{+1.4}_{-1.3}$ $(+0.0\sigma)$	$100\theta_{s,eq}$	0.4511	$0.4512^{+0.0064}_{-0.0062}$ (-0.0σ)	χ_{MGS}^2	1.16	$1.25 (\nu: 0.1)$ $(+0.0\sigma)$
Ω_Λ	0.6881	$0.688^{+0.017}_{-0.017}$ $(+0.0\sigma)$	$H(0.15)$	72.81	$72.8^{+1.2}_{-1.1}$ $(+0.0\sigma)$	$\chi_{DR12BAO}^2$	4.57	$5.0 (\nu: 1.3)$ (-0.0σ)
Ω_m	0.3119	$0.312^{+0.017}_{-0.017}$ (-0.0σ)	$D_M(0.15)$	641.9	642^{+11}_{-12} (-0.0σ)	χ_{prior}^2	2.5	$9.3 (\nu: 7.4)$ $(+0.1\sigma)$
$\Omega_m h^2$	0.14225	$0.1422^{+0.0028}_{-0.0027}$ $(+0.0\sigma)$	$H(0.38)$	82.93	$82.95^{+0.92}_{-0.84}$ $(+0.0\sigma)$	χ_{CMB}^2	8214.6	$8234.1 (\nu: 19.7)$ $(+992.0\sigma)$
$\Omega_m h^3$	0.09606	$0.0960^{+0.0012}_{-0.0012}$ $(+0.0\sigma)$	$D_M(0.38)$	1530.9	1531^{+22}_{-24} (-0.0σ)	χ_{BAO}^2	5.77	$6.3 (\nu: 0.9)$ (-0.0σ)

Best-fit $\chi_{eff}^2 = 8222.87$; $\Delta\chi_{eff}^2 = 6292.21$; $\bar{\chi}_{eff}^2 = 8249.75$; $\Delta\bar{\chi}_{eff}^2 = 6292.05$; $R - 1 = 0.00778$
 χ_{eff}^2 : BAO - 6DF: 0.04 (Δ 0.00) MGS: 1.16 (Δ 0.00) DR12BAO: 4.57 (Δ 0.01) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.03 (Δ 0.16) BK15_dust: 735.56 (Δ 0.06) simall_100x143_offlike5_EE_Aplanck_B: 396.42 (Δ 0.07) commander_dx12_v3.2.29: 22.43 (Δ -0.37) CamSpec like_10.7HM: 7051.18

15.45 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02216^{+0.00061}_{-0.00059} \quad (+0.0\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	$H(0.38)$	$82.5^{+1.5}_{-1.4} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1211^{+0.0054}_{-0.0053} \quad (-0.1\sigma)$	σ_8	$0.815^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1544^{+40}_{-41} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	S_8	$0.846^{+0.062}_{-0.060} \quad (-0.1\sigma)$	$H(0.51)$	$89.3^{+1.2}_{-1.1} \quad (+0.1\sigma)$
τ	$0.055^{+0.022}_{-0.014} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.463^{+0.034}_{-0.033} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1998^{+46}_{-48} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.048^{+0.048}_{-0.033} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.029}_{-0.029} \quad (-0.1\sigma)$	$H(0.61)$	$95.02^{+0.97}_{-0.85} \quad (+0.1\sigma)$
n_{s}	$0.962^{+0.016}_{-0.015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.997^{+0.040}_{-0.040} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2324^{+50}_{-52} \quad (-0.1\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.006^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$98.2^{+4.2}_{-4.0} \quad (+0.1\sigma)$	$H(2.33)$	$237.1^{+3.2}_{-3.2} \quad (-0.1\sigma)$
r	$< 0.0839 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.097}_{-0.098} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5776^{+41}_{-44} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0066} \quad (+0.0\sigma)$	z_{re}	$< 9.80 \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.467^{+0.031}_{-0.030} \quad (-0.1\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.10}_{-0.070} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.752^{+0.020}_{-0.017} \quad (-0.1\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.95 \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.887^{+0.037}_{-0.037} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.024}_{-0.024} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1230^{+56}_{-53} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.016}_{-0.013} \quad (-0.1\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (+0.0\sigma)$	D_{220}	$5703^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.480^{+0.020}_{-0.021} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2537^{+36}_{-37} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.015}_{-0.012} \quad (-0.1\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.74} \quad (+0.0\sigma)$	D_{1420}	$814^{+14}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.018}_{-0.018} \quad (-0.1\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.351 \quad (+0.0\sigma)$	D_{2000}	$229.1^{+5.1}_{-5.2} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.014}_{-0.011} \quad (-0.1\sigma)$
A_{100}^{PS}	$246^{+60}_{-60} \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.980^{+0.060}_{-0.060} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0070}_{-0.0051} \quad (-0.0\sigma)$
A_{143}^{PS}	$43^{+20}_{-20} \quad (-1.0\sigma)$	Y_{P}	$0.24530^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0075}_{-0.0052} \quad (-0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-40} \quad (-1.4\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$r_{0.002}$	$< 0.0813 \quad (+0.0\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0816 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.6\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.826^{+0.093}_{-0.097} \quad (-0.1\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.5} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.31}$	z_*	$1090.3^{+1.1}_{-1.1} \quad (-0.0\sigma)$	r_{10}	$< 0.0424 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	r_*	$144.3^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.177 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.158 \quad (+0.0\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.86^{+0.11}_{-0.11} \quad (+0.1\sigma)$	f_{2000}^{143}	$32^{+9}_{-9} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	z_{drag}	$1059.5^{+1.3}_{-1.3} \quad (-0.0\sigma)$	f_{2000}^{217}	$108.3^{+5.7}_{-5.6} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	r_{drag}	$147.0^{+1.3}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	k_{D}	$0.1408^{+0.0014}_{-0.0015} \quad (-0.1\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.2 \quad (\nu: 3.7) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00076}_{-0.00073} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 2.0) \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	$3423^{+120}_{-120} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 2.4) \quad (-0.0\sigma)$
c_{217}	$1.0013^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	k_{eq}	$0.01045^{+0.00037}_{-0.00037} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.3 \quad (\nu: 15.7)$
H_0	$66.8^{+2.4}_{-2.3} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.809^{+0.023}_{-0.022} \quad (+0.1\sigma)$	χ_{prior}^2	$9.3 \quad (\nu: 7.4) \quad (+0.1\sigma)$
Ω_{Λ}	$0.677^{+0.032}_{-0.035} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.447^{+0.012}_{-0.011} \quad (+0.1\sigma)$	χ_{CMB}^2	$8224.3 \quad (\nu: 19.6) \quad (+1009.8\sigma)$
Ω_{m}	$0.323^{+0.035}_{-0.032} \quad (-0.1\sigma)$	$H(0.15)$	$72.2^{+2.1}_{-1.9} \quad (+0.1\sigma)$		
$\Omega_{\mathrm{m}}h^2$	$0.1439^{+0.0051}_{-0.0050} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$649^{+20}_{-20} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 8233.63$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.12$; $R - 1 = 0.00394$

15.46 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00057}_{-0.00054} \quad (-0.0\sigma)$	σ_8	$0.810^{+0.021}_{-0.017} \quad (-0.1\sigma)$	$H(0.51)$	$89.68^{+0.80}_{-0.73} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0032}_{-0.0031} \quad (-0.0\sigma)$	S_8	$0.824^{+0.039}_{-0.036} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+28}_{-29} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$H(0.61)$	$95.30^{+0.69}_{-0.63} \quad (+0.1\sigma)$
τ	$0.057^{+0.023}_{-0.015} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2306^{+31}_{-32} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.051}_{-0.034} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.027} \quad (-0.1\sigma)$	$H(2.33)$	$235.9^{+2.1}_{-2.0} \quad (-0.0\sigma)$
n_{s}	$0.966^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+32}_{-34} \quad (-0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.005^{+0.019}_{-0.020} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.074}_{-0.071} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.020}_{-0.019} \quad (-0.1\sigma)$
r	$< 0.0856 \quad (+0.0\sigma)$	z_{re}	$< 9.99 \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.019}_{-0.015} \quad (-0.1\sigma)$
y_{cal}	$1.0008^{+0.0065}_{-0.0066} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.11}_{-0.071} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.015} \quad (-0.1\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.032}_{-0.032} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.017}_{-0.013} \quad (-0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.84 \quad (+0.0\sigma)$	D_{40}	$1223^{+53}_{-51} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	$5712^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.012} \quad (-0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	D_{810}	$2537^{+36}_{-37} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	$815^{+13}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.011} \quad (-0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.70}_{-0.75} \quad (+0.0\sigma)$	D_{2000}	$229.5^{+5.1}_{-5.1} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0074}_{-0.0053} \quad (-0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.360 \quad (+0.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.983^{+0.060}_{-0.060} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0077}_{-0.0055} \quad (-0.0\sigma)$
A_{100}^{PS}	$245^{+60}_{-70} \quad (-0.7\sigma)$	Y_{P}	$0.24535^{+0.00022}_{-0.00025} \quad (-0.0\sigma)$	$r_{0.002}$	$< 0.0841 \quad (+0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00022}_{-0.00025} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0833 \quad (+0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-30} \quad (-1.4\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.10} \quad (+0.0\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.8^{+1.7}_{-3.4} \quad (-0.0\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.801^{+0.074}_{-0.078} \quad (-0.0\sigma)$	r_{10}	$< 0.0437 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.72 \quad (-0.6\sigma)$	z_*	$1089.99^{+0.80}_{-0.82} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.180 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.32}$	r_*	$144.72^{+0.84}_{-0.85} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.161 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.899^{+0.082}_{-0.083} \quad (+0.0\sigma)$	f_{2000}^{217}	$108.0^{+5.8}_{-5.6} \quad (-0.3\sigma)$
A^{kSZ}	—	z_{drag}	$1059.6^{+1.3}_{-1.3} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	r_{drag}	$147.43^{+0.93}_{-0.94} \quad (+0.1\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.9 \quad (\nu: 3.6) \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.6) \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_{\mathrm{D}}$	$0.16096^{+0.00074}_{-0.00075} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 1.8) \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{eq}	$3380^{+75}_{-72} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.5 \quad (\nu: 15.1)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	k_{eq}	$0.01032^{+0.00023}_{-0.00022} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.065 \quad (\nu: 0.0) \quad (-0.0\sigma)$
c_{217}	$1.0013^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.014}_{-0.013} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.1\sigma)$
H_0	$67.6^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4514^{+0.0070}_{-0.0070} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$H(0.15)$	$72.9^{+1.3}_{-1.2} \quad (+0.1\sigma)$	χ_{prior}^2	$9.4 \quad (\nu: 7.4) \quad (+0.1\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-12} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1421^{+0.0031}_{-0.0030} \quad (-0.0\sigma)$	$H(0.38)$	$82.97^{+0.97}_{-0.89} \quad (+0.1\sigma)$	χ_{CMB}^2	$8224.8 \quad (\nu: 19.4) \quad (+1003.7\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+24}_{-25} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8240.52; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.91; R - 1 = 0.00672$$

15.47 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02218^{+0.00059}_{-0.00056} \quad (-0.0\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	$H(0.38)$	$82.6^{+1.3}_{-1.1} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1204^{+0.0039}_{-0.0040} \quad (+0.0\sigma)$	σ_8	$0.812^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1539^{+30}_{-34} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	S_8	$0.837^{+0.042}_{-0.041} \quad (+0.0\sigma)$	$H(0.51)$	$89.4^{+1.0}_{-0.88} \quad (+0.0\sigma)$
τ	$0.055^{+0.021}_{-0.014} \quad (+0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1993^{+36}_{-39} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.044}_{-0.030} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$H(0.61)$	$95.10^{+0.85}_{-0.73} \quad (+0.0\sigma)$
n_{s}	$0.963^{+0.013}_{-0.013} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.992^{+0.027}_{-0.027} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2318^{+38}_{-43} \quad (-0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.004^{+0.019}_{-0.019} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$98.7^{+3.3}_{-2.9} \quad (+0.0\sigma)$	$H(2.33)$	$236.6^{+2.4}_{-2.4} \quad (+0.0\sigma)$
r	$< 0.0828 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.445^{+0.069}_{-0.068} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5773^{+36}_{-40} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	$< 9.68 \quad (+0.0\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.021}_{-0.021} \quad (+0.0\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.095}_{-0.062} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.013} \quad (+0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.95 \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.031}_{-0.030} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1230^{+53}_{-52} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	D_{220}	$5706^{+110}_{-110} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.014}_{-0.014} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2536^{+35}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.74} \quad (+0.0\sigma)$	D_{1420}	$814^{+14}_{-14} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.348 \quad (+0.0\sigma)$	D_{2000}	$229.2^{+5.1}_{-5.2} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0091} \quad (+0.0\sigma)$
A_{100}^{PS}	$245^{+60}_{-60} \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.977^{+0.061}_{-0.059} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0065}_{-0.0046} \quad (+0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	Y_{P}	$0.24531^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0073}_{-0.0051} \quad (+0.0\sigma)$
A_{217}^{PS}	$100^{+30}_{-30} \quad (-1.4\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00027} \quad (-0.0\sigma)$	$r_{0.002}$	$< 0.0805 \quad (+0.0\sigma)$
A_{217}^{CIB}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (+0.0\sigma)$	$r_{0.01}$	$< 0.0806 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.71 \quad (-0.6\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.819^{+0.084}_{-0.089} \quad (-0.0\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.5} \quad (+0.0\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.31}$	z_*	$1090.19^{+0.91}_{-0.96} \quad (+0.0\sigma)$	r_{10}	$< 0.0418 \quad (+0.0\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	r_*	$144.47^{+0.96}_{-0.92} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.175 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$100\theta_*$	$1.0411^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.156 \quad (+0.0\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.877^{+0.091}_{-0.088} \quad (-0.0\sigma)$	f_{2000}^{143}	$32^{+9}_{-9} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	z_{drag}	$1059.5^{+1.3}_{-1.2} \quad (-0.0\sigma)$	f_{2000}^{217}	$108.1^{+5.8}_{-5.5} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	r_{drag}	$147.2^{+1.0}_{-0.98} \quad (-0.0\sigma)$	$f_{2000}^{143\times 217}$	$34^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	k_{D}	$0.1406^{+0.0012}_{-0.0013} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.70 \quad (\nu: 0.5) \quad (-0.0\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00074}_{-0.00072} \quad (+0.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.5 \quad (\nu: 3.5) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{eq}	$3407^{+89}_{-91} \quad (+0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{217}	$1.0013^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	k_{eq}	$0.01040^{+0.00027}_{-0.00028} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.6 \quad (\nu: 2.4) \quad (+0.0\sigma)$
H_0	$67.1^{+2.0}_{-1.7} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.017}_{-0.016} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.8 \quad (\nu: 14.7)$
Ω_{Λ}	$0.681^{+0.025}_{-0.025} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4488^{+0.0089}_{-0.0083} \quad (-0.0\sigma)$	χ_{prior}^2	$9.3 \quad (\nu: 7.3) \quad (+0.1\sigma)$
Ω_{m}	$0.319^{+0.025}_{-0.025} \quad (+0.0\sigma)$	$H(0.15)$	$72.4^{+1.7}_{-1.5} \quad (+0.0\sigma)$	χ_{CMB}^2	$8233.6 \quad (\nu: 19.5) \quad (+1006.7\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1432^{+0.0037}_{-0.0038} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+15}_{-17} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8242.90; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.97; R - 1 = 0.00417$$

15.48 base_nrun_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00057}_{-0.00054} \quad (-0.0\sigma)$	σ_8	$0.811^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$H(0.51)$	$89.67^{+0.78}_{-0.70} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0028}_{-0.0028} \quad (+0.0\sigma)$	S_8	$0.826^{+0.031}_{-0.030} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+26}_{-28} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.61)$	$95.28^{+0.67}_{-0.62} \quad (+0.0\sigma)$
τ	$0.057^{+0.021}_{-0.015} \quad (+0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.016} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2307^{+28}_{-31} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.049^{+0.045}_{-0.033} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$H(2.33)$	$236.0^{+1.8}_{-1.8} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$r_{\mathrm{drag}}h$	$99.6^{+2.3}_{-2.1} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+32}_{-33} \quad (-0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.004^{+0.019}_{-0.020} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.060}_{-0.059} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.016}_{-0.015} \quad (+0.0\sigma)$
r	$< 0.0832 \quad (-0.0\sigma)$	z_{re}	$< 9.91 \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.013} \quad (+0.0\sigma)$
y_{cal}	$1.0010^{+0.0064}_{-0.0064} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.109^{+0.097}_{-0.068} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.013} \quad (+0.0\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.029}_{-0.028} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011} \quad (+0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.96 \quad (+0.0\sigma)$	D_{40}	$1226^{+51}_{-51} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.011} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	$5716^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.010} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	D_{810}	$2537^{+36}_{-35} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	$815^{+13}_{-14} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0098} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.74} \quad (+0.0\sigma)$	D_{2000}	$229.7^{+5.0}_{-5.1} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0065}_{-0.0049} \quad (+0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.360 \quad (+0.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.980^{+0.060}_{-0.059} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3074^{+0.0071}_{-0.0053} \quad (+0.0\sigma)$
A_{100}^{PS}	$245^{+60}_{-70} \quad (-0.7\sigma)$	Y_{P}	$0.24535^{+0.00022}_{-0.00025} \quad (-0.0\sigma)$	$r_{0.002}$	$< 0.0814 \quad (-0.0\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-1.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24667^{+0.00022}_{-0.00025} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0814 \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.10} \quad (+0.0\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.8^{+1.7}_{-3.4} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.802^{+0.074}_{-0.076} \quad (-0.0\sigma)$	r_{10}	$< 0.0424 \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.71 \quad (-0.6\sigma)$	z_*	$1090.00^{+0.79}_{-0.82} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.176 \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.64^{+0.32}_{-0.32}$	r_*	$144.71^{+0.76}_{-0.76} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.156 \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+9}_{-9} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.075}_{-0.074} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.9^{+5.7}_{-5.5} \quad (-0.3\sigma)$
A^{kSZ}	—	z_{drag}	$1059.6^{+1.3}_{-1.2} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	r_{drag}	$147.41^{+0.88}_{-0.86} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.42 \quad (\nu: 0.2) \quad (+0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	k_{D}	$0.1404^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.8 \quad (\nu: 3.5) \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_{\mathrm{D}}$	$0.16096^{+0.00073}_{-0.00072} \quad (+0.0\sigma)$	χ_{small}^2	$397.5 \quad (\nu: 2.4) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{eq}	$3382^{+66}_{-65} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 2.0) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	k_{eq}	$0.01032^{+0.00020}_{-0.00020} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.1 \quad (\nu: 14.7)$
c_{217}	$1.0013^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.062 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$67.6^{+1.4}_{-1.3} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4513^{+0.0063}_{-0.0062} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.26 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{Λ}	$0.689^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.15)$	$72.8^{+1.2}_{-1.1} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.3) \quad (-0.0\sigma)$
Ω_{m}	$0.311^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+11}_{-12} \quad (-0.0\sigma)$	χ_{prior}^2	$9.3 \quad (\nu: 7.4) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1422^{+0.0027}_{-0.0027} \quad (+0.0\sigma)$	$H(0.38)$	$82.95^{+0.92}_{-0.83} \quad (+0.0\sigma)$	χ_{CMB}^2	$8234.0 \quad (\nu: 19.6) \quad (+997.6\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0960^{+0.0013}_{-0.0012} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+22}_{-24} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.3 \quad (\nu: 0.8) \quad (-0.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 8249.63; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.05; R - 1 = 0.00812$$

15.49 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022290	$0.02230^{+0.00043}_{-0.00041} \quad (-0.5\sigma)$	Ω_{m}	0.3158	$0.315^{+0.022}_{-0.022} \quad (-0.4\sigma)$	$H(0.15)$	72.60	$72.6^{+1.4}_{-1.3} \quad (+0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11998	$0.1198^{+0.0035}_{-0.0036} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}} h^2$	0.14292	$0.1428^{+0.0034}_{-0.0034} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	644.2	$644^{+13}_{-14} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	1.04085	$1.04085^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	$\Omega_{\mathrm{m}} h^3$	0.09614	$0.09613^{+0.00086}_{-0.00085} \quad (-1.0\sigma)$	$H(0.38)$	82.78	$82.8^{+1.0}_{-0.94} \quad (+0.2\sigma)$
τ	0.0542	$0.054^{+0.024}_{-0.021} \quad (-0.3\sigma)$	σ_8	0.8105	$0.810^{+0.020}_{-0.020} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	1535.2	$1534^{+27}_{-27} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0437	$3.043^{+0.048}_{-0.044} \quad (-0.6\sigma)$	S_8	0.8316	$0.830^{+0.042}_{-0.042} \quad (-0.6\sigma)$	$H(0.51)$	89.55	$89.57^{+0.79}_{-0.73} \quad (+0.1\sigma)$
n_{s}	0.9649	$0.965^{+0.012}_{-0.012} \quad (+0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4555	$0.455^{+0.023}_{-0.023} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	1988.1	$1987^{+31}_{-32} \quad (-0.2\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	-0.0032	$-0.004^{+0.018}_{-0.018} \quad (+0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6076	$0.607^{+0.021}_{-0.022} \quad (-0.6\sigma)$	$H(0.61)$	95.20	$95.22^{+0.64}_{-0.59} \quad (-0.0\sigma)$
r	0.0243	$< 0.0936 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9882	$0.987^{+0.031}_{-0.031} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	2312.9	$2312^{+33}_{-34} \quad (-0.2\sigma)$
y_{cal}	1.0007	$1.0007^{+0.0064}_{-0.0063} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	99.01	$99.1^{+2.8}_{-2.7} \quad (+0.4\sigma)$	$H(2.33)$	236.46	$236.4^{+2.2}_{-2.2} \quad (-0.7\sigma)$
$A_{B,\mathrm{dust}}$	4.60	$4.9^{+3.2}_{-2.2} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.438	$2.434^{+0.075}_{-0.075} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	5768.0	$5767^{+28}_{-29} \quad (+0.2\sigma)$
$A_{B,\mathrm{sync}}$	1.38	$< 4.95 \quad (-0.0\sigma)$	z_{re}	7.69	$7.7^{+2.2}_{-2.3} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	0.4597	$0.459^{+0.021}_{-0.022} \quad (-0.6\sigma)$
$\alpha_{B,\mathrm{dust}}$	-0.52	—	$10^9 A_{\mathrm{s}}$	2.098	$2.10^{+0.10}_{-0.090} \quad (-0.6\sigma)$	$\sigma_8(0.15)$	0.7485	$0.748^{+0.018}_{-0.017} \quad (-0.6\sigma)$
$\beta_{B,\mathrm{dust}}$	1.584	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8826	$1.882^{+0.032}_{-0.031} \quad (-0.7\sigma)$	$f\sigma_8(0.38)$	0.4771	$0.476^{+0.017}_{-0.018} \quad (-0.6\sigma)$
$\alpha_{B,\mathrm{sync}}$	-0.42	—	D_{40}	1229.4	$1230^{+50}_{-48} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	0.6630	$0.663^{+0.015}_{-0.015} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.73} \quad (-0.0\sigma)$	D_{220}	5717	$5715^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4752	$0.474^{+0.015}_{-0.016} \quad (-0.6\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.37	$< 0.341 \quad (-0.0\sigma)$	D_{810}	2537.8	$2537^{+35}_{-34} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	0.6203	$0.620^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{100}^{PS}	237	$242^{+60}_{-70} \quad (-0.8\sigma)$	D_{1420}	815.6	$815^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	0.4699	$0.469^{+0.014}_{-0.014} \quad (-0.6\sigma)$
A_{143}^{PS}	40.4	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	230.00	$229.9^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	0.5901	$0.590^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{PS}	100.9	$102^{+30}_{-40} \quad (-1.3\sigma)$	$n_{\mathrm{s},0.002}$	0.975	$0.977^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	0.2974	$0.2972^{+0.0069}_{-0.0064} \quad (-0.4\sigma)$
A_{217}^{CIB}	45.6	$40^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	0.245363	$0.24536^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	0.3064	$0.3063^{+0.0074}_{-0.0067} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.54	$< 8.72 \quad (-0.7\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246689	$0.24669^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$r_{0.002}$	0.0222	$< 0.0907 \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.578	$0.65^{+0.31}_{-0.33}$	$10^5 \mathrm{D}/\mathrm{H}$	2.601	$2.599^{+0.079}_{-0.077} \quad (+0.6\sigma)$	$r_{0.01}$	0.0231	$< 0.0912 \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.79	—	Age/Gyr	13.808	$13.806^{+0.063}_{-0.064} \quad (+0.2\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	-0.68	$-0.6^{+1.6}_{-3.3} \quad (+0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.05	—	z_{*}	1090.02	$1090.00^{+0.73}_{-0.74} \quad (+0.1\sigma)$	r_{10}	0.0114	$< 0.0472 \quad (+0.2\sigma)$
A^{kSZ}	0.1	—	r_{*}	144.50	$144.53^{+0.83}_{-0.83} \quad (+0.8\sigma)$	$10^9 A_{\mathrm{t}}$	0.051	$< 0.196 \quad (+0.2\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	$100\theta_{*}$	1.04104	$1.04104^{+0.00078}_{-0.00077} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	0.046	$< 0.176 \quad (+0.2\sigma)$
A_{143}^{dust}	0.974	$0.96^{+0.45}_{-0.46}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.880	$13.883^{+0.077}_{-0.078} \quad (+0.8\sigma)$	f_{2000}^{143}	30.8	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	0.966	$0.97^{+0.26}_{-0.26}$	z_{drag}	1059.74	$1059.76^{+0.90}_{-0.89} \quad (-0.8\sigma)$	f_{2000}^{217}	107.4	$107.4^{+5.6}_{-5.5} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.000	$1.03^{+0.41}_{-0.41}$	r_{drag}	147.19	$147.21^{+0.84}_{-0.85} \quad (+0.9\sigma)$	$f_{2000}^{143 \times 217}$	32.7	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	0.99764	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	0.14071	$0.14068^{+0.00099}_{-0.00097} \quad (-1.1\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.3	$740.0 \quad (\nu: 3.8) \quad (+0.2\sigma)$
c_{217}	1.00138	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	$100\theta_{\mathrm{D}}$	0.16086	$0.16085^{+0.00053}_{-0.00052} \quad (+0.7\sigma)$	χ_{small}^2	396.13	$397.2 \quad (\nu: 1.8) \quad (-0.2\sigma)$
c_{TE}	0.9962	$0.996^{+0.013}_{-0.013}$	z_{eq}	3400	$3397^{+81}_{-82} \quad (-0.6\sigma)$	χ_{lowl}^2	23.09	$23.5 \quad (\nu: 1.9) \quad (+0.4\sigma)$
c_{EE}	0.9919	$0.992^{+0.013}_{-0.013}$	k_{eq}	0.010377	$0.01037^{+0.00025}_{-0.00025} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.2	$11514.7 \quad (\nu: 17.3)$
H_0	67.27	$67.3^{+1.6}_{-1.5} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8134	$0.814^{+0.016}_{-0.015} \quad (+0.6\sigma)$	χ_{prior}^2	2.4	$9.5 \quad (\nu: 7.2) \quad (-0.8\sigma)$
Ω_{Λ}	0.6842	$0.685^{+0.022}_{-0.022} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s},\mathrm{eq}}$	0.4495	$0.4498^{+0.0080}_{-0.0076} \quad (+0.6\sigma)$	χ_{CMB}^2	12653.8	$12675.4 \quad (\nu: 21.3) \quad (+1378.2\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 12656.13$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.30$; $\bar{\chi}_{\mathrm{eff}}^2 = 12684.91$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.07$; $R - 1 = 0.00385$
 χ_{eff}^2 : CMB - BK15_dust: 735.31 (Δ 0.24) simall_100x143_offlike5_EE_Aplanck_B: 396.13 (Δ -0.23) commander_dx12_v3_2_29: 23.09 (Δ 0.66) CamSpec like_10.7HM_1400_unified: 11499.22

15.50 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022346	$0.02234^{+0.00039}_{-0.00039} \quad (-0.8\sigma)$	$\Omega_{\mathrm{m}} h^3$	0.09617	$0.09612^{+0.00085}_{-0.00086} \quad (-1.0\sigma)$	$H(0.51)$	89.72	$89.73^{+0.59}_{-0.59} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11919	$0.1191^{+0.0027}_{-0.0026} \quad (-0.5\sigma)$	σ_8	0.8078	$0.808^{+0.020}_{-0.019} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	1980.7	$1980^{+23}_{-23} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	1.04099	$1.04094^{+0.00074}_{-0.00075} \quad (-0.2\sigma)$	S_8	0.8221	$0.821^{+0.033}_{-0.033} \quad (-0.5\sigma)$	$H(0.61)$	95.338	$95.34^{+0.50}_{-0.49} \quad (-0.3\sigma)$
τ	0.0546	$0.055^{+0.023}_{-0.021} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4503	$0.450^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	2304.9	$2304^{+25}_{-25} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0419	$3.043^{+0.049}_{-0.043} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6031	$0.603^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(2.33)$	236.01	$235.9^{+1.7}_{-1.6} \quad (-0.7\sigma)$
n_{s}	0.9669	$0.967^{+0.011}_{-0.011} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	0.9822	$0.982^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	5762.0	$5762^{+24}_{-24} \quad (+0.5\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	-0.0028	$-0.003^{+0.018}_{-0.018} \quad (+0.6\sigma)$	$r_{\mathrm{drag}} h$	99.65	$99.7^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$f\sigma_8(0.15)$	0.4549	$0.455^{+0.017}_{-0.017} \quad (-0.5\sigma)$
r	0.0247	$< 0.0950 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.424	$2.423^{+0.069}_{-0.066} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7465	$0.747^{+0.018}_{-0.017} \quad (-0.5\sigma)$
y_{cal}	1.0005	$1.0007^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	7.70	$7.7^{+2.2}_{-2.2} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4734	$0.473^{+0.015}_{-0.015} \quad (-0.5\sigma)$
$A_{B,\mathrm{dust}}$	4.62	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	2.095	$2.10^{+0.10}_{-0.089} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	0.6618	$0.662^{+0.016}_{-0.014} \quad (-0.5\sigma)$
$A_{B,\mathrm{sync}}$	1.37	$< 5.01 \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8780	$1.878^{+0.029}_{-0.029} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	0.4721	$0.472^{+0.014}_{-0.014} \quad (-0.6\sigma)$
$\alpha_{B,\mathrm{dust}}$	-0.50	—	D_{40}	1225.4	$1228^{+49}_{-47} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6193	$0.619^{+0.015}_{-0.013} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{dust}}$	1.583	$1.60^{+0.25}_{-0.26} \quad (+0.0\sigma)$	D_{220}	5717	$5719^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4672	$0.467^{+0.013}_{-0.013} \quad (-0.6\sigma)$
$\alpha_{B,\mathrm{sync}}$	-0.48	—	D_{810}	2535.9	$2536^{+35}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5893	$0.589^{+0.014}_{-0.013} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{sync}}$	-3.05	$-3.10^{+0.67}_{-0.73} \quad (+0.0\sigma)$	D_{1420}	815.8	$816^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2972	$0.2973^{+0.0070}_{-0.0064} \quad (-0.5\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.38	$< 0.338 \quad (-0.0\sigma)$	D_{2000}	230.16	$230.1^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	0.3064	$0.3065^{+0.0074}_{-0.0066} \quad (-0.4\sigma)$
A_{100}^{PS}	236	$241^{+60}_{-60} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	0.976	$0.978^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$r_{0.002}$	0.0228	$< 0.0929 \quad (+0.2\sigma)$
A_{143}^{PS}	40.8	$40^{+20}_{-20} \quad (-0.9\sigma)$	Y_{P}	0.245386	$0.24538^{+0.00015}_{-0.00017} \quad (-0.8\sigma)$	$r_{0.01}$	0.0236	$< 0.0928 \quad (+0.2\sigma)$
A_{217}^{PS}	101.3	$102^{+30}_{-40} \quad (-1.3\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246712	$0.24671^{+0.00015}_{-0.00017} \quad (-0.8\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	-0.66	$-0.6^{+1.5}_{-3.3} \quad (+0.1\sigma)$
A_{217}^{CIB}	44.9	$40^{+20}_{-20} \quad (-1.1\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	2.590	$2.591^{+0.075}_{-0.070} \quad (+0.8\sigma)$	r_{10}	0.0117	$< 0.0482 \quad (+0.1\sigma)$
A_{143}^{tSZ}	6.46	$< 8.76 \quad (-0.7\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	13.795	$13.795^{+0.054}_{-0.054} \quad (+0.5\sigma)$	$10^9 A_{\mathrm{t}}$	0.052	$< 0.200 \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.592	$0.65^{+0.32}_{-0.34}$	z_{*}	1089.88	$1089.87^{+0.61}_{-0.60} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	0.046	$< 0.179 \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.80	—	r_{*}	144.66	$144.70^{+0.64}_{-0.66} \quad (+0.8\sigma)$	f_{2000}^{143}	30.6	$30^{+8}_{-8} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.12	—	$100\theta_{*}$	1.04117	$1.04113^{+0.00074}_{-0.00074} \quad (-0.1\sigma)$	f_{2000}^{217}	107.2	$107.2^{+5.6}_{-5.5} \quad (-0.3\sigma)$
A^{kSZ}	0.3	—	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.894	$13.898^{+0.062}_{-0.063} \quad (+0.9\sigma)$	$f_{2000}^{143 \times 217}$	32.5	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.52}_{-0.50}$	z_{drag}	1059.82	$1059.81^{+0.85}_{-0.86} \quad (-0.9\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.7	$740.2 \quad (\nu: 3.7) \quad (+0.2\sigma)$
A_{143}^{dust}	0.977	$0.96^{+0.45}_{-0.46}$	r_{drag}	147.33	$147.37^{+0.68}_{-0.70} \quad (+1.0\sigma)$	χ_{small}^2	396.1	$397.3 \quad (\nu: 2.0) \quad (-0.2\sigma)$
A_{217}^{dust}	0.968	$0.97^{+0.26}_{-0.26}$	k_{D}	0.14059	$0.14055^{+0.00089}_{-0.00088} \quad (-1.1\sigma)$	χ_{lowl}^2	22.83	$23.3 \quad (\nu: 1.8) \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	0.998	$1.02^{+0.41}_{-0.42}$	$100\theta_{\mathrm{D}}$	0.16083	$0.16083^{+0.00051}_{-0.00051} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11514.5 \quad (\nu: 16.9)$
c_{100}	0.99760	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	3382	$3379^{+61}_{-60} \quad (-0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	0.029	$0.050 \quad (\nu: 0.0) \quad (-0.2\sigma)$
c_{217}	1.00137	$1.0012^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	k_{eq}	0.010323	$0.01031^{+0.00019}_{-0.00018} \quad (-0.6\sigma)$	χ_{MGS}^2	1.22	$1.32 \quad (\nu: 0.1) \quad (+0.3\sigma)$
c_{TE}	0.9965	$0.996^{+0.013}_{-0.013}$	$100\theta_{\mathrm{eq}}$	0.8168	$0.817^{+0.011}_{-0.011} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	4.40	$4.7 \quad (\nu: 0.9) \quad (-0.3\sigma)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	0.4513	$0.4516^{+0.0058}_{-0.0058} \quad (+0.5\sigma)$	χ_{prior}^2	2.4	$9.5 \quad (\nu: 7.2) \quad (-0.8\sigma)$
H_0	67.64	$67.7^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$H(0.15)$	72.91	$72.94^{+0.99}_{-0.99} \quad (+0.1\sigma)$	χ_{BAO}^2	5.64	$6.1 \quad (\nu: 0.6) \quad (-0.3\sigma)$
Ω_{Λ}	0.6892	$0.690^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	641.0	$641^{+10}_{-9.6} \quad (-0.1\sigma)$	χ_{CMB}^2	12654.2	$12675.4 \quad (\nu: 20.8) \quad (+1380.8\sigma)$
Ω_{m}	0.3108	$0.310^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	83.01	$83.03^{+0.73}_{-0.73} \quad (-0.0\sigma)$			
$\Omega_{\mathrm{m}} h^2$	0.14218	$0.1420^{+0.0026}_{-0.0025} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	1528.9	$1528^{+20}_{-20} \quad (-0.1\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12662.16$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.77$; $\bar{\chi}_{\mathrm{eff}}^2 = 12690.95$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.56$; $R - 1 = 0.00720$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ -0.02) MGS: 1.22 (Δ 0.12) DR12BAO: 4.40 (Δ -0.48) CMB - BK15_dust: 735.68 (Δ 0.39) small_100x143_offlike5_EE_Aplanck_B: 396.13 (Δ -0.64) commander_dx12_v3.2_29: 22.83 (Δ 0.43) CamSpec like_10.7HM_1400_unified: 11499.52

15.51 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022287	$0.02230^{+0.00042}_{-0.00041}$ (-0.6σ)	$\Omega_{\mathrm{m}}h^2$	0.14282	$0.1428^{+0.0030}_{-0.0030}$ (-0.4σ)	$H(0.38)$	82.80	$82.83^{+0.90}_{-0.86}$ (-0.1σ)
$\Omega_{\mathrm{c}}h^2$	0.11988	$0.1198^{+0.0031}_{-0.0031}$ (-0.3σ)	$\Omega_{\mathrm{m}}h^3$	0.09611	$0.09613^{+0.00085}_{-0.00085}$ (-0.9σ)	$D_{\mathrm{M}}(0.38)$	1534.8	1534^{+24}_{-24} (-0.0σ)
$100\theta_{\mathrm{MC}}$	1.04084	$1.04085^{+0.00077}_{-0.00077}$ (-0.2σ)	σ_8	0.8099	$0.810^{+0.016}_{-0.015}$ (-0.4σ)	$H(0.51)$	89.55	$89.58^{+0.72}_{-0.68}$ (-0.1σ)
τ	0.0536	$0.055^{+0.022}_{-0.019}$ (-0.2σ)	S_8	0.8303	$0.830^{+0.033}_{-0.033}$ (-0.3σ)	$D_{\mathrm{M}}(0.51)$	1987.5	1987^{+28}_{-28} (-0.0σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0420	$3.044^{+0.042}_{-0.038}$ (-0.4σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4548	$0.455^{+0.018}_{-0.018}$ (-0.3σ)	$H(0.61)$	95.20	$95.22^{+0.59}_{-0.56}$ (-0.3σ)
n_{s}	0.9652	$0.965^{+0.012}_{-0.012}$ $(+0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6069	$0.607^{+0.016}_{-0.016}$ (-0.4σ)	$D_{\mathrm{M}}(0.61)$	2312.3	2311^{+30}_{-30} $(+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	-0.0018	$-0.003^{+0.017}_{-0.018}$ $(+0.5\sigma)$	$\sigma_8/h^{0.5}$	0.9872	$0.987^{+0.023}_{-0.023}$ (-0.3σ)	$H(2.33)$	236.39	$236.4^{+1.9}_{-1.9}$ (-0.5σ)
r	0.0215	< 0.0917 $(+0.2\sigma)$	$r_{\mathrm{drag}}h$	99.07	$99.1^{+2.5}_{-2.4}$ $(+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5768.0	5767^{+27}_{-27} $(+0.4\sigma)$
y_{cal}	1.0008	$1.0007^{+0.0064}_{-0.0062}$ (-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.437	$2.436^{+0.060}_{-0.060}$ (-0.2σ)	$f\sigma_8(0.15)$	0.4591	$0.459^{+0.017}_{-0.017}$ (-0.3σ)
$A_{B,\mathrm{dust}}$	4.62	$4.9^{+3.1}_{-2.2}$ $(+0.0\sigma)$	z_{re}	7.62	$7.7^{+2.0}_{-2.1}$ (-0.2σ)	$\sigma_8(0.15)$	0.7480	$0.748^{+0.014}_{-0.014}$ (-0.4σ)
$A_{B,\mathrm{sync}}$	1.42	< 4.99 $(+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	2.095	$2.099^{+0.089}_{-0.079}$ (-0.4σ)	$f\sigma_8(0.38)$	0.4765	$0.476^{+0.013}_{-0.014}$ (-0.4σ)
$\alpha_{B,\mathrm{dust}}$	-0.51	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8820	$1.882^{+0.029}_{-0.028}$ (-0.5σ)	$\sigma_8(0.38)$	0.6626	$0.663^{+0.013}_{-0.012}$ (-0.3σ)
$\beta_{B,\mathrm{dust}}$	1.583	$1.60^{+0.25}_{-0.26}$ $(+0.0\sigma)$	D_{40}	1231.2	1233^{+49}_{-47} $(+0.3\sigma)$	$f\sigma_8(0.51)$	0.4747	$0.475^{+0.012}_{-0.012}$ (-0.4σ)
$\alpha_{B,\mathrm{sync}}$	-0.38	—	D_{220}	5720	5718^{+100}_{-98} (-0.3σ)	$\sigma_8(0.51)$	0.6199	$0.620^{+0.012}_{-0.011}$ (-0.3σ)
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.72}$ (-0.0σ)	D_{810}	2537.8	2537^{+35}_{-33} (-0.4σ)	$f\sigma_8(0.61)$	0.4694	$0.469^{+0.011}_{-0.011}$ (-0.4σ)
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.36	< 0.333 (-0.0σ)	D_{1420}	816.0	815^{+13}_{-13} (-0.1σ)	$\sigma_8(0.61)$	0.5898	$0.590^{+0.012}_{-0.011}$ (-0.3σ)
A_{100}^{PS}	237	242^{+60}_{-60} (-0.8σ)	D_{2000}	230.20	$230.0^{+4.9}_{-4.7}$ (-0.1σ)	$f\sigma_8(2.33)$	0.2972	$0.2974^{+0.0062}_{-0.0057}$ (-0.3σ)
A_{143}^{PS}	42.9	40^{+20}_{-20} (-1.0σ)	$n_{\mathrm{s},0.002}$	0.971	$0.975^{+0.055}_{-0.053}$ (-0.5σ)	$\sigma_8(2.33)$	0.3063	$0.3065^{+0.0068}_{-0.0061}$ (-0.2σ)
A_{217}^{PS}	102.2	102^{+30}_{-40} (-1.2σ)	Y_{P}	0.245362	$0.24536^{+0.00016}_{-0.00018}$ (-0.7σ)	$r_{0.002}$	0.0196	< 0.0884 $(+0.1\sigma)$
A_{217}^{CIB}	43.6	40^{+20}_{-20} (-1.1σ)	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246688	$0.24669^{+0.00016}_{-0.00018}$ (-0.7σ)	$r_{0.01}$	0.0205	< 0.0895 $(+0.1\sigma)$
A_{143}^{tSZ}	5.77	< 8.74 (-0.7σ)	$10^5 \mathrm{D}/\mathrm{H}$	2.601	$2.599^{+0.079}_{-0.075}$ $(+0.7\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	-0.80	$-0.7^{+1.6}_{-3.4}$ $(+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.630	$0.65^{+0.31}_{-0.33}$	Age/Gyr	13.808	$13.806^{+0.061}_{-0.062}$ $(+0.4\sigma)$	r_{10}	0.0100	< 0.0460 $(+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.77	—	z_*	1090.02	$1089.99^{+0.69}_{-0.69}$ $(+0.4\sigma)$	$10^9 A_{\mathrm{t}}$	0.045	< 0.193 $(+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.31	—	r_*	144.52	$144.53^{+0.73}_{-0.74}$ $(+0.6\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.040	< 0.173 $(+0.1\sigma)$
A^{kSZ}	1.3	—	$100\theta_*$	1.04103	$1.04104^{+0.00076}_{-0.00076}$ (-0.1σ)	f_{2000}^{143}	30.5	30^{+9}_{-8} $(+24.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.883	$13.884^{+0.069}_{-0.069}$ $(+0.7\sigma)$	f_{2000}^{217}	107.2	$107.3^{+5.6}_{-5.6}$ (-156.9σ)
A_{143}^{dust}	0.973	$0.96^{+0.45}_{-0.46}$	z_{drag}	1059.74	$1059.76^{+0.90}_{-0.89}$ (-0.8σ)	$f_{2000}^{143 \times 217}$	32.5	33^{+6}_{-6} (-267.2σ)
A_{217}^{dust}	0.970	$0.97^{+0.26}_{-0.26}$	r_{drag}	147.21	$147.22^{+0.76}_{-0.76}$ $(+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.90	9.39 $(\nu: 0.2)$ (-7.8σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.02^{+0.41}_{-0.42}$	k_{D}	0.14067	$0.14068^{+0.00092}_{-0.00091}$ (-0.9σ)	$\chi_{\mathrm{BKPLANCK}}^2$	735.4	739.9 $(\nu: 3.7)$ (-277.6σ)
c_{100}	0.99766	$0.9975^{+0.0027}_{-0.0027}$ (-3.5σ)	$100\theta_{\mathrm{D}}$	0.16086	$0.16085^{+0.00053}_{-0.00051}$ $(+0.8\sigma)$	χ_{small}^2	396.03	397.2 $(\nu: 1.5)$ $(+79.2\sigma)$
c_{217}	1.00131	$1.0012^{+0.0041}_{-0.0041}$ $(+4.8\sigma)$	z_{eq}	3397	3396^{+71}_{-71} (-0.4σ)	χ_{lowl}^2	23.34	23.7 $(\nu: 2.0)$ (-2.3σ)
c_{TE}	0.9964	$0.996^{+0.013}_{-0.013}$	k_{eq}	0.010369	$0.01037^{+0.00022}_{-0.00022}$ (-0.4σ)	$\chi_{\mathrm{CamSpec}}^2$	11499.2	11514.2 $(\nu: 16.4)$
c_{EE}	0.9920	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{eq}}$	0.8139	$0.814^{+0.014}_{-0.013}$ $(+0.3\sigma)$	χ_{prior}^2	2.3	9.5 $(\nu: 7.2)$ (-49.1σ)
H_0	67.30	$67.3^{+1.4}_{-1.4}$ $(+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4497	$0.4499^{+0.0070}_{-0.0068}$ $(+0.4\sigma)$	χ_{CMB}^2	12662.8	12684.4 $(\nu: 21.2)$ $(+1397.7\sigma)$
Ω_{Λ}	0.6847	$0.685^{+0.019}_{-0.020}$ $(+0.2\sigma)$	$H(0.15)$	72.62	$72.7^{+1.2}_{-1.2}$ $(+0.0\sigma)$			
Ω_{m}	0.3153	$0.315^{+0.020}_{-0.019}$ (-0.2σ)	$D_{\mathrm{M}}(0.15)$	643.9	644^{+12}_{-12} (-0.0σ)			

Best-fit $\chi_{\mathrm{eff}}^2 = 12665.09$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.07$; $\bar{\chi}_{\mathrm{eff}}^2 = 12693.83$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.85$; $R - 1 = 0.00535$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.90 (Δ -0.14) BK15_dust: 735.38 (Δ 0.11) small_100x143_offlike5_EE_Aplanck_B: 396.03 (Δ -0.17) com-
mander_dx12_v3_2_29: 23.34 (Δ 0.70) CamSpec like_10.7HM_1400_unified: 11499.17

15.52 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022335	$0.02234^{+0.00039}_{-0.00039} \quad (-0.8\sigma)$	$\Omega_{\mathrm{m}} h^3$	0.09612	$0.09613^{+0.00085}_{-0.00086} \quad (-0.9\sigma)$	$H(0.51)$	89.70	$89.71^{+0.58}_{-0.57} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11917	$0.1191^{+0.0025}_{-0.0024} \quad (-0.3\sigma)$	σ_8	0.8088	$0.809^{+0.016}_{-0.015} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	1981.2	$1981^{+22}_{-22} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	1.04092	$1.04093^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	S_8	0.8234	$0.824^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.61)$	95.317	$95.33^{+0.49}_{-0.48} \quad (-0.4\sigma)$
τ	0.0558	$0.056^{+0.021}_{-0.018} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4510	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	2305.5	$2305^{+24}_{-24} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0452	$3.046^{+0.042}_{-0.038} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6040	$0.604^{+0.015}_{-0.015} \quad (-0.4\sigma)$	$H(2.33)$	235.98	$236.0^{+1.5}_{-1.5} \quad (-0.5\sigma)$
n_{s}	0.9667	$0.967^{+0.010}_{-0.010} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9836	$0.984^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	5763.2	$5763^{+24}_{-24} \quad (+0.5\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d} \ln k$	-0.0031	$-0.003^{+0.017}_{-0.018} \quad (+0.6\sigma)$	$r_{\mathrm{drag}} h$	99.64	$99.7^{+1.9}_{-1.9} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	0.4556	$0.456^{+0.014}_{-0.014} \quad (-0.3\sigma)$
r	0.0248	$< 0.0926 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.428	$2.429^{+0.057}_{-0.056} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	0.7475	$0.748^{+0.015}_{-0.014} \quad (-0.4\sigma)$
y_{cal}	1.0008	$1.0009^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	z_{re}	7.83	$7.9^{+2.0}_{-1.9} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	0.4741	$0.474^{+0.012}_{-0.012} \quad (-0.4\sigma)$
$A_{B,\mathrm{dust}}$	4.62	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	2.102	$2.104^{+0.090}_{-0.078} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6626	$0.663^{+0.013}_{-0.012} \quad (-0.3\sigma)$
$A_{B,\mathrm{sync}}$	1.40	$< 5.01 \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8795	$1.879^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	0.4727	$0.473^{+0.011}_{-0.011} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{dust}}$	-0.52	—	D_{40}	1226.4	$1231^{+48}_{-47} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	0.6201	$0.621^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{dust}}$	1.584	$1.60^{+0.25}_{-0.26} \quad (+0.0\sigma)$	D_{220}	5722	$5723^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4678	$0.468^{+0.010}_{-0.010} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{sync}}$	-0.35	—	D_{810}	2537.6	$2538^{+35}_{-33} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5901	$0.590^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.73} \quad (-0.0\sigma)$	D_{1420}	816.1	$816^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	0.2976	$0.2977^{+0.0061}_{-0.0056} \quad (-0.3\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.37	$< 0.331 \quad (-0.0\sigma)$	D_{2000}	230.19	$230.3^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	0.3068	$0.3070^{+0.0065}_{-0.0059} \quad (-0.3\sigma)$
A_{100}^{PS}	236	$241^{+60}_{-70} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	0.977	$0.976^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$r_{0.002}$	0.0229	$< 0.0897 \quad (+0.1\sigma)$
A_{143}^{PS}	39.2	$40^{+20}_{-20} \quad (-0.9\sigma)$	Y_{P}	0.245382	$0.24538^{+0.00015}_{-0.00017} \quad (-0.8\sigma)$	$r_{0.01}$	0.0238	$< 0.0903 \quad (+0.1\sigma)$
A_{217}^{PS}	101.7	$102^{+30}_{-40} \quad (-1.2\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246708	$0.24671^{+0.00015}_{-0.00017} \quad (-0.8\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	-0.65	$-0.6^{+1.6}_{-3.4} \quad (+0.1\sigma)$
A_{217}^{CIB}	45.2	$40^{+20}_{-20} \quad (-1.1\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	2.592	$2.591^{+0.074}_{-0.070} \quad (+0.8\sigma)$	r_{10}	0.0117	$< 0.0468 \quad (+0.1\sigma)$
A_{143}^{tSZ}	6.65	$< 8.74 \quad (-0.7\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	13.797	$13.796^{+0.054}_{-0.054} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}}$	0.052	$< 0.195 \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.577	$0.65^{+0.31}_{-0.34}$	z_{*}	1089.89	$1089.88^{+0.60}_{-0.60} \quad (+0.5\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	0.047	$< 0.174 \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.77	—	r_{*}	144.67	$144.67^{+0.61}_{-0.61} \quad (+0.7\sigma)$	f_{2000}^{143}	30.5	$30^{+8}_{-8} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.02	—	$100\theta_{*}$	1.04111	$1.04112^{+0.00072}_{-0.00074} \quad (-0.2\sigma)$	f_{2000}^{217}	107.2	$107.1^{+5.6}_{-5.5} \quad (-0.3\sigma)$
A^{kSZ}	0.0	—	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.896	$13.896^{+0.058}_{-0.058} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.5	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.52}_{-0.50}$	z_{drag}	1059.78	$1059.81^{+0.85}_{-0.87} \quad (-0.9\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.97	$9.34 \quad (\nu: 0.2) \quad (+0.0\sigma)$
A_{143}^{dust}	0.967	$0.96^{+0.45}_{-0.46}$	r_{drag}	147.35	$147.35^{+0.65}_{-0.66} \quad (+0.8\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.6	$740.1 \quad (\nu: 3.6) \quad (+0.1\sigma)$
A_{217}^{dust}	0.967	$0.97^{+0.26}_{-0.26}$	k_{D}	0.14057	$0.14057^{+0.00086}_{-0.00085} \quad (-1.0\sigma)$	χ_{simall}^2	396.36	$397.4 \quad (\nu: 1.9) \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.02^{+0.41}_{-0.42}$	$100\theta_{\mathrm{D}}$	0.16083	$0.16083^{+0.00051}_{-0.00050} \quad (+0.8\sigma)$	χ_{lowl}^2	22.82	$23.5 \quad (\nu: 1.9) \quad (+0.5\sigma)$
c_{100}	0.99771	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{eq}	3382	$3381^{+57}_{-56} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11514.0 \quad (\nu: 16.3)$
c_{217}	1.00132	$1.0012^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	k_{eq}	0.010321	$0.01032^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{6DF}^2	0.030	$0.051 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{TE}	0.9964	$0.996^{+0.012}_{-0.013}$	$100\theta_{\mathrm{eq}}$	0.8169	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{MGS}^2	1.22	$1.27 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	0.9925	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	0.4513	$0.4513^{+0.0054}_{-0.0054} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	4.43	$4.8 \quad (\nu: 0.9) \quad (-0.2\sigma)$
H_0	67.62	$67.6^{+1.1}_{-1.1} \quad (-0.0\sigma)$	$H(0.15)$	72.89	$72.91^{+0.94}_{-0.94} \quad (-0.1\sigma)$	χ_{prior}^2	2.2	$9.4 \quad (\nu: 7.3) \quad (-0.8\sigma)$
Ω_{Λ}	0.6891	$0.689^{+0.014}_{-0.015} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	641.2	$641.1^{+9.4}_{-9.2} \quad (+0.0\sigma)$	χ_{CMB}^2	12663.2	$12684.4 \quad (\nu: 20.9) \quad (+1419.5\sigma)$
Ω_{m}	0.3109	$0.311^{+0.015}_{-0.014} \quad (-0.1\sigma)$	$H(0.38)$	82.99	$83.01^{+0.71}_{-0.69} \quad (-0.2\sigma)$	χ_{BAO}^2	5.68	$6.1 \quad (\nu: 0.5) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.14215	$0.1421^{+0.0024}_{-0.0023} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	1529.3	$1529^{+19}_{-19} \quad (+0.1\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12671.14$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.82$; $\bar{\chi}_{\mathrm{eff}}^2 = 12699.90$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.61$; $R - 1 = 0.00769$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ 0.00) MGS: 1.22 (Δ 0.00) DR12BAO: 4.43 (Δ 0.00) CMB - smicadx12_Dec5.ftl_mv2.ndclpp_p.teb_consext8: 8.96 (Δ 0.13) BK15_dust: 735.57 (Δ 0.11) simall_100x143_offlike5_EE_Aplanck_B: 396.36 (Δ -0.43) commander_dx12.v3.2_29: 22.82 (Δ 0.19) CamSpec like_10.7HM_1400_unified: 11499.49

15.53 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02230^{+0.00042}_{-0.00041} \quad (-0.5\sigma)$	Ω_m	$0.315^{+0.022}_{-0.022} \quad (-0.4\sigma)$	$H(0.15)$	$72.7^{+1.4}_{-1.3} \quad (+0.3\sigma)$
$\Omega_c h^2$	$0.1198^{+0.0035}_{-0.0036} \quad (-0.5\sigma)$	$\Omega_m h^2$	$0.1428^{+0.0034}_{-0.0034} \quad (-0.6\sigma)$	$D_M(0.15)$	$644^{+13}_{-14} \quad (-0.3\sigma)$
$100\theta_{MC}$	$1.04085^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	$\Omega_m h^3$	$0.09614^{+0.00086}_{-0.00085} \quad (-0.9\sigma)$	$H(0.38)$	$82.8^{+1.0}_{-0.93} \quad (+0.2\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.3\sigma)$	σ_8	$0.811^{+0.019}_{-0.017} \quad (-0.6\sigma)$	$D_M(0.38)$	$1534^{+26}_{-27} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.045^{+0.047}_{-0.032} \quad (-0.6\sigma)$	S_8	$0.830^{+0.042}_{-0.042} \quad (-0.6\sigma)$	$H(0.51)$	$89.58^{+0.79}_{-0.73} \quad (+0.1\sigma)$
n_s	$0.965^{+0.012}_{-0.012} \quad (+0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.023}_{-0.023} \quad (-0.6\sigma)$	$D_M(0.51)$	$1987^{+31}_{-32} \quad (-0.3\sigma)$
$dn_s/d \ln k$	$-0.004^{+0.018}_{-0.018} \quad (+0.6\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.021}_{-0.021} \quad (-0.6\sigma)$	$H(0.61)$	$95.23^{+0.64}_{-0.59} \quad (-0.0\sigma)$
r	$< 0.0934 \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.030}_{-0.030} \quad (-0.6\sigma)$	$D_M(0.61)$	$2311^{+33}_{-34} \quad (-0.2\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0063} \quad (-0.1\sigma)$	$r_{drag} h$	$99.1^{+2.8}_{-2.7} \quad (+0.4\sigma)$	$H(2.33)$	$236.4^{+2.2}_{-2.2} \quad (-0.7\sigma)$
$A_{B,dust}$	$4.9^{+3.2}_{-2.2} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.074}_{-0.073} \quad (-0.4\sigma)$	$D_M(2.33)$	$5767^{+28}_{-29} \quad (+0.2\sigma)$
$A_{B,sync}$	$< 4.95 \quad (-0.0\sigma)$	z_{re}	$< 9.66 \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.021}_{-0.021} \quad (-0.6\sigma)$
$\alpha_{B,dust}$	—	$10^9 A_s$	$2.10^{+0.10}_{-0.066} \quad (-0.6\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.015} \quad (-0.6\sigma)$
$\beta_{B,dust}$	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.882^{+0.032}_{-0.031} \quad (-0.7\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.017}_{-0.017} \quad (-0.6\sigma)$
$\alpha_{B,sync}$	—	D_{40}	$1230^{+50}_{-47} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.012} \quad (-0.5\sigma)$
$\beta_{B,sync}$	$-3.10^{+0.67}_{-0.74} \quad (-0.0\sigma)$	D_{220}	$5715^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.015}_{-0.015} \quad (-0.6\sigma)$
$\epsilon_{dust,sync}$	$< 0.340 \quad (-0.0\sigma)$	D_{810}	$2537^{+35}_{-34} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011} \quad (-0.5\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.8\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.014}_{-0.014} \quad (-0.6\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0098} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	$n_{s,0.002}$	$0.978^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0067}_{-0.0047} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	Y_P	$0.24537^{+0.00016}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0071}_{-0.0049} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.72 \quad (-0.7\sigma)$	Y_P^{BBN}	$0.24669^{+0.00016}_{-0.00018} \quad (-0.5\sigma)$	$r_{0.002}$	$< 0.0907 \quad (+0.2\sigma)$
$r_{143 \times 217}^{PS}$	$0.65^{+0.32}_{-0.33}$	$10^5 D/H$	$2.599^{+0.079}_{-0.077} \quad (+0.5\sigma)$	$r_{0.01}$	$< 0.0911 \quad (+0.2\sigma)$
$r_{143 \times 217}^{CIB}$	—	Age/Gyr	$13.805^{+0.062}_{-0.064} \quad (+0.2\sigma)$	$\ln(10^{10} A_t)$	$-0.6^{+1.6}_{-3.3} \quad (+0.2\sigma)$
$\xi^{tSZ \times CIB}$	—	z_*	$1089.99^{+0.72}_{-0.74} \quad (+0.1\sigma)$	r_{10}	$< 0.0472 \quad (+0.2\sigma)$
A^{kSZ}	—	r_*	$144.53^{+0.83}_{-0.83} \quad (+0.8\sigma)$	$10^9 A_t$	$< 0.196 \quad (+0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$100\theta_*$	$1.04104^{+0.00078}_{-0.00078} \quad (-0.0\sigma)$	$10^9 A_t e^{-2\tau}$	$< 0.176 \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	$D_M(z_*)/\text{Gpc}$	$13.883^{+0.077}_{-0.078} \quad (+0.8\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	z_{drag}	$1059.77^{+0.89}_{-0.87} \quad (-0.8\sigma)$	f_{2000}^{217}	$107.4^{+5.5}_{-5.5} \quad (-0.4\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.41}_{-0.41}$	r_{drag}	$147.21^{+0.84}_{-0.85} \quad (+0.9\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	k_D	$0.14069^{+0.00099}_{-0.00097} \quad (-1.1\sigma)$	$\chi_{BKPLANCK}^2$	$739.9 \quad (\nu: 3.8) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	$100\theta_D$	$0.16085^{+0.00052}_{-0.00052} \quad (+0.7\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.8) \quad (-0.2\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{eq}	$3396^{+81}_{-82} \quad (-0.6\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 1.9) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{eq}	$0.01037^{+0.00025}_{-0.00025} \quad (-0.6\sigma)$	$\chi_{CamSpec}^2$	$11514.6 \quad (\nu: 17.2)$
H_0	$67.3^{+1.6}_{-1.5} \quad (+0.3\sigma)$	$100\theta_{eq}$	$0.814^{+0.016}_{-0.015} \quad (+0.6\sigma)$	χ_{prior}^2	$9.5 \quad (\nu: 7.2) \quad (-0.8\sigma)$
Ω_Λ	$0.685^{+0.022}_{-0.022} \quad (+0.4\sigma)$	$100\theta_{s,eq}$	$0.4499^{+0.0080}_{-0.0077} \quad (+0.6\sigma)$	χ_{CMB}^2	$12675.2 \quad (\nu: 20.9) \quad (+1391.4\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 12684.69; \Delta\bar{\chi}_{\text{eff}}^2 = 9151.04; R - 1 = 0.00378$$

15.54 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09613^{+0.00085}_{-0.00086} \quad (-1.0\sigma)$	$H(0.51)$	$89.74^{+0.59}_{-0.59} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1190^{+0.0027}_{-0.0026} \quad (-0.5\sigma)$	σ_8	$0.808^{+0.019}_{-0.016} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+23}_{-23} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00074}_{-0.00075} \quad (-0.2\sigma)$	S_8	$0.822^{+0.033}_{-0.032} \quad (-0.5\sigma)$	$H(0.61)$	$95.34^{+0.49}_{-0.49} \quad (-0.3\sigma)$
τ	$0.056^{+0.021}_{-0.014} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+25}_{-25} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.047}_{-0.032} \quad (-0.6\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$H(2.33)$	$235.9^{+1.7}_{-1.6} \quad (-0.7\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.027}_{-0.025} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+24}_{-24} \quad (+0.5\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.003^{+0.017}_{-0.018} \quad (+0.6\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.017}_{-0.017} \quad (-0.5\sigma)$
r	$< 0.0946 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.067}_{-0.063} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.014} \quad (-0.5\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	$< 9.75 \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.067} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.012} \quad (-0.5\sigma)$
$A_{B,\mathrm{sync}}$	$< 5.03 \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.029}_{-0.029} \quad (-0.6\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.014}_{-0.013} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1228^{+49}_{-48} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.26} \quad (+0.0\sigma)$	D_{220}	$5719^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.012} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2536^{+35}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0099} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.73} \quad (+0.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0068}_{-0.0048} \quad (-0.4\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.333 \quad (-0.0\sigma)$	D_{2000}	$230.1^{+4.9}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3068^{+0.0071}_{-0.0049} \quad (-0.4\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.978^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$r_{0.002}$	$< 0.0929 \quad (+0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$r_{0.01}$	$< 0.0926 \quad (+0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.6^{+1.5}_{-3.3} \quad (+0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.591^{+0.073}_{-0.070} \quad (+0.8\sigma)$	r_{10}	$< 0.0480 \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.7\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.795^{+0.054}_{-0.054} \quad (+0.5\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.200 \quad (+0.2\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.34}$	z_*	$1089.87^{+0.60}_{-0.60} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.178 \quad (+0.2\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	r_*	$144.70^{+0.64}_{-0.66} \quad (+0.8\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$100\theta_*$	$1.04113^{+0.00074}_{-0.00074} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.2^{+5.6}_{-5.5} \quad (-0.3\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.062}_{-0.063} \quad (+0.8\sigma)$	$f_{2000}^{143\times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	z_{drag}	$1059.81^{+0.85}_{-0.87} \quad (-0.9\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$740.2 \quad (\nu: 3.7) \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	r_{drag}	$147.37^{+0.68}_{-0.70} \quad (+0.9\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 2.1) \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	k_{D}	$0.14055^{+0.00089}_{-0.00089} \quad (-1.1\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 1.7) \quad (+0.4\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00051}_{-0.00051} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.4 \quad (\nu: 16.9)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	$3379^{+61}_{-60} \quad (-0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.049 \quad (\nu: 0.0) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	k_{eq}	$0.01031^{+0.00019}_{-0.00018} \quad (-0.6\sigma)$	χ_{MGS}^2	$1.32 \quad (\nu: 0.1) \quad (+0.3\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.011} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.9) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0058}_{-0.0058} \quad (+0.5\sigma)$	χ_{prior}^2	$9.5 \quad (\nu: 7.3) \quad (-0.8\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$H(0.15)$	$72.95^{+0.99}_{-0.99} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.6) \quad (-0.3\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.7^{+9.9}_{-9.7} \quad (-0.1\sigma)$	χ_{CMB}^2	$12675.2 \quad (\nu: 20.5) \quad (+1389.3\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.03^{+0.73}_{-0.73} \quad (-0.0\sigma)$		
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0026}_{-0.0025} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-19} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 12690.74$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.49$; $R - 1 = 0.00701$

15.55 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02230^{+0.00041}_{-0.00041} \quad (-0.6\sigma)$	$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0029}_{-0.0030} \quad (-0.4\sigma)$	$H(0.38)$	$82.84^{+0.89}_{-0.84} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1198^{+0.0030}_{-0.0031} \quad (-0.3\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09613^{+0.00085}_{-0.00085} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+23}_{-24} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04085^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	σ_8	$0.811^{+0.015}_{-0.014} \quad (-0.4\sigma)$	$H(0.51)$	$89.59^{+0.71}_{-0.67} \quad (-0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	S_8	$0.830^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+27}_{-28} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.040}_{-0.030} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.61)$	$95.23^{+0.58}_{-0.55} \quad (-0.2\sigma)$
n_{s}	$0.965^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.016}_{-0.016} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+29}_{-30} \quad (+0.0\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.003^{+0.017}_{-0.018} \quad (+0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$H(2.33)$	$236.3^{+1.9}_{-1.9} \quad (-0.5\sigma)$
r	$< 0.0917 \quad (+0.2\sigma)$	$r_{\mathrm{drag}}h$	$99.2^{+2.4}_{-2.3} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+27}_{-27} \quad (+0.4\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.060}_{-0.059} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.016}_{-0.017} \quad (-0.3\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	z_{re}	$< 9.55 \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012} \quad (-0.4\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.99 \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.086}_{-0.062} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.881^{+0.029}_{-0.028} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.26} \quad (+0.0\sigma)$	D_{40}	$1232^{+49}_{-47} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{220}	$5718^{+100}_{-98} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0093} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.72} \quad (-0.0\sigma)$	D_{810}	$2537^{+34}_{-33} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011} \quad (-0.4\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.332 \quad (-0.0\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0089} \quad (-0.3\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{2000}	$230.0^{+4.9}_{-4.7} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0060}_{-0.0045} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.975^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0066}_{-0.0048} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	Y_{P}	$0.24537^{+0.00016}_{-0.00018} \quad (-0.7\sigma)$	$r_{0.002}$	$< 0.0884 \quad (+0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00016}_{-0.00018} \quad (-0.7\sigma)$	$r_{0.01}$	$< 0.0893 \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.7\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.599^{+0.078}_{-0.075} \quad (+0.7\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.6^{+1.6}_{-3.4} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.805^{+0.060}_{-0.061} \quad (+0.4\sigma)$	r_{10}	$< 0.0459 \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	z_*	$1089.98^{+0.68}_{-0.68} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.193 \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	r_*	$144.54^{+0.73}_{-0.72} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.173 \quad (+0.1\sigma)$
A^{kSZ}	—	$100\theta_*$	$1.04104^{+0.00076}_{-0.00076} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (+24.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.885^{+0.068}_{-0.068} \quad (+0.7\sigma)$	f_{2000}^{217}	$107.3^{+5.6}_{-5.6} \quad (-154.7\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	z_{drag}	$1059.76^{+0.89}_{-0.90} \quad (-0.8\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-267.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_{drag}	$147.23^{+0.75}_{-0.76} \quad (+0.8\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.37 \quad (\nu: 0.2) \quad (-7.8\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	k_{D}	$0.14067^{+0.00092}_{-0.00091} \quad (-0.9\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.9 \quad (\nu: 3.7) \quad (-278.7\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00053}_{-0.00051} \quad (+0.8\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+79.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	z_{eq}	$3395^{+70}_{-71} \quad (-0.4\sigma)$	χ_{lowl}^2	$23.7 \quad (\nu: 2.0) \quad (-2.3\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	k_{eq}	$0.01036^{+0.00021}_{-0.00022} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.1 \quad (\nu: 16.3)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.013}_{-0.013} \quad (+0.4\sigma)$	χ_{prior}^2	$9.5 \quad (\nu: 7.2) \quad (-49.2\sigma)$
H_0	$67.4^{+1.4}_{-1.3} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4500^{+0.0069}_{-0.0066} \quad (+0.4\sigma)$	χ_{CMB}^2	$12684.2 \quad (\nu: 20.9) \quad (+1409.4\sigma)$
Ω_{Λ}	$0.685^{+0.019}_{-0.019} \quad (+0.2\sigma)$	$H(0.15)$	$72.7^{+1.2}_{-1.1} \quad (+0.0\sigma)$		
Ω_{m}	$0.315^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+12}_{-12} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12693.65; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.83; R - 1 = 0.00582$$

15.56 base_nrun_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02234^{+0.00039}_{-0.00038} \quad (-0.8\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09613^{+0.00085}_{-0.00086} \quad (-0.9\sigma)$	$H(0.51)$	$89.72^{+0.58}_{-0.56} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	σ_8	$0.810^{+0.016}_{-0.014} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+22}_{-22} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	S_8	$0.824^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.61)$	$95.33^{+0.48}_{-0.47} \quad (-0.4\sigma)$
τ	$0.057^{+0.019}_{-0.015} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+24}_{-24} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.041}_{-0.031} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.015}_{-0.014} \quad (-0.4\sigma)$	$H(2.33)$	$236.0^{+1.5}_{-1.5} \quad (-0.5\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+23}_{-24} \quad (+0.5\sigma)$
$\mathrm{d}n_{\mathrm{s}}/\mathrm{d}\ln k$	$-0.003^{+0.017}_{-0.018} \quad (+0.6\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+1.9}_{-1.8} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014} \quad (-0.3\sigma)$
r	$< 0.0926 \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.056}_{-0.055} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.4\sigma)$
y_{cal}	$1.0009^{+0.0064}_{-0.0062} \quad (-0.0\sigma)$	z_{re}	$< 9.68 \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.1}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.106^{+0.088}_{-0.065} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010} \quad (-0.3\sigma)$
$A_{B,\mathrm{sync}}$	$< 5.02 \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.010} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1230^{+49}_{-47} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0097} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.26} \quad (+0.0\sigma)$	D_{220}	$5723^{+100}_{-97} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.0096} \quad (-0.4\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2537^{+34}_{-33} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0092} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.72} \quad (-0.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0060}_{-0.0047} \quad (-0.3\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.331 \quad (-0.0\sigma)$	D_{2000}	$230.3^{+4.9}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0065}_{-0.0049} \quad (-0.3\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.976^{+0.055}_{-0.054} \quad (-0.5\sigma)$	$r_{0.002}$	$< 0.0896 \quad (+0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.9\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$r_{0.01}$	$< 0.0901 \quad (+0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.8\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.6^{+1.6}_{-3.4} \quad (+0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.591^{+0.073}_{-0.070} \quad (+0.8\sigma)$	r_{10}	$< 0.0467 \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.7\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.054}_{-0.053} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.195 \quad (+0.1\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.34}$	z_*	$1089.88^{+0.59}_{-0.59} \quad (+0.5\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.174 \quad (+0.1\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	r_*	$144.68^{+0.60}_{-0.60} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$100\theta_*$	$1.04112^{+0.00072}_{-0.00074} \quad (-0.2\sigma)$	f_{2000}^{217}	$107.1^{+5.6}_{-5.4} \quad (-0.3\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.058}_{-0.058} \quad (+0.7\sigma)$	$f_{2000}^{143\times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	z_{drag}	$1059.81^{+0.85}_{-0.87} \quad (-0.9\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.31 \quad (\nu: 0.2) \quad (+0.0\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	r_{drag}	$147.35^{+0.65}_{-0.66} \quad (+0.8\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$740.1 \quad (\nu: 3.6) \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	k_{D}	$0.14057^{+0.00086}_{-0.00085} \quad (-1.0\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 2.0) \quad (-0.1\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00051}_{-0.00051} \quad (+0.8\sigma)$	χ_{lowl}^2	$23.5 \quad (\nu: 1.9) \quad (+0.5\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{eq}	$3381^{+56}_{-55} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 16.3)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.7\sigma)$	k_{eq}	$0.01032^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.050 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.28 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4514^{+0.0054}_{-0.0053} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.8) \quad (-0.2\sigma)$
H_0	$67.6^{+1.1}_{-1.1} \quad (-0.0\sigma)$	$H(0.15)$	$72.91^{+0.94}_{-0.92} \quad (-0.1\sigma)$	χ_{prior}^2	$9.4 \quad (\nu: 7.3) \quad (-0.8\sigma)$
Ω_{Λ}	$0.689^{+0.014}_{-0.015} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641.0^{+9.3}_{-9.2} \quad (+0.0\sigma)$	χ_{CMB}^2	$12684.3 \quad (\nu: 20.7) \quad (+1425.8\sigma)$
Ω_{m}	$0.311^{+0.015}_{-0.014} \quad (-0.1\sigma)$	$H(0.38)$	$83.01^{+0.71}_{-0.69} \quad (-0.2\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1421^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+19}_{-19} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12699.77; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.59; R - 1 = 0.00794$$

15.57 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022394	$0.02240^{+0.00039}_{-0.00039}$	Ω_Λ	0.6837	$0.684^{+0.019}_{-0.020}$	$D_M(0.15)$	643.9	644^{+12}_{-12}
$\Omega_c h^2$	0.12021	$0.1202^{+0.0031}_{-0.0031}$	Ω_m	0.3163	$0.316^{+0.020}_{-0.019}$	$H(0.38)$	82.84	$82.85^{+0.89}_{-0.85}$
$100\theta_{MC}$	1.04090	$1.04090^{+0.00078}_{-0.00078}$	$\Omega_m h^2$	0.14325	$0.1432^{+0.0029}_{-0.0030}$	$D_M(0.38)$	1534.4	1534^{+24}_{-24}
τ	0.0551	$0.056^{+0.021}_{-0.019}$	$\Omega_m h^3$	0.09640	$0.09640^{+0.00076}_{-0.00079}$	$H(0.51)$	89.61	$89.62^{+0.72}_{-0.68}$
$\ln(10^{10} A_s)$	3.0470	$3.050^{+0.041}_{-0.038}$	σ_8	0.8117	$0.812^{+0.016}_{-0.015}$	$D_M(0.51)$	1987.0	1987^{+28}_{-28}
n_s	0.9645	$0.964^{+0.011}_{-0.011}$	S_8	0.8335	$0.834^{+0.033}_{-0.032}$	$H(0.61)$	95.27	$95.28^{+0.58}_{-0.55}$
$dn_s/d \ln k$	-0.0051	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	0.4565	$0.457^{+0.018}_{-0.017}$	$D_M(0.61)$	2311.5	2311^{+30}_{-30}
r	0.0194	< 0.0862	$\sigma_8 \Omega_m^{0.25}$	0.6087	$0.609^{+0.017}_{-0.016}$	$H(2.33)$	236.72	$236.7^{+1.9}_{-1.9}$
y_{cal}	1.0003	$1.0008^{+0.0064}_{-0.0065}$	$\sigma_8/h^{0.5}$	0.9895	$0.990^{+0.023}_{-0.023}$	$D_M(2.33)$	5763.3	5763^{+26}_{-26}
$A_{B,dust}$	4.63	$4.9^{+3.1}_{-2.1}$	$r_{drag} h$	98.93	$98.9^{+2.5}_{-2.4}$	$f\sigma_8(0.15)$	0.4607	$0.461^{+0.017}_{-0.016}$
$A_{B,sync}$	1.41	< 4.85	$\langle d^2 \rangle^{1/2}$	2.439	$2.440^{+0.060}_{-0.057}$	$\sigma_8(0.15)$	0.7496	$0.750^{+0.014}_{-0.014}$
$\alpha_{B,dust}$	-0.52	—	z_{re}	7.76	$7.8^{+2.0}_{-2.0}$	$f\sigma_8(0.38)$	0.4780	$0.478^{+0.013}_{-0.013}$
$\beta_{B,dust}$	1.583	$1.60^{+0.25}_{-0.24}$	$10^9 A_s$	2.105	$2.112^{+0.089}_{-0.080}$	$\sigma_8(0.38)$	0.6639	$0.664^{+0.013}_{-0.012}$
$\alpha_{B,sync}$	-0.39	—	$10^9 A_s e^{-2\tau}$	1.8855	$1.887^{+0.029}_{-0.029}$	$f\sigma_8(0.51)$	0.4760	$0.476^{+0.012}_{-0.011}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.73}$	D_{40}	1225.3	1227^{+49}_{-48}	$\sigma_8(0.51)$	0.6211	$0.622^{+0.012}_{-0.011}$
$\epsilon_{dust,sync}$	-0.36	< 0.354	D_{220}	5726	5731^{+100}_{-100}	$f\sigma_8(0.61)$	0.4707	$0.471^{+0.011}_{-0.010}$
A_{217}^{CIB}	50.0	48^{+20}_{-20}	D_{810}	2540.4	2542^{+35}_{-35}	$\sigma_8(0.61)$	0.5909	$0.591^{+0.012}_{-0.011}$
$\xi^{tSZ \times CIB}$	0.09	—	D_{1420}	816.4	816^{+13}_{-13}	$f\sigma_8(2.33)$	0.2977	$0.2980^{+0.0061}_{-0.0057}$
A_{143}^{tSZ}	7.3	—	D_{2000}	230.30	$230.1^{+4.7}_{-4.7}$	$\sigma_8(2.33)$	0.3067	$0.3070^{+0.0067}_{-0.0061}$
A_{100}^{PS}	256	263^{+70}_{-70}	$n_{s,0.002}$	0.981	$0.986^{+0.055}_{-0.056}$	$r_{0.002}$	0.0179	< 0.0844
A_{143}^{PS}	44.8	48^{+20}_{-20}	Y_P	0.245405	$0.24540^{+0.00015}_{-0.00016}$	$r_{0.01}$	0.0185	< 0.0841
$A_{143 \times 217}^{PS}$	40	43^{+20}_{-20}	Y_P^{BBN}	0.246731	$0.24673^{+0.00015}_{-0.00016}$	$\ln(10^{10} A_t)$	-0.90	$-0.8^{+1.6}_{-3.4}$
A_{217}^{PS}	116.2	115^{+30}_{-30}	$10^5 D/H$	2.581	$2.581^{+0.074}_{-0.070}$	r_{10}	0.0092	< 0.0440
A^{kSZ}	0.0	—	Age/Gyr	13.796	$13.796^{+0.060}_{-0.059}$	$10^9 A_t$	0.041	< 0.183
$A_{100}^{dust TT}$	8.89	$8.9^{+4.6}_{-4.8}$	z_*	1089.91	$1089.90^{+0.67}_{-0.66}$	$10^9 A_t e^{-2\tau}$	0.037	< 0.163
$A_{143}^{dust TT}$	11.04	$11.0^{+4.6}_{-4.6}$	r_*	144.36	$144.36^{+0.72}_{-0.70}$	f_{2000}^{143}	30.24	$9.6^{+3.2}_{-1.3}$
$A_{143 \times 217}^{dust TT}$	19.4	$18.7^{+8.5}_{-8.5}$	$100\theta_*$	1.04108	$1.04108^{+0.00077}_{-0.00077}$	$f_{2000}^{143 \times 217}$	32.9	$739.6^{+8.7}_{-4.7}$
$A_{217}^{dust TT}$	94.1	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.866	$13.867^{+0.067}_{-0.065}$	f_{2000}^{217}	107.52	$397.3^{+7.0}_{-1.7}$
$A_{100}^{dust TE}$	0.114	$0.115^{+0.099}_{-0.095}$	z_{drag}	1060.01	$1060.01^{+0.80}_{-0.80}$	$\chi_{lensing}^2$	9.04	$23.0 (\nu: 1.5)$
$A_{100 \times 143}^{dust TE}$	0.134	$0.135^{+0.076}_{-0.075}$	r_{drag}	147.01	$147.01^{+0.72}_{-0.70}$	$\chi_{BKPLANCK}^2$	735.3	$2360.3 (\nu: 17.0)$
$A_{100 \times 217}^{dust TE}$	0.477	$0.48^{+0.22}_{-0.22}$	k_D	0.14097	$0.14097^{+0.00081}_{-0.00082}$	χ_{small}^2	396.2	$13.2 (\nu: 11.8)$
$A_{143}^{dust TE}$	0.224	$0.23^{+0.14}_{-0.14}$	$100\theta_D$	0.160716	$0.16071^{+0.00049}_{-0.00047}$	χ_{lowl}^2	22.6	$31.0 (\nu: 4.9)$
$A_{143 \times 217}^{dust TE}$	0.664	$0.66^{+0.21}_{-0.21}$	z_{eq}	3408	3407^{+70}_{-71}	χ_{plik}^2	2344.9	$33.3 (\nu: 2.3)$
$A_{217}^{dust TE}$	2.08	$2.08^{+0.69}_{-0.69}$	k_{eq}	0.010401	$0.01040^{+0.00021}_{-0.00022}$	χ_{prior}^2	1.9	$107.9 (\nu: 2.0)$
c_{100}	0.99968	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8124	$0.812^{+0.014}_{-0.013}$	χ_{CMB}^2	3508.1	$3529.8 (\nu: 21.4)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	0.4489	$0.4489^{+0.0069}_{-0.0066}$			
H_0	67.30	$67.3^{+1.4}_{-1.4}$	$H(0.15)$	72.63	$72.6^{+1.2}_{-1.2}$			

Best-fit $\chi_{eff}^2 = 3510.02$; $\bar{\chi}_{eff}^2 = 3542.98$; $R - 1 = 0.00382$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 9.04 BK15_dust: 735.27 small_100x143_offlike5_EE_Aplanck_B: 396.20 commander_dx12_v3_2_29: 22.64 plik_rd12_HM_v22b_TTTEE: 2344.94

15.58 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022461	$0.02245^{+0.00036}_{-0.00036}$	Ω_m	0.3106	$0.312^{+0.015}_{-0.015}$	$D_M(0.38)$	1527.4	1528^{+19}_{-19}
$\Omega_c h^2$	0.11930	$0.1194^{+0.0024}_{-0.0025}$	$\Omega_m h^2$	0.14240	$0.1425^{+0.0023}_{-0.0023}$	$H(0.51)$	89.81	$89.78^{+0.58}_{-0.56}$
$100\theta_{MC}$	1.04102	$1.04100^{+0.00074}_{-0.00073}$	$\Omega_m h^3$	0.09642	$0.09642^{+0.00075}_{-0.00079}$	$D_M(0.51)$	1978.7	1980^{+22}_{-22}
τ	0.0580	$0.058^{+0.021}_{-0.019}$	σ_8	0.8116	$0.811^{+0.016}_{-0.015}$	$H(0.61)$	95.425	$95.40^{+0.49}_{-0.47}$
$\ln(10^{10} A_s)$	3.0514	$3.053^{+0.041}_{-0.038}$	S_8	0.8258	$0.827^{+0.027}_{-0.027}$	$D_M(0.61)$	2302.6	2304^{+24}_{-24}
n_s	0.9677	$0.966^{+0.010}_{-0.010}$	$\sigma_8 \Omega_m^{0.5}$	0.4523	$0.453^{+0.015}_{-0.015}$	$H(2.33)$	236.20	$236.3^{+1.5}_{-1.5}$
$dn_s/d \ln k$	-0.0034	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6059	$0.606^{+0.015}_{-0.014}$	$D_M(2.33)$	5756.8	5758^{+23}_{-23}
r	0.0201	< 0.0869	$\sigma_8/h^{0.5}$	0.9863	$0.987^{+0.021}_{-0.021}$	$f\sigma_8(0.15)$	0.4570	$0.457^{+0.014}_{-0.014}$
y_{cal}	1.0007	$1.0009^{+0.0063}_{-0.0065}$	$r_{drag} h$	99.65	$99.5^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	0.7500	$0.750^{+0.015}_{-0.014}$
$A_{B,dust}$	4.60	$4.9^{+3.2}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.432^{+0.057}_{-0.054}$	$f\sigma_8(0.38)$	0.4756	$0.476^{+0.012}_{-0.012}$
$A_{B,sync}$	1.43	< 4.84	z_{re}	8.02	$8.0^{+1.9}_{-2.0}$	$\sigma_8(0.38)$	0.6649	$0.665^{+0.013}_{-0.012}$
$\alpha_{B,dust}$	-0.51	—	$10^9 A_s$	2.114	$2.118^{+0.088}_{-0.079}$	$f\sigma_8(0.51)$	0.4742	$0.474^{+0.011}_{-0.010}$
$\beta_{B,dust}$	1.577	$1.60^{+0.25}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8829	$1.885^{+0.028}_{-0.028}$	$\sigma_8(0.51)$	0.6223	$0.622^{+0.012}_{-0.011}$
$\alpha_{B,sync}$	-0.32	—	D_{40}	1224.9	1225^{+47}_{-47}	$f\sigma_8(0.61)$	0.4693	$0.469^{+0.010}_{-0.0097}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.70}_{-0.72}$	D_{220}	5734	5737^{+99}_{-98}	$\sigma_8(0.61)$	0.5922	$0.592^{+0.012}_{-0.011}$
$\epsilon_{dust,sync}$	-0.35	< 0.339	D_{810}	2542.6	2543^{+34}_{-35}	$f\sigma_8(2.33)$	0.2986	$0.2984^{+0.0061}_{-0.0056}$
A_{217}^{CIB}	46.7	48^{+20}_{-20}	D_{1420}	818.7	817^{+12}_{-13}	$\sigma_8(2.33)$	0.3079	$0.3077^{+0.0066}_{-0.0059}$
$\xi^{tSZ \times CIB}$	0.54	—	D_{2000}	231.28	$230.5^{+4.5}_{-4.7}$	$r_{0.002}$	0.0186	< 0.0850
A_{143}^{tSZ}	7.1	—	$n_{s,0.002}$	0.979	$0.987^{+0.057}_{-0.055}$	$r_{0.01}$	0.0193	< 0.0848
A_{100}^{PS}	250	262^{+70}_{-70}	Y_P	0.245430	$0.24542^{+0.00014}_{-0.00015}$	$\ln(10^{10} A_t)$	-0.85	$-0.7^{+1.6}_{-3.4}$
A_{143}^{PS}	49.7	48^{+20}_{-20}	Y_P^{BBN}	0.246757	$0.24675^{+0.00014}_{-0.00015}$	r_{10}	0.0095	< 0.0441
$A_{143 \times 217}^{PS}$	50.7	43^{+20}_{-20}	$10^5 D/H$	2.569	$2.571^{+0.068}_{-0.064}$	$10^9 A_t$	0.043	< 0.184
A_{217}^{PS}	121.1	115^{+30}_{-30}	Age/Gyr	13.782	$13.785^{+0.052}_{-0.051}$	$10^9 A_t e^{-2\tau}$	0.038	< 0.164
A^{kSZ}	0.0	—	z_*	1089.74	$1089.77^{+0.57}_{-0.56}$	f_{2000}^{143}	29.0	31^{+8}_{-8}
$A_{100}^{dust TT}$	8.87	$8.9^{+4.6}_{-4.7}$	r_*	144.54	$144.52^{+0.59}_{-0.58}$	$f_{2000}^{143 \times 217}$	32.2	33^{+6}_{-6}
$A_{143}^{dust TT}$	11.03	$10.9^{+4.6}_{-4.7}$	$100\theta_*$	1.04120	$1.04118^{+0.00072}_{-0.00072}$	f_{2000}^{217}	106.8	$107.7^{+5.3}_{-5.2}$
$A_{143 \times 217}^{dust TT}$	20.0	$18.7^{+8.4}_{-8.7}$	$D_M(z_*)/Gpc$	13.882	$13.880^{+0.058}_{-0.056}$	$\chi^2_{lensing}$	8.83	$9.32 (\nu: 0.2)$
$A_{217}^{dust TT}$	95.4	94^{+20}_{-20}	z_{drag}	1060.09	$1060.08^{+0.77}_{-0.80}$	$\chi^2_{BKPLANCK}$	735.5	$739.8 (\nu: 3.4)$
$A_{100}^{dust TE}$	0.114	$0.115^{+0.098}_{-0.094}$	r_{drag}	147.18	$147.15^{+0.62}_{-0.61}$	χ^2_{small}	396.8	$397.7 (\nu: 2.2)$
$A_{100 \times 143}^{dust TE}$	0.135	$0.135^{+0.078}_{-0.076}$	k_D	0.14085	$0.14087^{+0.00076}_{-0.00077}$	χ^2_{lowl}	22.64	$22.8 (\nu: 1.4)$
$A_{100 \times 217}^{dust TE}$	0.481	$0.48^{+0.21}_{-0.22}$	$100\theta_D$	0.160670	$0.16068^{+0.00047}_{-0.00046}$	χ^2_{plik}	2345.2	$2360.2 (\nu: 16.8)$
$A_{143}^{dust TE}$	0.225	$0.22^{+0.14}_{-0.13}$	z_{eq}	3388	3391^{+55}_{-56}	χ^2_{6DF}	0.029	$0.060 (\nu: 0.0)$
$A_{143 \times 217}^{dust TE}$	0.664	$0.66^{+0.20}_{-0.20}$	k_{eq}	0.010339	$0.01035^{+0.00017}_{-0.00017}$	χ^2_{MGS}	1.22	$1.21 (\nu: 0.1)$
$A_{217}^{dust TE}$	2.08	$2.07^{+0.69}_{-0.70}$	$100\theta_{eq}$	0.8162	$0.816^{+0.011}_{-0.010}$	$\chi^2_{DR12BAO}$	4.43	$5.0 (\nu: 1.0)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	0.4509	$0.4506^{+0.0055}_{-0.0052}$	χ^2_{prior}	1.7	$13.2 (\nu: 11.9)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	72.99	$72.93^{+0.96}_{-0.93}$	χ^2_{CMB}	3508.9	$3529.8 (\nu: 20.8)$
H_0	67.71	$67.6^{+1.1}_{-1.1}$	$D_M(0.15)$	640.3	$640.9^{+9.3}_{-9.3}$	χ^2_{BAO}	5.68	$6.2 (\nu: 0.7)$
Ω_Λ	0.6894	$0.688^{+0.015}_{-0.015}$	$H(0.38)$	83.09	$83.05^{+0.71}_{-0.69}$			

Best-fit $\chi^2_{eff} = 3516.32$; $\bar{\chi}^2_{eff} = 3549.29$; $R - 1 = 0.00618$
 χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.43 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.83 BK15_dust: 735.47 simall_100x143_offlike5_EE_Aplanck_B: 396.79 commander_dx12_v3.2.29: 22.64 plik_rd12_HM_v22b_TTTEE: 2345.18

15.59 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00039}_{-0.00039}$	Ω_Λ	$0.684^{+0.019}_{-0.019}$	$D_M(0.15)$	644^{+12}_{-12}
$\Omega_c h^2$	$0.1202^{+0.0031}_{-0.0031}$	Ω_m	$0.316^{+0.019}_{-0.019}$	$H(0.38)$	$82.86^{+0.89}_{-0.84}$
$100\theta_{MC}$	$1.04091^{+0.00078}_{-0.00078}$	$\Omega_m h^2$	$0.1432^{+0.0029}_{-0.0030}$	$D_M(0.38)$	1534^{+24}_{-24}
τ	$0.057^{+0.019}_{-0.015}$	$\Omega_m h^3$	$0.09640^{+0.00076}_{-0.00079}$	$H(0.51)$	$89.63^{+0.71}_{-0.67}$
$\ln(10^{10} A_s)$	$3.051^{+0.040}_{-0.030}$	σ_8	$0.813^{+0.015}_{-0.014}$	$D_M(0.51)$	1986^{+27}_{-28}
n_s	$0.964^{+0.011}_{-0.011}$	S_8	$0.834^{+0.033}_{-0.032}$	$H(0.61)$	$95.29^{+0.58}_{-0.55}$
$dn_s/d \ln k$	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	$0.457^{+0.018}_{-0.017}$	$D_M(0.61)$	2311^{+30}_{-30}
r	< 0.0862	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.016}_{-0.016}$	$H(2.33)$	$236.7^{+1.8}_{-1.9}$
y_{cal}	$1.0008^{+0.0064}_{-0.0065}$	$\sigma_8/h^{0.5}$	$0.990^{+0.023}_{-0.022}$	$D_M(2.33)$	5763^{+26}_{-26}
$A_{B,dust}$	$4.9^{+3.1}_{-2.1}$	$r_{drag} h$	$99.0^{+2.5}_{-2.3}$	$f\sigma_8(0.15)$	$0.461^{+0.017}_{-0.016}$
$A_{B,sync}$	< 4.86	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.060}_{-0.057}$	$\sigma_8(0.15)$	$0.751^{+0.014}_{-0.012}$
$\alpha_{B,dust}$	—	z_{re}	< 9.62	$f\sigma_8(0.38)$	$0.478^{+0.013}_{-0.013}$
$\beta_{B,dust}$	$1.60^{+0.25}_{-0.24}$	$10^9 A_s$	$2.114^{+0.087}_{-0.063}$	$\sigma_8(0.38)$	$0.665^{+0.013}_{-0.010}$
$\alpha_{B,sync}$	—	$10^9 A_s e^{-2\tau}$	$1.887^{+0.029}_{-0.029}$	$f\sigma_8(0.51)$	$0.476^{+0.012}_{-0.011}$
$\beta_{B,sync}$	$-3.10^{+0.68}_{-0.73}$	D_{40}	1227^{+48}_{-48}	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.0096}$
$\epsilon_{dust,sync}$	< 0.354	D_{220}	5731^{+100}_{-100}	$f\sigma_8(0.61)$	$0.471^{+0.011}_{-0.010}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2542^{+35}_{-35}	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.0091}$
$\xi^{tSZ \times CIB}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(2.33)$	$0.2981^{+0.0059}_{-0.0046}$
A_{143}^{tSZ}	—	D_{2000}	$230.1^{+4.7}_{-4.7}$	$\sigma_8(2.33)$	$0.3072^{+0.0065}_{-0.0049}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{s,0.002}$	$0.986^{+0.055}_{-0.055}$	$r_{0.002}$	< 0.0845
A_{143}^{PS}	48^{+20}_{-20}	Y_P	$0.24541^{+0.00015}_{-0.00016}$	$r_{0.01}$	< 0.0841
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	Y_P^{BBN}	$0.24673^{+0.00015}_{-0.00016}$	$\ln(10^{10} A_t)$	$-0.8^{+1.6}_{-3.4}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 D/H$	$2.580^{+0.073}_{-0.070}$	r_{10}	< 0.0440
A^{kSZ}	—	Age/Gyr	$13.795^{+0.059}_{-0.059}$	$10^9 A_t$	< 0.183
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	z_*	$1089.90^{+0.67}_{-0.66}$	$10^9 A_t e^{-2\tau}$	< 0.163
A_{143}^{dustTT}	$11.0^{+4.6}_{-4.6}$	r_*	$144.37^{+0.72}_{-0.69}$	f_{2000}^{143}	$9.6^{+3.3}_{-1.3}$
$A_{143 \times 217}^{dustTT}$	$18.7^{+8.5}_{-8.5}$	$100\theta_*$	$1.04109^{+0.00077}_{-0.00077}$	$f_{2000}^{143 \times 217}$	$739.6^{+8.7}_{-4.7}$
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.867^{+0.067}_{-0.064}$	f_{2000}^{217}	$397.3^{+7.1}_{-1.7}$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.095}$	z_{drag}	$1060.02^{+0.79}_{-0.81}$	$\chi_{lensing}^2$	$23.0 (\nu: 1.5)$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.076}_{-0.076}$	r_{drag}	$147.02^{+0.72}_{-0.70}$	$\chi_{BKPLANCK}^2$	$2360.2 (\nu: 16.9)$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	k_D	$0.14097^{+0.00081}_{-0.00082}$	χ_{simall}^2	$13.2 (\nu: 11.7)$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$100\theta_D$	$0.16071^{+0.00048}_{-0.00047}$	χ_{lowl}^2	$31.0 (\nu: 4.8)$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.21}_{-0.20}$	z_{eq}	3407^{+69}_{-71}	χ_{plik}^2	$33.3 (\nu: 2.3)$
A_{217}^{dustTE}	$2.08^{+0.69}_{-0.69}$	k_{eq}	$0.01040^{+0.00021}_{-0.00022}$	χ_{prior}^2	$107.9 (\nu: 2.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	$0.813^{+0.013}_{-0.013}$	χ_{CMB}^2	$3529.6 (\nu: 21.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	$0.4490^{+0.0069}_{-0.0065}$		
H_0	$67.3^{+1.4}_{-1.4}$	$H(0.15)$	$72.7^{+1.2}_{-1.2}$		

$\bar{\chi}_{eff}^2 = 3542.82$; $R - 1 = 0.00386$

15.60 base_nrun_r_plikHM_TTTEE_lowl_lowE_BK15_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02245^{+0.00036}_{-0.00036}$	Ω_m	$0.311^{+0.015}_{-0.015}$	$D_M(0.38)$	1528^{+19}_{-19}
$\Omega_c h^2$	$0.1194^{+0.0024}_{-0.0025}$	$\Omega_m h^2$	$0.1425^{+0.0023}_{-0.0023}$	$H(0.51)$	$89.78^{+0.58}_{-0.56}$
$100\theta_{MC}$	$1.04100^{+0.00074}_{-0.00073}$	$\Omega_m h^3$	$0.09642^{+0.00075}_{-0.00079}$	$D_M(0.51)$	1980^{+22}_{-22}
τ	$0.059^{+0.019}_{-0.016}$	σ_8	$0.812^{+0.016}_{-0.014}$	$H(0.61)$	$95.40^{+0.48}_{-0.46}$
$\ln(10^{10} A_s)$	$3.054^{+0.041}_{-0.032}$	S_8	$0.827^{+0.027}_{-0.026}$	$D_M(0.61)$	2304^{+24}_{-24}
n_s	$0.966^{+0.010}_{-0.010}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.015}_{-0.014}$	$H(2.33)$	$236.3^{+1.5}_{-1.5}$
$dn_s/d \ln k$	$-0.007^{+0.018}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.014}_{-0.014}$	$D_M(2.33)$	5758^{+23}_{-23}
r	< 0.0869	$\sigma_8/h^{0.5}$	$0.987^{+0.021}_{-0.020}$	$f\sigma_8(0.15)$	$0.458^{+0.014}_{-0.013}$
y_{cal}	$1.0009^{+0.0064}_{-0.0065}$	$r_{drag} h$	$99.6^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.750^{+0.015}_{-0.012}$
$A_{B,dust}$	$4.9^{+3.2}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.057}_{-0.053}$	$f\sigma_8(0.38)$	$0.476^{+0.012}_{-0.011}$
$A_{B,sync}$	< 4.84	z_{re}	< 9.78	$\sigma_8(0.38)$	$0.665^{+0.013}_{-0.011}$
$\alpha_{B,dust}$	—	$10^9 A_s$	$2.119^{+0.088}_{-0.067}$	$f\sigma_8(0.51)$	$0.475^{+0.011}_{-0.010}$
$\beta_{B,dust}$	$1.60^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	$1.885^{+0.028}_{-0.028}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.0099}$
$\alpha_{B,sync}$	—	D_{40}	1225^{+47}_{-47}	$f\sigma_8(0.61)$	$0.4696^{+0.0099}_{-0.0092}$
$\beta_{B,sync}$	$-3.10^{+0.69}_{-0.72}$	D_{220}	5737^{+99}_{-98}	$\sigma_8(0.61)$	$0.592^{+0.012}_{-0.0095}$
$\epsilon_{dust,sync}$	< 0.339	D_{810}	2543^{+34}_{-35}	$f\sigma_8(2.33)$	$0.2985^{+0.0060}_{-0.0048}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(2.33)$	$0.3078^{+0.0065}_{-0.0051}$
$\xi^{tSZ \times CIB}$	—	D_{2000}	$230.5^{+4.5}_{-4.6}$	$r_{0.002}$	< 0.0850
A_{143}^{tSZ}	—	$n_{s,0.002}$	$0.987^{+0.057}_{-0.055}$	$r_{0.01}$	< 0.0848
A_{100}^{PS}	262^{+70}_{-70}	Y_P	$0.24543^{+0.00014}_{-0.00015}$	$\ln(10^{10} A_t)$	$-0.7^{+1.6}_{-3.4}$
A_{143}^{PS}	48^{+20}_{-20}	Y_P^{BBN}	$0.24675^{+0.00014}_{-0.00015}$	r_{10}	< 0.0441
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	$10^5 D/H$	$2.571^{+0.068}_{-0.064}$	$10^9 A_t$	< 0.185
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.784^{+0.052}_{-0.051}$	$10^9 A_t e^{-2\tau}$	< 0.164
A^{kSZ}	—	z_*	$1089.77^{+0.57}_{-0.56}$	f_{2000}^{143}	31^{+8}_{-8}
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	r_*	$144.52^{+0.59}_{-0.58}$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	$100\theta_*$	$1.04118^{+0.00072}_{-0.00072}$	f_{2000}^{217}	$107.7^{+5.3}_{-5.2}$
$A_{143 \times 217}^{dustTT}$	$18.7^{+8.4}_{-8.7}$	$D_M(z_*)/\text{Gpc}$	$13.880^{+0.057}_{-0.056}$	$\chi_{lensing}^2$	$9.31 (\nu: 0.2)$
A_{217}^{dustTT}	94^{+20}_{-20}	z_{drag}	$1060.08^{+0.80}_{-0.80}$	$\chi_{BKPLANCK}^2$	$739.8 (\nu: 3.4)$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.094}$	r_{drag}	$147.15^{+0.62}_{-0.61}$	χ_{simall}^2	$397.7 (\nu: 2.3)$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.078}_{-0.077}$	k_D	$0.14086^{+0.00075}_{-0.00077}$	χ_{lowl}^2	$22.8 (\nu: 1.4)$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.21}_{-0.22}$	$100\theta_D$	$0.16068^{+0.00046}_{-0.00046}$	χ_{plik}^2	$2360.1 (\nu: 16.8)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	z_{eq}	3390^{+55}_{-56}	χ_{6DF}^2	$0.059 (\nu: 0.0)$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.20}_{-0.20}$	k_{eq}	$0.01035^{+0.00017}_{-0.00017}$	χ_{MGS}^2	$1.21 (\nu: 0.1)$
A_{217}^{dustTE}	$2.07^{+0.69}_{-0.70}$	$100\theta_{eq}$	$0.816^{+0.011}_{-0.010}$	$\chi_{DR12BAO}^2$	$5.0 (\nu: 1.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	$0.4506^{+0.0055}_{-0.0052}$	χ_{prior}^2	$13.2 (\nu: 11.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	$72.94^{+0.95}_{-0.93}$	χ_{CMB}^2	$3529.7 (\nu: 20.6)$
H_0	$67.7^{+1.1}_{-1.1}$	$D_M(0.15)$	$640.8^{+9.3}_{-9.3}$	χ_{BAO}^2	$6.2 (\nu: 0.6)$
Ω_Λ	$0.689^{+0.015}_{-0.015}$	$H(0.38)$	$83.06^{+0.71}_{-0.69}$		

$$\bar{\chi}_{\text{eff}}^2 = 3549.18; R - 1 = 0.00588$$

16 omegak

16.1 base_omegak_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02261	$0.02255^{+0.00070}_{-0.00068}$	$\sigma_8 \Omega_m^{0.5}$	0.553	$0.552^{+0.085}_{-0.086}$	$100\theta_{s,eq}$	0.4557	$0.455^{+0.013}_{-0.013}$
$\Omega_c h^2$	0.1171	$0.1173^{+0.0060}_{-0.0056}$	$\sigma_8 \Omega_m^{0.25}$	0.6506	$0.649^{+0.035}_{-0.044}$	$H(0.15)$	58.2	58^{+10}_{-10}
$100\theta_{MC}$	1.04130	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	1.063	$1.061^{+0.053}_{-0.069}$	$D_M(0.15)$	819	820^{+200}_{-100}
τ	0.0493	$0.048^{+0.021}_{-0.026}$	$r_{drag}h$	76.7	77^{+20}_{-20}	$H(0.38)$	69.6	70^{+10}_{-8}
Ω_K	-0.055	$-0.056^{+0.050}_{-0.079}$	$\langle d^2 \rangle^{1/2}$	2.678	$2.68^{+0.20}_{-0.22}$	$D_M(0.38)$	1902	1902^{+300}_{-300}
$\ln(10^{10} A_s)$	3.027	$3.026^{+0.045}_{-0.056}$	z_{re}	6.91	$6.8^{+2.1}_{-3.1}$	$H(0.51)$	77.1	77^{+10}_{-8}
n_s	0.9744	$0.972^{+0.017}_{-0.017}$	$10^9 A_s$	2.065	$2.061^{+0.095}_{-0.11}$	$D_M(0.51)$	2432	2431^{+400}_{-400}
y_{cal}	0.9999	$1.0000^{+0.0066}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8706	$1.871^{+0.036}_{-0.036}$	$H(0.61)$	83.2	83^{+9}_{-8}
A_{217}^{CIB}	42.4	45^{+20}_{-20}	D_{40}	1197.5	1203^{+44}_{-44}	$D_M(0.61)$	2805	2803^{+400}_{-400}
$\xi^{tSZ \times CIB}$	0.999	—	D_{220}	5740	5745^{+110}_{-110}	$H(2.33)$	227.3	$227.6^{+7.9}_{-7.4}$
A_{143}^{tSZ}	6.81	> 1.11	D_{810}	2531.7	2529^{+36}_{-35}	$D_M(2.33)$	6471	6463^{+580}_{-570}
A_{100}^{PS}	236	250^{+70}_{-70}	D_{1420}	815.7	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.539	$0.537^{+0.055}_{-0.069}$
A_{143}^{PS}	48.6	42^{+20}_{-20}	D_{2000}	233.3	$232.3^{+5.3}_{-5.1}$	$\sigma_8(0.15)$	0.691	$0.690^{+0.054}_{-0.066}$
$A_{143 \times 217}^{PS}$	56.2	40^{+20}_{-20}	$n_{s,0.002}$	0.9744	$0.972^{+0.017}_{-0.017}$	$f\sigma_8(0.38)$	0.5139	$0.512^{+0.021}_{-0.033}$
A_{217}^{PS}	122.6	114^{+30}_{-30}	Y_P	0.245485	$0.24546^{+0.00031}_{-0.00029}$	$\sigma_8(0.38)$	0.595	$0.594^{+0.060}_{-0.069}$
A^{kSZ}	0.00	< 8.95	Y_P^{BBN}	0.246811	$0.24679^{+0.00031}_{-0.00029}$	$f\sigma_8(0.51)$	0.4928	$0.491^{+0.017}_{-0.020}$
A_{100}^{dustTT}	8.96	$9.0^{+4.7}_{-4.9}$	$10^5 D/H$	2.542	$2.55^{+0.13}_{-0.12}$	$\sigma_8(0.51)$	0.550	$0.550^{+0.062}_{-0.068}$
A_{143}^{dustTT}	10.62	$10.5^{+4.6}_{-4.7}$	Age/Gyr	15.64	$15.6^{+1.6}_{-1.5}$	$f\sigma_8(0.61)$	0.4753	$0.473^{+0.017}_{-0.023}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.0^{+8.2}_{-8.3}$	z_*	1089.36	$1089.5^{+1.3}_{-1.2}$	$\sigma_8(0.61)$	0.519	$0.519^{+0.062}_{-0.067}$
A_{217}^{dustTT}	96.1	94^{+20}_{-20}	r_*	145.00	$145.0^{+1.2}_{-1.3}$	$f\sigma_8(2.33)$	0.2572	$0.257^{+0.035}_{-0.036}$
c_{100}	0.99971	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04146	$1.0414^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.2561	$0.257^{+0.042}_{-0.041}$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.922	$13.92^{+0.11}_{-0.12}$	f_{2000}^{143}	25.2	27^{+8}_{-8}
H_0	51.9	52^{+10}_{-10}	z_{drag}	1060.28	$1060.2^{+1.3}_{-1.4}$	$f_{2000}^{143 \times 217}$	29.1	30^{+6}_{-6}
Ω_Λ	0.535	$0.53^{+0.14}_{-0.19}$	r_{drag}	147.59	$147.6^{+1.2}_{-1.2}$	f_{2000}^{217}	103.8	$104.9^{+5.6}_{-5.5}$
Ω_m	0.520	$0.53^{+0.27}_{-0.18}$	k_D	0.14052	$0.1404^{+0.0013}_{-0.0013}$	χ_{simall}^2	395.52	$396.8 (\nu: 1.5)$
$\Omega_m h^2$	0.1404	$0.1405^{+0.0056}_{-0.0053}$	$100\theta_D$	0.16058	$0.16066^{+0.00079}_{-0.00074}$	χ_{lowl}^2	20.97	$21.39 (\nu: 0.2)$
$\Omega_m h^3$	0.0729	$0.073^{+0.018}_{-0.016}$	z_{eq}	3339	3342^{+130}_{-130}	χ_{plik}^2	752.3	$766.6 (\nu: 14.8)$
σ_8	0.766	$0.765^{+0.047}_{-0.057}$	k_{eq}	0.010191	$0.01020^{+0.00041}_{-0.00039}$	χ_{prior}^2	1.0	$7.1 (\nu: 6.3)$
S_8	1.009	$1.01^{+0.15}_{-0.16}$	$100\theta_{eq}$	0.8257	$0.825^{+0.026}_{-0.025}$	χ_{CMB}^2	1168.8	$1184.8 (\nu: 16.3)$

Best-fit $\chi_{eff}^2 = 1169.83$; $\bar{\chi}_{eff}^2 = 1191.91$; $R - 1 = 0.01634$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.52 commander_dx12_v3.2_29: 20.97 plik_rd12_HM_v22_TT: 752.34

16.2 base_omegak_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02255^{+0.00069}_{-0.00066}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.549^{+0.083}_{-0.085}$	$100\theta_{\text{s,eq}}$	$0.456^{+0.013}_{-0.013}$
$\Omega_{\text{c}}h^2$	$0.1173^{+0.0062}_{-0.0056}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.650^{+0.034}_{-0.044}$	$H(0.15)$	59^{+10}_{-10}
$100\theta_{\text{MC}}$	$1.0413^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	$1.062^{+0.053}_{-0.068}$	$D_{\text{M}}(0.15)$	811^{+200}_{-100}
τ	$0.053^{+0.016}_{-0.010}$	$r_{\text{drag}}h$	78^{+20}_{-20}	$H(0.38)$	70^{+10}_{-9}
Ω_K	$-0.053^{+0.048}_{-0.076}$	$\langle d^2 \rangle^{1/2}$	$2.68^{+0.20}_{-0.22}$	$D_{\text{M}}(0.38)$	1885^{+300}_{-300}
$\ln(10^{10}A_{\text{s}})$	$3.035^{+0.040}_{-0.025}$	z_{re}	< 8.87	$H(0.51)$	78^{+10}_{-8}
n_{s}	$0.972^{+0.017}_{-0.016}$	$10^9 A_{\text{s}}$	$2.080^{+0.085}_{-0.052}$	$D_{\text{M}}(0.51)$	2411^{+400}_{-400}
y_{cal}	$1.0001^{+0.0063}_{-0.0063}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.871^{+0.036}_{-0.036}$	$H(0.61)$	84^{+9}_{-8}
A_{217}^{CIB}	45^{+20}_{-20}	D_{40}	1204^{+44}_{-44}	$D_{\text{M}}(0.61)$	2781^{+400}_{-400}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5744^{+110}_{-110}	$H(2.33)$	$227.8^{+7.8}_{-7.4}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.5}$	D_{810}	2529^{+35}_{-36}	$D_{\text{M}}(2.33)$	6435^{+590}_{-570}
A_{100}^{PS}	250^{+70}_{-70}	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.15)$	$0.536^{+0.054}_{-0.069}$
A_{143}^{PS}	42^{+20}_{-20}	D_{2000}	$232.4^{+5.2}_{-5.4}$	$\sigma_8(0.15)$	$0.696^{+0.050}_{-0.061}$
$A_{143 \times 217}^{\text{PS}}$	40^{+20}_{-20}	$n_{\text{s},0.002}$	$0.972^{+0.017}_{-0.016}$	$f\sigma_8(0.38)$	$0.513^{+0.021}_{-0.033}$
A_{217}^{PS}	114^{+30}_{-30}	Y_{P}	$0.24546^{+0.00030}_{-0.00028}$	$\sigma_8(0.38)$	$0.600^{+0.057}_{-0.066}$
A^{kSZ}	< 8.91	$Y_{\text{P}}^{\text{BBN}}$	$0.24679^{+0.00030}_{-0.00028}$	$f\sigma_8(0.51)$	$0.493^{+0.016}_{-0.019}$
A_{100}^{dustTT}	$9.0^{+4.6}_{-4.8}$	$10^5 \text{D}/\text{H}$	$2.55^{+0.12}_{-0.12}$	$\sigma_8(0.51)$	$0.555^{+0.058}_{-0.066}$
A_{143}^{dustTT}	$10.5^{+4.5}_{-4.8}$	Age/Gyr	$15.5^{+1.6}_{-1.5}$	$f\sigma_8(0.61)$	$0.476^{+0.016}_{-0.018}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.0^{+8.2}_{-8.4}$	z_*	$1089.5^{+1.3}_{-1.2}$	$\sigma_8(0.61)$	$0.524^{+0.058}_{-0.065}$
A_{217}^{dustTT}	94^{+20}_{-20}	r_*	$145.0^{+1.2}_{-1.3}$	$f\sigma_8(2.33)$	$0.260^{+0.033}_{-0.036}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0414^{+0.0012}_{-0.0013}$	$\sigma_8(2.33)$	$0.260^{+0.041}_{-0.040}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.92^{+0.11}_{-0.12}$	f_{2000}^{143}	27^{+8}_{-8}
H_0	53^{+10}_{-10}	z_{drag}	$1060.2^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	30^{+6}_{-6}
Ω_{Λ}	$0.54^{+0.13}_{-0.17}$	r_{drag}	$147.6^{+1.2}_{-1.3}$	f_{2000}^{217}	$104.9^{+5.5}_{-5.6}$
Ω_{m}	$0.51^{+0.25}_{-0.18}$	k_{D}	$0.1404^{+0.0013}_{-0.0014}$	χ_{simall}^2	$396.4 (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	$0.1405^{+0.0058}_{-0.0053}$	$100\theta_{\text{D}}$	$0.16066^{+0.00074}_{-0.00068}$	χ_{lowl}^2	$21.39 (\nu: 0.3)$
$\Omega_{\text{m}}h^3$	$0.074^{+0.018}_{-0.016}$	z_{eq}	3341^{+140}_{-130}	χ_{plik}^2	$766.6 (\nu: 15.0)$
σ_8	$0.770^{+0.043}_{-0.052}$	k_{eq}	$0.01020^{+0.00042}_{-0.00038}$	χ_{prior}^2	$7.1 (\nu: 6.3)$
S_8	$1.00^{+0.15}_{-0.16}$	$100\theta_{\text{eq}}$	$0.825^{+0.025}_{-0.026}$	χ_{CMB}^2	$1184.4 (\nu: 16.1)$

$$\bar{\chi}_{\text{eff}}^2 = 1191.43; R - 1 = 0.01578$$

16.3 base_omegak_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022632	$0.02260^{+0.00045}_{-0.00043}$	$\Omega_m h^2$	0.14120	$0.1413^{+0.0038}_{-0.0036}$	k_{eq}	0.010251	$0.01026^{+0.00028}_{-0.00026}$
$\Omega_c h^2$	0.11792	$0.1181^{+0.0040}_{-0.0039}$	$\Omega_m h^3$	0.0764	$0.077^{+0.015}_{-0.013}$	$100\theta_{\text{eq}}$	0.8221	$0.821^{+0.017}_{-0.017}$
$100\theta_{\text{MC}}$	1.04119	$1.04116^{+0.00085}_{-0.00082}$	σ_8	0.7750	$0.774^{+0.038}_{-0.043}$	$100\theta_{\text{s,eq}}$	0.4538	$0.4534^{+0.0087}_{-0.0087}$
τ	0.0495	$0.049^{+0.022}_{-0.024}$	S_8	0.983	$0.98^{+0.12}_{-0.12}$	$H(0.15)$	60.2	60^{+9}_{-8}
Ω_K	-0.0438	$-0.044^{+0.037}_{-0.051}$	$\sigma_8 \Omega_m^{0.5}$	0.538	$0.537^{+0.067}_{-0.068}$	$D_{\text{M}}(0.15)$	789	788^{+100}_{-100}
$\ln(10^{10} A_s)$	3.0304	$3.028^{+0.044}_{-0.050}$	$\sigma_8 \Omega_m^{0.25}$	0.6460	$0.645^{+0.028}_{-0.033}$	$H(0.38)$	71.5	72^{+9}_{-7}
n_s	0.9724	$0.971^{+0.012}_{-0.013}$	$\sigma_8/h^{0.5}$	1.0538	$1.051^{+0.045}_{-0.054}$	$D_{\text{M}}(0.38)$	1841	1838^{+300}_{-200}
y_{cal}	1.0001	$0.9999^{+0.0065}_{-0.0066}$	$r_{\text{drag}} h$	79.7	80^{+10}_{-10}	$H(0.51)$	78.8	$79.1^{+8.1}_{-6.6}$
A_{217}^{CIB}	42.1	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.646	$2.64^{+0.16}_{-0.17}$	$D_{\text{M}}(0.51)$	2358	2355^{+300}_{-300}
$\xi^{\text{tSZ} \times \text{CIB}}$	1.00	—	z_{re}	6.96	$6.9^{+2.2}_{-2.8}$	$H(0.61)$	84.9	$85.2^{+7.8}_{-6.3}$
A_{143}^{tSZ}	6.82	> 1.43	$10^9 A_s$	2.071	$2.066^{+0.093}_{-0.10}$	$D_{\text{M}}(0.61)$	2723	2719^{+300}_{-300}
A_{100}^{PS}	238	248^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8754	$1.875^{+0.033}_{-0.031}$	$H(2.33)$	228.9	$229.2^{+6.3}_{-5.5}$
A_{143}^{PS}	48.5	41^{+20}_{-20}	D_{40}	1204.9	1208^{+39}_{-37}	$D_{\text{M}}(2.33)$	6357	6346^{+440}_{-460}
$A_{143 \times 217}^{\text{PS}}$	56.4	41^{+20}_{-20}	D_{220}	5748	5748^{+100}_{-99}	$f\sigma_8(0.15)$	0.529	$0.527^{+0.047}_{-0.055}$
A_{217}^{PS}	123.6	115^{+20}_{-30}	D_{810}	2535.4	2532^{+36}_{-35}	$\sigma_8(0.15)$	0.7017	$0.701^{+0.044}_{-0.049}$
A^{kSZ}	0.00	< 8.54	D_{1420}	817.0	815^{+12}_{-12}	$f\sigma_8(0.38)$	0.5110	$0.509^{+0.018}_{-0.027}$
A_{100}^{dustTT}	8.77	$8.9^{+4.7}_{-4.6}$	D_{2000}	233.33	$232.5^{+4.2}_{-4.2}$	$\sigma_8(0.38)$	0.607	$0.607^{+0.050}_{-0.053}$
A_{143}^{dustTT}	10.68	$10.6^{+4.6}_{-4.6}$	$n_{\text{s},0.002}$	0.9724	$0.971^{+0.012}_{-0.013}$	$f\sigma_8(0.51)$	0.4928	$0.491^{+0.013}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.1^{+8.2}_{-8.4}$	Y_{P}	0.245491	$0.24548^{+0.00020}_{-0.00017}$	$\sigma_8(0.51)$	0.562	$0.562^{+0.051}_{-0.053}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246818	$0.24681^{+0.00020}_{-0.00017}$	$f\sigma_8(0.61)$	0.4771	$0.476^{+0.012}_{-0.015}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.095}$	$10^5 D/H$	2.539	$2.545^{+0.079}_{-0.081}$	$\sigma_8(0.61)$	0.531	$0.531^{+0.051}_{-0.052}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.076}_{-0.075}$	Age/Gyr	15.33	$15.3^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.2638	$0.264^{+0.028}_{-0.029}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.22}$	z_*	1089.41	$1089.47^{+0.80}_{-0.80}$	$\sigma_8(2.33)$	0.2639	$0.264^{+0.035}_{-0.033}$
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	r_*	144.77	$144.75^{+0.83}_{-0.84}$	f_{2000}^{143}	25.1	26^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04134	$1.04132^{+0.00083}_{-0.00081}$	$f_{2000}^{143 \times 217}$	29.2	30^{+5}_{-5}
A_{217}^{dustTE}	2.05	$2.06^{+0.69}_{-0.67}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.902	$13.901^{+0.075}_{-0.078}$	f_{2000}^{217}	103.94	$104.7^{+5.0}_{-5.0}$
c_{100}	0.99977	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	1060.39	$1060.33^{+0.87}_{-0.81}$	χ_{small}^2	395.55	$396.7 (\nu: 1.2)$
c_{217}	0.99808	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	147.35	$147.35^{+0.78}_{-0.79}$	χ_{lowl}^2	21.16	$21.51 (\nu: 0.2)$
H_0	54.1	54^{+10}_{-9}	k_{D}	0.14079	$0.14077^{+0.00080}_{-0.00078}$	χ_{plik}^2	2336.5	$2353.2 (\nu: 16.0)$
Ω_{Λ}	0.561	$0.56^{+0.11}_{-0.13}$	$100\theta_{\text{D}}$	0.160509	$0.16055^{+0.00046}_{-0.00048}$	χ_{prior}^2	1.3	$11.2 (\nu: 9.6)$
Ω_{m}	0.483	$0.48^{+0.18}_{-0.14}$	z_{eq}	3359	3362^{+90}_{-86}	χ_{CMB}^2	2753.2	$2771.4 (\nu: 17.5)$

Best-fit $\chi_{\text{eff}}^2 = 2754.51$; $\bar{\chi}_{\text{eff}}^2 = 2782.60$; $R - 1 = 0.01257$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.55 commander_dx12_v3.2_29: 21.16 plik_rd12_HM_v22b_TTTEE: 2336.53

16.4 base_omegak_plikHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02260^{+0.00045}_{-0.00043}$	$\Omega_m h^2$	$0.1413^{+0.0037}_{-0.0035}$	k_{eq}	$0.01026^{+0.00027}_{-0.00026}$
$\Omega_c h^2$	$0.1181^{+0.0040}_{-0.0038}$	$\Omega_m h^3$	$0.078^{+0.015}_{-0.013}$	$100\theta_{\text{eq}}$	$0.822^{+0.017}_{-0.017}$
$100\theta_{\text{MC}}$	$1.04116^{+0.00085}_{-0.00084}$	σ_8	$0.779^{+0.034}_{-0.035}$	$100\theta_{\text{s,eq}}$	$0.4535^{+0.0085}_{-0.0086}$
τ	$0.0528^{+0.017}_{-0.0093}$	S_8	$0.97^{+0.12}_{-0.12}$	$H(0.15)$	61^{+9}_{-8}
Ω_K	$-0.041^{+0.035}_{-0.048}$	$\sigma_8 \Omega_m^{0.5}$	$0.534^{+0.066}_{-0.066}$	$D_M(0.15)$	779^{+100}_{-100}
$\ln(10^{10} A_s)$	$3.037^{+0.038}_{-0.026}$	$\sigma_8 \Omega_m^{0.25}$	$0.645^{+0.029}_{-0.033}$	$H(0.38)$	72^{+8}_{-7}
n_s	$0.971^{+0.012}_{-0.012}$	$\sigma_8/h^{0.5}$	$1.051^{+0.046}_{-0.054}$	$D_M(0.38)$	1819^{+200}_{-200}
y_{cal}	$0.99996^{+0.0065}_{-0.0066}$	$r_{\text{drag}} h$	81^{+10}_{-10}	$H(0.51)$	$79.6^{+7.9}_{-6.5}$
A_{217}^{CIB}	45^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.64^{+0.16}_{-0.16}$	$D_M(0.51)$	2332^{+300}_{-300}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 8.92	$H(0.61)$	$85.6^{+7.6}_{-6.2}$
A_{143}^{tSZ}	> 1.42	$10^9 A_s$	$2.083^{+0.081}_{-0.053}$	$D_M(0.61)$	2694^{+300}_{-300}
A_{100}^{PS}	248^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	$1.874^{+0.033}_{-0.031}$	$H(2.33)$	$229.5^{+6.3}_{-5.4}$
A_{143}^{PS}	41^{+20}_{-20}	D_{40}	1209^{+39}_{-37}	$D_M(2.33)$	6314^{+430}_{-450}
$A_{143 \times 217}^{\text{PS}}$	41^{+20}_{-20}	D_{220}	5748^{+100}_{-100}	$f\sigma_8(0.15)$	$0.525^{+0.047}_{-0.055}$
A_{217}^{PS}	116^{+30}_{-30}	D_{810}	2532^{+37}_{-35}	$\sigma_8(0.15)$	$0.707^{+0.041}_{-0.042}$
A^{kSZ}	< 8.60	D_{1420}	815^{+12}_{-12}	$f\sigma_8(0.38)$	$0.509^{+0.019}_{-0.027}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.6}$	D_{2000}	$232.6^{+4.1}_{-4.2}$	$\sigma_8(0.38)$	$0.612^{+0.046}_{-0.047}$
A_{143}^{dustTT}	$10.6^{+4.6}_{-4.5}$	$n_{\text{s},0.002}$	$0.971^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.492^{+0.013}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.1^{+8.3}_{-8.3}$	Y_{P}	$0.24548^{+0.00019}_{-0.00017}$	$\sigma_8(0.51)$	$0.567^{+0.047}_{-0.047}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24681^{+0.00019}_{-0.00017}$	$f\sigma_8(0.61)$	$0.477^{+0.012}_{-0.011}$
A_{100}^{dustTE}	$0.113^{+0.099}_{-0.094}$	$10^5 \text{D}/\text{H}$	$2.544^{+0.079}_{-0.080}$	$\sigma_8(0.61)$	$0.536^{+0.047}_{-0.047}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.077}_{-0.074}$	Age/Gyr	$15.2^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	$0.267^{+0.026}_{-0.026}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.46^{+0.80}_{-0.79}$	$\sigma_8(2.33)$	$0.268^{+0.033}_{-0.030}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	r_*	$144.76^{+0.81}_{-0.83}$	f_{2000}^{143}	26^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.20}$	$100\theta_*$	$1.04132^{+0.00083}_{-0.00082}$	$f_{2000}^{143 \times 217}$	30^{+5}_{-5}
A_{217}^{dustTE}	$2.06^{+0.69}_{-0.67}$	$D_M(z_*)/\text{Gpc}$	$13.901^{+0.074}_{-0.076}$	f_{2000}^{217}	$104.7^{+4.9}_{-5.1}$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	z_{drag}	$1060.33^{+0.86}_{-0.82}$	χ_{simall}^2	$396.3 (\nu: 0.9)$
c_{217}	$0.9981^{+0.0016}_{-0.0016}$	r_{drag}	$147.35^{+0.78}_{-0.79}$	χ_{lowl}^2	$21.53 (\nu: 0.2)$
H_0	55^{+10}_{-8}	k_{D}	$0.14077^{+0.00080}_{-0.00077}$	χ_{plik}^2	$2353.2 (\nu: 16.0)$
Ω_Λ	$0.569^{+0.099}_{-0.12}$	$100\theta_{\text{D}}$	$0.16055^{+0.00047}_{-0.00048}$	χ_{prior}^2	$11.2 (\nu: 9.7)$
Ω_{m}	$0.47^{+0.17}_{-0.13}$	z_{eq}	3361^{+88}_{-85}	χ_{CMB}^2	$2771.0 (\nu: 17.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2782.22; R - 1 = 0.01621$$

16.5 base_omegak_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02258	$0.02258^{+0.00077}_{-0.00071}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.555	$0.554^{+0.087}_{-0.087}$ (+0.1 σ)	$H(0.15)$	58.1	58^{+10}_{-10} (−0.0 σ)
$\Omega_c h^2$	0.1175	$0.1173^{+0.0058}_{-0.0057}$ (+0.0 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6521	$0.650^{+0.035}_{-0.043}$ (+0.1 σ)	$D_M(0.15)$	820	823^{+200}_{-200} (+0.1 σ)
$100\theta_{MC}$	1.04131	$1.0414^{+0.0013}_{-0.0013}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	1.065	$1.062^{+0.054}_{-0.069}$ (+0.1 σ)	$H(0.38)$	69.6	70^{+10}_{-9} (−0.0 σ)
τ	0.0492	$0.049^{+0.020}_{-0.025}$ (+0.1 σ)	$r_{drag} h$	76.5	77^{+20}_{-20} (−0.1 σ)	$D_M(0.38)$	1904	1909^{+400}_{-300} (+0.1 σ)
Ω_K	−0.055	$−0.058^{+0.052}_{-0.082}$ (−0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.682	$2.68^{+0.21}_{-0.22}$ (+0.0 σ)	$H(0.51)$	77.1	77^{+10}_{-8} (−0.0 σ)
$\ln(10^{10} A_s)$	3.0265	$3.026^{+0.042}_{-0.052}$ (+0.0 σ)	z_{re}	6.91	$6.9^{+2.0}_{-2.9}$ (+0.1 σ)	$D_M(0.51)$	2435	2439^{+400}_{-400} (+0.1 σ)
n_s	0.9738	$0.973^{+0.018}_{-0.016}$ (+0.2 σ)	$10^9 A_s$	2.063	$2.062^{+0.088}_{-0.10}$ (+0.0 σ)	$H(0.61)$	83.2	83^{+10}_{-8} (−0.0 σ)
y_{cal}	0.9998	$1.0000^{+0.0063}_{-0.0061}$ (−0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8692	$1.869^{+0.035}_{-0.033}$ (−0.1 σ)	$D_M(0.61)$	2807	2811^{+500}_{-400} (+0.1 σ)
A_{100}^{PS}	220	229^{+70}_{-60} (−0.8 σ)	D_{40}	1196.9	1199^{+43}_{-46} (−0.2 σ)	$H(2.33)$	227.6	$227.5^{+8.2}_{-7.6}$ (−0.0 σ)
A_{143}^{PS}	40	33^{+20}_{-20} (−1.0 σ)	D_{220}	5727	5735^{+110}_{-110} (−0.2 σ)	$D_M(2.33)$	6470	6473^{+590}_{-590} (+0.0 σ)
A_{217}^{PS}	107.4	104^{+30}_{-40} (−1.0 σ)	D_{810}	2528.2	2527^{+36}_{-33} (−0.1 σ)	$f\sigma_8(0.15)$	0.540	$0.539^{+0.057}_{-0.069}$ (+0.1 σ)
A_{217}^{CIB}	38.2	37^{+20}_{-20} (−1.3 σ)	D_{1420}	814.4	814^{+14}_{-12} (−0.0 σ)	$\sigma_8(0.15)$	0.691	$0.689^{+0.054}_{-0.067}$ (−0.0 σ)
A_{143}^{tSZ}	6.27	< 8.82 (−0.8 σ)	D_{2000}	232.9	$232.5^{+5.9}_{-5.1}$ (+0.1 σ)	$f\sigma_8(0.38)$	0.5149	$0.512^{+0.021}_{-0.033}$ (+0.1 σ)
$r_{143 \times 217}^{PS}$	0.742	> 0.359	$n_{s,0.002}$	0.9738	$0.973^{+0.018}_{-0.016}$ (+0.2 σ)	$\sigma_8(0.38)$	0.595	$0.594^{+0.061}_{-0.070}$ (−0.0 σ)
$r_{143 \times 217}^{CIB}$	0.69	—	Y_P	0.245473	$0.24547^{+0.00033}_{-0.00030}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4935	$0.491^{+0.016}_{-0.018}$ (+0.0 σ)
$\xi^{tSZ \times CIB}$	0.65	—	Y_P^{BBN}	0.246800	$0.24680^{+0.00033}_{-0.00030}$ (+0.1 σ)	$\sigma_8(0.51)$	0.550	$0.549^{+0.061}_{-0.070}$ (−0.0 σ)
A^{kSZ}	0.0	—	$10^5 D/H$	2.548	$2.55^{+0.13}_{-0.14}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.4758	$0.474^{+0.016}_{-0.022}$ (+0.0 σ)
A_{100}^{dust}	0.999	$1.01^{+0.51}_{-0.50}$	Age/Gyr	15.64	$15.7^{+1.6}_{-1.5}$ (+0.0 σ)	$\sigma_8(0.61)$	0.519	$0.518^{+0.062}_{-0.069}$ (−0.0 σ)
A_{143}^{dust}	0.955	$0.95^{+0.46}_{-0.44}$	z_*	1089.44	$1089.4^{+1.3}_{-1.3}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2571	$0.257^{+0.034}_{-0.037}$ (−0.0 σ)
A_{217}^{dust}	0.980	$0.98^{+0.26}_{-0.26}$	r_*	144.92	$145.0^{+1.3}_{-1.2}$ (−0.0 σ)	$\sigma_8(2.33)$	0.2560	$0.256^{+0.042}_{-0.042}$ (−0.0 σ)
$A_{143 \times 217}^{dust}$	1.019	$1.02^{+0.44}_{-0.41}$	$100\theta_*$	1.04147	$1.0415^{+0.0013}_{-0.0013}$ (+0.2 σ)	f_{2000}^{143}	25.5	26^{+9}_{-9} (−0.2 σ)
c_{100}	0.99778	$0.9976^{+0.0027}_{-0.0028}$ (−3.3 σ)	$D_M(z_*)/\text{Gpc}$	13.915	$13.92^{+0.12}_{-0.11}$ (−0.1 σ)	f_{2000}^{217}	103.5	$104.1^{+6.2}_{-6.1}$ (−0.4 σ)
c_{217}	1.00072	$1.0008^{+0.0041}_{-0.0040}$ (+4.2 σ)	z_{drag}	1060.24	$1060.2^{+1.5}_{-1.4}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	28.7	29^{+7}_{-7} (−0.4 σ)
H_0	51.8	52^{+10}_{-10} (−0.0 σ)	r_{drag}	147.53	$147.6^{+1.3}_{-1.2}$ (−0.1 σ)	χ_{simall}^2	395.53	$396.7 (\nu: 1.1)$ (−0.1 σ)
Ω_Λ	0.532	$0.53^{+0.14}_{-0.19}$ (−0.1 σ)	k_D	0.14056	$0.1405^{+0.0013}_{-0.0014}$ (+0.1 σ)	χ_{lowl}^2	20.98	$21.28 (\nu: 0.2)$ (−0.2 σ)
Ω_m	0.523	$0.53^{+0.27}_{-0.19}$ (+0.1 σ)	$100\theta_D$	0.16061	$0.16064^{+0.00078}_{-0.00076}$ (−0.1 σ)	$\chi_{CamSpec}^2$	7045.3	$7059.5 (\nu: 14.0)$
$\Omega_m h^2$	0.1407	$0.1405^{+0.0054}_{-0.0053}$ (+0.0 σ)	z_{eq}	3347	3343^{+130}_{-130} (+0.0 σ)	χ_{prior}^2	1.5	$7.1 (\nu: 5.5)$ (+0.0 σ)
$\Omega_m h^3$	0.0730	$0.073^{+0.019}_{-0.016}$ (−0.0 σ)	k_{eq}	0.010216	$0.01020^{+0.00039}_{-0.00039}$ (+0.0 σ)	χ_{CMB}^2	7461.8	$7477.5 (\nu: 15.3)$ (+1102.4 σ)
σ_8	0.767	$0.765^{+0.045}_{-0.058}$ (−0.0 σ)	$100\theta_{eq}$	0.8241	$0.825^{+0.026}_{-0.024}$ (+0.0 σ)			
S_8	1.013	$1.01^{+0.16}_{-0.16}$ (+0.1 σ)	$100\theta_{s,eq}$	0.4549	$0.455^{+0.013}_{-0.012}$ (−0.0 σ)			

Best-fit $\chi_{eff}^2 = 7463.28$; $\Delta\chi_{eff}^2 = 6293.45$; $\bar{\chi}_{eff}^2 = 7484.59$; $\Delta\bar{\chi}_{eff}^2 = 6292.69$; $R - 1 = 0.03021$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.53 (Δ 0.01) commander_dx12_v3.2.29: 20.98 (Δ 0.01) CamSpec like_10.7HM: 7045.30

16.6 base_omegak_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02258^{+0.00076}_{-0.00069} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.551^{+0.085}_{-0.084} \quad (+0.0\sigma)$	$H(0.15)$	$59^{+10}_{-9} \quad (-0.0\sigma)$
$\Omega_{\text{c}} h^2$	$0.1173^{+0.0059}_{-0.0058} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.651^{+0.036}_{-0.043} \quad (+0.0\sigma)$	$D_{\text{M}}(0.15)$	$814^{+200}_{-100} \quad (+0.0\sigma)$
$100\theta_{\text{MC}}$	$1.0414^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.063^{+0.055}_{-0.070} \quad (+0.0\sigma)$	$H(0.38)$	$70^{+10}_{-8} \quad (-0.0\sigma)$
τ	$0.0532^{+0.015}_{-0.0099} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$78^{+20}_{-10} \quad (-0.0\sigma)$	$D_{\text{M}}(0.38)$	$1891^{+300}_{-300} \quad (+0.0\sigma)$
Ω_K	$-0.054^{+0.048}_{-0.076} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.68^{+0.21}_{-0.22} \quad (+0.0\sigma)$	$H(0.51)$	$78^{+9}_{-8} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.034^{+0.037}_{-0.026} \quad (-0.1\sigma)$	z_{re}	$< 8.79 \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$2418^{+400}_{-400} \quad (+0.0\sigma)$
n_{s}	$0.973^{+0.018}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_{\text{s}}$	$2.078^{+0.078}_{-0.053} \quad (-0.1\sigma)$	$H(0.61)$	$83.7^{+9.1}_{-7.6} \quad (-0.0\sigma)$
y_{cal}	$1.0000^{+0.0063}_{-0.0061} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.868^{+0.035}_{-0.032} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2788^{+400}_{-400} \quad (+0.0\sigma)$
A_{100}^{PS}	$229^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1200^{+44}_{-45} \quad (-0.2\sigma)$	$H(2.33)$	$227.7^{+8.0}_{-7.6} \quad (-0.0\sigma)$
A_{143}^{PS}	$33^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5734^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$6444^{+570}_{-550} \quad (+0.0\sigma)$
A_{217}^{PS}	$104^{+30}_{-40} \quad (-1.0\sigma)$	D_{810}	$2527^{+36}_{-33} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.537^{+0.057}_{-0.068} \quad (+0.0\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.3\sigma)$	D_{1420}	$814^{+14}_{-12} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.695^{+0.050}_{-0.060} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.8\sigma)$	D_{2000}	$232.5^{+5.8}_{-4.9} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.513^{+0.022}_{-0.034} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	> 0.357	$n_{\text{s},0.002}$	$0.973^{+0.018}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.599^{+0.057}_{-0.064} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24548^{+0.00033}_{-0.00029} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.493^{+0.015}_{-0.019} \quad (-0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24680^{+0.00033}_{-0.00029} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.554^{+0.058}_{-0.064} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.55^{+0.13}_{-0.13} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.476^{+0.015}_{-0.017} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	Age/Gyr	$15.6^{+1.6}_{-1.5} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.523^{+0.058}_{-0.063} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.95^{+0.46}_{-0.44}$	z_*	$1089.4^{+1.3}_{-1.3} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.259^{+0.032}_{-0.034} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.25}_{-0.26}$	r_*	$145.0^{+1.2}_{-1.2} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.259^{+0.039}_{-0.039} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.02^{+0.44}_{-0.42}$	$100\theta_*$	$1.0415^{+0.0014}_{-0.0014} \quad (+0.2\sigma)$	f_{2000}^{143}	$26^{+9}_{-9} \quad (-0.2\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0028} \quad (-3.3\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.92^{+0.12}_{-0.11} \quad (-0.1\sigma)$	f_{2000}^{217}	$104.1^{+6.0}_{-5.9} \quad (-0.3\sigma)$
c_{217}	$1.0008^{+0.0042}_{-0.0039} \quad (+4.3\sigma)$	z_{drag}	$1060.2^{+1.5}_{-1.3} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$29^{+6}_{-7} \quad (-0.4\sigma)$
H_0	$53^{+10}_{-10} \quad (-0.0\sigma)$	r_{drag}	$147.6^{+1.3}_{-1.2} \quad (-0.1\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.8) \quad (-0.0\sigma)$
Ω_{Λ}	$0.54^{+0.13}_{-0.18} \quad (-0.1\sigma)$	k_{D}	$0.1405^{+0.0013}_{-0.0014} \quad (+0.1\sigma)$	χ_{lowl}^2	$21.27 \quad (\nu: 0.2) \quad (-0.2\sigma)$
Ω_{m}	$0.52^{+0.25}_{-0.17} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16064^{+0.00073}_{-0.00075} \quad (-0.1\sigma)$	χ_{CamSpec}^2	$7059.4 \quad (\nu: 13.9)$
$\Omega_{\text{m}} h^2$	$0.1405^{+0.0055}_{-0.0053} \quad (+0.0\sigma)$	z_{eq}	$3342^{+130}_{-130} \quad (+0.0\sigma)$	χ_{prior}^2	$7.1 \quad (\nu: 5.4) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.074^{+0.018}_{-0.016} \quad (-0.0\sigma)$	k_{eq}	$0.01020^{+0.00040}_{-0.00039} \quad (+0.0\sigma)$	χ_{CMB}^2	$7477.1 \quad (\nu: 14.7) \quad (+1110.2\sigma)$
σ_8	$0.769^{+0.042}_{-0.050} \quad (-0.0\sigma)$	$100\theta_{\text{eq}}$	$0.825^{+0.026}_{-0.025} \quad (+0.0\sigma)$		
S_8	$1.01^{+0.16}_{-0.15} \quad (+0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.456^{+0.013}_{-0.013} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 7484.13; \Delta \bar{\chi}_{\text{eff}}^2 = 6292.70; R - 1 = 0.03650$$

16.7 base_omegak_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022535	$0.02254^{+0.00047}_{-0.00045} \quad (-0.4\sigma)$	σ_8	0.7817	$0.777^{+0.036}_{-0.044} \quad (+0.2\sigma)$	$100\theta_{\text{eq}}$	0.8226	$0.822^{+0.017}_{-0.017} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.11783	$0.1179^{+0.0041}_{-0.0038} \quad (-0.1\sigma)$	S_8	0.943	$0.95^{+0.13}_{-0.14} \quad (-0.6\sigma)$	$100\theta_{\text{s,eq}}$	0.4541	$0.4540^{+0.0086}_{-0.0087} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	1.04110	$1.04111^{+0.00083}_{-0.00082} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.516	$0.522^{+0.073}_{-0.075} \quad (-0.6\sigma)$	$H(0.15)$	62.7	$62^{+10}_{-9} \quad (+0.5\sigma)$
τ	0.0509	$0.048^{+0.021}_{-0.029} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6353	$0.637^{+0.031}_{-0.038} \quad (-0.7\sigma)$	$D_{\text{M}}(0.15)$	754	$766^{+100}_{-100} \quad (-0.5\sigma)$
Ω_K	-0.0320	$-0.037^{+0.037}_{-0.053} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	1.037	$1.039^{+0.049}_{-0.063} \quad (-0.6\sigma)$	$H(0.38)$	73.7	$73^{+10}_{-8} \quad (+0.5\sigma)$
$\ln(10^{10} A_{\text{s}})$	3.030	$3.025^{+0.043}_{-0.059} \quad (-0.2\sigma)$	$r_{\text{drag}} h$	83.8	$83^{+20}_{-10} \quad (+0.5\sigma)$	$D_{\text{M}}(0.38)$	1769	$1793^{+300}_{-300} \quad (-0.5\sigma)$
n_{s}	0.9719	$0.971^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.591	$2.60^{+0.18}_{-0.19} \quad (-0.6\sigma)$	$H(0.51)$	80.9	$80^{+9}_{-7} \quad (+0.5\sigma)$
y_{cal}	0.9997	$1.0000^{+0.0063}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	7.15	$6.8^{+2.1}_{-3.4} \quad (-0.0\sigma)$	$D_{\text{M}}(0.51)$	2272	$2301^{+300}_{-300} \quad (-0.5\sigma)$
A_{100}^{PS}	225	$230^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\text{s}}$	2.070	$2.060^{+0.091}_{-0.12} \quad (-0.2\sigma)$	$H(0.61)$	86.9	$86.4^{+9.1}_{-7.0} \quad (+0.4\sigma)$
A_{143}^{PS}	42.6	$34^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8700	$1.871^{+0.029}_{-0.031} \quad (-0.3\sigma)$	$D_{\text{M}}(0.61)$	2629	$2660^{+400}_{-400} \quad (-0.5\sigma)$
A_{217}^{PS}	106.3	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	1204.1	$1205^{+37}_{-36} \quad (-0.2\sigma)$	$H(2.33)$	230.0	$229.8^{+6.9}_{-5.8} \quad (+0.3\sigma)$
A_{217}^{CIB}	38.8	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	5727	$5733^{+99}_{-100} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	6232	$6269^{+480}_{-510} \quad (-0.4\sigma)$
A_{143}^{tSZ}	5.71	$< 8.94 \quad (-0.9\sigma)$	D_{810}	2529.7	$2529^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.511	$0.515^{+0.053}_{-0.063} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\text{PS}}$	0.718	> 0.354	D_{1420}	814.9	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	0.7114	$0.706^{+0.043}_{-0.052} \quad (+0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	0.74	—	D_{2000}	232.05	$231.9^{+4.5}_{-4.5} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.5031	$0.503^{+0.022}_{-0.033} \quad (-0.7\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.73	—	$n_{\text{s},0.002}$	0.9719	$0.971^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	0.619	$0.613^{+0.049}_{-0.057} \quad (+0.3\sigma)$
A^{kSZ}	0.9	—	Y_{P}	0.245457	$0.24546^{+0.00020}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4890	$0.488^{+0.015}_{-0.020} \quad (-0.6\sigma)$
A_{100}^{dust}	1.01	$1.02^{+0.52}_{-0.49}$	$Y_{\text{P}}^{\text{BBN}}$	0.246784	$0.24678^{+0.00020}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.574	$0.569^{+0.051}_{-0.058} \quad (+0.3\sigma)$
A_{143}^{dust}	0.959	$0.95^{+0.45}_{-0.44}$	$10^5 \text{D}/\text{H}$	2.556	$2.556^{+0.084}_{-0.085} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	0.4757	$0.474^{+0.013}_{-0.015} \quad (-0.4\sigma)$
A_{217}^{dust}	0.981	$0.98^{+0.27}_{-0.26}$	Age/Gyr	15.00	$15.1^{+1.3}_{-1.3} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.543	$0.538^{+0.052}_{-0.057} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\text{dust}}$	1.002	$1.01^{+0.40}_{-0.41}$	z_*	1089.53	$1089.53^{+0.84}_{-0.79} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	0.2710	$0.268^{+0.029}_{-0.031} \quad (+0.4\sigma)$
c_{100}	0.99779	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	144.87	$144.85^{+0.82}_{-0.87} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	0.2727	$0.269^{+0.037}_{-0.036} \quad (+0.4\sigma)$
c_{217}	1.00089	$1.0008^{+0.0042}_{-0.0039} \quad (+4.4\sigma)$	$100\theta_*$	1.04127	$1.04127^{+0.00082}_{-0.00080} \quad (-0.1\sigma)$	f_{2000}^{143}	26.9	$27^{+8}_{-8} \quad (+0.1\sigma)$
c_{TE}	0.9927	$0.992^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.913	$13.911^{+0.076}_{-0.082} \quad (+0.3\sigma)$	f_{2000}^{217}	104.3	$104.6^{+5.2}_{-5.2} \quad (-0.0\sigma)$
c_{EE}	0.9899	$0.990^{+0.013}_{-0.013}$	z_{drag}	1060.16	$1060.17^{+0.95}_{-0.92} \quad (-0.5\sigma)$	$f_{2000}^{143 \times 217}$	29.5	$30^{+6}_{-6} \quad (-0.0\sigma)$
H_0	56.9	$56^{+10}_{-10} \quad (+0.5\sigma)$	r_{drag}	147.49	$147.47^{+0.82}_{-0.86} \quad (+0.4\sigma)$	χ_{small}^2	395.63	$396.7 \quad (\nu: 1.4) \quad (+0.0\sigma)$
Ω_{Λ}	0.596	$0.58^{+0.11}_{-0.14} \quad (+0.5\sigma)$	k_{D}	0.14058	$0.14059^{+0.00089}_{-0.00090} \quad (-0.6\sigma)$	χ_{lowl}^2	21.16	$21.40 \quad (\nu: 0.2) \quad (-0.2\sigma)$
Ω_{m}	0.436	$0.45^{+0.20}_{-0.15} \quad (-0.5\sigma)$	$100\theta_{\text{D}}$	0.16063	$0.16063^{+0.00052}_{-0.00054} \quad (+0.5\sigma)$	χ_{CamSpec}^2	11495.3	$11511.3 \quad (\nu: 15.1)$
$\Omega_{\text{m}} h^2$	0.14101	$0.1411^{+0.0038}_{-0.0035} \quad (-0.2\sigma)$	z_{eq}	3354	$3356^{+90}_{-85} \quad (-0.2\sigma)$	χ_{prior}^2	1.9	$7.7 \quad (\nu: 5.4) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	0.0802	$0.079^{+0.017}_{-0.014} \quad (+0.4\sigma)$	k_{eq}	0.010238	$0.01024^{+0.00027}_{-0.00026} \quad (-0.2\sigma)$	χ_{CMB}^2	11912.1	$11929.5 \quad (\nu: 16.8) \quad (+1549.1\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11914.02$; $\Delta\chi_{\text{eff}}^2 = 9159.51$; $\bar{\chi}_{\text{eff}}^2 = 11937.16$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9154.56$; $R - 1 = 0.03285$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.63 (Δ 0.08) commander_dx12_v3.2.29: 21.16 (Δ -0.00) CamSpec like_10.7HM_1400_unified: 11495.33

16.8 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02253^{+0.00047}_{-0.00046} \quad (-0.4\sigma)$	σ_8	$0.782^{+0.033}_{-0.037} \quad (+0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.016}_{-0.017} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1179^{+0.0040}_{-0.0037} \quad (-0.1\sigma)$	S_8	$0.95^{+0.13}_{-0.14} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4540^{+0.0084}_{-0.0087} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04111^{+0.00081}_{-0.00082} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.518^{+0.070}_{-0.074} \quad (-0.6\sigma)$	$H(0.15)$	$63^{+10}_{-9} \quad (+0.5\sigma)$
τ	$0.0524^{+0.016}_{-0.0093} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.636^{+0.031}_{-0.038} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.15)$	$757^{+100}_{-100} \quad (-0.5\sigma)$
Ω_K	$-0.034^{+0.035}_{-0.049} \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	$1.038^{+0.051}_{-0.063} \quad (-0.6\sigma)$	$H(0.38)$	$74^{+10}_{-8} \quad (+0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.034^{+0.036}_{-0.024} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$84^{+20}_{-10} \quad (+0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1773^{+300}_{-300} \quad (-0.5\sigma)$
n_{s}	$0.971^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.60^{+0.17}_{-0.19} \quad (-0.6\sigma)$	$H(0.51)$	$81^{+9}_{-7} \quad (+0.5\sigma)$
y_{cal}	$1.0000^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	$< 8.82 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$2277^{+300}_{-300} \quad (-0.5\sigma)$
A_{100}^{PS}	$230^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.077^{+0.077}_{-0.049} \quad (-0.2\sigma)$	$H(0.61)$	$86.9^{+8.9}_{-6.9} \quad (+0.5\sigma)$
A_{143}^{PS}	$34^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.871^{+0.030}_{-0.031} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2634^{+300}_{-300} \quad (-0.5\sigma)$
A_{217}^{PS}	$104^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1206^{+36}_{-36} \quad (-0.2\sigma)$	$H(2.33)$	$230.1^{+6.8}_{-5.8} \quad (+0.3\sigma)$
A_{217}^{CIB}	$37^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5731^{+97}_{-100} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$6236^{+470}_{-500} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.9\sigma)$	D_{810}	$2529^{+36}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.512^{+0.052}_{-0.063} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	> 0.357	D_{1420}	$815^{+13}_{-12} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.712^{+0.039}_{-0.045} \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$231.9^{+4.6}_{-4.6} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.503^{+0.022}_{-0.034} \quad (-0.7\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.971^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.619^{+0.046}_{-0.050} \quad (+0.4\sigma)$
A^{kSZ}	—	Y_{P}	$0.24546^{+0.00019}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.489^{+0.014}_{-0.020} \quad (-0.7\sigma)$
A_{100}^{dust}	$1.02^{+0.53}_{-0.49}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00020}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.574^{+0.048}_{-0.051} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.94^{+0.44}_{-0.44}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.556^{+0.086}_{-0.084} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.475^{+0.012}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$15.0^{+1.3}_{-1.3} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.544^{+0.048}_{-0.051} \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.01^{+0.39}_{-0.42}$	z_*	$1089.53^{+0.86}_{-0.77} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.271^{+0.027}_{-0.028} \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.86^{+0.81}_{-0.87} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.273^{+0.035}_{-0.033} \quad (+0.4\sigma)$
c_{217}	$1.0008^{+0.0043}_{-0.0039} \quad (+4.4\sigma)$	$100\theta_*$	$1.04128^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	f_{2000}^{143}	$27^{+8}_{-8} \quad (+0.1\sigma)$
c_{TE}	$0.992^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.912^{+0.075}_{-0.082} \quad (+0.4\sigma)$	f_{2000}^{217}	$104.6^{+5.3}_{-5.1} \quad (-0.0\sigma)$
c_{EE}	$0.990^{+0.012}_{-0.012}$	z_{drag}	$1060.16^{+0.92}_{-0.91} \quad (-0.5\sigma)$	$f_{2000}^{143 \times 217}$	$30^{+6}_{-6} \quad (+0.0\sigma)$
H_0	$57^{+10}_{-9} \quad (+0.5\sigma)$	r_{drag}	$147.48^{+0.81}_{-0.87} \quad (+0.4\sigma)$	χ_{small}^2	$396.2 \quad (\nu: 0.6) \quad (-0.1\sigma)$
Ω_{Λ}	$0.59^{+0.10}_{-0.12} \quad (+0.5\sigma)$	k_{D}	$0.14058^{+0.00091}_{-0.00090} \quad (-0.6\sigma)$	χ_{lowl}^2	$21.43 \quad (\nu: 0.2) \quad (-0.2\sigma)$
Ω_{m}	$0.44^{+0.17}_{-0.14} \quad (-0.5\sigma)$	$100\theta_{\mathrm{D}}$	$0.16064^{+0.00052}_{-0.00052} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11511.3 \quad (\nu: 15.3)$
$\Omega_{\mathrm{m}} h^2$	$0.1410^{+0.0038}_{-0.0035} \quad (-0.2\sigma)$	z_{eq}	$3355^{+90}_{-83} \quad (-0.2\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.5) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.080^{+0.017}_{-0.014} \quad (+0.5\sigma)$	k_{eq}	$0.01024^{+0.00027}_{-0.00025} \quad (-0.2\sigma)$	χ_{CMB}^2	$11929.0 \quad (\nu: 16.2) \quad (+1566.8\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11936.68; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9154.46; R - 1 = 0.03528$$

16.9 base_omegak_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02216^{+0.00060}_{-0.00057}$	$\sigma_8/h^{0.5}$	0.9841	$0.984^{+0.034}_{-0.031}$	$D_M(0.38)$	1524.4	1525^{+36}_{-35}
$\Omega_c h^2$	0.1199	$0.1198^{+0.0056}_{-0.0053}$	$r_{\text{drag}} h$	99.95	$99.9^{+2.7}_{-2.5}$	$H(0.51)$	89.99	$89.9^{+1.8}_{-1.7}$
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.431	$2.431^{+0.078}_{-0.075}$	$D_M(0.51)$	1974.9	1976^{+44}_{-43}
τ	0.0527	$0.053^{+0.021}_{-0.020}$	z_{re}	7.56	$7.6^{+2.0}_{-2.2}$	$H(0.61)$	95.61	$95.6^{+1.9}_{-1.8}$
Ω_K	0.0012	$0.0012^{+0.0065}_{-0.0065}$	$10^9 A_s$	2.091	$2.091^{+0.096}_{-0.087}$	$D_M(0.61)$	2298.2	2299^{+50}_{-50}
$\ln(10^{10} A_s)$	3.0401	$3.040^{+0.045}_{-0.042}$	$10^9 A_s e^{-2\tau}$	1.8815	$1.881^{+0.036}_{-0.035}$	$H(2.33)$	236.58	$236.5^{+4.6}_{-4.5}$
n_s	0.9651	$0.965^{+0.015}_{-0.015}$	D_{40}	1228.2	1229^{+41}_{-40}	$D_M(2.33)$	5748	5751^{+96}_{-97}
y_{cal}	1.0006	$1.0006^{+0.0065}_{-0.0063}$	D_{220}	5714	5717^{+100}_{-100}	$f\sigma_8(0.15)$	0.4559	$0.456^{+0.022}_{-0.021}$
A_{217}^{CIB}	49.5	48^{+20}_{-20}	D_{810}	2538.1	2537^{+35}_{-35}	$\sigma_8(0.15)$	0.7492	$0.749^{+0.025}_{-0.023}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.19	—	D_{1420}	815.8	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4745	$0.474^{+0.019}_{-0.018}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.09	$229.7^{+4.8}_{-4.6}$	$\sigma_8(0.38)$	0.6643	$0.664^{+0.022}_{-0.020}$
A_{100}^{PS}	256	263^{+70}_{-70}	$n_{s,0.002}$	0.9651	$0.965^{+0.015}_{-0.015}$	$f\sigma_8(0.51)$	0.4733	$0.473^{+0.018}_{-0.017}$
A_{143}^{PS}	48.0	49^{+20}_{-20}	Y_{P}	0.245317	$0.24530^{+0.00023}_{-0.00027}$	$\sigma_8(0.51)$	0.6217	$0.621^{+0.020}_{-0.019}$
$A_{143 \times 217}^{\text{PS}}$	43.7	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246644	$0.24663^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	0.4684	$0.468^{+0.017}_{-0.016}$
A_{217}^{PS}	118.1	115^{+30}_{-30}	10^5D/H	2.622	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	0.5916	$0.591^{+0.019}_{-0.018}$
A^{kSZ}	0.0	—	Age/Gyr	13.757	$13.76^{+0.25}_{-0.25}$	$f\sigma_8(2.33)$	0.2983	$0.2982^{+0.0096}_{-0.0088}$
A_{100}^{dustTT}	8.90	$9.0^{+4.7}_{-4.8}$	z_*	1090.15	$1090.2^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	0.3078	$0.308^{+0.011}_{-0.0098}$
A_{143}^{dustTT}	10.77	$10.7^{+4.6}_{-4.5}$	r_*	144.61	$144.6^{+1.2}_{-1.3}$	f_{2000}^{143}	30.7	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.2}_{-8.7}$	$100\theta_*$	1.04110	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.4	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.890	$13.89^{+0.11}_{-0.12}$	f_{2000}^{217}	107.87	$108.1^{+5.0}_{-4.8}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.2}$	χ_{small}^2	395.85	$397.0 (\nu: 1.4)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.34	$147.4^{+1.2}_{-1.3}$	χ_{lowl}^2	23.34	$23.6 (\nu: 1.1)$
H_0	67.84	$67.8^{+1.8}_{-1.7}$	k_{D}	0.14046	$0.1404^{+0.0013}_{-0.0013}$	χ_{plik}^2	759.6	$772.4 (\nu: 14.7)$
Ω_Λ	0.6887	$0.689^{+0.019}_{-0.020}$	$100\theta_{\text{D}}$	0.16102	$0.16106^{+0.00069}_{-0.00069}$	$\chi_{6\text{DF}}^2$	0.011	$0.056 (\nu: 0.0)$
Ω_{m}	0.3101	$0.310^{+0.019}_{-0.018}$	z_{eq}	3395	3392^{+130}_{-120}	χ_{MGS}^2	1.41	$1.48 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	0.1427	$0.1426^{+0.0053}_{-0.0050}$	k_{eq}	0.010361	$0.01035^{+0.00039}_{-0.00037}$	χ_{DR12BAO}^2	3.66	$4.6 (\nu: 1.7)$
$\Omega_{\text{m}} h^3$	0.09681	$0.0967^{+0.0047}_{-0.0044}$	$100\theta_{\text{eq}}$	0.8141	$0.815^{+0.023}_{-0.023}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.9)$
σ_8	0.8106	$0.810^{+0.028}_{-0.025}$	$100\theta_{\text{s,eq}}$	0.4499	$0.450^{+0.012}_{-0.012}$	χ_{BAO}^2	5.08	$6.1 (\nu: 1.3)$
S_8	0.8241	$0.824^{+0.043}_{-0.041}$	$H(0.15)$	73.13	$73.1^{+1.7}_{-1.7}$	χ_{CMB}^2	1178.8	$1192.9 (\nu: 15.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4514	$0.451^{+0.024}_{-0.022}$	$D_M(0.15)$	639.1	639^{+16}_{-16}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6049	$0.605^{+0.025}_{-0.023}$	$H(0.38)$	83.26	$83.2^{+1.8}_{-1.7}$			

Best-fit $\chi_{\text{eff}}^2 = 1185.37$; $\bar{\chi}_{\text{eff}}^2 = 1206.26$; $R - 1 = 0.01197$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.66 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3.2.29: 23.34 plik_rd12_HM_v22.TT: 759.63

16.10 base_omegak_plikHM_TT_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.02221	$0.02217^{+0.00061}_{-0.00057}$	$\sigma_8/h^{0.5}$	0.9849	$0.986^{+0.025}_{-0.025}$	$D_{\text{M}}(0.38)$	1525.9	1526^{+35}_{-35}
$\Omega_{\text{c}}h^2$	0.11978	$0.1198^{+0.0049}_{-0.0048}$	$r_{\text{drag}}h$	99.84	$99.8^{+2.6}_{-2.4}$	$H(0.51)$	89.92	$89.9^{+1.9}_{-1.7}$
$100\theta_{\text{MC}}$	1.04088	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.435	$2.436^{+0.058}_{-0.057}$	$D_{\text{M}}(0.51)$	1976.7	1977^{+44}_{-46}
τ	0.0539	$0.054^{+0.020}_{-0.019}$	z_{re}	7.68	$7.7^{+1.9}_{-2.0}$	$H(0.61)$	95.54	$95.5^{+1.9}_{-1.7}$
Ω_K	0.0010	$0.0011^{+0.0065}_{-0.0064}$	$10^9 A_{\text{s}}$	2.095	$2.097^{+0.080}_{-0.075}$	$D_{\text{M}}(0.61)$	2300	2301^{+50}_{-52}
$\ln(10^{10} A_{\text{s}})$	3.0422	$3.043^{+0.038}_{-0.036}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8811	$1.882^{+0.033}_{-0.032}$	$H(2.33)$	236.49	$236.5^{+4.2}_{-4.3}$
n_{s}	0.9649	$0.964^{+0.014}_{-0.014}$	D_{40}	1229.1	1231^{+38}_{-37}	$D_{\text{M}}(2.33)$	5752	5752^{+93}_{-99}
y_{cal}	1.0004	$1.0007^{+0.0067}_{-0.0063}$	D_{220}	5718	5721^{+100}_{-100}	$f\sigma_8(0.15)$	0.4564	$0.457^{+0.017}_{-0.017}$
A_{217}^{CIB}	49.4	48^{+20}_{-20}	D_{810}	2537.5	2538^{+34}_{-34}	$\sigma_8(0.15)$	0.7493	$0.750^{+0.020}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.12	—	D_{1420}	815.6	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4749	$0.475^{+0.015}_{-0.014}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.07	$229.8^{+4.7}_{-4.7}$	$\sigma_8(0.38)$	0.6643	$0.665^{+0.018}_{-0.017}$
A_{100}^{PS}	257	263^{+70}_{-70}	$n_{\text{s},0.002}$	0.9649	$0.964^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	0.4736	$0.474^{+0.013}_{-0.013}$
A_{143}^{PS}	46.7	49^{+20}_{-20}	Y_{P}	0.245329	$0.24531^{+0.00024}_{-0.00027}$	$\sigma_8(0.51)$	0.6217	$0.622^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	41.4	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246656	$0.24663^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	0.4687	$0.469^{+0.013}_{-0.013}$
A_{217}^{PS}	117.7	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.616	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	0.5916	$0.592^{+0.016}_{-0.016}$
A^{kSZ}	0.0	—	Age/Gyr	13.766	$13.77^{+0.24}_{-0.26}$	$f\sigma_8(2.33)$	0.2983	$0.2985^{+0.0083}_{-0.0079}$
$A_{100}^{\text{dust}TT}$	8.8	$8.9^{+5.1}_{-4.9}$	z_*	1090.11	$1090.2^{+1.0}_{-1.1}$	$\sigma_8(2.33)$	0.3077	$0.3079^{+0.0094}_{-0.0088}$
$A_{143}^{\text{dust}TT}$	10.84	$10.7^{+4.8}_{-4.6}$	r_*	144.61	$144.6^{+1.1}_{-1.1}$	f_{2000}^{143}	30.6	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dust}TT}$	19.3	$18.3^{+8.2}_{-8.8}$	$100\theta_*$	1.04107	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
$A_{217}^{\text{dust}TT}$	94.7	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	13.891	$13.893^{+0.098}_{-0.10}$	f_{2000}^{217}	107.8	$108.1^{+5.1}_{-4.9}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.55	$1059.4^{+1.2}_{-1.2}$	χ_{lensing}^2	8.88	$9.34 (\nu: 0.3)$
c_{217}	0.99825	$0.9982^{+0.0016}_{-0.0017}$	r_{drag}	147.33	$147.4^{+1.1}_{-1.1}$	χ_{small}^2	396	$295 (\nu: 13816.6)$
H_0	67.77	$67.7^{+1.8}_{-1.7}$	k_{D}	0.14049	$0.1404^{+0.0012}_{-0.0012}$	χ_{lowl}^2	23	$125 (\nu: 13829.3)$
Ω_{Λ}	0.6884	$0.688^{+0.017}_{-0.017}$	$100\theta_{\text{D}}$	0.16098	$0.16104^{+0.00070}_{-0.00071}$	χ_{plik}^2	759.4	$771.7 (\nu: 13.5)$
Ω_{m}	0.3106	$0.311^{+0.017}_{-0.017}$	z_{eq}	3393	3393^{+110}_{-110}	$\chi_{6\text{DF}}^2$	0.02	$0.43 (\nu: 0.2)$
$\Omega_{\text{m}}h^2$	0.14264	$0.1426^{+0.0047}_{-0.0045}$	k_{eq}	0.010356	$0.01036^{+0.00034}_{-0.00033}$	χ_{MGS}^2	1.34	$1.04 (\nu: 0.3)$
$\Omega_{\text{m}}h^3$	0.09666	$0.0966^{+0.0047}_{-0.0042}$	$100\theta_{\text{eq}}$	0.8144	$0.814^{+0.021}_{-0.021}$	χ_{DR12BAO}^2	3.85	$4.7 (\nu: 1.8)$
σ_8	0.8108	$0.811^{+0.022}_{-0.021}$	$100\theta_{\text{s,eq}}$	0.4501	$0.450^{+0.011}_{-0.011}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.8)$
S_8	0.8249	$0.826^{+0.033}_{-0.033}$	$H(0.15)$	73.06	$73.0^{+1.7}_{-1.7}$	χ_{CMB}^2	1187.7	$1201.7 (\nu: 15.2)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4518	$0.452^{+0.018}_{-0.018}$	$D_{\text{M}}(0.15)$	639.7	640^{+16}_{-15}	χ_{BAO}^2	5.21	$6.1 (\nu: 1.3)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6052	$0.606^{+0.019}_{-0.019}$	$H(0.38)$	83.19	$83.2^{+1.8}_{-1.7}$			

Best-fit $\chi_{\text{eff}}^2 = 1194.36$; $\bar{\chi}_{\text{eff}}^2 = 1215.14$; $R - 1 = 0.01348$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 3.85 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.88 small_100x143.offlike5_EE_Aplanck_B: 396.03 comman-
der_dx12.v3.2.29: 23.43 plik_rd12_HM.v22_TT: 759.40

16.11 base_omegak_plikHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02218^{+0.00060}_{-0.00056}$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.025}$	$D_M(0.38)$	1525^{+35}_{-35}
$\Omega_c h^2$	$0.1197^{+0.0049}_{-0.0047}$	$r_{\text{drag}} h$	$99.96^{+2.5}_{-2.3}$	$H(0.51)$	$89.9^{+1.9}_{-1.7}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.058}_{-0.057}$	$D_M(0.51)$	1976^{+44}_{-44}
τ	$0.054^{+0.019}_{-0.019}$	z_{re}	$7.7^{+1.9}_{-2.0}$	$H(0.61)$	$95.6^{+1.9}_{-1.8}$
Ω_K	$0.0011^{+0.0065}_{-0.0064}$	$10^9 A_s$	$2.098^{+0.081}_{-0.076}$	$D_M(0.61)$	2299^{+49}_{-51}
$\ln(10^{10} A_s)$	$3.043^{+0.038}_{-0.037}$	$10^9 A_s e^{-2\tau}$	$1.882^{+0.032}_{-0.031}$	$H(2.33)$	$236.4^{+4.3}_{-4.2}$
n_s	$0.965^{+0.014}_{-0.014}$	D_{40}	1230^{+38}_{-37}	$D_M(2.33)$	5751^{+94}_{-99}
y_{cal}	$1.0008^{+0.0067}_{-0.0063}$	D_{220}	5722^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2538^{+34}_{-34}	$\sigma_8(0.15)$	$0.750^{+0.020}_{-0.019}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.665^{+0.018}_{-0.017}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{s,0.002}$	$0.965^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.013}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00024}_{-0.00027}$	$\sigma_8(0.51)$	$0.622^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24664^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.592^{+0.016}_{-0.016}$
A^{kSZ}	—	Age/Gyr	$13.77^{+0.24}_{-0.25}$	$f\sigma_8(2.33)$	$0.2985^{+0.0083}_{-0.0078}$
A_{100}^{dustTT}	$8.9^{+5.1}_{-4.9}$	z_*	$1090.1^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	$0.3080^{+0.0094}_{-0.0089}$
A_{143}^{dustTT}	$10.7^{+4.9}_{-4.6}$	r_*	$144.7^{+1.1}_{-1.1}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.2}_{-8.8}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.895^{+0.096}_{-0.10}$	f_{2000}^{217}	$108.1^{+5.2}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	χ_{lensing}^2	$9.34 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	$147.4^{+1.1}_{-1.1}$	χ_{simall}^2	$294 (\nu: 13920.3)$
H_0	$67.8^{+1.7}_{-1.7}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$127 (\nu: 13931.4)$
Ω_Λ	$0.689^{+0.016}_{-0.017}$	$100\theta_{\text{D}}$	$0.16103^{+0.00070}_{-0.00071}$	χ_{plik}^2	$771.8 (\nu: 13.6)$
Ω_{m}	$0.310^{+0.016}_{-0.016}$	z_{eq}	3390^{+110}_{-110}	χ_{JLA}^2	$1035.08 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1425^{+0.0047}_{-0.0045}$	k_{eq}	$0.01035^{+0.00034}_{-0.00033}$	$\chi_{6\text{DF}}^2$	$0.45 (\nu: 0.3)$
$\Omega_{\text{m}} h^3$	$0.0966^{+0.0047}_{-0.0043}$	$100\theta_{\text{eq}}$	$0.815^{+0.021}_{-0.021}$	χ_{MGS}^2	$1.08 (\nu: 0.3)$
σ_8	$0.811^{+0.022}_{-0.021}$	$100\theta_{\text{s,eq}}$	$0.450^{+0.011}_{-0.011}$	χ_{DR12BAO}^2	$4.5 (\nu: 1.5)$
S_8	$0.824^{+0.032}_{-0.032}$	$H(0.15)$	$73.1^{+1.7}_{-1.7}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.017}_{-0.018}$	$D_M(0.15)$	639^{+16}_{-15}	χ_{CMB}^2	$1201.7 (\nu: 15.1)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.605^{+0.019}_{-0.018}$	$H(0.38)$	$83.2^{+1.8}_{-1.7}$	χ_{BAO}^2	$6.0 (\nu: 1.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2250.15; R - 1 = 0.01337$$

16.12 base_omegak_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02217^{+0.00060}_{-0.00058}$	$\sigma_8/h^{0.5}$	$0.985^{+0.033}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1525^{+36}_{-35}
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0056}_{-0.0053}$	$r_{\mathrm{drag}}h$	$99.9^{+2.7}_{-2.5}$	$H(0.51)$	$89.9^{+1.8}_{-1.7}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.076}_{-0.072}$	$D_{\mathrm{M}}(0.51)$	1976^{+44}_{-43}
τ	$0.054^{+0.019}_{-0.013}$	z_{re}	< 9.46	$H(0.61)$	$95.6^{+1.9}_{-1.8}$
Ω_K	$0.0011^{+0.0065}_{-0.0064}$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.092}_{-0.064}$	$D_{\mathrm{M}}(0.61)$	2300^{+50}_{-49}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.043}_{-0.031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.036}_{-0.035}$	$H(2.33)$	$236.4^{+4.7}_{-4.4}$
n_{s}	$0.965^{+0.015}_{-0.015}$	D_{40}	1229^{+42}_{-40}	$D_{\mathrm{M}}(2.33)$	5751^{+95}_{-98}
y_{cal}	$1.0006^{+0.0066}_{-0.0064}$	D_{220}	5717^{+100}_{-100}	$f\sigma_8(0.15)$	$0.456^{+0.022}_{-0.021}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+35}_{-35}	$\sigma_8(0.15)$	$0.750^{+0.025}_{-0.022}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.019}_{-0.018}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.8}_{-4.5}$	$\sigma_8(0.38)$	$0.665^{+0.021}_{-0.019}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.015}$	$f\sigma_8(0.51)$	$0.474^{+0.018}_{-0.017}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00024}_{-0.00027}$	$\sigma_8(0.51)$	$0.622^{+0.020}_{-0.018}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	$0.469^{+0.017}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.592^{+0.019}_{-0.017}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.25}_{-0.25}$	$f\sigma_8(2.33)$	$0.2985^{+0.0094}_{-0.0084}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.8}_{-4.9}$	z_*	$1090.2^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.308^{+0.010}_{-0.0094}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.5}$	r_*	$144.7^{+1.2}_{-1.3}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.2}_{-8.7}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.11}_{-0.12}$	f_{2000}^{217}	$108.1^{+5.0}_{-4.8}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+1.2}_{-1.2}$	χ_{simall}^2	$396.9 (\nu: 1.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.4^{+1.2}_{-1.3}$	χ_{lowl}^2	$23.6 (\nu: 1.1)$
H_0	$67.8^{+1.8}_{-1.7}$	k_{D}	$0.1404^{+0.0013}_{-0.0013}$	χ_{plik}^2	$772.2 (\nu: 14.6)$
Ω_{Λ}	$0.689^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16105^{+0.00070}_{-0.00069}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.019}_{-0.018}$	z_{eq}	3391^{+130}_{-120}	χ_{MGS}^2	$1.48 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1425^{+0.0054}_{-0.0050}$	k_{eq}	$0.01035^{+0.00039}_{-0.00037}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 (\nu: 1.7)$
$\Omega_{\mathrm{m}}h^3$	$0.0967^{+0.0047}_{-0.0043}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.023}_{-0.023}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.811^{+0.027}_{-0.025}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.012}_{-0.012}$	χ_{BAO}^2	$6.1 (\nu: 1.3)$
S_8	$0.825^{+0.043}_{-0.041}$	$H(0.15)$	$73.1^{+1.7}_{-1.7}$	χ_{CMB}^2	$1192.6 (\nu: 14.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	639^{+16}_{-16}		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.025}_{-0.023}$	$H(0.38)$	$83.2^{+1.8}_{-1.7}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.04; R - 1 = 0.01397$

16.13 base_omegak_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02217^{+0.00061}_{-0.00058}$	$\sigma_8/h^{0.5}$	$0.986^{+0.025}_{-0.024}$	$D_{\mathrm{M}}(0.38)$	1526^{+35}_{-35}
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0049}_{-0.0047}$	$r_{\mathrm{drag}}h$	$99.9^{+2.6}_{-2.4}$	$H(0.51)$	$89.9^{+1.8}_{-1.7}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.057}_{-0.056}$	$D_{\mathrm{M}}(0.51)$	1977^{+44}_{-44}
τ	$0.055^{+0.018}_{-0.014}$	z_{re}	< 9.42	$H(0.61)$	$95.5^{+1.9}_{-1.7}$
Ω_K	$0.00099^{+0.0064}_{-0.0064}$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.078}_{-0.059}$	$D_{\mathrm{M}}(0.61)$	2301^{+50}_{-51}
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.036}_{-0.028}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.031}_{-0.031}$	$H(2.33)$	$236.4^{+4.2}_{-4.3}$
n_{s}	$0.965^{+0.014}_{-0.014}$	D_{40}	1230^{+38}_{-37}	$D_{\mathrm{M}}(2.33)$	5753^{+92}_{-100}
y_{cal}	$1.0007^{+0.0068}_{-0.0063}$	D_{220}	5721^{+100}_{-100}	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+34}_{-34}	$\sigma_8(0.15)$	$0.750^{+0.020}_{-0.019}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.015}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+4.7}_{-4.6}$	$\sigma_8(0.38)$	$0.665^{+0.018}_{-0.017}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.013}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00024}_{-0.00027}$	$\sigma_8(0.51)$	$0.622^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00028}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.592^{+0.016}_{-0.016}$
A^{kSZ}	—	Age/Gyr	$13.77^{+0.24}_{-0.25}$	$f\sigma_8(2.33)$	$0.2986^{+0.0081}_{-0.0077}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+5.1}_{-4.9}$	z_*	$1090.2^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	$0.3081^{+0.0093}_{-0.0089}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.6^{+1.1}_{-1.1}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.1}_{-8.8}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.894^{+0.097}_{-0.10}$	f_{2000}^{217}	$108.1^{+5.1}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.29 (\nu: 0.2)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	r_{drag}	$147.4^{+1.1}_{-1.1}$	χ_{simall}^2	$296 (\nu: 13777.7)$
H_0	$67.8^{+1.8}_{-1.7}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$125 (\nu: 13788.8)$
Ω_{Λ}	$0.688^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00071}_{-0.00071}$	χ_{plik}^2	$771.6 (\nu: 13.5)$
Ω_{m}	$0.311^{+0.017}_{-0.016}$	z_{eq}	3391^{+110}_{-110}	$\chi_{6\mathrm{DF}}^2$	$0.43 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0047}_{-0.0045}$	k_{eq}	$0.01035^{+0.00034}_{-0.00033}$	χ_{MGS}^2	$1.04 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.0966^{+0.0047}_{-0.0042}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.021}_{-0.021}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.8)$
σ_8	$0.812^{+0.022}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.011}_{-0.011}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.826^{+0.033}_{-0.033}$	$H(0.15)$	$73.0^{+1.7}_{-1.7}$	χ_{CMB}^2	$1201.5 (\nu: 14.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	640^{+16}_{-16}	χ_{BAO}^2	$6.2 (\nu: 1.3)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.019}_{-0.019}$	$H(0.38)$	$83.2^{+1.8}_{-1.7}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1214.95$; $R - 1 = 0.01494$

16.14 base_omegak_plikHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00060}_{-0.00057}$	$\sigma_8/h^{0.5}$	$0.985^{+0.024}_{-0.024}$	$D_{\mathrm{M}}(0.38)$	1525^{+36}_{-35}
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0048}_{-0.0047}$	$r_{\mathrm{drag}} h$	$99.97^{+2.5}_{-2.4}$	$H(0.51)$	$89.9^{+1.9}_{-1.7}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.057}_{-0.054}$	$D_{\mathrm{M}}(0.51)$	1976^{+44}_{-44}
τ	$0.055^{+0.018}_{-0.014}$	z_{re}	< 9.43	$H(0.61)$	$95.5^{+1.9}_{-1.7}$
Ω_K	$0.00099^{+0.0065}_{-0.0063}$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.080}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2300^{+50}_{-51}
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.037}_{-0.029}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.032}_{-0.031}$	$H(2.33)$	$236.3^{+4.2}_{-4.2}$
n_{s}	$0.965^{+0.014}_{-0.014}$	D_{40}	1230^{+38}_{-37}	$D_{\mathrm{M}}(2.33)$	5752^{+93}_{-99}
y_{cal}	$1.0008^{+0.0067}_{-0.0064}$	D_{220}	5722^{+100}_{-98}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+34}_{-34}	$\sigma_8(0.15)$	$0.750^{+0.020}_{-0.019}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.665^{+0.018}_{-0.017}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.013}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24532^{+0.00023}_{-0.00027}$	$\sigma_8(0.51)$	$0.622^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00027}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.592^{+0.016}_{-0.016}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.24}_{-0.26}$	$f\sigma_8(2.33)$	$0.2987^{+0.0082}_{-0.0076}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+5.1}_{-4.9}$	z_*	$1090.1^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	$0.3082^{+0.0093}_{-0.0090}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.8}_{-4.6}$	r_*	$144.7^{+1.1}_{-1.1}$	f_{2000}^{143}	31^{+8}_{-8}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.2}_{-8.8}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.897^{+0.096}_{-0.10}$	f_{2000}^{217}	$108.0^{+5.1}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.29 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	r_{drag}	$147.4^{+1.1}_{-1.1}$	χ_{simall}^2	$294 (\nu: 13886.3)$
H_0	$67.8^{+1.7}_{-1.7}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	χ_{lowl}^2	$126 (\nu: 13895.9)$
Ω_{Λ}	$0.689^{+0.016}_{-0.016}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00071}_{-0.00070}$	χ_{plik}^2	$771.7 (\nu: 13.6)$
Ω_{m}	$0.310^{+0.016}_{-0.016}$	z_{eq}	3388^{+110}_{-100}	χ_{JLA}^2	$1035.07 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0046}_{-0.0044}$	k_{eq}	$0.01034^{+0.00033}_{-0.00032}$	$\chi_{6\mathrm{DF}}^2$	$0.45 (\nu: 0.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0966^{+0.0047}_{-0.0042}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.020}_{-0.020}$	χ_{MGS}^2	$1.08 (\nu: 0.3)$
σ_8	$0.811^{+0.022}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.451^{+0.010}_{-0.010}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 (\nu: 1.5)$
S_8	$0.824^{+0.032}_{-0.032}$	$H(0.15)$	$73.1^{+1.7}_{-1.7}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	639^{+16}_{-16}	χ_{CMB}^2	$1201.5 (\nu: 14.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.018}$	$H(0.38)$	$83.2^{+1.8}_{-1.7}$	χ_{BAO}^2	$6.0 (\nu: 1.1)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2249.97; R - 1 = 0.01495$$

16.15 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\text{b}}h^2$	0.022396	$0.02239^{+0.00041}_{-0.00040}$	σ_8	0.8109	$0.811^{+0.022}_{-0.022}$	$D_{\text{M}}(0.15)$	638.9	639^{+15}_{-16}
$\Omega_{\text{c}}h^2$	0.11972	$0.1197^{+0.0036}_{-0.0036}$	S_8	0.8242	$0.824^{+0.035}_{-0.032}$	$H(0.38)$	83.28	$83.3^{+1.7}_{-1.5}$
$100\theta_{\text{MC}}$	1.04095	$1.04095^{+0.00078}_{-0.00081}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	0.4515	$0.451^{+0.019}_{-0.018}$	$D_{\text{M}}(0.38)$	1523.9	1524^{+34}_{-35}
τ	0.0544	$0.055^{+0.021}_{-0.020}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	0.6051	$0.605^{+0.019}_{-0.019}$	$H(0.51)$	90.00	$90.0^{+1.7}_{-1.5}$
Ω_K	0.0008	$0.0008^{+0.0053}_{-0.0049}$	$\sigma_8/h^{0.5}$	0.9843	$0.984^{+0.028}_{-0.026}$	$D_{\text{M}}(0.51)$	1974.3	1974^{+41}_{-44}
$\ln(10^{10}A_{\text{s}})$	3.0441	$3.044^{+0.043}_{-0.043}$	$r_{\text{drag}}h$	99.86	$99.9^{+2.7}_{-2.5}$	$H(0.61)$	95.63	$95.6^{+1.7}_{-1.5}$
n_{s}	0.9664	$0.966^{+0.012}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.434^{+0.067}_{-0.065}$	$D_{\text{M}}(0.61)$	2297.5	2297^{+46}_{-49}
y_{cal}	1.0006	$1.0006^{+0.0063}_{-0.0065}$	z_{re}	7.69	$7.7^{+2.0}_{-2.1}$	$H(2.33)$	236.59	$236.6^{+3.1}_{-3.1}$
A_{217}^{CIB}	47.4	47^{+20}_{-20}	10^9A_{s}	2.099	$2.100^{+0.092}_{-0.089}$	$D_{\text{M}}(2.33)$	5746	5746^{+81}_{-87}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.43	—	$10^9A_{\text{s}}e^{-2\tau}$	1.8827	$1.882^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	0.4561	$0.456^{+0.018}_{-0.017}$
A_{143}^{tSZ}	7.2	—	D_{40}	1228.1	1229^{+34}_{-35}	$\sigma_8(0.15)$	0.7495	$0.750^{+0.020}_{-0.020}$
A_{100}^{PS}	251	259^{+70}_{-70}	D_{220}	5733	5734^{+100}_{-100}	$f\sigma_8(0.38)$	0.4747	$0.475^{+0.015}_{-0.015}$
A_{143}^{PS}	48.1	46^{+20}_{-20}	D_{810}	2541.2	2539^{+36}_{-34}	$\sigma_8(0.38)$	0.6646	$0.665^{+0.018}_{-0.018}$
$A_{143 \times 217}^{\text{PS}}$	47.6	42^{+20}_{-20}	D_{1420}	818.2	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4735	$0.473^{+0.014}_{-0.014}$
A_{217}^{PS}	119.5	115^{+30}_{-30}	D_{2000}	231.28	$230.9^{+4.2}_{-4.0}$	$\sigma_8(0.51)$	0.6220	$0.622^{+0.017}_{-0.017}$
A^{kSZ}	0.0	—	$n_{\text{s},0.002}$	0.9664	$0.966^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	0.4686	$0.469^{+0.013}_{-0.013}$
A_{100}^{dustTT}	8.79	$8.9^{+4.8}_{-4.7}$	Y_{P}	0.245406	$0.24540^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	0.5919	$0.592^{+0.016}_{-0.016}$
A_{143}^{dustTT}	11.01	$10.9^{+4.7}_{-4.6}$	$Y_{\text{P}}^{\text{BBN}}$	0.246732	$0.24673^{+0.00015}_{-0.00017}$	$f\sigma_8(2.33)$	0.2985	$0.2985^{+0.0082}_{-0.0083}$
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.5}_{-8.6}$	$10^5\text{D}/\text{H}$	2.581	$2.583^{+0.075}_{-0.073}$	$\sigma_8(2.33)$	0.3079	$0.3080^{+0.0093}_{-0.0093}$
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	Age/Gyr	13.755	$13.75^{+0.21}_{-0.22}$	f_{2000}^{143}	29.1	30^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.115^{+0.10}_{-0.095}$	z_*	1089.86	$1089.88^{+0.73}_{-0.72}$	$f_{2000}^{143 \times 217}$	32.10	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.078}$	r_*	144.48	$144.50^{+0.81}_{-0.80}$	f_{2000}^{217}	106.68	$107.0^{+4.8}_{-4.7}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04113	$1.04113^{+0.00076}_{-0.00081}$	χ_{small}^2	396.06	$397.2 (\nu: 1.8)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.878	$13.879^{+0.077}_{-0.074}$	χ_{lowl}^2	23.21	$23.4 (\nu: 0.6)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.21}_{-0.20}$	z_{drag}	1059.97	$1059.95^{+0.82}_{-0.78}$	χ_{plik}^2	2345.1	$2360.2 (\nu: 17.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.68}$	r_{drag}	147.14	$147.15^{+0.80}_{-0.78}$	$\chi_{6\text{DF}}^2$	0.016	$0.057 (\nu: 0.0)$
c_{100}	0.99969	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	0.14084	$0.14081^{+0.00082}_{-0.00083}$	χ_{MGS}^2	1.34	$1.44 (\nu: 0.2)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.160736	$0.16075^{+0.00046}_{-0.00045}$	χ_{DR12BAO}^2	3.92	$4.7 (\nu: 1.9)$
H_0	67.87	$67.9^{+1.8}_{-1.7}$	z_{eq}	3396	3396^{+81}_{-82}	χ_{prior}^2	1.7	$11.6 (\nu: 10.2)$
Ω_{Λ}	0.6893	$0.689^{+0.016}_{-0.017}$	k_{eq}	0.010365	$0.01036^{+0.00025}_{-0.00025}$	χ_{BAO}^2	5.28	$6.2 (\nu: 1.4)$
Ω_{m}	0.3099	$0.310^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	0.8145	$0.815^{+0.016}_{-0.015}$	χ_{CMB}^2	2764.4	$2780.7 (\nu: 17.0)$
$\Omega_{\text{m}}h^2$	0.14276	$0.1427^{+0.0034}_{-0.0034}$	$100\theta_{\text{s,eq}}$	0.4500	$0.4501^{+0.0081}_{-0.0078}$			
$\Omega_{\text{m}}h^3$	0.09689	$0.0969^{+0.0038}_{-0.0034}$	$H(0.15)$	73.15	$73.2^{+1.8}_{-1.6}$			

Best-fit $\chi_{\text{eff}}^2 = 2771.38$; $\bar{\chi}_{\text{eff}}^2 = 2798.58$; $R - 1 = 0.01668$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 3.92 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.21 plik_rd12_HM_v22b_TTTEEE: 2345.09

16.16 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022412	$0.02239^{+0.00040}_{-0.00040}$	σ_8	0.8118	$0.812^{+0.019}_{-0.018}$	$D_M(0.15)$	638.8	639^{+15}_{-15}
$\Omega_c h^2$	0.11970	$0.1197^{+0.0035}_{-0.0033}$	S_8	0.8250	$0.825^{+0.028}_{-0.026}$	$H(0.38)$	83.28	$83.3^{+1.6}_{-1.5}$
$100\theta_{MC}$	1.04099	$1.04095^{+0.00077}_{-0.00085}$	$\sigma_8 \Omega_m^{0.5}$	0.4519	$0.452^{+0.015}_{-0.014}$	$D_M(0.38)$	1523.8	1524^{+33}_{-33}
τ	0.0556	$0.056^{+0.019}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6057	$0.606^{+0.016}_{-0.015}$	$H(0.51)$	90.00	$90.0^{+1.6}_{-1.6}$
Ω_K	0.0007	$0.0007^{+0.0052}_{-0.0049}$	$\sigma_8/h^{0.5}$	0.9854	$0.985^{+0.022}_{-0.021}$	$D_M(0.51)$	1974.2	1975^{+40}_{-41}
$\ln(10^{10} A_s)$	3.0462	$3.046^{+0.037}_{-0.036}$	$r_{drag} h$	99.86	$99.9^{+2.5}_{-2.4}$	$H(0.61)$	95.63	$95.6^{+1.6}_{-1.5}$
n_s	0.9669	$0.966^{+0.012}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.435	$2.437^{+0.054}_{-0.052}$	$D_M(0.61)$	2297.4	2298^{+46}_{-46}
y_{cal}	1.0005	$1.0007^{+0.0061}_{-0.0063}$	z_{re}	7.80	$7.8^{+1.8}_{-2.0}$	$H(2.33)$	236.58	$236.6^{+3.1}_{-2.8}$
A_{217}^{CIB}	46.8	47^{+20}_{-20}	$10^9 A_s$	2.104	$2.104^{+0.080}_{-0.074}$	$D_M(2.33)$	5746	5747^{+81}_{-82}
$\xi^{tSZ \times CIB}$	0.47	—	$10^9 A_s e^{-2\tau}$	1.8821	$1.882^{+0.030}_{-0.029}$	$f\sigma_8(0.15)$	0.4565	$0.456^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.2	—	D_{40}	1226.9	1230^{+32}_{-32}	$\sigma_8(0.15)$	0.7503	$0.750^{+0.018}_{-0.017}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5730	5737^{+97}_{-98}	$f\sigma_8(0.38)$	0.4752	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	47.7	46^{+20}_{-20}	D_{810}	2540.9	2540^{+34}_{-32}	$\sigma_8(0.38)$	0.6653	$0.665^{+0.016}_{-0.016}$
$A_{143 \times 217}^{PS}$	48.3	42^{+20}_{-20}	D_{1420}	818.4	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4740	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	120.2	115^{+30}_{-30}	D_{2000}	231.41	$231.0^{+4.1}_{-4.0}$	$\sigma_8(0.51)$	0.6227	$0.622^{+0.016}_{-0.015}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9669	$0.966^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	0.4692	$0.469^{+0.011}_{-0.010}$
A_{100}^{dustTT}	8.83	$8.9^{+4.6}_{-4.6}$	Y_P	0.245412	$0.24540^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	0.5926	$0.592^{+0.015}_{-0.015}$
A_{143}^{dustTT}	11.00	$10.9^{+4.7}_{-4.8}$	Y_P^{BBN}	0.246738	$0.24673^{+0.00015}_{-0.00017}$	$f\sigma_8(2.33)$	0.2988	$0.2987^{+0.0076}_{-0.0077}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.6^{+8.5}_{-8.5}$	$10^5 D/H$	2.578	$2.582^{+0.075}_{-0.071}$	$\sigma_8(2.33)$	0.3082	$0.3081^{+0.0087}_{-0.0088}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	Age/Gyr	13.755	$13.76^{+0.21}_{-0.21}$	f_{2000}^{143}	28.6	30^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.094}$	z_*	1089.84	$1089.86^{+0.73}_{-0.71}$	$f_{2000}^{143 \times 217}$	31.86	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.133	$0.135^{+0.075}_{-0.077}$	r_*	144.48	$144.50^{+0.76}_{-0.77}$	f_{2000}^{217}	106.50	$107.0^{+4.9}_{-4.7}$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04116	$1.04113^{+0.00077}_{-0.00084}$	$\chi_{lensing}^2$	8.79	9.13 (ν : 0.2)
A_{143}^{dustTE}	0.223	$0.22^{+0.15}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.879^{+0.071}_{-0.072}$	χ_{small}^2	396	291 (ν : 14169.0)
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.01	$1059.97^{+0.80}_{-0.80}$	χ_{lowl}^2	23	129 (ν : 14165.2)
A_{217}^{dustTE}	2.09	$2.08^{+0.67}_{-0.69}$	r_{drag}	147.13	$147.15^{+0.76}_{-0.76}$	χ_{plik}^2	2345.0	2359.8 (ν : 16.8)
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14086	$0.14082^{+0.00079}_{-0.00080}$	χ_{6DF}^2	0.02	0.44 (ν : 0.2)
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160720	$0.16074^{+0.00047}_{-0.00045}$	χ_{MGS}^2	1.34	1.03 (ν : 0.3)
H_0	67.87	$67.9^{+1.7}_{-1.6}$	z_{eq}	3396	3395^{+78}_{-75}	$\chi_{DR12BAO}^2$	3.93	4.7 (ν : 1.8)
Ω_Λ	0.6894	$0.689^{+0.014}_{-0.015}$	k_{eq}	0.010365	$0.01036^{+0.00024}_{-0.00023}$	χ_{prior}^2	1.7	11.5 (ν : 9.9)
Ω_m	0.3099	$0.310^{+0.016}_{-0.016}$	$100\theta_{eq}$	0.8146	$0.815^{+0.014}_{-0.015}$	χ_{CMB}^2	2773.2	2789.5 (ν : 17.6)
$\Omega_m h^2$	0.14275	$0.1427^{+0.0033}_{-0.0031}$	$100\theta_{s,eq}$	0.4500	$0.4501^{+0.0073}_{-0.0074}$	χ_{BAO}^2	5.29	6.2 (ν : 1.3)
$\Omega_m h^3$	0.09689	$0.0969^{+0.0038}_{-0.0035}$	$H(0.15)$	73.16	$73.1^{+1.6}_{-1.6}$			

Best-fit $\chi_{eff}^2 = 2780.16$; $\bar{\chi}_{eff}^2 = 2807.21$; $R - 1 = 0.02276$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 3.93 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.79 small_100x143_offlike5_EE_Aplanck_B: 396.28 commander_dx12.v3.2.29: 23.14 plik_rd12_HM_v22b_TTTEEE: 2344.96

16.17 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022420	$0.02240^{+0.00039}_{-0.00040}$	σ_8	0.8117	$0.812^{+0.019}_{-0.018}$	$D_M(0.15)$	638.2	638^{+15}_{-15}
$\Omega_c h^2$	0.11956	$0.1196^{+0.0035}_{-0.0033}$	S_8	0.8238	$0.824^{+0.027}_{-0.026}$	$H(0.38)$	83.32	$83.3^{+1.6}_{-1.5}$
$100\theta_{MC}$	1.04097	$1.04096^{+0.00077}_{-0.00085}$	$\sigma_8 \Omega_m^{0.5}$	0.4512	$0.451^{+0.015}_{-0.014}$	$D_M(0.38)$	1522.7	1523^{+32}_{-33}
τ	0.0559	$0.056^{+0.019}_{-0.018}$	$\sigma_8 \Omega_m^{0.25}$	0.6052	$0.605^{+0.016}_{-0.015}$	$H(0.51)$	90.04	$90.0^{+1.6}_{-1.5}$
Ω_K	0.0008	$0.0008^{+0.0052}_{-0.0049}$	$\sigma_8/h^{0.5}$	0.9848	$0.985^{+0.022}_{-0.021}$	$D_M(0.51)$	1972.9	1973^{+40}_{-41}
$\ln(10^{10} A_s)$	3.0470	$3.047^{+0.037}_{-0.036}$	$r_{drag} h$	99.98	$99.97^{+2.4}_{-2.3}$	$H(0.61)$	95.66	$95.7^{+1.6}_{-1.5}$
n_s	0.9672	$0.966^{+0.012}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.436^{+0.052}_{-0.051}$	$D_M(0.61)$	2296.0	2296^{+45}_{-45}
y_{cal}	1.0008	$1.0007^{+0.0061}_{-0.0063}$	z_{re}	7.83	$7.8^{+1.8}_{-2.0}$	$H(2.33)$	236.51	$236.5^{+3.1}_{-2.8}$
A_{217}^{CIB}	46.4	47^{+20}_{-20}	$10^9 A_s$	2.105	$2.105^{+0.079}_{-0.074}$	$D_M(2.33)$	5745	5745^{+79}_{-81}
$\xi^{tSZ \times CIB}$	0.61	—	$10^9 A_s e^{-2\tau}$	1.8825	$1.882^{+0.030}_{-0.028}$	$f\sigma_8(0.15)$	0.4559	$0.456^{+0.014}_{-0.013}$
A_{143}^{tSZ}	7.1	—	D_{40}	1227.0	1229^{+32}_{-32}	$\sigma_8(0.15)$	0.7503	$0.750^{+0.018}_{-0.017}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5734	5738^{+99}_{-98}	$f\sigma_8(0.38)$	0.4748	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	49.9	46^{+20}_{-20}	D_{810}	2542.2	2540^{+34}_{-32}	$\sigma_8(0.38)$	0.6654	$0.665^{+0.016}_{-0.016}$
$A_{143 \times 217}^{PS}$	51.9	42^{+20}_{-20}	D_{1420}	818.9	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4737	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	121.2	115^{+30}_{-30}	D_{2000}	231.57	$231.1^{+4.1}_{-4.0}$	$\sigma_8(0.51)$	0.6228	$0.623^{+0.016}_{-0.015}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9672	$0.966^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	0.4689	$0.469^{+0.011}_{-0.010}$
A_{100}^{dustTT}	8.84	$8.9^{+4.6}_{-4.6}$	Y_P	0.245415	$0.24541^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	0.5927	$0.593^{+0.015}_{-0.015}$
A_{143}^{dustTT}	11.07	$10.9^{+4.7}_{-4.8}$	Y_P^{BBN}	0.246742	$0.24673^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	0.2989	$0.2988^{+0.0075}_{-0.0074}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.5}_{-8.5}$	$10^5 D/H$	2.576	$2.580^{+0.075}_{-0.070}$	$\sigma_8(2.33)$	0.3084	$0.3083^{+0.0086}_{-0.0086}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.752	$13.75^{+0.20}_{-0.21}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.094}$	z_*	1089.82	$1089.85^{+0.73}_{-0.72}$	$f_{2000}^{143 \times 217}$	31.97	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.075}_{-0.077}$	r_*	144.51	$144.51^{+0.75}_{-0.77}$	f_{2000}^{217}	106.52	$107.0^{+4.9}_{-4.7}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04115	$1.04114^{+0.00077}_{-0.00084}$	$\chi_{lensing}^2$	8.77	9.13 (ν : 0.2)
A_{143}^{dustTE}	0.226	$0.22^{+0.15}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.879	$13.880^{+0.072}_{-0.072}$	χ_{small}^2	396	291 (ν : 14174.2)
$A_{143 \times 217}^{dustTE}$	0.668	$0.66^{+0.20}_{-0.21}$	z_{drag}	1060.01	$1059.98^{+0.79}_{-0.81}$	χ_{lowl}^2	23	129 (ν : 14170.3)
A_{217}^{dustTE}	2.09	$2.08^{+0.67}_{-0.69}$	r_{drag}	147.15	$147.16^{+0.75}_{-0.76}$	χ_{plik}^2	2345.1	2359.9 (ν : 17.0)
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14084	$0.14081^{+0.00078}_{-0.00080}$	χ_{JLA}^2	1034.96	1035.03 (ν : 0.0)
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160711	$0.16074^{+0.00046}_{-0.00046}$	χ_{6DF}^2	0.01	0.46 (ν : 0.3)
H_0	67.94	$67.9^{+1.7}_{-1.6}$	z_{eq}	3393	3393^{+78}_{-73}	χ_{MGS}^2	1.41	1.07 (ν : 0.3)
Ω_Λ	0.6902	$0.690^{+0.014}_{-0.015}$	k_{eq}	0.010356	$0.01036^{+0.00024}_{-0.00022}$	$\chi_{DR12BAO}^2$	3.79	4.5 (ν : 1.4)
Ω_m	0.3090	$0.309^{+0.016}_{-0.015}$	$100\theta_{eq}$	0.8151	$0.815^{+0.014}_{-0.015}$	χ_{prior}^2	1.7	11.5 (ν : 9.9)
$\Omega_m h^2$	0.14263	$0.1426^{+0.0033}_{-0.0031}$	$100\theta_{s,eq}$	0.4503	$0.4503^{+0.0073}_{-0.0074}$	χ_{CMB}^2	2773.3	2789.6 (ν : 17.6)
$\Omega_m h^3$	0.09690	$0.0969^{+0.0037}_{-0.0034}$	$H(0.15)$	73.22	$73.2^{+1.7}_{-1.5}$	χ_{BAO}^2	5.20	6.1 (ν : 1.0)

Best-fit $\chi_{eff}^2 = 3815.13$; $\bar{\chi}_{eff}^2 = 3842.20$; $R - 1 = 0.02228$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.41 DR12BAO: 3.79 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143.offlike5_EE_Aplanck_B: 396.34 commander_dx12.v3.2.29: 23.10 plik_rd12_HM_v22b_TTTEEE: 2345.08 SN - JLA Pantheon18: 1034.96

16.18 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00040}_{-0.00040}$	σ_8	$0.812^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.15)$	639^{+15}_{-16}
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0036}_{-0.0036}$	S_8	$0.825^{+0.034}_{-0.032}$	$H(0.38)$	$83.3^{+1.7}_{-1.6}$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00077}_{-0.00081}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.019}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1524^{+34}_{-36}
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.017}$	$H(0.51)$	$90.0^{+1.7}_{-1.5}$
Ω_K	$0.0008^{+0.0053}_{-0.0049}$	$\sigma_8/h^{0.5}$	$0.985^{+0.028}_{-0.024}$	$D_{\mathrm{M}}(0.51)$	1974^{+41}_{-44}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.041}_{-0.031}$	$r_{\mathrm{drag}}h$	$99.9^{+2.7}_{-2.5}$	$H(0.61)$	$95.6^{+1.7}_{-1.5}$
n_{s}	$0.966^{+0.012}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.065}_{-0.058}$	$D_{\mathrm{M}}(0.61)$	2297^{+46}_{-49}
y_{cal}	$1.0006^{+0.0063}_{-0.0065}$	z_{re}	< 9.56	$H(2.33)$	$236.6^{+3.2}_{-3.0}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.104^{+0.089}_{-0.064}$	$D_{\mathrm{M}}(2.33)$	5746^{+81}_{-87}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	$0.456^{+0.018}_{-0.016}$
A_{143}^{tSZ}	—	D_{40}	1229^{+34}_{-34}	$\sigma_8(0.15)$	$0.750^{+0.020}_{-0.018}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5734^{+100}_{-100}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+35}_{-34}	$\sigma_8(0.38)$	$0.665^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.9^{+4.1}_{-4.0}$	$\sigma_8(0.51)$	$0.623^{+0.016}_{-0.015}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	Y_{P}	$0.24540^{+0.00015}_{-0.00017}$	$\sigma_8(0.61)$	$0.593^{+0.016}_{-0.014}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00015}_{-0.00017}$	$f\sigma_8(2.33)$	$0.2988^{+0.0080}_{-0.0072}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.5}_{-8.5}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.583^{+0.075}_{-0.072}$	$\sigma_8(2.33)$	$0.3083^{+0.0090}_{-0.0083}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.75^{+0.21}_{-0.22}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.095}$	z_*	$1089.87^{+0.72}_{-0.72}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.077}$	r_*	$144.50^{+0.81}_{-0.80}$	f_{2000}^{217}	$107.0^{+4.7}_{-4.7}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04113^{+0.00075}_{-0.00081}$	χ_{simall}^2	$397.1 (\nu: 1.9)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.879^{+0.077}_{-0.074}$	χ_{lowl}^2	$23.4 (\nu: 0.6)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.95^{+0.78}_{-0.78}$	χ_{plik}^2	$2360.0 (\nu: 16.6)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.68}$	r_{drag}	$147.16^{+0.80}_{-0.78}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14081^{+0.00082}_{-0.00083}$	χ_{MGS}^2	$1.45 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00046}_{-0.00045}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.8)$
H_0	$67.9^{+1.9}_{-1.7}$	z_{eq}	3395^{+82}_{-81}	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_{Λ}	$0.689^{+0.016}_{-0.016}$	k_{eq}	$0.01036^{+0.00025}_{-0.00025}$	χ_{BAO}^2	$6.2 (\nu: 1.4)$
Ω_{m}	$0.310^{+0.018}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.015}$	χ_{CMB}^2	$2780.5 (\nu: 16.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0034}_{-0.0034}$	$100\theta_{\mathrm{s,eq}}$	$0.4501^{+0.0080}_{-0.0078}$		
$\Omega_{\mathrm{m}}h^3$	$0.0969^{+0.0038}_{-0.0034}$	$H(0.15)$	$73.2^{+1.8}_{-1.6}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2798.34; R - 1 = 0.01378$$

16.19 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00040}_{-0.00040}$	σ_8	$0.812^{+0.019}_{-0.017}$	$D_M(0.15)$	639^{+15}_{-15}
$\Omega_c h^2$	$0.1197^{+0.0035}_{-0.0033}$	S_8	$0.825^{+0.028}_{-0.026}$	$H(0.38)$	$83.3^{+1.6}_{-1.5}$
$100\theta_{MC}$	$1.04096^{+0.00076}_{-0.00086}$	$\sigma_8 \Omega_m^{0.5}$	$0.452^{+0.015}_{-0.014}$	$D_M(0.38)$	1524^{+33}_{-33}
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.016}_{-0.015}$	$H(0.51)$	$90.0^{+1.6}_{-1.5}$
Ω_K	$0.0007^{+0.0052}_{-0.0050}$	$\sigma_8/h^{0.5}$	$0.986^{+0.022}_{-0.020}$	$D_M(0.51)$	1974^{+41}_{-41}
$\ln(10^{10} A_s)$	$3.047^{+0.036}_{-0.029}$	$r_{\text{drag}} h$	$99.9^{+2.5}_{-2.3}$	$H(0.61)$	$95.6^{+1.6}_{-1.5}$
n_s	$0.966^{+0.012}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.053}_{-0.051}$	$D_M(0.61)$	2298^{+46}_{-46}
y_{cal}	$1.0007^{+0.0061}_{-0.0063}$	z_{re}	< 9.44	$H(2.33)$	$236.5^{+3.2}_{-2.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.106^{+0.078}_{-0.061}$	$D_M(2.33)$	5747^{+81}_{-82}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
A_{143}^{tSZ}	—	D_{40}	1229^{+32}_{-32}	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.016}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5737^{+97}_{-97}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+33}_{-32}	$\sigma_8(0.38)$	$0.665^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.0^{+4.2}_{-4.0}$	$\sigma_8(0.51)$	$0.623^{+0.015}_{-0.014}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.012}_{-0.010}$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	Y_P	$0.24540^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	$0.593^{+0.015}_{-0.014}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	Y_P^{BBN}	$0.24673^{+0.00015}_{-0.00017}$	$f\sigma_8(2.33)$	$0.2989^{+0.0075}_{-0.0070}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.5}$	$10^5 \text{D}/\text{H}$	$2.581^{+0.075}_{-0.071}$	$\sigma_8(2.33)$	$0.3083^{+0.0086}_{-0.0080}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.76^{+0.21}_{-0.21}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	z_*	$1089.86^{+0.72}_{-0.71}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.077}$	r_*	$144.50^{+0.76}_{-0.77}$	f_{2000}^{217}	$107.0^{+4.9}_{-4.7}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04114^{+0.00075}_{-0.00085}$	χ_{lensing}^2	$9.11 (\nu: 0.1)$
A_{143}^{dustTE}	$0.22^{+0.15}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.879^{+0.071}_{-0.072}$	χ_{simall}^2	$291 (\nu: 14235.6)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1059.97^{+0.80}_{-0.80}$	χ_{lowl}^2	$130 (\nu: 14232.1)$
A_{217}^{dustTE}	$2.08^{+0.67}_{-0.69}$	r_{drag}	$147.16^{+0.76}_{-0.76}$	χ_{plik}^2	$2359.7 (\nu: 16.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14082^{+0.00081}_{-0.00080}$	$\chi_{6\text{DF}}^2$	$0.45 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16074^{+0.00047}_{-0.00045}$	χ_{MGS}^2	$1.03 (\nu: 0.3)$
H_0	$67.9^{+1.7}_{-1.6}$	z_{eq}	3395^{+78}_{-74}	χ_{DR12BAO}^2	$4.7 (\nu: 1.7)$
Ω_Λ	$0.689^{+0.014}_{-0.015}$	k_{eq}	$0.01036^{+0.00024}_{-0.00023}$	χ_{prior}^2	$11.5 (\nu: 9.8)$
Ω_m	$0.310^{+0.016}_{-0.016}$	$100\theta_{\text{eq}}$	$0.815^{+0.014}_{-0.014}$	χ_{CMB}^2	$2789.4 (\nu: 17.2)$
$\Omega_m h^2$	$0.1427^{+0.0033}_{-0.0031}$	$100\theta_{s,\text{eq}}$	$0.4502^{+0.0073}_{-0.0073}$	χ_{BAO}^2	$6.2 (\nu: 1.2)$
$\Omega_m h^3$	$0.0969^{+0.0038}_{-0.0035}$	$H(0.15)$	$73.2^{+1.6}_{-1.6}$		

$$\bar{\chi}_{\text{eff}}^2 = 2807.05; R - 1 = 0.02354$$

16.20 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00039}_{-0.00040}$	σ_8	$0.812^{+0.019}_{-0.017}$	$D_M(0.15)$	638^{+14}_{-15}
$\Omega_c h^2$	$0.1196^{+0.0035}_{-0.0032}$	S_8	$0.824^{+0.027}_{-0.026}$	$H(0.38)$	$83.3^{+1.6}_{-1.5}$
$100\theta_{MC}$	$1.04096^{+0.00076}_{-0.00086}$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.014}$	$D_M(0.38)$	1523^{+32}_{-33}
τ	$0.056^{+0.018}_{-0.015}$	$\sigma_8 \Omega_m^{0.25}$	$0.605^{+0.015}_{-0.015}$	$H(0.51)$	$90.0^{+1.6}_{-1.5}$
Ω_K	$0.0008^{+0.0053}_{-0.0049}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.020}$	$D_M(0.51)$	1973^{+40}_{-41}
$\ln(10^{10} A_s)$	$3.048^{+0.036}_{-0.029}$	$r_{\text{drag}} h$	$99.99^{+2.4}_{-2.3}$	$H(0.61)$	$95.7^{+1.6}_{-1.5}$
n_s	$0.966^{+0.012}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.052}_{-0.050}$	$D_M(0.61)$	2296^{+45}_{-45}
y_{cal}	$1.0007^{+0.0061}_{-0.0063}$	z_{re}	< 9.45	$H(2.33)$	$236.5^{+3.2}_{-2.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.107^{+0.077}_{-0.061}$	$D_M(2.33)$	5745^{+80}_{-81}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	D_{40}	1229^{+32}_{-32}	$\sigma_8(0.15)$	$0.750^{+0.018}_{-0.016}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5738^{+96}_{-98}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.011}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+33}_{-32}	$\sigma_8(0.38)$	$0.666^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.1^{+4.1}_{-4.0}$	$\sigma_8(0.51)$	$0.623^{+0.015}_{-0.014}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.6}$	Y_P	$0.24541^{+0.00015}_{-0.00016}$	$\sigma_8(0.61)$	$0.593^{+0.015}_{-0.014}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.7}$	Y_P^{BBN}	$0.24673^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	$0.2990^{+0.0074}_{-0.0071}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.5}$	$10^5 D/H$	$2.580^{+0.075}_{-0.070}$	$\sigma_8(2.33)$	$0.3085^{+0.0085}_{-0.0080}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.75^{+0.20}_{-0.21}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.094}$	z_*	$1089.84^{+0.73}_{-0.71}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.075}_{-0.077}$	r_*	$144.52^{+0.76}_{-0.77}$	f_{2000}^{217}	$106.9^{+4.9}_{-4.7}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04114^{+0.00076}_{-0.00084}$	χ_{lensing}^2	$9.10 (\nu: 0.1)$
A_{143}^{dustTE}	$0.22^{+0.15}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.881^{+0.072}_{-0.072}$	χ_{simall}^2	$291 (\nu: 14237.3)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.98^{+0.79}_{-0.81}$	χ_{lowl}^2	$130 (\nu: 14233.8)$
A_{217}^{dustTE}	$2.08^{+0.67}_{-0.69}$	r_{drag}	$147.17^{+0.75}_{-0.76}$	χ_{plik}^2	$2359.8 (\nu: 16.8)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	k_D	$0.14081^{+0.00081}_{-0.00080}$	χ_{JLA}^2	$1035.03 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16074^{+0.00046}_{-0.00044}$	$\chi_{6\text{DF}}^2$	$0.46 (\nu: 0.3)$
H_0	$67.9^{+1.7}_{-1.6}$	z_{eq}	3393^{+78}_{-75}	χ_{MGS}^2	$1.07 (\nu: 0.3)$
Ω_Λ	$0.690^{+0.014}_{-0.014}$	k_{eq}	$0.01036^{+0.00024}_{-0.00023}$	χ_{DR12BAO}^2	$4.5 (\nu: 1.4)$
Ω_m	$0.309^{+0.015}_{-0.015}$	$100\theta_{\text{eq}}$	$0.815^{+0.014}_{-0.014}$	χ_{prior}^2	$11.5 (\nu: 9.9)$
$\Omega_m h^2$	$0.1426^{+0.0033}_{-0.0031}$	$100\theta_{s,\text{eq}}$	$0.4503^{+0.0072}_{-0.0074}$	χ_{CMB}^2	$2789.5 (\nu: 17.3)$
$\Omega_m h^3$	$0.0969^{+0.0037}_{-0.0034}$	$H(0.15)$	$73.2^{+1.7}_{-1.5}$	χ_{BAO}^2	$6.0 (\nu: 1.0)$

$$\bar{\chi}_{\text{eff}}^2 = 3842.05; R - 1 = 0.02292$$

16.21 base_omegak_CamSpecHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02218	$0.02217^{+0.00060}_{-0.00058}$	$(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6036	$0.604^{+0.027}_{-0.024}$	(-0.1σ)	$H(0.38)$	83.23	$83.3^{+1.7}_{-1.7}$	$(+0.1\sigma)$
$\Omega_c h^2$	0.1197	$0.1197^{+0.0059}_{-0.0055}$	(-0.0σ)	$\sigma_8/h^{0.5}$	0.9824	$0.982^{+0.036}_{-0.033}$	(-0.1σ)	$D_M(0.38)$	1524.9	1524^{+35}_{-34}	(-0.1σ)
$100\theta_{MC}$	1.04093	$1.0409^{+0.0013}_{-0.0013}$	$(+0.1\sigma)$	$r_{drag}h$	99.96	$100.0^{+2.6}_{-2.6}$	$(+0.1\sigma)$	$H(0.51)$	89.95	$90.0^{+1.8}_{-1.7}$	$(+0.0\sigma)$
τ	0.0528	$0.053^{+0.024}_{-0.021}$	(-0.0σ)	$\langle d^2 \rangle^{1/2}$	2.428	$2.425^{+0.082}_{-0.073}$	(-0.2σ)	$D_M(0.51)$	1975.5	1975^{+43}_{-42}	(-0.1σ)
Ω_K	0.0011	$0.0011^{+0.0065}_{-0.0064}$	(-0.0σ)	z_{re}	7.57	$7.5^{+2.3}_{-2.3}$	(-0.0σ)	$H(0.61)$	95.57	$95.6^{+1.8}_{-1.8}$	$(+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0378	$3.038^{+0.047}_{-0.043}$	(-0.1σ)	$10^9 A_s$	2.086	$2.09^{+0.10}_{-0.088}$	(-0.1σ)	$D_M(0.61)$	2299.0	2298^{+49}_{-48}	(-0.1σ)
n_s	0.9652	$0.966^{+0.015}_{-0.015}$	$(+0.2\sigma)$	$10^9 A_s e^{-2\tau}$	1.8769	$1.877^{+0.035}_{-0.035}$	(-0.3σ)	$H(2.33)$	236.44	$236.4^{+4.8}_{-4.5}$	(-0.0σ)
y_{cal}	1.0003	$1.0004^{+0.0061}_{-0.0065}$	(-0.1σ)	D_{40}	1225.3	1224^{+41}_{-39}	(-0.3σ)	$D_M(2.33)$	5750	5749^{+96}_{-94}	(-0.0σ)
A_{100}^{PS}	243	242^{+60}_{-60}	(-0.7σ)	D_{220}	5703	5703^{+100}_{-100}	(-0.3σ)	$f\sigma_8(0.15)$	0.4550	$0.455^{+0.024}_{-0.021}$	(-0.1σ)
A_{143}^{PS}	38	41^{+20}_{-20}	(-1.0σ)	D_{810}	2532.5	2533^{+35}_{-35}	(-0.3σ)	$\sigma_8(0.15)$	0.7478	$0.748^{+0.026}_{-0.024}$	(-0.1σ)
A_{217}^{PS}	100.4	101^{+30}_{-30}	(-1.4σ)	D_{1420}	814.0	814^{+13}_{-13}	(-0.1σ)	$f\sigma_8(0.38)$	0.4736	$0.474^{+0.021}_{-0.019}$	(-0.1σ)
A_{217}^{CIB}	43.3	41^{+20}_{-20}	(-1.0σ)	D_{2000}	229.53	$229.6^{+4.8}_{-4.8}$	(-0.1σ)	$\sigma_8(0.38)$	0.6631	$0.663^{+0.023}_{-0.021}$	(-0.1σ)
A_{143}^{tSZ}	4.78	< 8.73	(-0.7σ)	$n_{s,0.002}$	0.9652	$0.966^{+0.015}_{-0.015}$	$(+0.2\sigma)$	$f\sigma_8(0.51)$	0.4724	$0.472^{+0.019}_{-0.017}$	(-0.1σ)
$r_{143 \times 217}^{PS}$	0.594	$0.65^{+0.32}_{-0.33}$		Y_P	0.245317	$0.24531^{+0.00023}_{-0.00027}$	$(+0.1\sigma)$	$\sigma_8(0.51)$	0.6206	$0.621^{+0.021}_{-0.020}$	(-0.1σ)
$r_{143 \times 217}^{CIB}$	0.60	—		Y_P^{BBN}	0.246643	$0.24664^{+0.00023}_{-0.00027}$	$(+0.1\sigma)$	$f\sigma_8(0.61)$	0.4675	$0.468^{+0.018}_{-0.016}$	(-0.1σ)
$\xi^{tSZ \times CIB}$	0.01	—		$10^5 D/H$	2.622	$2.62^{+0.11}_{-0.11}$	(-0.1σ)	$\sigma_8(0.61)$	0.5906	$0.591^{+0.020}_{-0.019}$	(-0.1σ)
A^{kSZ}	3.1	—		Age/Gyr	13.764	$13.76^{+0.25}_{-0.24}$	(-0.0σ)	$f\sigma_8(2.33)$	0.2978	$0.298^{+0.010}_{-0.0093}$	(-0.1σ)
A_{100}^{dust}	1.006	$1.01^{+0.48}_{-0.50}$		z_*	1090.14	$1090.1^{+1.1}_{-1.1}$	(-0.1σ)	$\sigma_8(2.33)$	0.3072	$0.307^{+0.011}_{-0.010}$	(-0.1σ)
A_{143}^{dust}	0.971	$0.98^{+0.44}_{-0.44}$		r_*	144.65	$144.7^{+1.2}_{-1.3}$	$(+0.0\sigma)$	f_{2000}^{143}	30.9	31^{+8}_{-8}	(-0.1σ)
A_{217}^{dust}	0.961	$0.97^{+0.26}_{-0.26}$		$100\theta_*$	1.04114	$1.0411^{+0.0013}_{-0.0013}$	$(+0.1\sigma)$	f_{2000}^{217}	107.6	$107.5^{+5.2}_{-5.3}$	(-0.3σ)
$A_{143 \times 217}^{dust}$	1.040	$1.03^{+0.41}_{-0.40}$		$D_M(z_*)/\text{Gpc}$	13.893	$13.89^{+0.11}_{-0.12}$	$(+0.0\sigma)$	$f_{2000}^{143 \times 217}$	33.2	33^{+6}_{-6}	(-0.3σ)
c_{100}	0.99748	$0.9975^{+0.0028}_{-0.0026}$	(-3.5σ)	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.2}$	$(+0.1\sigma)$	χ_{simall}^2	395.87	$397.0 (\nu: 1.6)$	$(+0.0\sigma)$
c_{217}	1.00125	$1.0012^{+0.0040}_{-0.0040}$	$(+4.7\sigma)$	r_{drag}	147.38	$147.4^{+1.2}_{-1.3}$	$(+0.0\sigma)$	χ_{lowl}^2	23.19	$23.2 (\nu: 1.0)$	(-0.2σ)
H_0	67.82	$67.9^{+1.8}_{-1.7}$	$(+0.1\sigma)$	k_D	0.14042	$0.1404^{+0.0013}_{-0.0013}$	$(+0.0\sigma)$	$\chi_{CamSpec}^2$	7051.1	$7064.3 (\nu: 14.7)$	
Ω_Λ	0.6890	$0.689^{+0.020}_{-0.021}$	$(+0.1\sigma)$	$100\theta_D$	0.16104	$0.16105^{+0.00070}_{-0.00066}$	(-0.0σ)	χ_{6DF}^2	0.011	$0.053 (\nu: 0.0)$	(-0.0σ)
Ω_m	0.3099	$0.310^{+0.020}_{-0.018}$	(-0.1σ)	z_{eq}	3391	3390^{+130}_{-120}	(-0.0σ)	χ_{MGS}^2	1.41	$1.52 (\nu: 0.2)$	$(+0.1\sigma)$
$\Omega_m h^2$	0.1425	$0.1425^{+0.0056}_{-0.0051}$	(-0.0σ)	k_{eq}	0.010350	$0.01035^{+0.00041}_{-0.00037}$	(-0.0σ)	$\chi_{DR12BAO}^2$	3.68	$4.5 (\nu: 1.6)$	(-0.1σ)
$\Omega_m h^3$	0.09668	$0.0967^{+0.0046}_{-0.0044}$	$(+0.0\sigma)$	$100\theta_{eq}$	0.8148	$0.815^{+0.024}_{-0.025}$	$(+0.0\sigma)$	χ_{prior}^2	2.3	$7.5 (\nu: 5.6)$	$(+0.1\sigma)$
σ_8	0.8091	$0.809^{+0.029}_{-0.026}$	(-0.1σ)	$100\theta_{s,eq}$	0.4503	$0.450^{+0.012}_{-0.013}$	$(+0.0\sigma)$	χ_{BAO}^2	5.10	$6.1 (\nu: 1.2)$	(-0.0σ)
S_8	0.8223	$0.822^{+0.046}_{-0.041}$	(-0.1σ)	$H(0.15)$	73.11	$73.1^{+1.7}_{-1.7}$	$(+0.1\sigma)$	χ_{CMB}^2	7470.1	$7484.5 (\nu: 15.1)$	$(+1147.3\sigma)$
$\sigma_8 \Omega_m^{0.5}$	0.4504	$0.450^{+0.025}_{-0.023}$	(-0.1σ)	$D_M(0.15)$	639.3	639^{+16}_{-15}	(-0.1σ)				

Best-fit $\chi_{eff}^2 = 7477.49$; $\Delta\chi_{eff}^2 = 6292.12$; $\bar{\chi}_{eff}^2 = 7498.13$; $\Delta\bar{\chi}_{eff}^2 = 6291.87$; $R - 1 = 0.00836$

χ_{eff}^2 : BAO - 6DF: 0.01 (Δ 0.00) MGS: 1.41 (Δ 0.00) DR12BAO: 3.69 (Δ 0.02) CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.87 (Δ 0.02) commander_dx12_v3_2_29: 23.19 (Δ -0.15) CamSpec like_10.7HM: 7051.07

16.22 base_omegak_CamSpecHM_TT_lowl_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00060}_{-0.00059} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.020}_{-0.019} \quad (-0.0\sigma)$	$H(0.38)$	$83.2^{+1.8}_{-1.7} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1199^{+0.0051}_{-0.0048} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1525^{+34}_{-35} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.6}_{-2.3} \quad (+0.0\sigma)$	$H(0.51)$	$89.9^{+1.8}_{-1.7} \quad (+0.1\sigma)$
τ	$0.054^{+0.024}_{-0.020} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.058}_{-0.058} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1976^{+43}_{-43} \quad (-0.1\sigma)$
Ω_K	$0.0011^{+0.0062}_{-0.0061} \quad (+0.0\sigma)$	z_{re}	$7.7^{+2.2}_{-2.1} \quad (+0.0\sigma)$	$H(0.61)$	$95.6^{+1.8}_{-1.8} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.042}_{-0.037} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.091}_{-0.076} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2300^{+49}_{-49} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$236.6^{+4.3}_{-4.1} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0061}_{-0.0066} \quad (-0.1\sigma)$	D_{40}	$1227^{+35}_{-36} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5750^{+95}_{-93} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5708^{+110}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.020} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.7^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.019}_{-0.017} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.24531^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.018}_{-0.017} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.013} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.016} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.76^{+0.24}_{-0.24} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2985^{+0.0088}_{-0.0080} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.52}$	z_*	$1090.2^{+1.1}_{-1.0} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.010}_{-0.0091} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.43}$	r_*	$144.6^{+1.1}_{-1.1} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.25}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.39}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0026} \quad (-3.4\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.49 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0043} \quad (+4.8\sigma)$	r_{drag}	$147.3^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.8) \quad (+0.6\sigma)$
H_0	$67.8^{+1.8}_{-1.7} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 0.8) \quad (-0.6\sigma)$
Ω_{Λ}	$0.688^{+0.016}_{-0.018} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00071}_{-0.00068} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.5 \quad (\nu: 13.3)$
Ω_{m}	$0.311^{+0.017}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3395^{+110}_{-110} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (-0.6\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1427^{+0.0048}_{-0.0046} \quad (+0.0\sigma)$	k_{eq}	$0.01036^{+0.00035}_{-0.00033} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.44 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0967^{+0.0045}_{-0.0043} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.7) \quad (-0.0\sigma)$
σ_8	$0.811^{+0.023}_{-0.021} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.6) \quad (+0.1\sigma)$
S_8	$0.826^{+0.034}_{-0.032} \quad (-0.0\sigma)$	$H(0.15)$	$73.1^{+1.7}_{-1.6} \quad (+0.1\sigma)$	χ_{CMB}^2	$7493.5 \quad (\nu: 14.9) \quad (+1142.3\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+15}_{-16} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7507.17$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.03$; $R - 1 = 0.01378$

16.23 base_omegak_CamSpecHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00061}_{-0.00058} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$H(0.51)$	$90.0^{+1.8}_{-1.7} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1197^{+0.0051}_{-0.0048} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1975^{+41}_{-43} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.057}_{-0.056} \quad (-0.1\sigma)$	$H(0.61)$	$95.6^{+1.8}_{-1.8} \quad (+0.1\sigma)$
τ	$0.055^{+0.023}_{-0.020} \quad (+0.1\sigma)$	z_{re}	$7.7^{+2.1}_{-2.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2298^{+47}_{-49} \quad (-0.1\sigma)$
Ω_K	$0.0011^{+0.0062}_{-0.0061} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.092}_{-0.077} \quad (-0.0\sigma)$	$H(2.33)$	$236.4^{+4.3}_{-4.1} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.043}_{-0.037} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5749^{+95}_{-93} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.014}_{-0.014} \quad (+0.1\sigma)$	D_{40}	$1226^{+35}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0061}_{-0.0066} \quad (-0.1\sigma)$	D_{220}	$5710^{+110}_{-110} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.019} \quad (+0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.019}_{-0.017} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{2000}	$229.8^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.013} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.018}_{-0.017} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.7\sigma)$	Y_{P}	$0.24532^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.016} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2986^{+0.0089}_{-0.0080} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.76^{+0.24}_{-0.24} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.010}_{-0.0091} \quad (+0.0\sigma)$
A^{kSZ}	—	z_*	$1090.1^{+1.1}_{-1.0} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.53}$	r_*	$144.6^{+1.1}_{-1.1} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.5^{+5.1}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.43}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.25}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.50 \quad (\nu: 0.4) \quad (+0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.39}$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.4^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.8) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0043} \quad (+4.8\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0013} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.6 \quad (\nu: 13.3)$
H_0	$67.9^{+1.8}_{-1.7} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00070}_{-0.00070} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.07 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3391^{+110}_{-110} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{m}	$0.310^{+0.017}_{-0.017} \quad (-0.0\sigma)$	k_{eq}	$0.01035^{+0.00035}_{-0.00033} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.51 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0048}_{-0.0045} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 \quad (\nu: 1.4) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0967^{+0.0045}_{-0.0043} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.6) \quad (+0.1\sigma)$
σ_8	$0.811^{+0.023}_{-0.021} \quad (+0.0\sigma)$	$H(0.15)$	$73.1^{+1.7}_{-1.6} \quad (+0.1\sigma)$	χ_{CMB}^2	$7493.6 \quad (\nu: 14.8) \quad (+1146.0\sigma)$
S_8	$0.824^{+0.033}_{-0.032} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$639^{+15}_{-15} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.018}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.3^{+1.7}_{-1.7} \quad (+0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+33}_{-34} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8542.21; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.06; R - 1 = 0.01384$$

16.24 base_omegak_CamSpecHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00060}_{-0.00058} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.026}_{-0.023} \quad (-0.1\sigma)$	$H(0.38)$	$83.3^{+1.7}_{-1.7} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0059}_{-0.0054} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.035}_{-0.031} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+35}_{-34} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0013} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.6}_{-2.6} \quad (+0.1\sigma)$	$H(0.51)$	$90.0^{+1.8}_{-1.7} \quad (+0.1\sigma)$
τ	$0.054^{+0.021}_{-0.014} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.080}_{-0.071} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1975^{+43}_{-42} \quad (-0.1\sigma)$
Ω_K	$0.0011^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	z_{re}	$< 9.59 \quad (-0.0\sigma)$	$H(0.61)$	$95.6^{+1.8}_{-1.8} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.045}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.095}_{-0.062} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2298^{+49}_{-48} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.035}_{-0.035} \quad (-0.3\sigma)$	$H(2.33)$	$236.4^{+4.8}_{-4.5} \quad (-0.0\sigma)$
y_{cal}	$1.0003^{+0.0062}_{-0.0066} \quad (-0.1\sigma)$	D_{40}	$1224^{+42}_{-40} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5750^{+96}_{-94} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5703^{+100}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.024}_{-0.021} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2533^{+35}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.025}_{-0.022} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.020}_{-0.018} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.6^{+4.7}_{-4.8} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.022}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.70 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.019}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	Y_{P}	$0.24531^{+0.00023}_{-0.00027} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.021}_{-0.018} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00027} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.018}_{-0.016} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.020}_{-0.017} \quad (-0.1\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.76^{+0.25}_{-0.24} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2983^{+0.0098}_{-0.0084} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.50}$	z_*	$1090.1^{+1.1}_{-1.1} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.011}_{-0.0095} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.44}_{-0.44}$	r_*	$144.7^{+1.2}_{-1.3} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.25}$	$100\theta_*$	$1.0411^{+0.0013}_{-0.0013} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.3} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.11}_{-0.12} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	r_{drag}	$147.4^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 1.0) \quad (-0.2\sigma)$
H_0	$67.9^{+1.8}_{-1.7} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.1 \quad (\nu: 14.5)$
Ω_{Λ}	$0.689^{+0.020}_{-0.021} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00071}_{-0.00067} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.052 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{m}	$0.309^{+0.020}_{-0.018} \quad (-0.1\sigma)$	z_{eq}	$3389^{+140}_{-120} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.53 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0057}_{-0.0051} \quad (-0.0\sigma)$	k_{eq}	$0.01034^{+0.00041}_{-0.00037} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 1.5) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0967^{+0.0046}_{-0.0044} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.024}_{-0.025} \quad (+0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.6) \quad (+0.1\sigma)$
σ_8	$0.810^{+0.028}_{-0.025} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.451^{+0.012}_{-0.013} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 1.2) \quad (-0.0\sigma)$
S_8	$0.823^{+0.046}_{-0.041} \quad (-0.1\sigma)$	$H(0.15)$	$73.1^{+1.7}_{-1.7} \quad (+0.1\sigma)$	χ_{CMB}^2	$7484.3 \quad (\nu: 14.7) \quad (+1160.2\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.025}_{-0.022} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$639^{+16}_{-15} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7497.90$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.86$; $R - 1 = 0.01053$

16.25 base_omegak_CamSpecHM_TT_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00061}_{-0.00059} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.019}_{-0.019} \quad (-0.0\sigma)$	$H(0.38)$	$83.2^{+1.8}_{-1.7} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1198^{+0.0051}_{-0.0048} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1525^{+34}_{-35} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.6}_{-2.3} \quad (+0.0\sigma)$	$H(0.51)$	$89.9^{+1.8}_{-1.7} \quad (+0.1\sigma)$
τ	$0.055^{+0.021}_{-0.015} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.057}_{-0.056} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1976^{+43}_{-44} \quad (-0.1\sigma)$
Ω_K	$0.0011^{+0.0062}_{-0.0061} \quad (+0.0\sigma)$	z_{re}	$< 9.72 \quad (+0.1\sigma)$	$H(0.61)$	$95.6^{+1.8}_{-1.8} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.042}_{-0.029} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.089}_{-0.061} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2300^{+49}_{-50} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.032}_{-0.030} \quad (-0.2\sigma)$	$H(2.33)$	$236.5^{+4.3}_{-4.1} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0067} \quad (-0.1\sigma)$	D_{40}	$1227^{+35}_{-36} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5751^{+94}_{-94} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{220}	$5708^{+110}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+34}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.019} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	D_{1420}	$815^{+13}_{-14} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.7^{+4.7}_{-4.8} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.019}_{-0.017} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.76 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.014} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	Y_{P}	$0.24531^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.623^{+0.018}_{-0.016} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00024}_{-0.00028} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.015} \quad (+0.0\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.24}_{-0.24} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2987^{+0.0088}_{-0.0076} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.51}$	z_*	$1090.1^{+1.1}_{-1.0} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.010}_{-0.0089} \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.43}$	r_*	$144.6^{+1.1}_{-1.1} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.25}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.39}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0026} \quad (-3.5\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.43 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0043} \quad (+4.8\sigma)$	r_{drag}	$147.4^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.9) \quad (+0.6\sigma)$
H_0	$67.8^{+1.8}_{-1.6} \quad (+0.1\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0013} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 0.8) \quad (-0.6\sigma)$
Ω_{Λ}	$0.689^{+0.016}_{-0.018} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00071}_{-0.00070} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.4 \quad (\nu: 13.2)$
Ω_{m}	$0.310^{+0.016}_{-0.017} \quad (-0.0\sigma)$	z_{eq}	$3393^{+110}_{-110} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.6\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0048}_{-0.0046} \quad (+0.0\sigma)$	k_{eq}	$0.01035^{+0.00035}_{-0.00033} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.45 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0967^{+0.0045}_{-0.0043} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.7) \quad (-0.0\sigma)$
σ_8	$0.812^{+0.022}_{-0.021} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.6) \quad (+0.1\sigma)$
S_8	$0.826^{+0.034}_{-0.033} \quad (-0.0\sigma)$	$H(0.15)$	$73.1^{+1.8}_{-1.6} \quad (+0.1\sigma)$	χ_{CMB}^2	$7493.3 \quad (\nu: 14.5) \quad (+1155.4\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+15}_{-16} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 1.2) \quad (-0.0\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7506.97$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.02$; $R - 1 = 0.01641$

16.26 base_omegak_CamSpecHM_TT_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02219^{+0.00062}_{-0.00058} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$H(0.51)$	$90.0^{+1.8}_{-1.7} \quad (+0.1\sigma)$
$\Omega_{\text{c}} h^2$	$0.1196^{+0.0051}_{-0.0048} \quad (+0.0\sigma)$	$r_{\text{drag}} h$	$100.0^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_{\text{M}}(0.51)$	$1975^{+41}_{-44} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	$1.0409^{+0.0013}_{-0.0012} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.057}_{-0.055} \quad (-0.1\sigma)$	$H(0.61)$	$95.6^{+1.8}_{-1.8} \quad (+0.1\sigma)$
τ	$0.056^{+0.021}_{-0.015} \quad (+0.1\sigma)$	z_{re}	$< 9.72 \quad (+0.1\sigma)$	$D_{\text{M}}(0.61)$	$2298^{+47}_{-49} \quad (-0.1\sigma)$
Ω_K	$0.0010^{+0.0062}_{-0.0061} \quad (+0.0\sigma)$	$10^9 A_{\text{s}}$	$2.100^{+0.088}_{-0.061} \quad (-0.0\sigma)$	$H(2.33)$	$236.4^{+4.3}_{-4.0} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.044^{+0.041}_{-0.029} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.032}_{-0.030} \quad (-0.2\sigma)$	$D_{\text{M}}(2.33)$	$5750^{+95}_{-93} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.014}_{-0.014} \quad (+0.1\sigma)$	D_{40}	$1226^{+35}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0067} \quad (-0.1\sigma)$	D_{220}	$5710^{+110}_{-110} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.021}_{-0.019} \quad (+0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{810}	$2534^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.019}_{-0.017} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$229.8^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\text{s},0.002}$	$0.966^{+0.014}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.623^{+0.018}_{-0.016} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.7\sigma)$	Y_{P}	$0.24532^{+0.00024}_{-0.00027} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.65^{+0.31}_{-0.33}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24665^{+0.00024}_{-0.00027} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.015} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2988^{+0.0088}_{-0.0077} \quad (+0.0\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Age/Gyr	$13.76^{+0.24}_{-0.24} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.010}_{-0.0089} \quad (+0.0\sigma)$
A^{kSZ}	—	z_*	$1090.1^{+1.1}_{-1.0} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.51}$	r_*	$144.7^{+1.1}_{-1.1} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.5^{+5.2}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.43}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.25}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.89^{+0.10}_{-0.10} \quad (-0.0\sigma)$	χ_{lensing}^2	$9.44 \quad (\nu: 0.3) \quad (+0.2\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.42}_{-0.39}$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 2.0) \quad (+0.6\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.4^{+1.1}_{-1.1} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.8) \quad (-0.6\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0042} \quad (+4.8\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0013} \quad (+0.1\sigma)$	χ_{CamSpec}^2	$7063.5 \quad (\nu: 13.3)$
H_0	$67.9^{+1.8}_{-1.7} \quad (+0.1\sigma)$	$100\theta_{\text{D}}$	$0.16102^{+0.00070}_{-0.00070} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.06 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.690^{+0.016}_{-0.017} \quad (+0.0\sigma)$	z_{eq}	$3389^{+110}_{-110} \quad (+0.0\sigma)$	$\chi_{6\text{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{m}	$0.309^{+0.017}_{-0.017} \quad (-0.1\sigma)$	k_{eq}	$0.01034^{+0.00035}_{-0.00033} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.51 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\text{m}} h^2$	$0.1425^{+0.0047}_{-0.0045} \quad (+0.0\sigma)$	$100\theta_{\text{eq}}$	$0.815^{+0.021}_{-0.021} \quad (-0.0\sigma)$	χ_{DR12BAO}^2	$4.4 \quad (\nu: 1.4) \quad (-0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.0967^{+0.0045}_{-0.0042} \quad (+0.0\sigma)$	$100\theta_{\text{s,eq}}$	$0.451^{+0.011}_{-0.011} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.6) \quad (+0.1\sigma)$
σ_8	$0.811^{+0.022}_{-0.021} \quad (+0.0\sigma)$	$H(0.15)$	$73.1^{+1.7}_{-1.6} \quad (+0.1\sigma)$	χ_{CMB}^2	$7493.4 \quad (\nu: 14.4) \quad (+1157.0\sigma)$
S_8	$0.824^{+0.033}_{-0.032} \quad (-0.0\sigma)$	$D_{\text{M}}(0.15)$	$639^{+15}_{-15} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.018}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.2^{+1.7}_{-1.7} \quad (+0.1\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.605^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$D_{\text{M}}(0.38)$	$1524^{+33}_{-35} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 8542.02; \Delta \bar{\chi}_{\text{eff}}^2 = 6292.05; R - 1 = 0.01706$$

16.27 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022328	$0.02232^{+0.00042}_{-0.00044} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4488	$0.449^{+0.019}_{-0.019} \quad (-0.4\sigma)$	$H(0.38)$	83.29	$83.2^{+1.6}_{-1.5} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.11934	$0.1192^{+0.0041}_{-0.0037} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6022	$0.602^{+0.020}_{-0.019} \quad (-0.5\sigma)$	$D_M(0.38)$	1523.0	$1525^{+32}_{-33} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04093	$1.04092^{+0.00080}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9805	$0.980^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$H(0.51)$	89.99	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	0.0531	$0.053^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$r_{drag}h$	100.08	$100.0^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_M(0.51)$	1973.4	$1975^{+39}_{-41} \quad (+0.1\sigma)$
Ω_K	0.0008	$0.0005^{+0.0051}_{-0.0051} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.423	$2.423^{+0.068}_{-0.063} \quad (-0.5\sigma)$	$H(0.61)$	95.60	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0392	$3.038^{+0.043}_{-0.043} \quad (-0.4\sigma)$	z_{re}	7.56	$7.5^{+2.0}_{-2.4} \quad (-0.2\sigma)$	$D_M(0.61)$	2296.7	$2299^{+44}_{-46} \quad (+0.1\sigma)$
n_s	0.9672	$0.967^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_s$	2.089	$2.088^{+0.092}_{-0.087} \quad (-0.4\sigma)$	$H(2.33)$	236.27	$236.1^{+3.4}_{-3.2} \quad (-0.4\sigma)$
y_{cal}	1.0005	$1.0004^{+0.0064}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8784	$1.877^{+0.032}_{-0.028} \quad (-0.4\sigma)$	$D_M(2.33)$	5749	$5753^{+78}_{-81} \quad (+0.2\sigma)$
A_{100}^{PS}	235	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.3	$1223^{+36}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4535	$0.453^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{143}^{PS}	49.2	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5719	$5720^{+100}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7471	$0.746^{+0.020}_{-0.020} \quad (-0.4\sigma)$
A_{217}^{PS}	105.6	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2537.3	$2534^{+36}_{-33} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4725	$0.472^{+0.016}_{-0.016} \quad (-0.4\sigma)$
A_{217}^{CIB}	39.9	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	816.9	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6626	$0.662^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{143}^{tSZ}	5.0	—	D_{2000}	230.71	$230.3^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4714	$0.471^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	0.758	$0.66^{+0.31}_{-0.35}$	$n_{s,0.002}$	0.9672	$0.967^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6203	$0.619^{+0.017}_{-0.017} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.71	—	Y_P	0.245378	$0.24538^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4667	$0.466^{+0.014}_{-0.013} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	0.95	—	Y_P^{BBN}	0.246705	$0.24670^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5903	$0.590^{+0.016}_{-0.016} \quad (-0.4\sigma)$
A^{kSZ}	2.5	—	$10^5 D/H$	2.593	$2.595^{+0.084}_{-0.076} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2977	$0.2973^{+0.0081}_{-0.0081} \quad (-0.4\sigma)$
A_{100}^{dust}	1.008	$1.01^{+0.50}_{-0.50}$	Age/Gyr	13.761	$13.77^{+0.20}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	0.3072	$0.3067^{+0.0091}_{-0.0089} \quad (-0.3\sigma)$
A_{143}^{dust}	0.952	$0.97^{+0.44}_{-0.45}$	z_*	1089.92	$1089.91^{+0.84}_{-0.75} \quad (+0.1\sigma)$	f_{2000}^{143}	29.7	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.966	$0.97^{+0.28}_{-0.28}$	r_*	144.63	$144.67^{+0.82}_{-0.89} \quad (+0.6\sigma)$	f_{2000}^{217}	106.35	$106.8^{+5.0}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.019	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	1.04111	$1.04111^{+0.00079}_{-0.00080} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99785	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.892	$13.896^{+0.077}_{-0.082} \quad (+0.6\sigma)$	χ_{small}^2	395.85	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	1.00095	$1.0011^{+0.0040}_{-0.0042} \quad (+4.7\sigma)$	z_{drag}	1059.78	$1059.77^{+0.85}_{-0.87} \quad (-0.6\sigma)$	χ_{lowl}^2	22.88	$23.0 \quad (\nu: 0.5) \quad (-0.4\sigma)$
c_{TE}	0.9969	$0.997^{+0.013}_{-0.013}$	r_{drag}	147.31	$147.35^{+0.80}_{-0.86} \quad (+0.7\sigma)$	$\chi_{CamSpec}^2$	11500.8	$11514.9 \quad (\nu: 15.9)$
c_{EE}	0.9922	$0.992^{+0.013}_{-0.013}$	k_D	0.14060	$0.14056^{+0.00088}_{-0.00085} \quad (-0.8\sigma)$	χ_{6DF}^2	0.006	$0.052 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	67.94	$67.9^{+1.7}_{-1.6} \quad (-0.0\sigma)$	$100\theta_D$	0.16084	$0.16085^{+0.00052}_{-0.00049} \quad (+0.5\sigma)$	χ_{MGS}^2	1.47	$1.50 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_Λ	0.6909	$0.691^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	3385	$3382^{+93}_{-82} \quad (-0.4\sigma)$	$\chi_{DR12BAO}^2$	3.65	$4.6 \quad (\nu: 1.7) \quad (-0.1\sigma)$
Ω_m	0.3083	$0.309^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	0.010333	$0.01032^{+0.00028}_{-0.00025} \quad (-0.4\sigma)$	χ_{prior}^2	1.8	$7.8 \quad (\nu: 5.9) \quad (-0.9\sigma)$
$\Omega_m h^2$	0.14231	$0.1422^{+0.0039}_{-0.0035} \quad (-0.4\sigma)$	$100\theta_{eq}$	0.8162	$0.817^{+0.016}_{-0.017} \quad (+0.4\sigma)$	χ_{BAO}^2	5.13	$6.2 \quad (\nu: 1.2) \quad (-0.0\sigma)$
$\Omega_m h^3$	0.09668	$0.0965^{+0.0037}_{-0.0034} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	0.4509	$0.4512^{+0.0082}_{-0.0088} \quad (+0.4\sigma)$	χ_{CMB}^2	11919.5	$11934.9 \quad (\nu: 16.6) \quad (+1569.7\sigma)$
σ_8	0.8082	$0.807^{+0.022}_{-0.021} \quad (-0.4\sigma)$	$H(0.15)$	73.20	$73.1^{+1.6}_{-1.5} \quad (-0.1\sigma)$			
S_8	0.8193	$0.819^{+0.035}_{-0.034} \quad (-0.4\sigma)$	$D_M(0.15)$	638.3	$639^{+14}_{-15} \quad (+0.0\sigma)$			

Best-fit $\chi_{eff}^2 = 11926.45$; $\Delta\chi_{eff}^2 = 9155.07$; $\bar{\chi}_{eff}^2 = 11948.83$; $\Delta\bar{\chi}_{eff}^2 = 9150.25$; $R - 1 = 0.01869$
 χ_{eff}^2 : BAO - 6DF: 0.01 (Δ -0.01) MGS: 1.47 (Δ 0.13) DR12BAO: 3.65 (Δ -0.26) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.85 (Δ -0.21) commander_dx12_v3_2_29: 22.88 (Δ -0.33) CamSpec like_10.7HM_1400_unified: 11500.78

16.28 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02233^{+0.00042}_{-0.00043} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.016}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.2^{+1.6}_{-1.4} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.1193^{+0.0039}_{-0.0035} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1526^{+31}_{-32} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04091^{+0.00078}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	$0.055^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.9^{+2.4}_{-2.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1977^{+39}_{-40} \quad (+0.1\sigma)$
Ω_K	$0.0005^{+0.0050}_{-0.0053} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.050}_{-0.052} \quad (-0.3\sigma)$	$H(0.61)$	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.038}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$7.7^{+1.9}_{-2.1} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2301^{+43}_{-45} \quad (+0.2\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.097^{+0.081}_{-0.077} \quad (-0.2\sigma)$	$H(2.33)$	$236.2^{+3.4}_{-3.2} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.030}_{-0.027} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5755^{+79}_{-81} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+97}_{-98} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2536^{+35}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.013} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{tSZ}	—	D_{2000}	$230.4^{+4.3}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\text{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24538^{+0.00016}_{-0.00019} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00016}_{-0.00019} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.594^{+0.082}_{-0.076} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0075}_{-0.0072} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$13.78^{+0.21}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0085}_{-0.0081} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	z_*	$1089.92^{+0.81}_{-0.74} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+7}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.64^{+0.79}_{-0.84} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.8^{+5.4}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.40}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00078}_{-0.00076} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.893^{+0.074}_{-0.079} \quad (+0.5\sigma)$	χ_{lensing}^2	$9.31 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.79^{+0.87}_{-0.85} \quad (-0.6\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.5) \quad (+0.6\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	r_{drag}	$147.32^{+0.80}_{-0.82} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.6\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14059^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	χ_{CamSpec}^2	$11514.4 \quad (\nu: 15.7)$
H_0	$67.8^{+1.7}_{-1.6} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16084^{+0.00051}_{-0.00047} \quad (+0.6\sigma)$	$\chi_{6\text{DF}}^2$	$0.056 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{Λ}	$0.690^{+0.014}_{-0.016} \quad (+0.1\sigma)$	z_{eq}	$3385^{+88}_{-78} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.42 \quad (\nu: 0.2) \quad (+0.5\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.0\sigma)$	k_{eq}	$0.01033^{+0.00027}_{-0.00024} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.8 \quad (\nu: 1.9) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^2$	$0.1423^{+0.0037}_{-0.0033} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.816^{+0.015}_{-0.017} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.0965^{+0.0036}_{-0.0036} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4510^{+0.0078}_{-0.0085} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.9 \quad (\nu: 17.2) \quad (+1544.1\sigma)$
σ_8	$0.809^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.15)$	$73.1^{+1.6}_{-1.5} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 1.3) \quad (+0.0\sigma)$
S_8	$0.822^{+0.029}_{-0.028} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$640^{+14}_{-15} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11957.96; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.75; R - 1 = 0.03026$$

16.29 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02233^{+0.00044}_{-0.00042} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.2^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\Omega_{\text{c}}h^2$	$0.1192^{+0.0039}_{-0.0035} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.603^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1525^{+31}_{-32} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04092^{+0.00077}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$H(0.51)$	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	$0.055^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$r_{\text{drag}}h$	$99.97^{+2.3}_{-2.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1976^{+38}_{-40} \quad (+0.2\sigma)$
Ω_K	$0.0005^{+0.0050}_{-0.0052} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.051}_{-0.052} \quad (-0.3\sigma)$	$H(0.61)$	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\text{s}})$	$3.043^{+0.038}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$7.8^{+1.9}_{-2.1} \quad (-0.1\sigma)$	$D_{\text{M}}(0.61)$	$2299^{+44}_{-44} \quad (+0.2\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	10^9A_{s}	$2.098^{+0.081}_{-0.077} \quad (-0.2\sigma)$	$H(2.33)$	$236.2^{+3.3}_{-3.2} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0062} \quad (-0.0\sigma)$	$10^9A_{\text{s}}e^{-2\tau}$	$1.878^{+0.030}_{-0.027} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5753^{+80}_{-80} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+98}_{-97} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.018} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2536^{+35}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{tSZ}	—	D_{2000}	$230.4^{+4.3}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\text{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24538^{+0.00017}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00017}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5\text{D}/\text{H}$	$2.593^{+0.079}_{-0.080} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0074}_{-0.0073} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$13.77^{+0.21}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0084}_{-0.0082} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	z_*	$1089.90^{+0.80}_{-0.74} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+7}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.28}$	r_*	$144.66^{+0.78}_{-0.84} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.8^{+5.3}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.40}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00077}_{-0.00077} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.894^{+0.072}_{-0.078} \quad (+0.5\sigma)$	χ_{lensing}^2	$9.33 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.80^{+0.90}_{-0.86} \quad (-0.6\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+0.6\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	r_{drag}	$147.33^{+0.79}_{-0.82} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.6\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14058^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	χ_{CamSpec}^2	$11514.4 \quad (\nu: 15.6)$
H_0	$67.9^{+1.6}_{-1.6} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16083^{+0.00052}_{-0.00048} \quad (+0.6\sigma)$	χ_{JLA}^2	$1035.02 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.691^{+0.014}_{-0.015} \quad (+0.1\sigma)$	z_{eq}	$3383^{+88}_{-77} \quad (-0.3\sigma)$	$\chi_{6\text{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{m}	$0.309^{+0.016}_{-0.015} \quad (-0.0\sigma)$	k_{eq}	$0.01033^{+0.00027}_{-0.00024} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.48 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\text{m}}h^2$	$0.1422^{+0.0037}_{-0.0032} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.015}_{-0.016} \quad (+0.3\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_{\text{m}}h^3$	$0.0965^{+0.0036}_{-0.0036} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4511^{+0.0077}_{-0.0085} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.1) \quad (-0.8\sigma)$
σ_8	$0.809^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.15)$	$73.1^{+1.6}_{-1.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11944.0 \quad (\nu: 17.0) \quad (+1542.2\sigma)$
S_8	$0.821^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$639^{+14}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 1.1) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 12992.90; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.71; R - 1 = 0.03012$$

16.30 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00042}_{-0.00044} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.019}_{-0.018} \quad (-0.4\sigma)$	$H(0.38)$	$83.2^{+1.6}_{-1.5} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0041}_{-0.0037} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.020}_{-0.018} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+32}_{-33} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04092^{+0.00080}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.981^{+0.027}_{-0.025} \quad (-0.4\sigma)$	$H(0.51)$	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.0^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1975^{+39}_{-41} \quad (+0.1\sigma)$
Ω_K	$0.0005^{+0.0052}_{-0.0052} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.066}_{-0.057} \quad (-0.4\sigma)$	$H(0.61)$	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.029} \quad (-0.4\sigma)$	z_{re}	$< 9.45 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2299^{+44}_{-46} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.086}_{-0.061} \quad (-0.4\sigma)$	$H(2.33)$	$236.1^{+3.5}_{-3.2} \quad (-0.4\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.032}_{-0.028} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5753^{+79}_{-82} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1223^{+36}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.018}_{-0.017} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5719^{+100}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.019}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{810}	$2534^{+35}_{-33} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.016}_{-0.014} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.017}_{-0.015} \quad (-0.4\sigma)$
A_{143}^{tSZ}	—	D_{2000}	$230.3^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.014}_{-0.013} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.016}_{-0.014} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.012} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.015}_{-0.014} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.594^{+0.084}_{-0.076} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0078}_{-0.0069} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.77^{+0.20}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3072^{+0.0087}_{-0.0078} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.45}$	z_*	$1089.90^{+0.84}_{-0.75} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.28}$	r_*	$144.68^{+0.82}_{-0.89} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	$100\theta_*$	$1.04111^{+0.00079}_{-0.00080} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.077}_{-0.082} \quad (+0.6\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0042} \quad (+4.6\sigma)$	z_{drag}	$1059.78^{+0.84}_{-0.84} \quad (-0.6\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.5) \quad (-0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.36^{+0.81}_{-0.86} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 15.7)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14056^{+0.00089}_{-0.00085} \quad (-0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.052 \quad (\nu: 0.0) \quad (-0.1\sigma)$
H_0	$67.9^{+1.7}_{-1.6} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00052}_{-0.00049} \quad (+0.5\sigma)$	χ_{MGS}^2	$1.51 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_{Λ}	$0.691^{+0.016}_{-0.017} \quad (+0.2\sigma)$	z_{eq}	$3382^{+92}_{-83} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.7) \quad (-0.0\sigma)$
Ω_{m}	$0.309^{+0.017}_{-0.016} \quad (-0.2\sigma)$	k_{eq}	$0.01032^{+0.00028}_{-0.00025} \quad (-0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0039}_{-0.0035} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.016}_{-0.017} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 1.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0965^{+0.0037}_{-0.0035} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4513^{+0.0082}_{-0.0088} \quad (+0.4\sigma)$	χ_{CMB}^2	$11934.6 \quad (\nu: 16.2) \quad (+1592.1\sigma)$
σ_8	$0.808^{+0.021}_{-0.019} \quad (-0.4\sigma)$	$H(0.15)$	$73.1^{+1.7}_{-1.5} \quad (-0.1\sigma)$		
S_8	$0.820^{+0.035}_{-0.033} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$639^{+14}_{-15} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.57; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.24; R - 1 = 0.01907$$

16.31 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02233^{+0.00043}_{-0.00043} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.016}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.2^{+1.6}_{-1.4} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.1193^{+0.0039}_{-0.0035} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1526^{+31}_{-32} \quad (+0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04091^{+0.00078}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$H(0.51)$	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.9^{+2.4}_{-2.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1977^{+39}_{-40} \quad (+0.2\sigma)$
Ω_K	$0.0005^{+0.0051}_{-0.0053} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.050}_{-0.051} \quad (-0.3\sigma)$	$H(0.61)$	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.044^{+0.037}_{-0.029} \quad (-0.2\sigma)$	z_{re}	$< 9.52 \quad (-0.0\sigma)$	$D_{\text{M}}(0.61)$	$2301^{+43}_{-45} \quad (+0.2\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.100^{+0.079}_{-0.061} \quad (-0.2\sigma)$	$H(2.33)$	$236.2^{+3.4}_{-3.2} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.030}_{-0.026} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5755^{+79}_{-81} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.015}_{-0.014} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+98}_{-97} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+34}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	—	D_{2000}	$230.4^{+4.3}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\text{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24538^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24670^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.013} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.594^{+0.082}_{-0.078} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0073}_{-0.0068} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$13.78^{+0.21}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0083}_{-0.0080} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.43}_{-0.44}$	z_*	$1089.91^{+0.80}_{-0.74} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+7}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.28}$	r_*	$144.65^{+0.78}_{-0.85} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.8^{+5.3}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.40}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00077}_{-0.00077} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.894^{+0.073}_{-0.079} \quad (+0.5\sigma)$	χ_{lensing}^2	$9.26 \quad (\nu: 0.2) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.79^{+0.87}_{-0.85} \quad (-0.6\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+0.6\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	r_{drag}	$147.32^{+0.79}_{-0.83} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.6\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14059^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	χ_{CamSpec}^2	$11514.3 \quad (\nu: 15.6)$
H_0	$67.8^{+1.7}_{-1.6} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16084^{+0.00051}_{-0.00048} \quad (+0.6\sigma)$	$\chi_{6\text{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{Λ}	$0.690^{+0.014}_{-0.016} \quad (+0.1\sigma)$	z_{eq}	$3384^{+88}_{-78} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.43 \quad (\nu: 0.2) \quad (+0.5\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.0\sigma)$	k_{eq}	$0.01033^{+0.00027}_{-0.00024} \quad (-0.3\sigma)$	χ_{DR12BAO}^2	$4.8 \quad (\nu: 1.9) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^2$	$0.1423^{+0.0037}_{-0.0033} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.816^{+0.015}_{-0.017} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\text{m}} h^3$	$0.0965^{+0.0037}_{-0.0036} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4510^{+0.0078}_{-0.0085} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.7 \quad (\nu: 16.8) \quad (+1561.2\sigma)$
σ_8	$0.810^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.15)$	$73.1^{+1.6}_{-1.5} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 1.3) \quad (+0.0\sigma)$
S_8	$0.823^{+0.030}_{-0.027} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$640^{+14}_{-15} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11957.78; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.73; R - 1 = 0.03337$$

16.32 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_Pantheon18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02234^{+0.00044}_{-0.00041} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.2^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\Omega_{\text{c}} h^2$	$0.1192^{+0.0039}_{-0.0034} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_{\text{M}}(0.38)$	$1525^{+31}_{-32} \quad (+0.2\sigma)$
$100\theta_{\text{MC}}$	$1.04092^{+0.00077}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.51)$	$89.9^{+1.6}_{-1.5} \quad (-0.2\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$r_{\text{drag}} h$	$99.99^{+2.3}_{-2.3} \quad (+0.0\sigma)$	$D_{\text{M}}(0.51)$	$1975^{+39}_{-40} \quad (+0.2\sigma)$
Ω_K	$0.0005^{+0.0050}_{-0.0053} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.050}_{-0.051} \quad (-0.3\sigma)$	$H(0.61)$	$95.5^{+1.6}_{-1.5} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\text{s}})$	$3.045^{+0.037}_{-0.030} \quad (-0.2\sigma)$	z_{re}	$< 9.54 \quad (-0.0\sigma)$	$D_{\text{M}}(0.61)$	$2299^{+44}_{-45} \quad (+0.2\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\text{s}}$	$2.101^{+0.078}_{-0.061} \quad (-0.2\sigma)$	$H(2.33)$	$236.1^{+3.3}_{-3.2} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.878^{+0.031}_{-0.026} \quad (-0.4\sigma)$	$D_{\text{M}}(2.33)$	$5753^{+80}_{-83} \quad (+0.3\sigma)$
A_{100}^{PS}	$240^{+70}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+34}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+99}_{-96} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	—	D_{2000}	$230.4^{+4.4}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.35}$	$n_{\text{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	Y_{P}	$0.24538^{+0.00017}_{-0.00018} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00017}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \text{D}/\text{H}$	$2.592^{+0.079}_{-0.080} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2982^{+0.0073}_{-0.0068} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	Age/Gyr	$13.77^{+0.21}_{-0.21} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3077^{+0.0082}_{-0.0081} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	z_*	$1089.90^{+0.79}_{-0.73} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+7}_{-8} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.28}$	r_*	$144.66^{+0.77}_{-0.84} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.7^{+5.2}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.40}_{-0.42}$	$100\theta_*$	$1.04111^{+0.00077}_{-0.00077} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.5\sigma)$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.895^{+0.072}_{-0.078} \quad (+0.5\sigma)$	χ_{lensing}^2	$9.27 \quad (\nu: 0.3) \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.80^{+0.90}_{-0.82} \quad (-0.6\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (+0.6\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.013}$	r_{drag}	$147.34^{+0.79}_{-0.83} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.1 \quad (\nu: 0.5) \quad (-0.6\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	k_{D}	$0.14058^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	χ_{CamSpec}^2	$11514.3 \quad (\nu: 15.5)$
H_0	$67.9^{+1.6}_{-1.6} \quad (-0.1\sigma)$	$100\theta_{\text{D}}$	$0.16083^{+0.00051}_{-0.00048} \quad (+0.6\sigma)$	χ_{JLA}^2	$1035.01 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.691^{+0.014}_{-0.014} \quad (+0.1\sigma)$	z_{eq}	$3383^{+88}_{-77} \quad (-0.3\sigma)$	$\chi_{6\text{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.6\sigma)$
Ω_{m}	$0.309^{+0.016}_{-0.015} \quad (-0.0\sigma)$	k_{eq}	$0.01032^{+0.00027}_{-0.00023} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.48 \quad (\nu: 0.2) \quad (+0.5\sigma)$
$\Omega_{\text{m}} h^2$	$0.1422^{+0.0037}_{-0.0032} \quad (-0.3\sigma)$	$100\theta_{\text{eq}}$	$0.817^{+0.015}_{-0.016} \quad (+0.3\sigma)$	χ_{DR12BAO}^2	$4.6 \quad (\nu: 1.5) \quad (+0.0\sigma)$
$\Omega_{\text{m}} h^3$	$0.0965^{+0.0037}_{-0.0036} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4512^{+0.0076}_{-0.0084} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.2) \quad (-0.8\sigma)$
σ_8	$0.810^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.15)$	$73.1^{+1.6}_{-1.5} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.8 \quad (\nu: 16.6) \quad (+1557.6\sigma)$
S_8	$0.821^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$D_{\text{M}}(0.15)$	$639^{+14}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 1.1) \quad (+0.0\sigma)$

$$\bar{\chi}_{\text{eff}}^2 = 12992.73; \Delta\bar{\chi}_{\text{eff}}^2 = 9150.67; R - 1 = 0.03308$$

16.33 base_omegak_plikHM_TT_lowl_lowE_BAO_Riess18_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02217	$0.02217^{+0.00058}_{-0.00057}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6030	$0.602^{+0.024}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1508.4	1508^{+33}_{-32}
$\Omega_{\mathrm{c}}h^2$	0.1200	$0.1201^{+0.0058}_{-0.0054}$	$\sigma_8/h^{0.5}$	0.9808	$0.980^{+0.032}_{-0.032}$	$H(0.51)$	90.70	$90.7^{+1.7}_{-1.8}$
$100\theta_{\mathrm{MC}}$	1.04087	$1.0409^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}}h$	101.16	$101.2^{+2.4}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1955.2	1954^{+41}_{-40}
τ	0.0540	$0.053^{+0.021}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.422	$2.420^{+0.074}_{-0.073}$	$H(0.61)$	96.31	$96.4^{+1.8}_{-1.9}$
Ω_K	0.0030	$0.0032^{+0.0065}_{-0.0063}$	z_{re}	7.70	$7.6^{+2.0}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2276.2	2275^{+47}_{-46}
$\ln(10^{10}A_{\mathrm{s}})$	3.0422	$3.040^{+0.044}_{-0.046}$	10^9A_{s}	2.095	$2.092^{+0.093}_{-0.095}$	$H(2.33)$	237.12	$237.2^{+4.9}_{-4.6}$
n_{s}	0.9645	$0.964^{+0.015}_{-0.016}$	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8809	$1.882^{+0.038}_{-0.036}$	$D_{\mathrm{M}}(2.33)$	5714	5712^{+98}_{-92}
α_{JLA}	0.1412	$0.141^{+0.016}_{-0.017}$	D_{40}	1229.6	1231^{+44}_{-40}	$f\sigma_8(0.15)$	0.4523	$0.452^{+0.021}_{-0.020}$
β_{JLA}	3.101	$3.10^{+0.21}_{-0.20}$	D_{220}	5710	5717^{+120}_{-110}	$\sigma_8(0.15)$	0.7519	$0.751^{+0.024}_{-0.024}$
y_{cal}	1.0002	$1.0004^{+0.0067}_{-0.0068}$	D_{810}	2536.4	2537^{+37}_{-38}	$f\sigma_8(0.38)$	0.4724	$0.472^{+0.019}_{-0.018}$
A_{217}^{CIB}	50.0	48^{+20}_{-20}	D_{1420}	815.2	815^{+13}_{-14}	$\sigma_8(0.38)$	0.6676	$0.667^{+0.021}_{-0.021}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.11	—	D_{2000}	229.80	$229.7^{+4.9}_{-4.7}$	$f\sigma_8(0.51)$	0.4720	$0.471^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.1	—	$n_{\mathrm{s},0.002}$	0.9645	$0.964^{+0.015}_{-0.016}$	$\sigma_8(0.51)$	0.6252	$0.625^{+0.020}_{-0.020}$
A_{100}^{PS}	256	264^{+70}_{-70}	Y_{P}	0.245315	$0.24531^{+0.00023}_{-0.00027}$	$f\sigma_8(0.61)$	0.4677	$0.467^{+0.017}_{-0.016}$
A_{143}^{PS}	46.9	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246641	$0.24664^{+0.00023}_{-0.00027}$	$\sigma_8(0.61)$	0.5952	$0.595^{+0.019}_{-0.019}$
$A_{143\times 217}^{\mathrm{PS}}$	41.7	43^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	2.623	$2.62^{+0.11}_{-0.11}$	$f\sigma_8(2.33)$	0.3003	$0.3001^{+0.0093}_{-0.0093}$
A_{217}^{PS}	117.2	115^{+30}_{-30}	Age/Gyr	13.672	$13.67^{+0.25}_{-0.24}$	$\sigma_8(2.33)$	0.3104	$0.310^{+0.010}_{-0.010}$
A^{kSZ}	0.0	—	z_*	1090.17	$1090.2^{+1.2}_{-1.0}$	f_{2000}^{143}	30.8	31^{+8}_{-7}
$A_{100}^{\mathrm{dustTT}}$	8.98	$8.9^{+4.8}_{-4.7}$	r_*	144.57	$144.6^{+1.3}_{-1.3}$	$f_{2000}^{143\times 217}$	33.5	34^{+5}_{-5}
$A_{143}^{\mathrm{dustTT}}$	10.69	$10.7^{+4.8}_{-4.8}$	$100\theta_*$	1.04107	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	107.97	$108.1^{+4.9}_{-4.9}$
$A_{143\times 217}^{\mathrm{dustTT}}$	19.1	$18.3^{+8.8}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.887	$13.89^{+0.12}_{-0.12}$	χ_{small}^2	396.06	$397.0 (\nu: 1.5)$
$A_{217}^{\mathrm{dustTT}}$	94.3	93^{+20}_{-20}	z_{drag}	1059.47	$1059.5^{+1.1}_{-1.2}$	χ_{lowl}^2	23.66	$23.9 (\nu: 1.2)$
c_{100}	0.99961	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	147.30	$147.3^{+1.3}_{-1.3}$	χ_{plik}^2	760.0	$773.0 (\nu: 14.8)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	0.14049	$0.1405^{+0.0014}_{-0.0014}$	$\chi_{\mathrm{H073p45}}^2$	8.3	$8.3 (\nu: 2.5)$
H_0	68.67	$68.7^{+1.7}_{-1.6}$	$100\theta_{\mathrm{D}}$	0.16102	$0.16103^{+0.00071}_{-0.00066}$	χ_{JLA}^2	695.12	$697.2 (\nu: 2.0)$
Ω_{Λ}	0.6940	$0.694^{+0.018}_{-0.019}$	z_{eq}	3398	3400^{+130}_{-120}	$\chi_{6\mathrm{DF}}^2$	0.023	$0.067 (\nu: 0.0)$
Ω_{m}	0.3029	$0.303^{+0.017}_{-0.017}$	k_{eq}	0.010372	$0.01038^{+0.00041}_{-0.00037}$	χ_{MGS}^2	2.19	$2.30 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	0.1429	$0.1429^{+0.0056}_{-0.0051}$	$100\theta_{\mathrm{eq}}$	0.8134	$0.813^{+0.024}_{-0.024}$	$\chi_{\mathrm{DR12BAO}}^2$	3.30	$4.1 (\nu: 0.9)$
$\Omega_{\mathrm{m}}h^3$	0.09810	$0.0982^{+0.0048}_{-0.0046}$	$100\theta_{\mathrm{s,eq}}$	0.4496	$0.450^{+0.012}_{-0.012}$	χ_{prior}^2	1.6	$7.4 (\nu: 6.9)$
σ_8	0.8128	$0.812^{+0.027}_{-0.026}$	$H(0.15)$	73.93	$74.0^{+1.6}_{-1.6}$	χ_{BAO}^2	5.52	$6.5 (\nu: 1.8)$
S_8	0.8167	$0.816^{+0.041}_{-0.039}$	$D_{\mathrm{M}}(0.15)$	631.8	631^{+15}_{-14}	χ_{CMB}^2	1179.7	$1194.0 (\nu: 15.5)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4473	$0.447^{+0.022}_{-0.021}$	$H(0.38)$	84.00	$84.1^{+1.7}_{-1.7}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 1890.21$; $\bar{\chi}_{\mathrm{eff}}^2 = 1913.25$; $R - 1 = 0.01616$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.19 DR12BAO: 3.30 CMB - small-100x143.offlike5-EE-Aplanck-B: 396.06 commander-dx12-v3.2.29: 23.66 plik-rd12-HM-v22-TT: 760.01
Hubble - H073p45: 8.28 SN - JLA December_2013: 695.12

16.34 base_omegak_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02217^{+0.00057}_{-0.00056}$	$\sigma_8 \Omega_m^{0.25}$	0.6052	$0.605^{+0.019}_{-0.019}$	$D_M(0.38)$	1507.3	1508^{+33}_{-31}
$\Omega_c h^2$	0.1204	$0.1204^{+0.0053}_{-0.0052}$	$\sigma_8/h^{0.5}$	0.9839	$0.983^{+0.026}_{-0.026}$	$H(0.51)$	90.79	$90.7^{+1.7}_{-1.8}$
$100\theta_{MC}$	1.04081	$1.0408^{+0.0012}_{-0.0011}$	$r_{drag}h$	101.15	$101.1^{+2.3}_{-2.4}$	$D_M(0.51)$	1953.7	1955^{+41}_{-39}
τ	0.0551	$0.055^{+0.021}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.429	$2.430^{+0.058}_{-0.057}$	$H(0.61)$	96.40	$96.4^{+1.8}_{-1.9}$
Ω_K	0.0034	$0.0033^{+0.0062}_{-0.0064}$	z_{re}	7.82	$7.8^{+1.8}_{-2.1}$	$D_M(0.61)$	2274.4	2276^{+47}_{-45}
$\ln(10^{10} A_s)$	3.0464	$3.046^{+0.040}_{-0.037}$	$10^9 A_s$	2.104	$2.102^{+0.085}_{-0.077}$	$H(2.33)$	237.43	$237.4^{+4.4}_{-4.4}$
n_s	0.9640	$0.963^{+0.014}_{-0.015}$	$10^9 A_s e^{-2\tau}$	1.8846	$1.884^{+0.034}_{-0.034}$	$D_M(2.33)$	5708	5711^{+98}_{-90}
y_{cal}	1.0006	$1.0006^{+0.0066}_{-0.0069}$	D_{40}	1232.8	1235^{+41}_{-37}	$f\sigma_8(0.15)$	0.4541	$0.454^{+0.017}_{-0.017}$
α_{JLA}	0.1413	$0.141^{+0.016}_{-0.016}$	D_{220}	5716	5722^{+110}_{-110}	$\sigma_8(0.15)$	0.7545	$0.754^{+0.020}_{-0.020}$
β_{JLA}	3.099	$3.10^{+0.22}_{-0.20}$	D_{810}	2539.8	2538^{+36}_{-39}	$f\sigma_8(0.38)$	0.4742	$0.474^{+0.015}_{-0.015}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	D_{1420}	816.3	815^{+14}_{-14}	$\sigma_8(0.38)$	0.6698	$0.669^{+0.018}_{-0.018}$
$\xi^{tSZ \times CIB}$	0.31	—	D_{2000}	230.17	$229.8^{+5.0}_{-4.7}$	$f\sigma_8(0.51)$	0.4737	$0.473^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.0	—	$n_{s,0.002}$	0.9640	$0.963^{+0.014}_{-0.015}$	$\sigma_8(0.51)$	0.6272	$0.627^{+0.017}_{-0.017}$
A_{100}^{PS}	255	263^{+70}_{-80}	Y_P	0.245318	$0.24531^{+0.00022}_{-0.00026}$	$f\sigma_8(0.61)$	0.4693	$0.469^{+0.013}_{-0.013}$
A_{143}^{PS}	49.5	49^{+20}_{-20}	Y_P^{BBN}	0.246644	$0.24664^{+0.00022}_{-0.00026}$	$\sigma_8(0.61)$	0.5971	$0.597^{+0.016}_{-0.016}$
$A_{143 \times 217}^{PS}$	46.8	44^{+20}_{-20}	$10^5 D/H$	2.622	$2.62^{+0.11}_{-0.10}$	$f\sigma_8(2.33)$	0.3012	$0.3009^{+0.0080}_{-0.0080}$
A_{217}^{PS}	119.2	115^{+20}_{-30}	Age/Gyr	13.658	$13.66^{+0.25}_{-0.23}$	$\sigma_8(2.33)$	0.3115	$0.3111^{+0.0092}_{-0.0092}$
A^{kSZ}	0.0	—	z_*	1090.19	$1090.2^{+1.1}_{-1.0}$	f_{2000}^{143}	30.4	31^{+8}_{-7}
A_{100}^{dustTT}	8.85	$8.8^{+4.9}_{-4.5}$	r_*	144.48	$144.5^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	33.2	34^{+5}_{-5}
A_{143}^{dustTT}	10.82	$10.7^{+4.5}_{-4.8}$	$100\theta_*$	1.04102	$1.0410^{+0.0012}_{-0.0011}$	f_{2000}^{217}	107.71	$108.1^{+4.9}_{-4.6}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.3}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.879	$13.88^{+0.11}_{-0.11}$	$\chi_{lensing}^2$	9.04	$9.53 (\nu: 0.4)$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.3}$	χ_{small}^2	396.29	$397.2 (\nu: 1.7)$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0017}$	r_{drag}	147.21	$147.2^{+1.2}_{-1.2}$	χ_{lowl}^2	23.89	$24.2 (\nu: 1.0)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	k_D	0.14060	$0.1406^{+0.0013}_{-0.0013}$	χ_{plik}^2	760.0	$772.1 (\nu: 13.3)$
H_0	68.71	$68.7^{+1.6}_{-1.6}$	$100\theta_D$	0.16099	$0.16101^{+0.00069}_{-0.00064}$	$\chi_{H073p45}^2$	8.1	$8.5 (\nu: 2.5)$
Ω_Λ	0.6933	$0.693^{+0.016}_{-0.017}$	z_{eq}	3407	3406^{+120}_{-120}	χ_{JLA}^2	695.13	$697.2 (\nu: 1.9)$
Ω_m	0.3033	$0.304^{+0.016}_{-0.015}$	k_{eq}	0.010397	$0.01040^{+0.00036}_{-0.00036}$	χ_{6DF}^2	0.023	$0.055 (\nu: 0.0)$
$\Omega_m h^2$	0.14319	$0.1432^{+0.0049}_{-0.0049}$	$100\theta_{eq}$	0.8119	$0.812^{+0.023}_{-0.021}$	χ_{MGS}^2	2.19	$2.21 (\nu: 0.2)$
$\Omega_m h^3$	0.09839	$0.0983^{+0.0046}_{-0.0047}$	$100\theta_{s,eq}$	0.4488	$0.449^{+0.012}_{-0.011}$	$\chi_{DR12BAO}^2$	3.29	$4.0 (\nu: 0.7)$
σ_8	0.8156	$0.815^{+0.021}_{-0.022}$	$H(0.15)$	73.98	$73.9^{+1.6}_{-1.6}$	χ_{prior}^2	1.3	$7.4 (\nu: 7.1)$
S_8	0.8200	$0.820^{+0.033}_{-0.032}$	$D_M(0.15)$	631.4	632^{+14}_{-14}	χ_{CMB}^2	1189.2	$1203.0 (\nu: 15.3)$
$\sigma_8 \Omega_m^{0.5}$	0.4491	$0.449^{+0.018}_{-0.018}$	$H(0.38)$	84.07	$84.0^{+1.7}_{-1.6}$	χ_{BAO}^2	5.51	$6.2 (\nu: 1.4)$

Best-fit $\chi_{eff}^2 = 1899.34$; $\bar{\chi}_{eff}^2 = 1922.24$; $R - 1 = 0.02517$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.19 DR12BAO: 3.29 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 9.04 small_100x143_offlike5_EE_Aplanck_B: 396.29 commander_dx12_v3_2_29: 23.89 plik_rd12_HM_v22_TT: 760.03 Hubble - H073p45: 8.14 SN - JLA December_2013: 695.13

16.35 base_omegak_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02218^{+0.00057}_{-0.00057}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.024}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1508^{+33}_{-32}
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0057}_{-0.0053}$	$\sigma_8/h^{0.5}$	$0.981^{+0.031}_{-0.029}$	$H(0.51)$	$90.7^{+1.7}_{-1.8}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012}$	$r_{\mathrm{drag}}h$	$101.2^{+2.4}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1954^{+41}_{-40}
τ	$0.054^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.072}_{-0.068}$	$H(0.61)$	$96.3^{+1.8}_{-1.8}$
Ω_K	$0.0031^{+0.0065}_{-0.0063}$	z_{re}	< 9.46	$D_{\mathrm{M}}(0.61)$	2275^{+47}_{-45}
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.042}_{-0.031}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.090}_{-0.065}$	$H(2.33)$	$237.1^{+4.8}_{-4.5}$
n_{s}	$0.964^{+0.015}_{-0.015}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.038}_{-0.036}$	$D_{\mathrm{M}}(2.33)$	5712^{+97}_{-92}
α_{JLA}	$0.141^{+0.016}_{-0.017}$	D_{40}	1231^{+44}_{-40}	$f\sigma_8(0.15)$	$0.452^{+0.021}_{-0.020}$
β_{JLA}	$3.10^{+0.21}_{-0.20}$	D_{220}	5717^{+120}_{-110}	$\sigma_8(0.15)$	$0.752^{+0.024}_{-0.022}$
y_{cal}	$1.0004^{+0.0067}_{-0.0067}$	D_{810}	2536^{+37}_{-37}	$f\sigma_8(0.38)$	$0.472^{+0.019}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-14}	$\sigma_8(0.38)$	$0.668^{+0.021}_{-0.020}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.7^{+4.9}_{-4.7}$	$f\sigma_8(0.51)$	$0.472^{+0.017}_{-0.016}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.015}_{-0.015}$	$\sigma_8(0.51)$	$0.625^{+0.019}_{-0.018}$
A_{100}^{PS}	264^{+70}_{-70}	Y_{P}	$0.24531^{+0.00022}_{-0.00027}$	$f\sigma_8(0.61)$	$0.468^{+0.016}_{-0.015}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00027}$	$\sigma_8(0.61)$	$0.595^{+0.018}_{-0.017}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.10}$	$f\sigma_8(2.33)$	$0.3005^{+0.0091}_{-0.0084}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.67^{+0.25}_{-0.24}$	$\sigma_8(2.33)$	$0.311^{+0.010}_{-0.0094}$
A^{kSZ}	—	z_*	$1090.2^{+1.1}_{-1.0}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	r_*	$144.6^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	34^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.8}_{-4.8}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$108.1^{+4.9}_{-4.8}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.7}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.11}_{-0.12}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.2}$	χ_{lowl}^2	$23.9 (\nu: 1.2)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$147.3^{+1.2}_{-1.3}$	χ_{plik}^2	$772.8 (\nu: 14.5)$
c_{217}	$0.9983^{+0.0015}_{-0.0016}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	$\chi_{\mathrm{H073p45}}^2$	$8.3 (\nu: 2.5)$
H_0	$68.7^{+1.7}_{-1.6}$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00070}_{-0.00065}$	χ_{JLA}^2	$697.1 (\nu: 1.9)$
Ω_{Λ}	$0.694^{+0.018}_{-0.018}$	z_{eq}	3398^{+130}_{-120}	$\chi_{6\mathrm{DF}}^2$	$0.068 (\nu: 0.0)$
Ω_{m}	$0.302^{+0.017}_{-0.017}$	k_{eq}	$0.01037^{+0.00040}_{-0.00037}$	χ_{MGS}^2	$2.31 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1428^{+0.0055}_{-0.0051}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.023}_{-0.024}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.1 (\nu: 0.9)$
$\Omega_{\mathrm{m}}h^3$	$0.0982^{+0.0048}_{-0.0046}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.012}_{-0.012}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
σ_8	$0.813^{+0.026}_{-0.025}$	$H(0.15)$	$74.0^{+1.6}_{-1.6}$	χ_{BAO}^2	$6.5 (\nu: 1.9)$
S_8	$0.816^{+0.041}_{-0.038}$	$D_{\mathrm{M}}(0.15)$	631^{+15}_{-14}	χ_{CMB}^2	$1193.6 (\nu: 14.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.022}_{-0.021}$	$H(0.38)$	$84.0^{+1.7}_{-1.7}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1912.92; R - 1 = 0.02011$$

16.36 base_omegak_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02218^{+0.00057}_{-0.00055}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1508^{+33}_{-31}
$\Omega_{\mathrm{c}}h^2$	$0.1203^{+0.0052}_{-0.0051}$	$\sigma_8/h^{0.5}$	$0.984^{+0.025}_{-0.025}$	$H(0.51)$	$90.7^{+1.7}_{-1.8}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0011}$	$r_{\mathrm{drag}}h$	$101.1^{+2.3}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1955^{+41}_{-39}
τ	$0.056^{+0.019}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.058}_{-0.056}$	$H(0.61)$	$96.3^{+1.8}_{-1.8}$
Ω_K	$0.0032^{+0.0063}_{-0.0065}$	z_{re}	< 9.47	$D_{\mathrm{M}}(0.61)$	2276^{+46}_{-45}
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.038}_{-0.030}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.082}_{-0.062}$	$H(2.33)$	$237.3^{+4.4}_{-4.4}$
n_{s}	$0.963^{+0.014}_{-0.015}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.034}_{-0.033}$	$D_{\mathrm{M}}(2.33)$	5712^{+99}_{-89}
y_{cal}	$1.0006^{+0.0067}_{-0.0068}$	D_{40}	1234^{+41}_{-37}	$f\sigma_8(0.15)$	$0.454^{+0.017}_{-0.017}$
α_{JLA}	$0.141^{+0.016}_{-0.016}$	D_{220}	5721^{+110}_{-110}	$\sigma_8(0.15)$	$0.754^{+0.019}_{-0.020}$
β_{JLA}	$3.10^{+0.22}_{-0.20}$	D_{810}	2538^{+36}_{-38}	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.669^{+0.018}_{-0.017}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{2000}	$229.8^{+4.9}_{-4.7}$	$f\sigma_8(0.51)$	$0.474^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.963^{+0.014}_{-0.015}$	$\sigma_8(0.51)$	$0.627^{+0.017}_{-0.016}$
A_{100}^{PS}	263^{+70}_{-80}	Y_{P}	$0.24531^{+0.00022}_{-0.00026}$	$f\sigma_8(0.61)$	$0.469^{+0.013}_{-0.013}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00022}_{-0.00026}$	$\sigma_8(0.61)$	$0.597^{+0.016}_{-0.015}$
$A_{143\times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.10}$	$f\sigma_8(2.33)$	$0.3011^{+0.0079}_{-0.0077}$
A_{217}^{PS}	115^{+20}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.67^{+0.25}_{-0.23}$	$\sigma_8(2.33)$	$0.3113^{+0.0091}_{-0.0090}$
A^{kSZ}	—	z_*	$1090.2^{+1.1}_{-1.0}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.9}_{-4.5}$	r_*	$144.5^{+1.2}_{-1.1}$	$f_{2000}^{143\times 217}$	33^{+6}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.8}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0011}$	f_{2000}^{217}	$108.1^{+5.0}_{-4.7}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.4}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.11}_{-0.11}$	$\chi_{\mathrm{lensing}}^2$	$9.48\ (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.2}$	χ_{simall}^2	$397.2\ (\nu: 1.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	r_{drag}	$147.2^{+1.2}_{-1.2}$	χ_{lowl}^2	$24.1\ (\nu: 1.0)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1406^{+0.0013}_{-0.0013}$	χ_{plik}^2	$772.0\ (\nu: 13.1)$
H_0	$68.7^{+1.6}_{-1.6}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00069}_{-0.00064}$	$\chi_{\mathrm{H073p45}}^2$	$8.5\ (\nu: 2.5)$
Ω_{Λ}	$0.693^{+0.016}_{-0.017}$	z_{eq}	3405^{+120}_{-120}	χ_{JLA}^2	$697.1\ (\nu: 1.9)$
Ω_{m}	$0.304^{+0.016}_{-0.015}$	k_{eq}	$0.01039^{+0.00036}_{-0.00035}$	$\chi_{6\mathrm{DF}}^2$	$0.055\ (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1431^{+0.0049}_{-0.0048}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.022}_{-0.021}$	χ_{MGS}^2	$2.21\ (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^3$	$0.0983^{+0.0045}_{-0.0046}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.011}_{-0.011}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.0\ (\nu: 0.7)$
σ_8	$0.815^{+0.021}_{-0.021}$	$H(0.15)$	$73.9^{+1.6}_{-1.6}$	χ_{prior}^2	$7.4\ (\nu: 7.1)$
S_8	$0.820^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	632^{+14}_{-14}	χ_{CMB}^2	$1202.8\ (\nu: 14.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018}$	$H(0.38)$	$84.0^{+1.7}_{-1.7}$	χ_{BAO}^2	$6.2\ (\nu: 1.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1922.05; R - 1 = 0.02915$$

16.37 base_omegak_plikHM_TTTEE_lowl_lowE_BAO_Riess18_JLA

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00039}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.0982^{+0.0035}_{-0.0034}$	$D_{\mathrm{M}}(0.15)$	631^{+15}_{-14}
$\Omega_{\mathrm{c}}h^2$	$0.1198^{+0.0036}_{-0.0034}$	σ_8	$0.813^{+0.021}_{-0.021}$	$H(0.38)$	$84.0^{+1.5}_{-1.5}$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00082}_{-0.00080}$	S_8	$0.816^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1508^{+32}_{-31}
τ	$0.056^{+0.022}_{-0.020}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.017}_{-0.017}$	$H(0.51)$	$90.7^{+1.6}_{-1.5}$
Ω_K	$0.0025^{+0.0049}_{-0.0049}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.51)$	1954^{+39}_{-38}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.043}_{-0.040}$	$\sigma_8/h^{0.5}$	$0.981^{+0.026}_{-0.026}$	$H(0.61)$	$96.3^{+1.6}_{-1.5}$
n_{s}	$0.966^{+0.011}_{-0.011}$	$r_{\mathrm{drag}}h$	$101.1^{+2.4}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2275^{+44}_{-43}
α_{JLA}	$0.141^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.423^{+0.063}_{-0.061}$	$H(2.33)$	$237.1^{+3.2}_{-2.9}$
β_{JLA}	$3.10^{+0.21}_{-0.20}$	z_{re}	$7.8^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(2.33)$	5712^{+79}_{-78}
y_{cal}	$1.0007^{+0.0063}_{-0.0065}$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.093}_{-0.083}$	$f\sigma_8(0.15)$	$0.452^{+0.016}_{-0.016}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.030}_{-0.030}$	$\sigma_8(0.15)$	$0.752^{+0.020}_{-0.019}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1230^{+34}_{-33}	$f\sigma_8(0.38)$	$0.472^{+0.014}_{-0.014}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{220}	5734^{+98}_{-100}	$\sigma_8(0.38)$	$0.668^{+0.018}_{-0.017}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2540^{+33}_{-37}	$f\sigma_8(0.51)$	$0.472^{+0.013}_{-0.013}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	818^{+11}_{-13}	$\sigma_8(0.51)$	$0.625^{+0.017}_{-0.016}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$231.1^{+3.9}_{-4.1}$	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.61)$	$0.595^{+0.016}_{-0.015}$
A^{kSZ}	—	Y_{P}	$0.24540^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	$0.3005^{+0.0081}_{-0.0076}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	$0.3106^{+0.0091}_{-0.0085}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.581^{+0.072}_{-0.070}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.6}_{-8.5}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.67^{+0.20}_{-0.20}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.86^{+0.72}_{-0.71}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.6}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.098}_{-0.097}$	r_*	$144.47^{+0.78}_{-0.80}$	χ_{simall}^2	$397.3\ (\nu: 2.1)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.078}$	$100\theta_*$	$1.04113^{+0.00080}_{-0.00078}$	χ_{lowl}^2	$23.5\ (\nu: 0.6)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.876^{+0.071}_{-0.073}$	χ_{plik}^2	$2361.1\ (\nu: 17.1)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.99^{+0.78}_{-0.74}$	$\chi_{\mathrm{H073p45}}^2$	$8.2\ (\nu: 2.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.12^{+0.77}_{-0.79}$	χ_{JLA}^2	$697.1\ (\nu: 2.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.70}$	k_{D}	$0.14086^{+0.00083}_{-0.00082}$	$\chi_{6\mathrm{DF}}^2$	$0.059\ (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00045}_{-0.00046}$	χ_{MGS}^2	$2.22\ (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3398^{+82}_{-76}	$\chi_{\mathrm{DR12BAO}}^2$	$4.1\ (\nu: 0.7)$
H_0	$68.7^{+1.6}_{-1.6}$	k_{eq}	$0.01037^{+0.00025}_{-0.00023}$	χ_{prior}^2	$11.6\ (\nu: 10.3)$
Ω_{Λ}	$0.695^{+0.014}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.015}_{-0.015}$	χ_{BAO}^2	$6.3\ (\nu: 1.5)$
Ω_{m}	$0.302^{+0.016}_{-0.015}$	$100\theta_{\mathrm{s,eq}}$	$0.4499^{+0.0075}_{-0.0079}$	χ_{CMB}^2	$2781.9\ (\nu: 16.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1428^{+0.0034}_{-0.0032}$	$H(0.15)$	$74.0^{+1.6}_{-1.6}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3505.21; R - 1 = 0.02028$$

16.38 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022418	$0.02240^{+0.00039}_{-0.00037}$	$\Omega_m h^3$	0.09813	$0.0981^{+0.0035}_{-0.0034}$	$D_M(0.15)$	631.5	632^{+15}_{-13}
$\Omega_c h^2$	0.11977	$0.1198^{+0.0036}_{-0.0033}$	σ_8	0.8146	$0.815^{+0.019}_{-0.018}$	$H(0.38)$	84.01	$84.0^{+1.6}_{-1.5}$
$100\theta_{MC}$	1.04097	$1.04095^{+0.00083}_{-0.00081}$	S_8	0.8181	$0.819^{+0.026}_{-0.026}$	$D_M(0.38)$	1508.0	1509^{+32}_{-30}
τ	0.0574	$0.057^{+0.021}_{-0.018}$	$\sigma_8 \Omega_m^{0.5}$	0.4481	$0.448^{+0.014}_{-0.014}$	$H(0.51)$	90.70	$90.7^{+1.6}_{-1.5}$
Ω_K	0.00244	$0.0024^{+0.0048}_{-0.0050}$	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.604^{+0.015}_{-0.015}$	$D_M(0.51)$	1954.7	1956^{+39}_{-38}
$\ln(10^{10} A_s)$	3.0505	$3.050^{+0.037}_{-0.036}$	$\sigma_8/h^{0.5}$	0.9828	$0.983^{+0.021}_{-0.022}$	$H(0.61)$	96.30	$96.3^{+1.6}_{-1.5}$
n_s	0.9666	$0.966^{+0.012}_{-0.011}$	$r_{\text{drag}} h$	101.06	$101.0^{+2.3}_{-2.4}$	$D_M(0.61)$	2275.7	2277^{+44}_{-43}
y_{cal}	1.0006	$1.0009^{+0.0062}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	2.428	$2.430^{+0.052}_{-0.052}$	$H(2.33)$	237.06	$237.1^{+3.1}_{-2.9}$
α_{JLA}	0.1412	$0.141^{+0.017}_{-0.017}$	z_{re}	7.99	$7.9^{+1.9}_{-1.9}$	$D_M(2.33)$	5713	5714^{+79}_{-77}
β_{JLA}	3.101	$3.10^{+0.21}_{-0.21}$	$10^9 A_s$	2.113	$2.112^{+0.080}_{-0.075}$	$f\sigma_8(0.15)$	0.4532	$0.453^{+0.014}_{-0.013}$
A_{217}^{CIB}	46.9	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8834	$1.884^{+0.028}_{-0.029}$	$\sigma_8(0.15)$	0.7536	$0.754^{+0.018}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.48	—	D_{40}	1229.7	1231^{+33}_{-32}	$f\sigma_8(0.38)$	0.4734	$0.474^{+0.012}_{-0.012}$
A_{143}^{tSZ}	7.19	$5.4^{+4.5}_{-4.5}$	D_{220}	5734	5738^{+94}_{-97}	$\sigma_8(0.38)$	0.6691	$0.669^{+0.016}_{-0.016}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{810}	2542.2	2541^{+32}_{-35}	$f\sigma_8(0.51)$	0.4731	$0.473^{+0.011}_{-0.011}$
A_{143}^{PS}	48.0	46^{+20}_{-20}	D_{1420}	818.8	818^{+11}_{-12}	$\sigma_8(0.51)$	0.6266	$0.626^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	48.7	42^{+20}_{-20}	D_{2000}	231.47	$231.2^{+3.8}_{-4.0}$	$f\sigma_8(0.61)$	0.4688	$0.469^{+0.011}_{-0.011}$
A_{217}^{PS}	120.1	115^{+20}_{-30}	$n_{s,0.002}$	0.9666	$0.966^{+0.012}_{-0.011}$	$\sigma_8(0.61)$	0.5965	$0.596^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	Y_P	0.245414	$0.24541^{+0.00015}_{-0.00015}$	$f\sigma_8(2.33)$	0.3010	$0.3009^{+0.0074}_{-0.0072}$
A_{100}^{dustTT}	8.78	$8.9^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246741	$0.24673^{+0.00015}_{-0.00015}$	$\sigma_8(2.33)$	0.3111	$0.3110^{+0.0086}_{-0.0082}$
A_{143}^{dustTT}	10.89	$10.9^{+4.5}_{-4.4}$	$10^5 D/H$	2.577	$2.580^{+0.070}_{-0.070}$	f_{2000}^{143}	28.6	29^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.8	$18.6^{+8.8}_{-8.8}$	Age/Gyr	13.672	$13.67^{+0.20}_{-0.20}$	$f_{2000}^{143 \times 217}$	31.87	32^{+5}_{-5}
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	z_*	1089.84	$1089.87^{+0.69}_{-0.72}$	f_{2000}^{217}	106.49	$107.0^{+4.4}_{-4.5}$
A_{100}^{dustTE}	0.115	$0.11^{+0.10}_{-0.10}$	r_*	144.45	$144.45^{+0.73}_{-0.77}$	χ_{lensing}^2	8.87	$9.25 (\nu: 0.2)$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.083}$	$100\theta_*$	1.04116	$1.04113^{+0.00081}_{-0.00080}$	χ_{small}^2	397	$295 (\nu: 14648.9)$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.23}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.874	$13.874^{+0.067}_{-0.071}$	χ_{lowl}^2	23.44	$23.7 (\nu: 0.6)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	z_{drag}	1060.05	$1060.00^{+0.78}_{-0.75}$	χ_{plik}^2	2345.5	$2360.5 (\nu: 16.4)$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.21}$	r_{drag}	147.10	$147.10^{+0.73}_{-0.76}$	χ_{H073p45}^2	8	$110 (\nu: 14639.0)$
A_{217}^{dustTE}	2.08	$2.09^{+0.70}_{-0.67}$	k_D	0.14090	$0.14088^{+0.00082}_{-0.00081}$	χ_{JLA}^2	695.12	$697.2 (\nu: 2.0)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160709	$0.16073^{+0.00043}_{-0.00045}$	$\chi_{6\text{DF}}^2$	0.016	$0.051 (\nu: 0.0)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3398	3399^{+80}_{-74}	χ_{MGS}^2	2.12	$2.14 (\nu: 0.2)$
H_0	68.71	$68.7^{+1.6}_{-1.7}$	k_{eq}	0.010371	$0.01038^{+0.00024}_{-0.00022}$	χ_{DR12BAO}^2	3.26	$4.0 (\nu: 0.6)$
Ω_Λ	0.6950	$0.694^{+0.013}_{-0.014}$	$100\theta_{\text{eq}}$	0.8143	$0.814^{+0.014}_{-0.015}$	χ_{prior}^2	1.7	$11.6 (\nu: 10.9)$
Ω_m	0.3026	$0.303^{+0.015}_{-0.014}$	$100\theta_{s,\text{eq}}$	0.4498	$0.4497^{+0.0073}_{-0.0077}$	χ_{CMB}^2	2775	$2689 (\nu: 14629.1)$
$\Omega_m h^2$	0.14283	$0.1429^{+0.0033}_{-0.0031}$	$H(0.15)$	73.95	$73.9^{+1.5}_{-1.6}$	χ_{BAO}^2	5.39	$6.1 (\nu: 1.1)$

Best-fit $\chi_{\text{eff}}^2 = 3484.92$; $\bar{\chi}_{\text{eff}}^2 = 3514.30$; $R - 1 = 0.02289$
 χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 2.12 DR12BAO: 3.26 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.87 small_100x143.offlike5_EE_Aplanck_B: 396.72 commander_dx12.v3.2.29: 23.44 plik_rd12_HM_v22b_TTTEEE: 2345.53 Hubble - H073p45: 8.17 SN - JLA December_2013: 695.12

16.39 base_omegak_plikHM_TTTEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00039}_{-0.00038}$	$\Omega_m h^3$	$0.0982^{+0.0035}_{-0.0034}$	$D_M(0.15)$	631^{+14}_{-14}
$\Omega_c h^2$	$0.1198^{+0.0036}_{-0.0033}$	σ_8	$0.814^{+0.021}_{-0.019}$	$H(0.38)$	$84.0^{+1.5}_{-1.5}$
$100\theta_{MC}$	$1.04095^{+0.00082}_{-0.00080}$	S_8	$0.817^{+0.031}_{-0.029}$	$D_M(0.38)$	1507^{+31}_{-31}
τ	$0.056^{+0.020}_{-0.015}$	$\sigma_8 \Omega_m^{0.5}$	$0.447^{+0.017}_{-0.016}$	$H(0.51)$	$90.7^{+1.6}_{-1.5}$
Ω_K	$0.0025^{+0.0048}_{-0.0049}$	$\sigma_8 \Omega_m^{0.25}$	$0.603^{+0.017}_{-0.017}$	$D_M(0.51)$	1954^{+39}_{-38}
$\ln(10^{10} A_s)$	$3.048^{+0.042}_{-0.032}$	$\sigma_8/h^{0.5}$	$0.981^{+0.025}_{-0.023}$	$H(0.61)$	$96.3^{+1.6}_{-1.5}$
n_s	$0.966^{+0.011}_{-0.011}$	$r_{\text{drag}} h$	$101.1^{+2.4}_{-2.4}$	$D_M(0.61)$	2275^{+44}_{-43}
α_{JLA}	$0.141^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.062}_{-0.057}$	$H(2.33)$	$237.1^{+3.2}_{-2.9}$
β_{JLA}	$3.10^{+0.21}_{-0.20}$	z_{re}	< 9.68	$D_M(2.33)$	5712^{+79}_{-78}
y_{cal}	$1.0007^{+0.0063}_{-0.0065}$	$10^9 A_s$	$2.107^{+0.090}_{-0.066}$	$f\sigma_8(0.15)$	$0.452^{+0.016}_{-0.015}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.882^{+0.030}_{-0.030}$	$\sigma_8(0.15)$	$0.753^{+0.019}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1230^{+34}_{-33}	$f\sigma_8(0.38)$	$0.473^{+0.014}_{-0.013}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{220}	5734^{+98}_{-100}	$\sigma_8(0.38)$	$0.668^{+0.017}_{-0.016}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2540^{+33}_{-37}	$f\sigma_8(0.51)$	$0.472^{+0.013}_{-0.012}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.626^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$231.1^{+3.9}_{-4.2}$	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.61)$	$0.596^{+0.016}_{-0.014}$
A^{kSZ}	—	Y_P	$0.24541^{+0.00015}_{-0.00016}$	$f\sigma_8(2.33)$	$0.3007^{+0.0079}_{-0.0071}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P^{BBN}	$0.24673^{+0.00015}_{-0.00016}$	$\sigma_8(2.33)$	$0.3108^{+0.0088}_{-0.0081}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.5}$	10^5D/H	$2.580^{+0.072}_{-0.070}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.7}_{-8.5}$	Age/Gyr	$13.67^{+0.20}_{-0.20}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.86^{+0.71}_{-0.71}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.5}$
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.097}$	r_*	$144.47^{+0.78}_{-0.80}$	χ_{simall}^2	$397.3 (\nu: 2.2)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.078}$	$100\theta_*$	$1.04113^{+0.00080}_{-0.00078}$	χ_{lowl}^2	$23.5 (\nu: 0.6)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.876^{+0.071}_{-0.073}$	χ_{plik}^2	$2360.9 (\nu: 16.8)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.99^{+0.78}_{-0.74}$	χ_{H073p45}^2	$8.2 (\nu: 2.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	r_{drag}	$147.12^{+0.77}_{-0.79}$	χ_{JLA}^2	$697.1 (\nu: 2.0)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.69}$	k_D	$0.14086^{+0.00083}_{-0.00082}$	$\chi_{6\text{DF}}^2$	$0.059 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16073^{+0.00045}_{-0.00046}$	χ_{MGS}^2	$2.22 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3397^{+82}_{-76}	χ_{DR12BAO}^2	$4.0 (\nu: 0.7)$
H_0	$68.7^{+1.6}_{-1.6}$	k_{eq}	$0.01037^{+0.00025}_{-0.00023}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_Λ	$0.695^{+0.014}_{-0.015}$	$100\theta_{\text{eq}}$	$0.814^{+0.015}_{-0.015}$	χ_{BAO}^2	$6.3 (\nu: 1.5)$
Ω_m	$0.302^{+0.016}_{-0.015}$	$100\theta_{s,\text{eq}}$	$0.4499^{+0.0075}_{-0.0079}$	χ_{CMB}^2	$2781.7 (\nu: 16.5)$
$\Omega_m h^2$	$0.1428^{+0.0034}_{-0.0032}$	$H(0.15)$	$74.0^{+1.6}_{-1.6}$		

$$\bar{\chi}_{\text{eff}}^2 = 3505.05; R - 1 = 0.01737$$

16.40 base_omegak_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00039}_{-0.00037}$	$\Omega_m h^3$	$0.0981^{+0.0035}_{-0.0034}$	$D_M(0.15)$	632^{+14}_{-13}
$\Omega_c h^2$	$0.1198^{+0.0035}_{-0.0033}$	σ_8	$0.815^{+0.019}_{-0.017}$	$H(0.38)$	$84.0^{+1.6}_{-1.5}$
$100\theta_{MC}$	$1.04095^{+0.00083}_{-0.00081}$	S_8	$0.819^{+0.026}_{-0.026}$	$D_M(0.38)$	1509^{+32}_{-30}
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.014}_{-0.014}$	$H(0.51)$	$90.7^{+1.6}_{-1.5}$
Ω_K	$0.0024^{+0.0048}_{-0.0050}$	$\sigma_8 \Omega_m^{0.25}$	$0.604^{+0.015}_{-0.015}$	$D_M(0.51)$	1956^{+39}_{-38}
$\ln(10^{10} A_s)$	$3.051^{+0.037}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.983^{+0.021}_{-0.021}$	$H(0.61)$	$96.3^{+1.6}_{-1.5}$
n_s	$0.966^{+0.012}_{-0.011}$	$r_{\text{drag}} h$	$101.0^{+2.3}_{-2.4}$	$D_M(0.61)$	2277^{+44}_{-43}
y_{cal}	$1.0008^{+0.0062}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.052}_{-0.050}$	$H(2.33)$	$237.1^{+3.1}_{-2.9}$
α_{JLA}	$0.141^{+0.017}_{-0.017}$	z_{re}	< 9.71	$D_M(2.33)$	5714^{+79}_{-77}
β_{JLA}	$3.10^{+0.21}_{-0.21}$	$10^9 A_s$	$2.113^{+0.079}_{-0.065}$	$f\sigma_8(0.15)$	$0.454^{+0.014}_{-0.013}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.884^{+0.028}_{-0.028}$	$\sigma_8(0.15)$	$0.754^{+0.018}_{-0.016}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1231^{+33}_{-32}	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012}$
A_{143}^{tSZ}	$5.4^{+4.3}_{-4.8}$	D_{220}	5738^{+94}_{-97}	$\sigma_8(0.38)$	$0.669^{+0.016}_{-0.015}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2541^{+32}_{-35}	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	818^{+11}_{-12}	$\sigma_8(0.51)$	$0.627^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$231.2^{+3.8}_{-4.0}$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010}$
A_{217}^{PS}	115^{+20}_{-30}	$n_{s,0.002}$	$0.966^{+0.012}_{-0.011}$	$\sigma_8(0.61)$	$0.597^{+0.014}_{-0.013}$
A^{kSZ}	—	Y_P	$0.24541^{+0.00015}_{-0.00015}$	$f\sigma_8(2.33)$	$0.3010^{+0.0074}_{-0.0070}$
A_{100}^{dustTT}	$8.9^{+4.5}_{-4.7}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24673^{+0.00015}_{-0.00015}$	$\sigma_8(2.33)$	$0.3111^{+0.0085}_{-0.0080}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.4}$	10^5D/H	$2.580^{+0.069}_{-0.069}$	f_{2000}^{143}	29^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.8}_{-8.8}$	Age/Gyr	$13.67^{+0.20}_{-0.20}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.87^{+0.69}_{-0.71}$	f_{2000}^{217}	$106.9^{+4.4}_{-4.5}$
A_{100}^{dustTE}	$0.11^{+0.10}_{-0.10}$	r_*	$144.45^{+0.73}_{-0.76}$	χ^2_{lensing}	$9.23 (\nu: 0.2)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.083}$	$100\theta_*$	$1.04113^{+0.00081}_{-0.00080}$	χ^2_{simall}	$296 (\nu: 14556.4)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.874^{+0.067}_{-0.070}$	χ^2_{lowl}	$23.7 (\nu: 0.6)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.00^{+0.77}_{-0.71}$	χ^2_{plik}	$2360.4 (\nu: 16.2)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.10^{+0.73}_{-0.77}$	χ^2_{H073p45}	$109 (\nu: 14547.2)$
A_{217}^{dustTE}	$2.09^{+0.70}_{-0.67}$	k_D	$0.14088^{+0.00082}_{-0.00080}$	χ^2_{JLA}	$697.2 (\nu: 2.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16073^{+0.00043}_{-0.00045}$	$\chi^2_{6\text{DF}}$	$0.051 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3399^{+79}_{-73}	χ^2_{MGS}	$2.15 (\nu: 0.2)$
H_0	$68.7^{+1.6}_{-1.6}$	k_{eq}	$0.01037^{+0.00024}_{-0.00022}$	χ^2_{DR12BAO}	$4.0 (\nu: 0.6)$
Ω_Λ	$0.695^{+0.013}_{-0.014}$	$100\theta_{\text{eq}}$	$0.814^{+0.014}_{-0.015}$	χ^2_{prior}	$11.6 (\nu: 10.9)$
Ω_m	$0.303^{+0.015}_{-0.014}$	$100\theta_{s,\text{eq}}$	$0.4497^{+0.0072}_{-0.0076}$	χ^2_{CMB}	$2690 (\nu: 14541.4)$
$\Omega_m h^2$	$0.1429^{+0.0033}_{-0.0031}$	$H(0.15)$	$73.9^{+1.5}_{-1.6}$	χ^2_{BAO}	$6.2 (\nu: 1.1)$

$$\bar{\chi}^2_{\text{eff}} = 3514.21; R - 1 = 0.02147$$

16.41 base_omegak_plikHM_TT_lowl_lowE.lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02232	$0.02232^{+0.00064}_{-0.00063}$	$\sigma_8 \Omega_m^{0.25}$	0.6101	$0.610^{+0.019}_{-0.019}$	$D_M(0.15)$	676	682^{+65}_{-61}
$\Omega_c h^2$	0.1181	$0.1178^{+0.0057}_{-0.0055}$	$\sigma_8/h^{0.5}$	0.9955	$0.996^{+0.028}_{-0.028}$	$H(0.38)$	79.7	$79.2^{+5.9}_{-5.4}$
$100\theta_{MC}$	1.04107	$1.0411^{+0.0013}_{-0.0013}$	$r_{drag}h$	94.5	$93.6^{+9.1}_{-8.6}$	$D_M(0.38)$	1604	1618^{+140}_{-130}
τ	0.0510	$0.049^{+0.021}_{-0.025}$	$\langle d^2 \rangle^{1/2}$	2.469	$2.473^{+0.075}_{-0.077}$	$H(0.51)$	86.5	$86.0^{+5.8}_{-5.2}$
Ω_K	-0.0092	$-0.011^{+0.018}_{-0.022}$	z_{re}	7.29	$7.1^{+2.1}_{-2.9}$	$D_M(0.51)$	2073	2091^{+170}_{-160}
$\ln(10^{10} A_s)$	3.0316	$3.027^{+0.043}_{-0.050}$	$10^9 A_s$	2.073	$2.065^{+0.090}_{-0.10}$	$H(0.61)$	92.2	$91.8^{+5.7}_{-5.2}$
n_s	0.9696	$0.969^{+0.016}_{-0.016}$	$10^9 A_s e^{-2\tau}$	1.8719	$1.870^{+0.036}_{-0.035}$	$D_M(0.61)$	2409	2428^{+190}_{-180}
y_{cal}	1.0001	$0.99998^{+0.0063}_{-0.0064}$	D_{40}	1213.4	1213^{+44}_{-43}	$H(2.33)$	233.3	$232.8^{+6.7}_{-6.4}$
A_{217}^{CIB}	48.0	47^{+20}_{-20}	D_{220}	5718	5723^{+100}_{-110}	$D_M(2.33)$	5924	5953^{+300}_{-300}
$\xi^{tSZ \times CIB}$	0.40	—	D_{810}	2533.1	2531^{+34}_{-36}	$f\sigma_8(0.15)$	0.4700	$0.471^{+0.026}_{-0.026}$
A_{143}^{tSZ}	7.01	$5.2^{+4.4}_{-4.7}$	D_{1420}	815.3	814^{+13}_{-14}	$\sigma_8(0.15)$	0.7325	$0.729^{+0.035}_{-0.037}$
A_{100}^{PS}	252	261^{+70}_{-70}	D_{2000}	230.62	$230.3^{+4.7}_{-4.8}$	$f\sigma_8(0.38)$	0.4812	$0.481^{+0.016}_{-0.016}$
A_{143}^{PS}	48.5	47^{+20}_{-20}	$n_{s,0.002}$	0.9696	$0.969^{+0.016}_{-0.016}$	$\sigma_8(0.38)$	0.6457	$0.642^{+0.036}_{-0.038}$
$A_{143 \times 217}^{PS}$	47.1	42^{+20}_{-20}	Y_P	0.245374	$0.24537^{+0.00026}_{-0.00029}$	$f\sigma_8(0.51)$	0.4762	$0.476^{+0.013}_{-0.013}$
A_{217}^{PS}	118.8	114^{+30}_{-30}	Y_P^{BBN}	0.246701	$0.24670^{+0.00026}_{-0.00029}$	$\sigma_8(0.51)$	0.6028	$0.599^{+0.036}_{-0.038}$
A^{kSZ}	0.2	—	$10^5 D/H$	2.595	$2.60^{+0.12}_{-0.12}$	$f\sigma_8(0.61)$	0.4688	$0.468^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.97	$9.0^{+4.7}_{-4.7}$	Age/Gyr	14.20	$14.28^{+0.77}_{-0.75}$	$\sigma_8(0.61)$	0.5726	$0.569^{+0.036}_{-0.037}$
A_{143}^{dustTT}	10.93	$10.7^{+4.6}_{-4.6}$	z_*	1089.82	$1089.8^{+1.2}_{-1.1}$	$f\sigma_8(2.33)$	0.2878	$0.286^{+0.019}_{-0.020}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.4}_{-8.6}$	r_*	144.97	$145.0^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	0.2942	$0.292^{+0.024}_{-0.024}$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$100\theta_*$	1.04126	$1.0413^{+0.0012}_{-0.0013}$	f_{2000}^{143}	29.6	30^{+8}_{-8}
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/Gpc$	13.923	$13.93^{+0.11}_{-0.12}$	$f_{2000}^{143 \times 217}$	32.5	33^{+5}_{-5}
c_{217}	0.99822	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.67	$1059.7^{+1.3}_{-1.2}$	f_{2000}^{217}	107.0	$107.2^{+5.3}_{-5.3}$
H_0	64.0	$63.4^{+6.5}_{-6.0}$	r_{drag}	147.67	$147.7^{+1.2}_{-1.2}$	$\chi^2_{lensing}$	9.4	$10.4 (\nu: 2.3)$
Ω_Λ	0.6645	$0.660^{+0.042}_{-0.050}$	k_D	0.14022	$0.1402^{+0.0013}_{-0.0012}$	χ^2_{small}	395.67	$396.7 (\nu: 1.1)$
Ω_m	0.345	$0.352^{+0.069}_{-0.058}$	$100\theta_D$	0.16092	$0.16093^{+0.00070}_{-0.00070}$	χ^2_{lowl}	21.81	$22.0 (\nu: 0.7)$
$\Omega_m h^2$	0.1410	$0.1408^{+0.0053}_{-0.0051}$	z_{eq}	3355	3349^{+130}_{-120}	χ^2_{plik}	757.9	$770.7 (\nu: 15.1)$
$\Omega_m h^3$	0.0902	$0.089^{+0.011}_{-0.010}$	k_{eq}	0.010239	$0.01022^{+0.00039}_{-0.00037}$	χ^2_{prior}	1.4	$7.3 (\nu: 6.8)$
σ_8	0.7962	$0.792^{+0.033}_{-0.035}$	$100\theta_{eq}$	0.8219	$0.823^{+0.025}_{-0.024}$	χ^2_{CMB}	1184.8	$1199.8 (\nu: 15.9)$
S_8	0.853	$0.857^{+0.057}_{-0.055}$	$100\theta_{s,eq}$	0.4539	$0.454^{+0.013}_{-0.012}$			
$\sigma_8 \Omega_m^{0.5}$	0.4675	$0.470^{+0.031}_{-0.030}$	$H(0.15)$	69.4	$68.8^{+6.3}_{-5.7}$			

Best-fit $\chi^2_{eff} = 1186.22$; $\bar{\chi}^2_{eff} = 1207.14$; $R - 1 = 0.01227$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consect8: 9.44 small_100x143_offlike5_EE_Aplanck_B: 395.67 commander_dx12_v3.2.29: 21.81 plik_rd12_HM.v22.TT: 757.86

16.42 base_omegak_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00064}_{-0.00061}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.15)$	679^{+60}_{-58}
$\Omega_{\mathrm{c}}h^2$	$0.1177^{+0.0057}_{-0.0055}$	$\sigma_8/h^{0.5}$	$0.996^{+0.028}_{-0.028}$	$H(0.38)$	$79.5^{+5.8}_{-5.1}$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0013}_{-0.0013}$	$r_{\mathrm{drag}}h$	$94.2^{+8.8}_{-7.9}$	$D_{\mathrm{M}}(0.38)$	1610^{+130}_{-130}
τ	$0.053^{+0.017}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.473^{+0.073}_{-0.076}$	$H(0.51)$	$86.3^{+5.6}_{-5.0}$
Ω_K	$-0.010^{+0.017}_{-0.021}$	z_{re}	< 9.06	$D_{\mathrm{M}}(0.51)$	2081^{+160}_{-160}
$\ln(10^{10}A_{\mathrm{s}})$	$3.033^{+0.039}_{-0.026}$	$10^9 A_{\mathrm{s}}$	$2.077^{+0.081}_{-0.054}$	$H(0.61)$	$92.0^{+5.5}_{-4.9}$
n_{s}	$0.970^{+0.016}_{-0.016}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.870^{+0.035}_{-0.034}$	$D_{\mathrm{M}}(0.61)$	2417^{+180}_{-180}
y_{cal}	$0.99997^{+0.0062}_{-0.0065}$	D_{40}	1213^{+44}_{-43}	$H(2.33)$	$232.9^{+6.7}_{-6.4}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5723^{+100}_{-100}	$D_{\mathrm{M}}(2.33)$	5938^{+280}_{-290}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2530^{+33}_{-35}	$f\sigma_8(0.15)$	$0.470^{+0.025}_{-0.026}$
A_{143}^{tSZ}	$5.2^{+4.4}_{-4.7}$	D_{1420}	814^{+13}_{-14}	$\sigma_8(0.15)$	$0.731^{+0.033}_{-0.031}$
A_{100}^{PS}	260^{+70}_{-70}	D_{2000}	$230.3^{+4.7}_{-4.8}$	$f\sigma_8(0.38)$	$0.481^{+0.016}_{-0.016}$
A_{143}^{PS}	47^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.970^{+0.016}_{-0.016}$	$\sigma_8(0.38)$	$0.645^{+0.034}_{-0.032}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24538^{+0.00026}_{-0.00028}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.013}$
A_{217}^{PS}	114^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00026}_{-0.00028}$	$\sigma_8(0.51)$	$0.602^{+0.034}_{-0.032}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.12}_{-0.12}$	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.012}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.24^{+0.73}_{-0.73}$	$\sigma_8(0.61)$	$0.571^{+0.034}_{-0.032}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	z_*	$1089.8^{+1.2}_{-1.1}$	$f\sigma_8(2.33)$	$0.287^{+0.018}_{-0.017}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.6}_{-8.6}$	r_*	$145.1^{+1.2}_{-1.2}$	$\sigma_8(2.33)$	$0.294^{+0.023}_{-0.021}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_*$	$1.0413^{+0.0012}_{-0.0013}$	f_{2000}^{143}	30^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.11}_{-0.11}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	$1059.7^{+1.2}_{-1.2}$	f_{2000}^{217}	$107.1^{+5.2}_{-5.3}$
H_0	$63.8^{+6.2}_{-5.6}$	r_{drag}	$147.7^{+1.1}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$10.4 (\nu: 2.3)$
Ω_{Λ}	$0.663^{+0.040}_{-0.044}$	k_{D}	$0.1402^{+0.0013}_{-0.0012}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
Ω_{m}	$0.347^{+0.061}_{-0.055}$	$100\theta_{\mathrm{D}}$	$0.16092^{+0.00068}_{-0.00070}$	χ_{lowl}^2	$22.1 (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1407^{+0.0053}_{-0.0051}$	z_{eq}	3347^{+130}_{-120}	χ_{plik}^2	$770.6 (\nu: 15.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0897^{+0.011}_{-0.0099}$	k_{eq}	$0.01022^{+0.00039}_{-0.00037}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.795^{+0.031}_{-0.030}$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.025}_{-0.024}$	χ_{CMB}^2	$1199.4 (\nu: 15.4)$
S_8	$0.855^{+0.054}_{-0.053}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.013}_{-0.012}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.468^{+0.030}_{-0.029}$	$H(0.15)$	$69.2^{+6.0}_{-5.4}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1206.71; R - 1 = 0.01427$$

16.43 base_omegak_plikHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022509	$0.02249^{+0.00040}_{-0.00039}$	$\Omega_{\mathrm{m}}h^3$	0.0906	$0.0900^{+0.0096}_{-0.0093}$	$100\theta_{\mathrm{s,eq}}$	0.4528	$0.4527^{+0.0086}_{-0.0084}$
$\Omega_{\mathrm{c}}h^2$	0.11839	$0.1185^{+0.0039}_{-0.0038}$	σ_8	0.7974	$0.795^{+0.028}_{-0.032}$	$H(0.15)$	69.5	$69.0^{+5.7}_{-5.4}$
$100\theta_{\mathrm{MC}}$	1.04106	$1.04107^{+0.00083}_{-0.00092}$	S_8	0.855	$0.860^{+0.053}_{-0.054}$	$D_{\mathrm{M}}(0.15)$	675	680^{+62}_{-56}
τ	0.0515	$0.050^{+0.021}_{-0.025}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4685	$0.471^{+0.029}_{-0.029}$	$H(0.38)$	79.8	$79.4^{+5.3}_{-5.1}$
Ω_K	-0.0092	$-0.011^{+0.015}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6112	$0.612^{+0.017}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1602	1614^{+130}_{-120}
$\ln(10^{10}A_{\mathrm{s}})$	3.0336	$3.030^{+0.044}_{-0.052}$	$\sigma_8/h^{0.5}$	0.9965	$0.998^{+0.025}_{-0.027}$	$H(0.51)$	86.7	$86.3^{+5.1}_{-4.9}$
n_{s}	0.9699	$0.969^{+0.012}_{-0.012}$	$r_{\mathrm{drag}}h$	94.4	$93.7^{+8.6}_{-8.1}$	$D_{\mathrm{M}}(0.51)$	2071	2084^{+160}_{-150}
y_{cal}	1.0000	$0.99998^{+0.0062}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	2.472	$2.478^{+0.069}_{-0.073}$	$H(0.61)$	92.38	$92.0^{+5.0}_{-4.8}$
A_{217}^{CIB}	46.8	46^{+20}_{-20}	z_{re}	7.30	$7.1^{+2.1}_{-3.0}$	$D_{\mathrm{M}}(0.61)$	2406	2420^{+180}_{-170}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.52	—	$10^9 A_{\mathrm{s}}$	2.077	$2.070^{+0.094}_{-0.11}$	$H(2.33)$	233.70	$233.6^{+5.0}_{-4.9}$
A_{143}^{tSZ}	7.25	> 1.03	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8741	$1.874^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5915	5935^{+270}_{-260}
A_{100}^{PS}	247	257^{+70}_{-70}	D_{40}	1214.6	1216^{+38}_{-37}	$f\sigma_8(0.15)$	0.4710	$0.473^{+0.025}_{-0.026}$
A_{143}^{PS}	47.2	44^{+20}_{-20}	D_{220}	5731	5735^{+97}_{-100}	$\sigma_8(0.15)$	0.7335	$0.731^{+0.030}_{-0.034}$
$A_{143 \times 217}^{\mathrm{PS}}$	48.3	41^{+20}_{-20}	D_{810}	2535.3	2534^{+34}_{-35}	$f\sigma_8(0.38)$	0.4821	$0.483^{+0.014}_{-0.016}$
A_{217}^{PS}	119.1	114^{+30}_{-30}	D_{1420}	817.2	816^{+12}_{-12}	$\sigma_8(0.38)$	0.6466	$0.644^{+0.032}_{-0.036}$
A^{kSZ}	0.0	—	D_{2000}	231.60	$231.2^{+4.0}_{-3.9}$	$f\sigma_8(0.51)$	0.4770	$0.477^{+0.011}_{-0.011}$
$A_{100}^{\mathrm{dustTT}}$	8.94	$9.0^{+4.7}_{-4.5}$	$n_{\mathrm{s},0.002}$	0.9699	$0.969^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	0.6035	$0.601^{+0.032}_{-0.036}$
$A_{143}^{\mathrm{dustTT}}$	11.10	$10.9^{+4.7}_{-4.4}$	Y_{P}	0.245448	$0.24544^{+0.00016}_{-0.00016}$	$f\sigma_8(0.61)$	0.4696	$0.469^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	20.0	$18.6^{+8.5}_{-8.4}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246774	$0.24676^{+0.00016}_{-0.00016}$	$\sigma_8(0.61)$	0.5733	$0.571^{+0.032}_{-0.035}$
$A_{217}^{\mathrm{dustTT}}$	95.1	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	2.560	$2.565^{+0.073}_{-0.072}$	$f\sigma_8(2.33)$	0.2881	$0.287^{+0.017}_{-0.019}$
$A_{100}^{\mathrm{dustTE}}$	0.114	$0.113^{+0.098}_{-0.094}$	Age/Gyr	14.18	$14.23^{+0.71}_{-0.66}$	$\sigma_8(2.33)$	0.2946	$0.293^{+0.022}_{-0.023}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	0.135	$0.134^{+0.077}_{-0.077}$	z_*	1089.61	$1089.64^{+0.77}_{-0.74}$	f_{2000}^{143}	28.1	29^{+7}_{-7}
$A_{100 \times 217}^{\mathrm{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	r_*	144.74	$144.73^{+0.84}_{-0.82}$	$f_{2000}^{143 \times 217}$	31.35	32^{+5}_{-5}
$A_{143}^{\mathrm{dustTE}}$	0.224	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	1.04123	$1.04124^{+0.00082}_{-0.00090}$	f_{2000}^{217}	105.88	$106.3^{+4.7}_{-4.6}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	0.660	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.901	$13.900^{+0.076}_{-0.076}$	$\chi_{\mathrm{lensing}}^2$	9.8	$10.9 (\nu: 2.8)$
$A_{217}^{\mathrm{dustTE}}$	2.07	$2.07^{+0.70}_{-0.72}$	z_{drag}	1060.12	$1060.10^{+0.79}_{-0.74}$	χ_{small}^2	395.65	$396.7 (\nu: 1.1)$
c_{100}	0.99970	$0.9997^{+0.0015}_{-0.0015}$	r_{drag}	147.36	$147.36^{+0.80}_{-0.79}$	χ_{lowl}^2	21.84	$22.15 (\nu: 0.5)$
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14069	$0.14067^{+0.00079}_{-0.00084}$	χ_{plik}^2	2342.4	$2357.5 (\nu: 17.3)$
H_0	64.0	$63.6^{+6.0}_{-5.7}$	$100\theta_{\mathrm{D}}$	0.160641	$0.16067^{+0.00044}_{-0.00044}$	χ_{prior}^2	1.8	$11.5 (\nu: 9.9)$
Ω_{Λ}	0.6639	$0.659^{+0.042}_{-0.049}$	z_{eq}	3367	3369^{+86}_{-86}	χ_{CMB}^2	2769.7	$2787.2 (\nu: 17.4)$
Ω_{m}	0.345	$0.352^{+0.067}_{-0.057}$	k_{eq}	0.010277	$0.01028^{+0.00026}_{-0.00026}$			
$\Omega_{\mathrm{m}}h^2$	0.14155	$0.1416^{+0.0036}_{-0.0036}$	$100\theta_{\mathrm{eq}}$	0.8201	$0.820^{+0.017}_{-0.016}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 2771.41$; $\bar{\chi}_{\mathrm{eff}}^2 = 2798.70$; $R - 1 = 0.02587$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.79 simall_100x143_offlike5_EE_Aplanck_B: 395.65 commander_dx12_v3.2_29: 21.84 plik_rd12_HM_v22b_TTTEEE: 2342.38

16.44 base_omegak_plikHM_TTTEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02249^{+0.00040}_{-0.00039}$	$\Omega_m h^3$	$0.0906^{+0.0095}_{-0.0084}$	$100\theta_{s,eq}$	$0.4527^{+0.0085}_{-0.0084}$
$\Omega_c h^2$	$0.1185^{+0.0039}_{-0.0038}$	σ_8	$0.798^{+0.026}_{-0.024}$	$H(0.15)$	$69.4^{+5.5}_{-4.7}$
$100\theta_{MC}$	$1.04107^{+0.00083}_{-0.00093}$	S_8	$0.858^{+0.051}_{-0.052}$	$D_M(0.15)$	676^{+52}_{-53}
τ	$0.053^{+0.017}_{-0.010}$	$\sigma_8 \Omega_m^{0.5}$	$0.470^{+0.028}_{-0.029}$	$H(0.38)$	$79.8^{+5.1}_{-4.5}$
Ω_K	$-0.0096^{+0.015}_{-0.017}$	$\sigma_8 \Omega_m^{0.25}$	$0.612^{+0.017}_{-0.017}$	$D_M(0.38)$	1605^{+110}_{-120}
$\ln(10^{10} A_s)$	$3.036^{+0.040}_{-0.025}$	$\sigma_8/h^{0.5}$	$0.998^{+0.025}_{-0.026}$	$H(0.51)$	$86.6^{+5.0}_{-4.4}$
n_s	$0.969^{+0.012}_{-0.012}$	$r_{drag} h$	$94.2^{+8.3}_{-7.2}$	$D_M(0.51)$	2074^{+140}_{-140}
y_{cal}	$0.99997^{+0.0063}_{-0.0065}$	$\langle d^2 \rangle^{1/2}$	$2.478^{+0.069}_{-0.071}$	$H(0.61)$	$92.3^{+4.9}_{-4.3}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.08	$D_M(0.61)$	2409^{+150}_{-160}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.083^{+0.085}_{-0.052}$	$H(2.33)$	$233.7^{+4.9}_{-4.8}$
A_{143}^{tSZ}	> 1.05	$10^9 A_s e^{-2\tau}$	$1.874^{+0.032}_{-0.031}$	$D_M(2.33)$	5919^{+240}_{-250}
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1217^{+38}_{-38}	$f\sigma_8(0.15)$	$0.472^{+0.024}_{-0.025}$
A_{143}^{PS}	44^{+20}_{-20}	D_{220}	5734^{+97}_{-100}	$\sigma_8(0.15)$	$0.734^{+0.028}_{-0.026}$
$A_{143 \times 217}^{PS}$	41^{+20}_{-20}	D_{810}	2533^{+35}_{-35}	$f\sigma_8(0.38)$	$0.483^{+0.014}_{-0.016}$
A_{217}^{PS}	114^{+30}_{-30}	D_{1420}	816^{+13}_{-12}	$\sigma_8(0.38)$	$0.647^{+0.029}_{-0.027}$
A^{kSZ}	—	D_{2000}	$231.2^{+4.0}_{-3.9}$	$f\sigma_8(0.51)$	$0.478^{+0.011}_{-0.011}$
A_{100}^{dustTT}	$9.0^{+4.8}_{-4.6}$	$n_{s,0.002}$	$0.969^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	$0.604^{+0.030}_{-0.027}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.4}$	Y_P	$0.24544^{+0.00016}_{-0.00016}$	$f\sigma_8(0.61)$	$0.470^{+0.010}_{-0.0092}$
$A_{143 \times 217}^{dustTT}$	$18.6^{+8.4}_{-8.5}$	Y_P^{BBN}	$0.24677^{+0.00016}_{-0.00016}$	$\sigma_8(0.61)$	$0.574^{+0.030}_{-0.027}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.564^{+0.074}_{-0.073}$	$f\sigma_8(2.33)$	$0.288^{+0.016}_{-0.015}$
A_{100}^{dustTE}	$0.113^{+0.098}_{-0.094}$	Age/Gyr	$14.19^{+0.62}_{-0.63}$	$\sigma_8(2.33)$	$0.295^{+0.020}_{-0.018}$
$A_{100 \times 143}^{dustTE}$	$0.134^{+0.076}_{-0.076}$	z_*	$1089.64^{+0.77}_{-0.75}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.74^{+0.83}_{-0.82}$	$f_{2000}^{143 \times 217}$	31^{+5}_{-5}
A_{143}^{dustTE}	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	$1.04124^{+0.00081}_{-0.00091}$	f_{2000}^{217}	$106.3^{+4.7}_{-4.6}$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	$13.901^{+0.076}_{-0.076}$	$\chi^2_{lensing}$	$10.8 (\nu: 2.8)$
A_{217}^{dustTE}	$2.07^{+0.68}_{-0.71}$	z_{drag}	$1060.10^{+0.78}_{-0.74}$	χ^2_{simall}	$396.4 (\nu: 0.7)$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	r_{drag}	$147.37^{+0.80}_{-0.79}$	χ^2_{lowl}	$22.2 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_D	$0.14067^{+0.00080}_{-0.00083}$	χ^2_{plik}	$2357.4 (\nu: 17.5)$
H_0	$64.0^{+5.8}_{-5.0}$	$100\theta_D$	$0.16067^{+0.00044}_{-0.00044}$	χ^2_{prior}	$11.5 (\nu: 9.9)$
Ω_Λ	$0.662^{+0.040}_{-0.042}$	z_{eq}	3368^{+87}_{-85}	χ^2_{CMB}	$2786.8 (\nu: 17.0)$
Ω_m	$0.347^{+0.057}_{-0.053}$	k_{eq}	$0.01028^{+0.00026}_{-0.00026}$		
$\Omega_m h^2$	$0.1416^{+0.0036}_{-0.0035}$	$100\theta_{eq}$	$0.820^{+0.017}_{-0.017}$		

$$\bar{\chi}^2_{eff} = 2798.28; R - 1 = 0.02761$$

16.45 base_omegak_CamSpecHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02229	$0.02235^{+0.00065}_{-0.00061}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4678	$0.470^{+0.031}_{-0.032}$ (+0.0 σ)	$H(0.15)$	69.3	$68.7^{+6.2}_{-5.8}$ (−0.1 σ)
$\Omega_c h^2$	0.1182	$0.1177^{+0.0057}_{-0.0056}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6099	$0.610^{+0.019}_{-0.019}$ (−0.0 σ)	$D_M(0.15)$	677	684^{+67}_{-61} (+0.1 σ)
$100\theta_{MC}$	1.04103	$1.0412^{+0.0013}_{-0.0013}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9950	$0.996^{+0.028}_{-0.028}$ (+0.0 σ)	$H(0.38)$	79.7	$79.0^{+5.8}_{-5.5}$ (−0.1 σ)
τ	0.0498	$0.049^{+0.023}_{-0.026}$ (+0.0 σ)	$r_{drag} h$	94.3	$93.4^{+9.3}_{-8.7}$ (−0.1 σ)	$D_M(0.38)$	1606	1623^{+140}_{-130} (+0.1 σ)
Ω_K	−0.0093	$−0.012^{+0.017}_{-0.023}$ (−0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.469	$2.472^{+0.077}_{-0.077}$ (−0.0 σ)	$H(0.51)$	86.5	$85.9^{+5.6}_{-5.4}$ (−0.1 σ)
$\ln(10^{10} A_s)$	3.0282	$3.026^{+0.044}_{-0.051}$ (−0.1 σ)	z_{re}	7.17	$7.1^{+2.2}_{-3.0}$ (−0.0 σ)	$D_M(0.51)$	2076	2096^{+180}_{-160} (+0.1 σ)
n_s	0.9685	$0.970^{+0.016}_{-0.016}$ (+0.2 σ)	$10^9 A_s$	2.066	$2.062^{+0.093}_{-0.10}$ (−0.1 σ)	$H(0.61)$	92.2	$91.6^{+5.5}_{-5.3}$ (−0.1 σ)
y_{cal}	1.0003	$1.0001^{+0.0062}_{-0.0064}$ (+0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8701	$1.868^{+0.035}_{-0.034}$ (−0.2 σ)	$D_M(0.61)$	2411	2434^{+200}_{-180} (+0.1 σ)
A_{100}^{PS}	242	240^{+60}_{-70} (−0.7 σ)	D_{40}	1213.8	1209^{+44}_{-41} (−0.2 σ)	$H(2.33)$	233.4	$232.6^{+6.4}_{-6.6}$ (−0.1 σ)
A_{143}^{PS}	36	38^{+20}_{-20} (−1.0 σ)	D_{220}	5711	5715^{+110}_{-110} (−0.2 σ)	$D_M(2.33)$	5926	5962^{+310}_{-290} (+0.1 σ)
A_{217}^{PS}	98.4	101^{+30}_{-40} (−1.3 σ)	D_{810}	2529.2	2529^{+34}_{-34} (−0.1 σ)	$f\sigma_8(0.15)$	0.4702	$0.472^{+0.026}_{-0.028}$ (+0.0 σ)
A_{217}^{CIB}	42.9	40^{+20}_{-20} (−1.1 σ)	D_{1420}	813.6	814^{+13}_{-13} (−0.0 σ)	$\sigma_8(0.15)$	0.7315	$0.727^{+0.034}_{-0.038}$ (−0.1 σ)
A_{143}^{tSZ}	4.37	< 8.71 (−0.7 σ)	D_{2000}	230.02	$230.3^{+4.7}_{-4.8}$ (+0.1 σ)	$f\sigma_8(0.38)$	0.4811	$0.481^{+0.016}_{-0.017}$ (+0.0 σ)
$r_{143 \times 217}^{PS}$	0.565	$0.65^{+0.32}_{-0.34}$	$n_{s,0.002}$	0.9685	$0.970^{+0.016}_{-0.016}$ (+0.2 σ)	$\sigma_8(0.38)$	0.6446	$0.640^{+0.035}_{-0.039}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.65	—	Y_P	0.245363	$0.24538^{+0.00027}_{-0.00028}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.4759	$0.475^{+0.013}_{-0.013}$ (−0.0 σ)
$\xi^{tSZ \times CIB}$	0.07	—	Y_P^{BBN}	0.246689	$0.24671^{+0.00027}_{-0.00028}$ (+0.1 σ)	$\sigma_8(0.51)$	0.6017	$0.598^{+0.035}_{-0.039}$ (−0.1 σ)
A^{kSZ}	3.8	—	$10^5 D/H$	2.601	$2.59^{+0.12}_{-0.12}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.4684	$0.468^{+0.013}_{-0.013}$ (−0.0 σ)
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	Age/Gyr	14.21	$14.30^{+0.80}_{-0.73}$ (+0.1 σ)	$\sigma_8(0.61)$	0.5715	$0.567^{+0.035}_{-0.039}$ (−0.1 σ)
A_{143}^{dust}	0.989	$0.98^{+0.45}_{-0.46}$	z_*	1089.87	$1089.7^{+1.2}_{-1.2}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2872	$0.285^{+0.019}_{-0.021}$ (−0.1 σ)
A_{217}^{dust}	0.960	$0.97^{+0.28}_{-0.27}$	r_*	144.95	$145.1^{+1.2}_{-1.2}$ (+0.1 σ)	$\sigma_8(2.33)$	0.2936	$0.291^{+0.024}_{-0.025}$ (−0.1 σ)
$A_{143 \times 217}^{dust}$	1.004	$1.02^{+0.42}_{-0.42}$	$100\theta_*$	1.04123	$1.0414^{+0.0012}_{-0.0012}$ (+0.2 σ)	f_{2000}^{143}	30.3	30^{+8}_{-8} (−0.2 σ)
c_{100}	0.99735	$0.9975^{+0.0026}_{-0.0027}$ (−3.5 σ)	$D_M(z_*)/\text{Gpc}$	13.921	$13.93^{+0.11}_{-0.12}$ (+0.0 σ)	f_{2000}^{217}	107.0	$106.5^{+5.3}_{-5.7}$ (−0.3 σ)
c_{217}	1.00124	$1.0011^{+0.0041}_{-0.0039}$ (+4.6 σ)	z_{drag}	1059.63	$1059.7^{+1.3}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	32.3	32^{+6}_{-6} (−0.3 σ)
H_0	63.9	$63.2^{+6.5}_{-6.1}$ (−0.1 σ)	r_{drag}	147.65	$147.7^{+1.2}_{-1.2}$ (+0.0 σ)	$\chi^2_{lensing}$	9.2	10.3 (ν : 2.3) (−0.0 σ)
Ω_Λ	0.6631	$0.659^{+0.046}_{-0.050}$ (−0.1 σ)	k_D	0.14022	$0.1402^{+0.0013}_{-0.0012}$ (−0.0 σ)	χ^2_{small}	395.64	396.8 (ν : 1.2) (+0.0 σ)
Ω_m	0.346	$0.353^{+0.071}_{-0.061}$ (+0.1 σ)	$100\theta_D$	0.16094	$0.16091^{+0.00069}_{-0.00070}$ (−0.0 σ)	χ^2_{lowl}	21.85	21.8 (ν : 0.6) (−0.2 σ)
$\Omega_m h^2$	0.1412	$0.1407^{+0.0053}_{-0.0052}$ (−0.1 σ)	z_{eq}	3358	3346^{+130}_{-130} (−0.1 σ)	$\chi^2_{CamSpec}$	7049.2	7062.9 (ν : 15.3)
$\Omega_m h^3$	0.0902	$0.089^{+0.011}_{-0.011}$ (−0.1 σ)	k_{eq}	0.010250	$0.01021^{+0.00038}_{-0.00038}$ (−0.1 σ)	χ^2_{prior}	2.4	7.5 (ν : 5.9) (+0.1 σ)
σ_8	0.7952	$0.791^{+0.032}_{-0.036}$ (−0.1 σ)	$100\theta_{eq}$	0.8211	$0.824^{+0.025}_{-0.024}$ (+0.1 σ)	χ^2_{CMB}	7475.9	7491.7 (ν : 15.9) (+1115.0 σ)
S_8	0.854	$0.858^{+0.056}_{-0.058}$ (+0.0 σ)	$100\theta_{s,eq}$	0.4535	$0.455^{+0.013}_{-0.012}$ (+0.1 σ)			

Best-fit $\chi^2_{eff} = 7478.30$; $\Delta\chi^2_{eff} = 6292.08$; $\bar{\chi}^2_{eff} = 7499.29$; $\Delta\bar{\chi}^2_{eff} = 6292.15$; $R - 1 = 0.01550$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.19 (Δ -0.25) small_100x143_offlike5_EE_Aplanck_B: 395.64 (Δ -0.03) commander_dx12_v3_2_29: 21.85 (Δ 0.04) CamSpec like_10.7HM: 7049.24

16.46 base_omegak_CamSpecHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02236^{+0.00065}_{-0.00060} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.469^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$H(0.15)$	$69.0^{+6.0}_{-5.6} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1176^{+0.0058}_{-0.0055} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.020}_{-0.019} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$680^{+64}_{-59} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0013}_{-0.0013} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.996^{+0.028}_{-0.029} \quad (+0.0\sigma)$	$H(0.38)$	$79.4^{+5.7}_{-5.4} \quad (-0.1\sigma)$
τ	$0.053^{+0.018}_{-0.011} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$94.0^{+9.0}_{-8.2} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1614^{+140}_{-130} \quad (+0.1\sigma)$
Ω_K	$-0.011^{+0.017}_{-0.022} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.472^{+0.080}_{-0.078} \quad (-0.0\sigma)$	$H(0.51)$	$86.2^{+5.5}_{-5.3} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.040}_{-0.026} \quad (-0.1\sigma)$	z_{re}	$< 9.13 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$2085^{+170}_{-160} \quad (+0.1\sigma)$
n_{s}	$0.971^{+0.016}_{-0.016} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.075^{+0.085}_{-0.053} \quad (-0.1\sigma)$	$H(0.61)$	$91.9^{+5.4}_{-5.2} \quad (-0.1\sigma)$
y_{cal}	$1.0000^{+0.0062}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.867^{+0.035}_{-0.034} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2422^{+190}_{-180} \quad (+0.1\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1209^{+43}_{-42} \quad (-0.2\sigma)$	$H(2.33)$	$232.7^{+6.3}_{-6.6} \quad (-0.1\sigma)$
A_{143}^{PS}	$38^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5714^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5946^{+300}_{-280} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2528^{+34}_{-35} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.471^{+0.026}_{-0.028} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.730^{+0.032}_{-0.033} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.69 \quad (-0.7\sigma)$	D_{2000}	$230.4^{+4.8}_{-4.9} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.481^{+0.016}_{-0.017} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.971^{+0.016}_{-0.016} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.644^{+0.033}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24539^{+0.00027}_{-0.00027} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.013} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00027}_{-0.00028} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.601^{+0.033}_{-0.034} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.59^{+0.12}_{-0.12} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.013}_{-0.011} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.26^{+0.78}_{-0.71} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.570^{+0.033}_{-0.034} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	z_*	$1089.7^{+1.2}_{-1.2} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.287^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$145.1^{+1.2}_{-1.3} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.293^{+0.022}_{-0.022} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$100\theta_*$	$1.0414^{+0.0012}_{-0.0013} \quad (+0.2\sigma)$	f_{2000}^{143}	$29^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.11}_{-0.12} \quad (+0.0\sigma)$	f_{2000}^{217}	$106.5^{+5.3}_{-5.7} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0039} \quad (+4.5\sigma)$	z_{drag}	$1059.7^{+1.3}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$63.6^{+6.2}_{-5.8} \quad (-0.1\sigma)$	r_{drag}	$147.8^{+1.2}_{-1.3} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$10.3 \quad (\nu: 2.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.662^{+0.043}_{-0.046} \quad (-0.0\sigma)$	k_{D}	$0.1402^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.8) \quad (+0.0\sigma)$
Ω_{m}	$0.349^{+0.064}_{-0.058} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16091^{+0.00068}_{-0.00069} \quad (-0.1\sigma)$	χ_{lowl}^2	$21.8 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1406^{+0.0054}_{-0.0052} \quad (-0.1\sigma)$	z_{eq}	$3344^{+130}_{-120} \quad (-0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.0 \quad (\nu: 15.3)$
$\Omega_{\mathrm{m}} h^3$	$0.089^{+0.011}_{-0.010} \quad (-0.1\sigma)$	k_{eq}	$0.01021^{+0.00039}_{-0.00038} \quad (-0.1\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.794^{+0.030}_{-0.031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.025}_{-0.025} \quad (+0.1\sigma)$	χ_{CMB}^2	$7491.5 \quad (\nu: 15.6) \quad (+1133.2\sigma)$
S_8	$0.856^{+0.057}_{-0.057} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.013}_{-0.012} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7498.95; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.24; R - 1 = 0.01796$$

16.47 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022422	$0.02242^{+0.00045}_{-0.00042}$ (-0.4σ)	S_8	0.854	$0.857^{+0.055}_{-0.051}$ (-0.2σ)	$H(0.15)$	69.4	$69.0^{+5.4}_{-5.3}$ (-0.0σ)
$\Omega_{\mathrm{c}} h^2$	0.11833	$0.1182^{+0.0038}_{-0.0037}$ (-0.2σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4678	$0.469^{+0.030}_{-0.028}$ (-0.2σ)	$D_{\mathrm{M}}(0.15)$	676	680^{+60}_{-53} (-0.0σ)
$100\theta_{\mathrm{MC}}$	1.04100	$1.04101^{+0.00081}_{-0.00087}$ (-0.2σ)	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6101	$0.610^{+0.016}_{-0.017}$ (-0.3σ)	$H(0.38)$	79.74	$79.4^{+5.1}_{-4.8}$ (-0.0σ)
τ	0.0500	$0.049^{+0.021}_{-0.023}$ (-0.1σ)	$\sigma_8/h^{0.5}$	0.9949	$0.995^{+0.024}_{-0.026}$ (-0.3σ)	$D_{\mathrm{M}}(0.38)$	1604	1614^{+130}_{-120} $(+0.0\sigma)$
Ω_K	-0.0092	$-0.011^{+0.015}_{-0.018}$ (-0.0σ)	$r_{\mathrm{drag}} h$	94.3	$93.8^{+8.2}_{-8.2}$ $(+0.0\sigma)$	$H(0.51)$	86.59	$86.3^{+4.9}_{-4.6}$ (-0.0σ)
$\ln(10^{10} A_{\mathrm{s}})$	3.0294	$3.027^{+0.044}_{-0.049}$ (-0.2σ)	$\langle d^2 \rangle^{1/2}$	2.468	$2.470^{+0.071}_{-0.070}$ (-0.3σ)	$D_{\mathrm{M}}(0.51)$	2073	2085^{+150}_{-140} $(+0.0\sigma)$
n_{s}	0.9693	$0.969^{+0.012}_{-0.013}$ $(+0.1\sigma)$	z_{re}	7.16	$7.0^{+2.1}_{-2.7}$ (-0.1σ)	$H(0.61)$	92.30	$92.0^{+4.7}_{-4.4}$ (-0.0σ)
y_{cal}	0.9999	$1.0001^{+0.0061}_{-0.0065}$ $(+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	2.069	$2.063^{+0.092}_{-0.10}$ (-0.2σ)	$D_{\mathrm{M}}(0.61)$	2408	2421^{+170}_{-160} $(+0.0\sigma)$
A_{100}^{PS}	233	238^{+60}_{-60} (-0.7σ)	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8717	$1.871^{+0.028}_{-0.029}$ (-0.3σ)	$H(2.33)$	233.57	$233.3^{+4.7}_{-4.7}$ (-0.2σ)
A_{143}^{PS}	46.5	37^{+20}_{-20} (-0.9σ)	D_{40}	1213.6	1212^{+37}_{-36} (-0.3σ)	$D_{\mathrm{M}}(2.33)$	5920	5939^{+250}_{-240} $(+0.0\sigma)$
A_{217}^{PS}	104.8	102^{+30}_{-40} (-1.2σ)	D_{220}	5721	5722^{+99}_{-100} (-0.3σ)	$f\sigma_8(0.15)$	0.4702	$0.471^{+0.025}_{-0.025}$ (-0.2σ)
A_{217}^{CIB}	39.1	39^{+20}_{-20} (-1.1σ)	D_{810}	2531.9	2530^{+33}_{-35} (-0.2σ)	$\sigma_8(0.15)$	0.7319	$0.729^{+0.030}_{-0.031}$ (-0.1σ)
A_{143}^{tSZ}	4.82	< 8.83 (-0.8σ)	D_{1420}	815.4	815^{+12}_{-13} (-0.3σ)	$f\sigma_8(0.38)$	0.4812	$0.481^{+0.014}_{-0.015}$ (-0.3σ)
$r_{143 \times 217}^{\mathrm{PS}}$	0.753	$0.66^{+0.31}_{-0.34}$	D_{2000}	230.86	$230.6^{+4.1}_{-4.2}$ (-0.3σ)	$\sigma_8(0.38)$	0.6451	$0.642^{+0.031}_{-0.033}$ (-0.1σ)
$r_{143 \times 217}^{\mathrm{CIB}}$	0.68	—	$n_{\mathrm{s},0.002}$	0.9693	$0.969^{+0.012}_{-0.013}$ $(+0.1\sigma)$	$f\sigma_8(0.51)$	0.4761	$0.476^{+0.011}_{-0.011}$ (-0.3σ)
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.94	—	Y_{P}	0.245416	$0.24541^{+0.00017}_{-0.00018}$ (-0.5σ)	$\sigma_8(0.51)$	0.6021	$0.599^{+0.031}_{-0.033}$ (-0.1σ)
A^{kSZ}	3.0	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246743	$0.24674^{+0.00018}_{-0.00018}$ (-0.5σ)	$f\sigma_8(0.61)$	0.4686	$0.468^{+0.010}_{-0.010}$ (-0.3σ)
A_{100}^{dust}	1.009	$1.01^{+0.50}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	2.576	$2.578^{+0.080}_{-0.081}$ $(+0.5\sigma)$	$\sigma_8(0.61)$	0.5719	$0.569^{+0.031}_{-0.033}$ (-0.1σ)
A_{143}^{dust}	0.950	$0.97^{+0.45}_{-0.46}$	Age/Gyr	14.19	$14.24^{+0.65}_{-0.62}$ $(+0.0\sigma)$	$f\sigma_8(2.33)$	0.2874	$0.286^{+0.017}_{-0.018}$ (-0.1σ)
A_{217}^{dust}	0.981	$0.97^{+0.27}_{-0.25}$	z_*	1089.71	$1089.71^{+0.77}_{-0.77}$ $(+0.2\sigma)$	$\sigma_8(2.33)$	0.2938	$0.292^{+0.021}_{-0.022}$ (-0.1σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.033	$1.02^{+0.41}_{-0.42}$	r_*	144.82	$144.87^{+0.83}_{-0.85}$ $(+0.4\sigma)$	f_{2000}^{143}	28.9	29^{+8}_{-7} $(+0.0\sigma)$
c_{100}	0.99785	$0.9975^{+0.0027}_{-0.0027}$ (-3.6σ)	$100\theta_*$	1.04119	$1.04119^{+0.00080}_{-0.00086}$ (-0.2σ)	f_{2000}^{217}	105.9	$106.1^{+5.1}_{-5.2}$ (-0.1σ)
c_{217}	1.00113	$1.0010^{+0.0041}_{-0.0039}$ $(+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.910	$13.914^{+0.075}_{-0.080}$ $(+0.5\sigma)$	$f_{2000}^{143 \times 217}$	31.5	31^{+6}_{-5} (-0.1σ)
c_{TE}	0.9957	$0.996^{+0.013}_{-0.013}$	z_{drag}	1059.93	$1059.91^{+0.90}_{-0.86}$ (-0.6σ)	$\chi_{\mathrm{lensing}}^2$	9.39	$10.2 (\nu: 1.8)$ (-0.3σ)
c_{EE}	0.9917	$0.991^{+0.013}_{-0.012}$	r_{drag}	147.48	$147.52^{+0.81}_{-0.85}$ $(+0.5\sigma)$	χ_{small}^2	395.63	$396.8 (\nu: 1.1)$ $(+0.0\sigma)$
H_0	64.0	$63.6^{+5.7}_{-5.6}$ $(+0.0\sigma)$	k_{D}	0.14050	$0.14045^{+0.00089}_{-0.00089}$ (-0.7σ)	χ_{lowl}^2	21.83	$21.93 (\nu: 0.4)$ (-0.2σ)
Ω_{Λ}	0.6635	$0.660^{+0.040}_{-0.049}$ $(+0.1\sigma)$	$100\theta_{\mathrm{D}}$	0.16075	$0.16077^{+0.00051}_{-0.00052}$ $(+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.3	$11513.1 (\nu: 16.0)$
Ω_{m}	0.346	$0.351^{+0.067}_{-0.054}$ (-0.0σ)	z_{eq}	3364	3360^{+86}_{-83} (-0.3σ)	χ_{prior}^2	2.0	$7.7 (\nu: 5.6)$ (-0.8σ)
$\Omega_{\mathrm{m}} h^2$	0.14140	$0.1413^{+0.0036}_{-0.0035}$ (-0.3σ)	k_{eq}	0.010266	$0.01026^{+0.00026}_{-0.00025}$ (-0.3σ)	χ_{CMB}^2	11925.1	$11942.0 (\nu: 17.3)$ $(+1553.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	0.0904	$0.0898^{+0.0091}_{-0.0086}$ (-0.1σ)	$100\theta_{\mathrm{eq}}$	0.8205	$0.821^{+0.016}_{-0.016}$ $(+0.2\sigma)$			
σ_8	0.7956	$0.793^{+0.028}_{-0.029}$ (-0.2σ)	$100\theta_{\mathrm{s,eq}}$	0.4531	$0.4535^{+0.0084}_{-0.0083}$ $(+0.2\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11927.06$; $\Delta\chi_{\mathrm{eff}}^2 = 9155.66$; $\bar{\chi}_{\mathrm{eff}}^2 = 11949.70$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.00$; $R - 1 = 0.01965$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 9.39 (Δ -0.39) small.100x143_offlike5_EE_Aplanck_B: 395.63 (Δ -0.01) commander_dx12_v3_2_29: 21.83 (Δ -0.01) CamSpec like_10.7HM_1400_unified: 11498.26

16.48 base_omegak_CamSpecHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02242^{+0.00046}_{-0.00042} \quad (-0.5\sigma)$	S_8	$0.854^{+0.051}_{-0.049} \quad (-0.2\sigma)$	$H(0.15)$	$69.5^{+5.2}_{-4.8} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0038}_{-0.0037} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.468^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$675^{+53}_{-50} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04102^{+0.00080}_{-0.00083} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.016}_{-0.017} \quad (-0.3\sigma)$	$H(0.38)$	$79.8^{+4.8}_{-4.5} \quad (+0.0\sigma)$
τ	$0.0523^{+0.017}_{-0.0098} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.996^{+0.024}_{-0.026} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1603^{+110}_{-110} \quad (-0.0\sigma)$
Ω_K	$-0.009^{+0.014}_{-0.016} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$94.5^{+7.8}_{-7.2} \quad (+0.1\sigma)$	$H(0.51)$	$86.7^{+4.7}_{-4.4} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.033^{+0.039}_{-0.026} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.470^{+0.069}_{-0.069} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$2072^{+140}_{-130} \quad (-0.0\sigma)$
n_{s}	$0.970^{+0.012}_{-0.013} \quad (+0.1\sigma)$	z_{re}	$< 9.02 \quad (-0.1\sigma)$	$H(0.61)$	$92.4^{+4.6}_{-4.3} \quad (+0.0\sigma)$
y_{cal}	$1.0001^{+0.0062}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.077^{+0.083}_{-0.053} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2407^{+160}_{-150} \quad (-0.0\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.870^{+0.029}_{-0.030} \quad (-0.3\sigma)$	$H(2.33)$	$233.5^{+4.6}_{-4.6} \quad (-0.1\sigma)$
A_{143}^{PS}	$37^{+20}_{-20} \quad (-0.9\sigma)$	D_{40}	$1213^{+37}_{-37} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5919^{+240}_{-240} \quad (+0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.2\sigma)$	D_{220}	$5721^{+97}_{-110} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.470^{+0.024}_{-0.024} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2530^{+33}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.733^{+0.027}_{-0.024} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.8\sigma)$	D_{1420}	$815^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.481^{+0.013}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.35}$	D_{2000}	$230.7^{+4.0}_{-4.2} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.646^{+0.029}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.970^{+0.012}_{-0.013} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.010}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24541^{+0.00018}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.603^{+0.029}_{-0.027} \quad (-0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00018}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.4688^{+0.0097}_{-0.0096} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.577^{+0.080}_{-0.083} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.573^{+0.028}_{-0.026} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	$\mathrm{Age}/\mathrm{Gyr}$	$14.19^{+0.61}_{-0.60} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.288^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.25}$	z_*	$1089.70^{+0.77}_{-0.78} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.295^{+0.019}_{-0.018} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	r_*	$144.88^{+0.83}_{-0.86} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.04120^{+0.00079}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.1^{+5.1}_{-5.3} \quad (-0.1\sigma)$
c_{217}	$1.0010^{+0.0042}_{-0.0039} \quad (+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.914^{+0.075}_{-0.082} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$31^{+6}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.995^{+0.013}_{-0.013}$	z_{drag}	$1059.91^{+0.94}_{-0.86} \quad (-0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$10.1 \quad (\nu: 1.7) \quad (-0.3\sigma)$
c_{EE}	$0.991^{+0.013}_{-0.012}$	r_{drag}	$147.53^{+0.80}_{-0.86} \quad (+0.5\sigma)$	χ_{small}^2	$396.3 \quad (\nu: 0.6) \quad (-0.0\sigma)$
H_0	$64.1^{+5.4}_{-5.1} \quad (+0.1\sigma)$	k_{D}	$0.14044^{+0.00091}_{-0.00089} \quad (-0.7\sigma)$	χ_{lowl}^2	$21.99 \quad (\nu: 0.5) \quad (-0.2\sigma)$
Ω_{Λ}	$0.664^{+0.037}_{-0.042} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16077^{+0.00050}_{-0.00052} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.1 \quad (\nu: 16.0)$
Ω_{m}	$0.345^{+0.056}_{-0.050} \quad (-0.1\sigma)$	z_{eq}	$3359^{+86}_{-83} \quad (-0.3\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0036}_{-0.0035} \quad (-0.3\sigma)$	k_{eq}	$0.01025^{+0.00026}_{-0.00025} \quad (-0.3\sigma)$	χ_{CMB}^2	$11941.6 \quad (\nu: 16.8) \quad (+1571.7\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0905^{+0.0088}_{-0.0082} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.821^{+0.017}_{-0.016} \quad (+0.2\sigma)$		
σ_8	$0.797^{+0.026}_{-0.023} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4535^{+0.0084}_{-0.0083} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.31; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.04; R - 1 = 0.03090$$

16.49 base_omegak_CleanedCamSpecHM_TT_lowl_lowE

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02253^{+0.00074}_{-0.00069}$	$\sigma_8/h^{0.5}$	$1.059^{+0.056}_{-0.069}$	$D_{\mathrm{M}}(0.15)$	820^{+200}_{-200}
$\Omega_{\mathrm{c}}h^2$	$0.1172^{+0.0058}_{-0.0058}$	$r_{\mathrm{drag}}h$	77^{+20}_{-20}	$H(0.38)$	70^{+10}_{-9}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0012}_{-0.0013}$	$\langle d^2 \rangle^{1/2}$	$2.68^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(0.38)$	1903^{+400}_{-300}
τ	$0.048^{+0.021}_{-0.029}$	z_{re}	$6.8^{+2.1}_{-3.6}$	$H(0.51)$	77^{+10}_{-9}
Ω_K	$-0.057^{+0.051}_{-0.089}$	$10^9 A_{\mathrm{s}}$	$2.057^{+0.091}_{-0.11}$	$D_{\mathrm{M}}(0.51)$	2433^{+500}_{-400}
$\ln(10^{10} A_{\mathrm{s}})$	$3.023^{+0.044}_{-0.057}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.867^{+0.037}_{-0.035}$	$H(0.61)$	83^{+10}_{-8}
n_{s}	$0.972^{+0.017}_{-0.017}$	D_{40}	1201^{+48}_{-43}	$D_{\mathrm{M}}(0.61)$	2804^{+500}_{-400}
y_{cal}	$0.9998^{+0.0067}_{-0.0068}$	D_{220}	5734^{+110}_{-110}	$H(2.33)$	$227.5^{+7.8}_{-7.6}$
A_{100}^{PS}	240^{+70}_{-70}	D_{810}	2523^{+37}_{-37}	$D_{\mathrm{M}}(2.33)$	6465^{+650}_{-590}
A_{143}^{tSZ}	—	D_{1420}	812^{+13}_{-14}	$f\sigma_8(0.15)$	$0.536^{+0.059}_{-0.072}$
A^{kSZ}	—	D_{2000}	$231.6^{+5.2}_{-5.5}$	$\sigma_8(0.15)$	$0.689^{+0.055}_{-0.073}$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	$n_{\mathrm{s},0.002}$	$0.972^{+0.017}_{-0.017}$	$f\sigma_8(0.38)$	$0.511^{+0.022}_{-0.034}$
A_{143}^{power}	$8.0^{+6.2}_{-5.5}$	Y_{P}	$0.24545^{+0.00032}_{-0.00030}$	$\sigma_8(0.38)$	$0.594^{+0.062}_{-0.078}$
A_{217}^{power}	$6.5^{+6.0}_{-3.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24678^{+0.00032}_{-0.00030}$	$f\sigma_8(0.51)$	$0.490^{+0.017}_{-0.021}$
$A_{143 \times 217}^{\mathrm{power}}$	< 7.72	$10^5 \mathrm{D}/\mathrm{H}$	$2.56^{+0.13}_{-0.13}$	$\sigma_8(0.51)$	$0.549^{+0.063}_{-0.078}$
$\gamma_{143}^{\mathrm{power}}$	—	Age/Gyr	$15.6^{+1.8}_{-1.6}$	$f\sigma_8(0.61)$	$0.473^{+0.017}_{-0.025}$
$\gamma_{217}^{\mathrm{power}}$	—	z_*	$1089.5^{+1.3}_{-1.2}$	$\sigma_8(0.61)$	$0.518^{+0.063}_{-0.076}$
$\gamma_{143 \times 217}^{\mathrm{power}}$	—	r_*	$145.0^{+1.3}_{-1.3}$	$f\sigma_8(2.33)$	$0.257^{+0.035}_{-0.041}$
c_{100}	$0.9979^{+0.0026}_{-0.0029}$	$100\theta_*$	$1.0414^{+0.0012}_{-0.0013}$	$\sigma_8(2.33)$	$0.256^{+0.043}_{-0.046}$
c_{217}	$0.9992^{+0.0041}_{-0.0031}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.12}_{-0.12}$	f_{2000}^{143}	$19.3^{+8.8}_{-7.9}$
H_0	52^{+10}_{-10}	z_{drag}	$1060.1^{+1.4}_{-1.4}$	f_{2000}^{217}	$13.6^{+5.7}_{-5.9}$
Ω_{Λ}	$0.53^{+0.14}_{-0.22}$	r_{drag}	$147.7^{+1.2}_{-1.3}$	$f_{2000}^{143 \times 217}$	$7.5^{+6.2}_{-5.8}$
Ω_{m}	$0.53^{+0.31}_{-0.19}$	k_{D}	$0.1404^{+0.0013}_{-0.0013}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1404^{+0.0055}_{-0.0054}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00078}_{-0.00077}$	χ_{lowl}^2	$21.39 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.073^{+0.019}_{-0.017}$	z_{eq}	3340^{+130}_{-130}	$\chi_{\mathrm{CamSpec}}^2$	$6712.6 (\nu: 13.9)$
σ_8	$0.764^{+0.046}_{-0.064}$	k_{eq}	$0.01019^{+0.00040}_{-0.00039}$	χ_{prior}^2	$5.1 (\nu: 4.0)$
S_8	$1.01^{+0.17}_{-0.16}$	$100\theta_{\mathrm{eq}}$	$0.825^{+0.026}_{-0.025}$	χ_{CMB}^2	$7130.8 (\nu: 15.5)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.551^{+0.093}_{-0.090}$	$100\theta_{\mathrm{s,eq}}$	$0.456^{+0.013}_{-0.013}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.648^{+0.036}_{-0.044}$	$H(0.15)$	58^{+10}_{-10}		

$\bar{\chi}_{\mathrm{eff}}^2 = 7135.85$; $R - 1 = 0.01609$

17 r

17.1 base_r_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02213^{+0.00058}_{-0.00055}$	$\sigma_8/h^{0.5}$	0.9947	$0.990^{+0.041}_{-0.042}$	$D_M(0.38)$	1542.1	1540^{+41}_{-40}
$\Omega_c h^2$	0.1206	$0.1203^{+0.0054}_{-0.0052}$	$r_{\text{drag}} h$	98.45	$98.7^{+4.1}_{-4.1}$	$H(0.51)$	89.32	$89.4^{+1.2}_{-1.1}$
$100\theta_{\text{MC}}$	1.04078	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.446^{+0.099}_{-0.096}$	$D_M(0.51)$	1996.3	1994^{+48}_{-47}
τ	0.0535	$0.052^{+0.022}_{-0.021}$	z_{re}	7.66	$7.5^{+2.1}_{-2.4}$	$H(0.61)$	95.01	$95.05^{+0.95}_{-0.87}$
$\ln(10^{10} A_s)$	3.0436	$3.039^{+0.044}_{-0.044}$	$10^9 A_s$	2.098	$2.089^{+0.094}_{-0.090}$	$D_M(0.61)$	2322	2319^{+51}_{-51}
n_s	0.9637	$0.964^{+0.014}_{-0.014}$	$10^9 A_s e^{-2\tau}$	1.8853	$1.883^{+0.036}_{-0.035}$	$H(2.33)$	236.73	$236.5^{+3.3}_{-3.2}$
r	0.000	< 0.149	D_{40}	1231.7	1244^{+50}_{-43}	$D_M(2.33)$	5777.4	5776^{+41}_{-43}
y_{cal}	1.0005	$1.0005^{+0.0065}_{-0.0064}$	D_{220}	5711	5711^{+110}_{-100}	$f\sigma_8(0.15)$	0.4644	$0.462^{+0.031}_{-0.031}$
A_{217}^{CIB}	49.0	48^{+20}_{-20}	D_{810}	2538.4	2537^{+36}_{-35}	$\sigma_8(0.15)$	0.7508	$0.748^{+0.020}_{-0.020}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.28	—	D_{1420}	815.6	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4808	$0.478^{+0.024}_{-0.025}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.00	$229.7^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	0.6645	$0.663^{+0.016}_{-0.016}$
A_{100}^{PS}	255	263^{+70}_{-70}	$n_{s,0.002}$	0.9637	$0.964^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	0.4783	$0.476^{+0.021}_{-0.021}$
A_{143}^{PS}	49.3	49^{+20}_{-20}	Y_{P}	0.245295	$0.24529^{+0.00023}_{-0.00026}$	$\sigma_8(0.51)$	0.6215	$0.620^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	46.2	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246621	$0.24662^{+0.00023}_{-0.00026}$	$f\sigma_8(0.61)$	0.4726	$0.470^{+0.019}_{-0.019}$
A_{217}^{PS}	119.2	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.632	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	0.5911	$0.589^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	Age/Gyr	13.829	$13.826^{+0.092}_{-0.094}$	$f\sigma_8(2.33)$	0.2977	$0.2969^{+0.0069}_{-0.0068}$
A_{100}^{dustTT}	8.91	$8.9^{+4.7}_{-4.7}$	z_*	1090.29	$1090.3^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	0.3065	$0.3058^{+0.0073}_{-0.0070}$
A_{143}^{dustTT}	10.76	$10.7^{+4.6}_{-4.6}$	r_*	144.45	$144.5^{+1.2}_{-1.2}$	$r_{0.002}$	0.000	< 0.143
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.4}_{-8.6}$	$100\theta_*$	1.04098	$1.0410^{+0.0012}_{-0.0012}$	$r_{0.01}$	0.000	< 0.146
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.877	$13.88^{+0.11}_{-0.11}$	$\ln(10^{10} A_t)$	-6.27	$-0.7^{+2.2}_{-4.1}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.40	$1059.4^{+1.2}_{-1.1}$	r_{10}	0.0000	< 0.0742
c_{217}	0.99828	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.20	$147.3^{+1.2}_{-1.2}$	$10^9 A_t$	0.000	< 0.312
H_0	66.88	$67.0^{+2.4}_{-2.4}$	k_{D}	0.14057	$0.1405^{+0.0013}_{-0.0013}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.280
Ω_{Λ}	0.6794	$0.681^{+0.031}_{-0.035}$	$100\theta_{\text{D}}$	0.16106	$0.16108^{+0.00067}_{-0.00067}$	f_{2000}^{143}	30.5	31^{+7}_{-8}
Ω_{m}	0.3206	$0.319^{+0.035}_{-0.031}$	z_{eq}	3412	3404^{+120}_{-120}	$f_{2000}^{143 \times 217}$	33.3	33^{+5}_{-5}
$\Omega_{\text{m}} h^2$	0.1434	$0.1431^{+0.0051}_{-0.0050}$	k_{eq}	0.010413	$0.01039^{+0.00037}_{-0.00036}$	f_{2000}^{217}	107.8	$108.0^{+5.0}_{-5.0}$
$\Omega_{\text{m}} h^3$	0.09592	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8108	$0.812^{+0.023}_{-0.022}$	χ_{simall}^2	396.03	$397.1 (\nu: 1.4)$
σ_8	0.8135	$0.811^{+0.023}_{-0.024}$	$100\theta_{\text{s,eq}}$	0.4483	$0.449^{+0.012}_{-0.011}$	χ_{lowl}^2	23.61	$25.0 (\nu: 1.6)$
S_8	0.841	$0.836^{+0.063}_{-0.060}$	$H(0.15)$	72.26	$72.4^{+2.0}_{-2.0}$	χ_{plik}^2	758.6	$771.7 (\nu: 14.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4606	$0.458^{+0.034}_{-0.033}$	$D_M(0.15)$	647.5	647^{+21}_{-20}	χ_{prior}^2	1.4	$7.3 (\nu: 6.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6121	$0.609^{+0.030}_{-0.030}$	$H(0.38)$	82.52	$82.6^{+1.5}_{-1.4}$	χ_{CMB}^2	1178.2	$1193.7 (\nu: 16.0)$

Best-fit $\chi_{\text{eff}}^2 = 1179.62$; $\bar{\chi}_{\text{eff}}^2 = 1201.03$; $R - 1 = 0.00654$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.03 commander_dx12_v3.2_29: 23.61 plik_rd12_HM_v22_TT: 758.60

17.2 base_r_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02222^{+0.00051}_{-0.00049}$	$\langle d^2 \rangle^{1/2}$	2.424	$2.423^{+0.071}_{-0.068}$	$D_M(0.61)$	2305.8	2305^{+31}_{-31}
$\Omega_c h^2$	0.11896	$0.1188^{+0.0032}_{-0.0031}$	z_{re}	7.58	$7.6^{+2.1}_{-2.4}$	$H(2.33)$	235.76	$235.6^{+2.0}_{-2.0}$
$100\theta_{\text{MC}}$	1.04096	$1.0410^{+0.0010}_{-0.0011}$	$10^9 A_s$	2.087	$2.088^{+0.093}_{-0.091}$	$D_M(2.33)$	5766.0	5766^{+31}_{-31}
τ	0.0532	$0.053^{+0.022}_{-0.022}$	$10^9 A_s e^{-2\tau}$	1.8761	$1.877^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	0.4539	$0.453^{+0.020}_{-0.019}$
$\ln(10^{10} A_s)$	3.0383	$3.038^{+0.044}_{-0.044}$	D_{40}	1222.0	1238^{+49}_{-39}	$\sigma_8(0.15)$	0.7455	$0.745^{+0.019}_{-0.018}$
n_s	0.9675	$0.967^{+0.011}_{-0.011}$	D_{220}	5714	5717^{+110}_{-100}	$f\sigma_8(0.38)$	0.4725	$0.472^{+0.017}_{-0.016}$
r	0.000	< 0.154	D_{810}	2535.0	2536^{+37}_{-35}	$\sigma_8(0.38)$	0.6610	$0.661^{+0.016}_{-0.015}$
y_{cal}	1.0001	$1.0006^{+0.0070}_{-0.0064}$	D_{1420}	815.9	816^{+13}_{-13}	$f\sigma_8(0.51)$	0.4712	$0.471^{+0.015}_{-0.015}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	D_{2000}	230.18	$230.1^{+4.6}_{-4.4}$	$\sigma_8(0.51)$	0.6186	$0.619^{+0.015}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.28	—	$n_{\text{s},0.002}$	0.9675	$0.967^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	0.4664	$0.466^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.1	—	Y_{P}	0.245345	$0.24533^{+0.00020}_{-0.00023}$	$\sigma_8(0.61)$	0.5887	$0.589^{+0.014}_{-0.013}$
A_{100}^{PS}	254	262^{+70}_{-70}	$Y_{\text{P}}^{\text{BBN}}$	0.246671	$0.24666^{+0.00020}_{-0.00023}$	$f\sigma_8(2.33)$	0.2969	$0.2969^{+0.0069}_{-0.0067}$
A_{143}^{PS}	48.1	48^{+20}_{-20}	10^5D/H	2.609	$2.615^{+0.095}_{-0.093}$	$\sigma_8(2.33)$	0.3061	$0.3062^{+0.0072}_{-0.0068}$
$A_{143 \times 217}^{\text{PS}}$	45.5	43^{+20}_{-20}	Age/Gyr	13.804	$13.806^{+0.071}_{-0.070}$	$r_{0.002}$	0.000	< 0.150
A_{217}^{PS}	118.4	115^{+30}_{-30}	z_*	1089.99	$1090.02^{+0.76}_{-0.73}$	$r_{0.01}$	0.000	< 0.152
A^{kSZ}	0.0	—	r_*	144.79	$144.85^{+0.81}_{-0.82}$	$\ln(10^{10} A_{\text{t}})$	-5.91	$-0.6^{+2.2}_{-3.9}$
A_{100}^{dustTT}	8.92	$8.9^{+4.7}_{-4.8}$	$100\theta_*$	1.04116	$1.0412^{+0.0010}_{-0.0011}$	r_{10}	0.0001	< 0.0773
A_{143}^{dustTT}	10.83	$10.7^{+4.4}_{-4.5}$	$D_M(z_*)/\text{Gpc}$	13.907	$13.912^{+0.081}_{-0.079}$	$10^9 A_{\text{t}}$	0.000	< 0.323
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+8.5}_{-9.0}$	z_{drag}	1059.59	$1059.5^{+1.1}_{-1.1}$	$10^9 A_{\text{t}} e^{-2\tau}$	0.000	< 0.289
A_{217}^{dustTT}	94.5	94^{+20}_{-20}	r_{drag}	147.50	$147.57^{+0.89}_{-0.88}$	f_{2000}^{143}	30.1	31^{+7}_{-7}
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	0.14034	$0.1402^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{\text{D}}$	0.16097	$0.16103^{+0.00066}_{-0.00065}$	f_{2000}^{217}	107.41	$107.8^{+5.0}_{-4.9}$
H_0	67.63	$67.7^{+1.4}_{-1.4}$	z_{eq}	3374	3371^{+75}_{-73}	χ_{small}^2	395.88	$397.2 (\nu: 1.6)$
Ω_{Λ}	0.6899	$0.690^{+0.018}_{-0.019}$	k_{eq}	0.010299	$0.01029^{+0.00023}_{-0.00022}$	χ_{lowl}^2	22.78	$24.3 (\nu: 1.2)$
Ω_{m}	0.3101	$0.310^{+0.019}_{-0.018}$	$100\theta_{\text{eq}}$	0.8180	$0.819^{+0.014}_{-0.014}$	χ_{plik}^2	760.2	$772.4 (\nu: 15.0)$
$\Omega_{\text{m}} h^2$	0.14185	$0.1417^{+0.0031}_{-0.0030}$	$100\theta_{\text{s,eq}}$	0.4519	$0.4523^{+0.0071}_{-0.0070}$	$\chi_{6\text{DF}}^2$	0.022	$0.053 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09593	$0.0959^{+0.0012}_{-0.0012}$	$H(0.15)$	72.89	$72.9^{+1.2}_{-1.2}$	χ_{MGS}^2	1.28	$1.41 (\nu: 0.1)$
σ_8	0.8066	$0.806^{+0.021}_{-0.020}$	$D_M(0.15)$	641.1	641^{+12}_{-12}	χ_{DR12BAO}^2	4.21	$4.6 (\nu: 1.2)$
S_8	0.8202	$0.819^{+0.040}_{-0.037}$	$H(0.38)$	82.97	$82.99^{+0.91}_{-0.89}$	χ_{prior}^2	1.4	$7.4 (\nu: 7.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4492	$0.449^{+0.022}_{-0.020}$	$D_M(0.38)$	1529.4	1529^{+24}_{-24}	χ_{BAO}^2	5.51	$6.1 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6020	$0.601^{+0.021}_{-0.020}$	$H(0.51)$	89.67	$89.68^{+0.74}_{-0.73}$	χ_{CMB}^2	1178.8	$1193.8 (\nu: 16.2)$
$\sigma_8/h^{0.5}$	0.9809	$0.980^{+0.030}_{-0.029}$	$D_M(0.51)$	1981.4	1981^{+29}_{-28}			
$r_{\text{drag}} h$	99.76	$99.9^{+2.4}_{-2.4}$	$H(0.61)$	95.28	$95.28^{+0.63}_{-0.62}$			

Best-fit $\chi_{\text{eff}}^2 = 1185.79$; $\bar{\chi}_{\text{eff}}^2 = 1207.29$; $R - 1 = 0.01115$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.28 DR12BAO: 4.21 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3_2_29: 22.79 plik_rd12_HM_v22_TT: 760.17

17.3 base_r_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02239	$0.02237^{+0.00057}_{-0.00053}$	$r_{\text{drag}} h$	101.15	$101.3^{+3.7}_{-3.6}$	$D_M(0.51)$	1965.2	1964^{+41}_{-46}
$\Omega_c h^2$	0.11728	$0.1171^{+0.0046}_{-0.0040}$	$\langle d^2 \rangle^{1/2}$	2.400	$2.396^{+0.090}_{-0.083}$	$H(0.61)$	95.60	$95.6^{+1.1}_{-0.82}$
$100\theta_{\text{MC}}$	1.04124	$1.0413^{+0.0011}_{-0.0012}$	z_{re}	7.83	$7.7^{+2.2}_{-2.4}$	$D_M(0.61)$	2288.3	2287^{+44}_{-50}
τ	0.0562	$0.055^{+0.024}_{-0.023}$	$10^9 A_s$	2.093	$2.09^{+0.10}_{-0.098}$	$H(2.33)$	234.82	$234.7^{+2.7}_{-2.4}$
$\ln(10^{10} A_s)$	3.0414	$3.038^{+0.047}_{-0.048}$	$10^9 A_s e^{-2\tau}$	1.8706	$1.870^{+0.034}_{-0.035}$	$D_M(2.33)$	5752.1	5752^{+38}_{-49}
n_s	0.9720	$0.972^{+0.014}_{-0.013}$	D_{40}	1214.1	1231^{+50}_{-42}	$f\sigma_8(0.15)$	0.4450	$0.444^{+0.027}_{-0.028}$
r	0.000	< 0.176	D_{220}	5726	5729^{+94}_{-110}	$\sigma_8(0.15)$	0.7433	$0.742^{+0.020}_{-0.020}$
y_{cal}	1.0004	$1.0007^{+0.0062}_{-0.0061}$	D_{810}	2536.6	2536^{+34}_{-37}	$f\sigma_8(0.38)$	0.4659	$0.464^{+0.022}_{-0.023}$
A_{217}^{CIB}	47.5	47^{+20}_{-20}	D_{1420}	818.0	817^{+12}_{-13}	$\sigma_8(0.38)$	0.6602	$0.659^{+0.017}_{-0.017}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.48	—	D_{2000}	231.05	$230.7^{+4.3}_{-4.4}$	$f\sigma_8(0.51)$	0.4659	$0.465^{+0.020}_{-0.020}$
A_{143}^{tSZ}	7.0	—	$n_{\text{s},0.002}$	0.9720	$0.972^{+0.014}_{-0.013}$	$\sigma_8(0.51)$	0.6184	$0.617^{+0.016}_{-0.016}$
A_{100}^{PS}	251	260^{+70}_{-70}	Y_{P}	0.245403	$0.24539^{+0.00023}_{-0.00024}$	$f\sigma_8(0.61)$	0.4619	$0.461^{+0.018}_{-0.018}$
A_{143}^{PS}	49.3	47^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246730	$0.24672^{+0.00023}_{-0.00024}$	$\sigma_8(0.61)$	0.5888	$0.588^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{PS}}$	49.5	42^{+20}_{-20}	$10^5 \text{D}/\text{H}$	2.582	$2.59^{+0.10}_{-0.10}$	$f\sigma_8(2.33)$	0.2973	$0.2968^{+0.0075}_{-0.0074}$
A_{217}^{PS}	120.0	114^{+20}_{-30}	Age/Gyr	13.774	$13.775^{+0.085}_{-0.11}$	$\sigma_8(2.33)$	0.3071	$0.3066^{+0.0077}_{-0.0070}$
A^{kSZ}	0.0	—	z_*	1089.66	$1089.68^{+0.93}_{-1.0}$	$r_{0.002}$	0.000	< 0.173
A_{100}^{dustTT}	8.90	$8.9^{+4.7}_{-4.6}$	r_*	145.12	$145.18^{+0.88}_{-1.1}$	$r_{0.01}$	0.000	< 0.175
A_{143}^{dustTT}	10.84	$10.7^{+4.4}_{-4.4}$	$100\theta_*$	1.04142	$1.0415^{+0.0011}_{-0.0011}$	$\ln(10^{10} A_{\text{t}})$	-7.17	$-0.5^{+2.2}_{-4.1}$
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$18.4^{+8.8}_{-9.6}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.935	$13.940^{+0.088}_{-0.10}$	r_{10}	0.0000	< 0.0887
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	z_{drag}	1059.78	$1059.7^{+1.1}_{-1.1}$	$10^9 A_{\text{t}}$	0.000	< 0.374
c_{100}	0.99968	$0.9996^{+0.0016}_{-0.0015}$	r_{drag}	147.79	$147.9^{+1.0}_{-1.1}$	$10^9 A_{\text{t}} e^{-2\tau}$	0.000	< 0.331
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0017}$	k_{D}	0.14014	$0.1401^{+0.0012}_{-0.0012}$	f_{2000}^{143}	29.2	30^{+7}_{-7}
H_0	68.44	$68.5^{+2.3}_{-2.0}$	$100\theta_{\text{D}}$	0.16087	$0.16091^{+0.00065}_{-0.00061}$	$f_{2000}^{143 \times 217}$	32.40	33^{+5}_{-5}
Ω_{Λ}	0.7004	$0.701^{+0.026}_{-0.028}$	z_{eq}	3338	3334^{+100}_{-91}	f_{2000}^{217}	106.87	$107.4^{+4.8}_{-4.9}$
Ω_{m}	0.2996	$0.299^{+0.028}_{-0.026}$	k_{eq}	0.010187	$0.01017^{+0.00031}_{-0.00028}$	χ_{simall}^2	396.2	$397.4 (\nu: 2.1)$
$\Omega_{\text{m}} h^2$	0.14032	$0.1401^{+0.0043}_{-0.0038}$	$100\theta_{\text{eq}}$	0.8253	$0.826^{+0.018}_{-0.020}$	χ_{lowl}^2	22.08	$23.6 (\nu: 1.3)$
$\Omega_{\text{m}} h^3$	0.09603	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{s,eq}}$	0.4556	$0.4561^{+0.0089}_{-0.010}$	χ_{plik}^2	762.9	$775.1 (\nu: 19.0)$
σ_8	0.8031	$0.801^{+0.023}_{-0.023}$	$H(0.15)$	73.59	$73.6^{+2.0}_{-1.8}$	χ_{H073p45}^2	9.1	$9.1 (\nu: 3.9)$
S_8	0.803	$0.800^{+0.054}_{-0.054}$	$D_{\text{M}}(0.15)$	634.3	634^{+17}_{-19}	χ_{prior}^2	1.3	$7.4 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4396	$0.438^{+0.030}_{-0.030}$	$H(0.38)$	83.49	$83.5^{+1.6}_{-1.3}$	χ_{CMB}^2	1181.2	$1196.1 (\nu: 19.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5942	$0.592^{+0.027}_{-0.027}$	$D_{\text{M}}(0.38)$	1515.6	1515^{+35}_{-39}			
$\sigma_8/h^{0.5}$	0.9708	$0.968^{+0.038}_{-0.039}$	$H(0.51)$	90.08	$90.1^{+1.3}_{-1.0}$			

Best-fit $\chi_{\text{eff}}^2 = 1191.61$; $\bar{\chi}_{\text{eff}}^2 = 1212.59$; $R - 1 = 0.05992$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.24 commander_dx12_v3.2_29: 22.08 plik_rd12_HM_v22_TT: 762.86 Hubble - H073p45: 9.11

17.4 base_r_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02213^{+0.00058}_{-0.00055}$	$\sigma_8/h^{0.5}$	$0.991^{+0.041}_{-0.041}$	$D_{\mathrm{M}}(0.38)$	1539^{+41}_{-40}
$\Omega_{\mathrm{c}}h^2$	$0.1202^{+0.0054}_{-0.0052}$	$r_{\mathrm{drag}}h$	$98.8^{+4.0}_{-4.1}$	$H(0.51)$	$89.4^{+1.2}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.097}_{-0.095}$	$D_{\mathrm{M}}(0.51)$	1993^{+47}_{-47}
τ	$0.054^{+0.019}_{-0.012}$	z_{re}	< 9.43	$H(0.61)$	$95.07^{+0.95}_{-0.86}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.042}_{-0.029}$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.089}_{-0.061}$	$D_{\mathrm{M}}(0.61)$	2318^{+51}_{-50}
n_{s}	$0.964^{+0.014}_{-0.014}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.036}_{-0.035}$	$H(2.33)$	$236.5^{+3.2}_{-3.1}$
r	< 0.150	D_{40}	1244^{+50}_{-43}	$D_{\mathrm{M}}(2.33)$	5775^{+41}_{-43}
y_{cal}	$1.0005^{+0.0065}_{-0.0064}$	D_{220}	5711^{+110}_{-100}	$f\sigma_8(0.15)$	$0.462^{+0.031}_{-0.030}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-35}	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.018}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.479^{+0.024}_{-0.024}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.013}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.964^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.021}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24529^{+0.00023}_{-0.00026}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24662^{+0.00023}_{-0.00026}$	$f\sigma_8(0.61)$	$0.471^{+0.018}_{-0.019}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.010}$
A^{kSZ}	—	Age/Gyr	$13.825^{+0.092}_{-0.095}$	$f\sigma_8(2.33)$	$0.2974^{+0.0065}_{-0.0047}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	z_*	$1090.2^{+1.0}_{-1.0}$	$\sigma_8(2.33)$	$0.3064^{+0.0069}_{-0.0048}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	r_*	$144.6^{+1.2}_{-1.2}$	$r_{0.002}$	< 0.144
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.6}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0012}$	$r_{0.01}$	< 0.147
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.11}_{-0.11}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.7^{+2.2}_{-4.1}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+1.2}_{-1.1}$	r_{10}	< 0.0744
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.3^{+1.2}_{-1.2}$	$10^9 A_{\mathrm{t}}$	< 0.314
H_0	$67.1^{+2.4}_{-2.3}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.282
Ω_{Λ}	$0.682^{+0.031}_{-0.035}$	$100\theta_{\mathrm{D}}$	$0.16107^{+0.00068}_{-0.00066}$	f_{2000}^{143}	31^{+7}_{-8}
Ω_{m}	$0.318^{+0.035}_{-0.031}$	z_{eq}	3402^{+120}_{-120}	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$\Omega_{\mathrm{m}}h^2$	$0.1430^{+0.0051}_{-0.0049}$	k_{eq}	$0.01038^{+0.00037}_{-0.00036}$	f_{2000}^{217}	$108.0^{+5.0}_{-5.0}$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.023}_{-0.022}$	χ_{simall}^2	$397.0 (\nu: 1.4)$
σ_8	$0.812^{+0.023}_{-0.022}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.011}$	χ_{lowl}^2	$25.0 (\nu: 1.6)$
S_8	$0.836^{+0.063}_{-0.060}$	$H(0.15)$	$72.4^{+2.0}_{-2.0}$	χ_{plik}^2	$771.5 (\nu: 14.4)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.034}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	646^{+20}_{-20}	χ_{prior}^2	$7.3 (\nu: 6.9)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.030}_{-0.029}$	$H(0.38)$	$82.6^{+1.5}_{-1.4}$	χ_{CMB}^2	$1193.4 (\nu: 15.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1200.73; R - 1 = 0.00675$$

17.5 base_r_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00051}_{-0.00049}$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.069}_{-0.064}$	$D_{\mathrm{M}}(0.61)$	2305^{+31}_{-30}
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0031}$	z_{re}	< 9.50	$H(2.33)$	$235.6^{+2.1}_{-2.0}$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0010}_{-0.0011}$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.089}_{-0.060}$	$D_{\mathrm{M}}(2.33)$	5766^{+31}_{-31}
τ	$0.055^{+0.019}_{-0.013}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.019}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.042}_{-0.029}$	D_{40}	1238^{+49}_{-39}	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.014}$
n_{s}	$0.967^{+0.011}_{-0.011}$	D_{220}	5717^{+110}_{-100}	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016}$
r	< 0.156	D_{810}	2536^{+37}_{-35}	$\sigma_8(0.38)$	$0.662^{+0.015}_{-0.011}$
y_{cal}	$1.0006^{+0.0070}_{-0.0063}$	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{2000}	$230.1^{+4.5}_{-4.4}$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.010}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013}$
A_{143}^{tSZ}	—	Y_{P}	$0.24533^{+0.00020}_{-0.00023}$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.0098}$
A_{100}^{PS}	261^{+70}_{-70}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00020}_{-0.00023}$	$f\sigma_8(2.33)$	$0.2973^{+0.0066}_{-0.0048}$
A_{143}^{PS}	48^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.615^{+0.095}_{-0.094}$	$\sigma_8(2.33)$	$0.3066^{+0.0068}_{-0.0049}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Age/Gyr	$13.805^{+0.072}_{-0.070}$	$r_{0.002}$	< 0.151
A_{217}^{PS}	115^{+30}_{-30}	z_{*}	$1090.01^{+0.77}_{-0.74}$	$r_{0.01}$	< 0.153
A^{kSZ}	—	r_{*}	$144.86^{+0.82}_{-0.82}$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.6^{+2.1}_{-3.9}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.8}$	$100\theta_{*}$	$1.0412^{+0.0010}_{-0.0011}$	r_{10}	< 0.0778
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.4}_{-4.5}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.912^{+0.081}_{-0.079}$	$10^9 A_{\mathrm{t}}$	< 0.324
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.4}_{-9.0}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 0.290
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	r_{drag}	$147.58^{+0.88}_{-0.88}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	$0.1402^{+0.0011}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00066}_{-0.00065}$	f_{2000}^{217}	$107.8^{+5.0}_{-4.9}$
H_0	$67.7^{+1.4}_{-1.4}$	z_{eq}	3370^{+75}_{-72}	χ_{simall}^2	$397.1 (\nu: 1.6)$
Ω_{Λ}	$0.691^{+0.018}_{-0.019}$	k_{eq}	$0.01029^{+0.00023}_{-0.00022}$	χ_{lowl}^2	$24.3 (\nu: 1.2)$
Ω_{m}	$0.309^{+0.019}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.014}_{-0.014}$	χ_{plik}^2	$772.2 (\nu: 14.7)$
$\Omega_{\mathrm{m}} h^2$	$0.1417^{+0.0031}_{-0.0030}$	$100\theta_{\mathrm{s,eq}}$	$0.4523^{+0.0071}_{-0.0070}$	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0012}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{MGS}^2	$1.42 (\nu: 0.1)$
σ_8	$0.807^{+0.020}_{-0.016}$	$D_{\mathrm{M}}(0.15)$	641^{+12}_{-12}	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 (\nu: 1.2)$
S_8	$0.820^{+0.039}_{-0.037}$	$H(0.38)$	$83.00^{+0.91}_{-0.89}$	χ_{prior}^2	$7.4 (\nu: 7.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1529^{+24}_{-24}	χ_{BAO}^2	$6.1 (\nu: 0.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.021}_{-0.019}$	$H(0.51)$	$89.69^{+0.74}_{-0.73}$	χ_{CMB}^2	$1193.6 (\nu: 15.8)$
$\sigma_8/h^{0.5}$	$0.982^{+0.030}_{-0.027}$	$D_{\mathrm{M}}(0.51)$	1981^{+28}_{-28}		
$r_{\mathrm{drag}} h$	$99.9^{+2.4}_{-2.4}$	$H(0.61)$	$95.28^{+0.63}_{-0.62}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1207.00; R - 1 = 0.01158$$

17.6 base_r_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00057}_{-0.00053}$	$r_{\text{drag}} h$	$101.3^{+3.7}_{-3.6}$	$D_M(0.51)$	1964^{+41}_{-46}
$\Omega_c h^2$	$0.1171^{+0.0046}_{-0.0040}$	$\langle d^2 \rangle^{1/2}$	$2.399^{+0.088}_{-0.085}$	$H(0.61)$	$95.6^{+1.1}_{-0.82}$
$100\theta_{\text{MC}}$	$1.0413^{+0.0011}_{-0.0012}$	z_{re}	< 9.73	$D_M(0.61)$	2287^{+44}_{-50}
τ	$0.056^{+0.021}_{-0.015}$	$10^9 A_s$	$2.092^{+0.096}_{-0.068}$	$H(2.33)$	$234.7^{+2.7}_{-2.4}$
$\ln(10^{10} A_s)$	$3.041^{+0.045}_{-0.033}$	$10^9 A_s e^{-2\tau}$	$1.870^{+0.033}_{-0.035}$	$D_M(2.33)$	5752^{+38}_{-49}
n_s	$0.972^{+0.014}_{-0.013}$	D_{40}	1231^{+50}_{-42}	$f\sigma_8(0.15)$	$0.444^{+0.027}_{-0.028}$
r	< 0.170	D_{220}	5729^{+94}_{-110}	$\sigma_8(0.15)$	$0.742^{+0.019}_{-0.018}$
y_{cal}	$1.0007^{+0.0061}_{-0.0061}$	D_{810}	2535^{+34}_{-37}	$f\sigma_8(0.38)$	$0.465^{+0.022}_{-0.023}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.660^{+0.016}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$230.7^{+4.4}_{-4.5}$	$f\sigma_8(0.51)$	$0.465^{+0.019}_{-0.020}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.972^{+0.014}_{-0.013}$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.013}$
A_{100}^{PS}	260^{+70}_{-70}	Y_{P}	$0.24539^{+0.00023}_{-0.00024}$	$f\sigma_8(0.61)$	$0.461^{+0.017}_{-0.018}$
A_{143}^{PS}	47^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24672^{+0.00023}_{-0.00024}$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	10^5D/H	$2.59^{+0.10}_{-0.10}$	$f\sigma_8(2.33)$	$0.2971^{+0.0068}_{-0.0056}$
A_{217}^{PS}	114^{+20}_{-30}	Age/Gyr	$13.774^{+0.085}_{-0.11}$	$\sigma_8(2.33)$	$0.3069^{+0.0073}_{-0.0051}$
A^{kSZ}	—	z_*	$1089.67^{+0.92}_{-1.0}$	$r_{0.002}$	< 0.166
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	r_*	$145.19^{+0.87}_{-1.1}$	$r_{0.01}$	< 0.168
A_{143}^{dustTT}	$10.7^{+4.4}_{-4.4}$	$100\theta_*$	$1.0415^{+0.0011}_{-0.0011}$	$\ln(10^{10} A_{\text{t}})$	$-0.5^{+2.2}_{-4.1}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.8}_{-9.6}$	$D_M(z_*)/\text{Gpc}$	$13.941^{+0.088}_{-0.10}$	r_{10}	< 0.0852
A_{217}^{dustTT}	94^{+20}_{-20}	z_{drag}	$1059.7^{+1.0}_{-1.1}$	$10^9 A_{\text{t}}$	< 0.355
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	r_{drag}	$147.9^{+1.0}_{-1.1}$	$10^9 A_{\text{t}} e^{-2\tau}$	< 0.320
c_{217}	$0.9983^{+0.0015}_{-0.0017}$	k_{D}	$0.1401^{+0.0012}_{-0.0012}$	f_{2000}^{143}	30^{+7}_{-7}
H_0	$68.5^{+2.3}_{-2.0}$	$100\theta_{\text{D}}$	$0.16091^{+0.00066}_{-0.00061}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
Ω_{Λ}	$0.701^{+0.026}_{-0.028}$	z_{eq}	3333^{+100}_{-91}	f_{2000}^{217}	$107.4^{+4.8}_{-4.8}$
Ω_{m}	$0.299^{+0.028}_{-0.026}$	k_{eq}	$0.01017^{+0.00031}_{-0.00028}$	χ_{simall}^2	$397.3 (\nu: 2.2)$
$\Omega_{\text{m}} h^2$	$0.1401^{+0.0043}_{-0.0038}$	$100\theta_{\text{eq}}$	$0.826^{+0.018}_{-0.020}$	χ_{lowl}^2	$23.6 (\nu: 1.3)$
$\Omega_{\text{m}} h^3$	$0.0960^{+0.0011}_{-0.0011}$	$100\theta_{\text{s,eq}}$	$0.4561^{+0.0088}_{-0.010}$	χ_{plik}^2	$774.9 (\nu: 18.9)$
σ_8	$0.802^{+0.022}_{-0.020}$	$H(0.15)$	$73.6^{+2.0}_{-1.7}$	χ_{H073p45}^2	$9.1 (\nu: 3.9)$
S_8	$0.800^{+0.054}_{-0.055}$	$D_M(0.15)$	634^{+17}_{-19}	χ_{prior}^2	$7.4 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.438^{+0.029}_{-0.030}$	$H(0.38)$	$83.5^{+1.6}_{-1.3}$	χ_{CMB}^2	$1195.9 (\nu: 19.2)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.593^{+0.027}_{-0.028}$	$D_M(0.38)$	1515^{+35}_{-39}		
$\sigma_8/h^{0.5}$	$0.969^{+0.037}_{-0.040}$	$H(0.51)$	$90.1^{+1.3}_{-1.0}$		

$$\bar{\chi}_{\text{eff}}^2 = 1212.36; R - 1 = 0.06373$$

17.7 base_r_plikHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022376	$0.02236^{+0.00038}_{-0.00038}$	σ_8	0.8119	$0.811^{+0.020}_{-0.019}$	$D_M(0.15)$	643.6	644^{+14}_{-13}
$\Omega_c h^2$	0.12007	$0.1200^{+0.0036}_{-0.0035}$	S_8	0.8328	$0.832^{+0.042}_{-0.041}$	$H(0.38)$	82.85	$82.85^{+0.99}_{-0.94}$
$100\theta_{MC}$	1.04090	$1.04091^{+0.00080}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4562	$0.456^{+0.023}_{-0.023}$	$D_M(0.38)$	1533.9	1534^{+27}_{-27}
τ	0.0543	$0.054^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6086	$0.608^{+0.021}_{-0.021}$	$H(0.51)$	89.62	$89.61^{+0.77}_{-0.74}$
$\ln(10^{10} A_s)$	3.0449	$3.043^{+0.043}_{-0.041}$	$\sigma_8/h^{0.5}$	0.9895	$0.989^{+0.030}_{-0.030}$	$D_M(0.51)$	1986.4	1986^{+31}_{-31}
n_s	0.9661	$0.966^{+0.011}_{-0.011}$	$r_{drag} h$	99.02	$99.0^{+2.7}_{-2.7}$	$H(0.61)$	95.27	$95.27^{+0.62}_{-0.60}$
r	0.000	< 0.155	$\langle d^2 \rangle^{1/2}$	2.445	$2.443^{+0.074}_{-0.072}$	$D_M(0.61)$	2310.9	2311^{+33}_{-34}
y_{cal}	1.0006	$1.0007^{+0.0062}_{-0.0062}$	z_{re}	7.68	$7.6^{+2.1}_{-2.1}$	$H(2.33)$	236.61	$236.6^{+2.1}_{-2.1}$
A_{217}^{CIB}	46.5	47^{+20}_{-20}	$10^9 A_s$	2.101	$2.098^{+0.092}_{-0.084}$	$D_M(2.33)$	5763.7	5764^{+28}_{-28}
$\xi^{tSZ \times CIB}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8845	$1.883^{+0.031}_{-0.029}$	$f\sigma_8(0.15)$	0.4604	$0.460^{+0.021}_{-0.021}$
A_{143}^{tSZ}	7.14	$5.5^{+4.5}_{-4.6}$	D_{40}	1229.2	1244^{+50}_{-36}	$\sigma_8(0.15)$	0.7499	$0.749^{+0.017}_{-0.017}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{220}	5731	5730^{+99}_{-96}	$f\sigma_8(0.38)$	0.4779	$0.477^{+0.017}_{-0.017}$
A_{143}^{PS}	49.3	46^{+20}_{-20}	D_{810}	2541.7	2540^{+34}_{-33}	$\sigma_8(0.38)$	0.6643	$0.664^{+0.015}_{-0.014}$
$A_{143 \times 217}^{PS}$	50.7	42^{+20}_{-20}	D_{1420}	818.5	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4760	$0.475^{+0.015}_{-0.015}$
A_{217}^{PS}	121.1	115^{+30}_{-30}	D_{2000}	231.34	$231.1^{+4.0}_{-3.9}$	$\sigma_8(0.51)$	0.6215	$0.621^{+0.014}_{-0.013}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9661	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	0.4707	$0.470^{+0.014}_{-0.014}$
A_{100}^{dustTT}	8.86	$8.9^{+4.8}_{-4.7}$	Y_P	0.245398	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5912	$0.591^{+0.013}_{-0.012}$
A_{143}^{dustTT}	10.99	$10.9^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246725	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0067}_{-0.0062}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.6^{+8.3}_{-8.7}$	$10^5 D/H$	2.584	$2.588^{+0.073}_{-0.068}$	$\sigma_8(2.33)$	0.3070	$0.3067^{+0.0071}_{-0.0066}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	Age/Gyr	13.797	$13.799^{+0.063}_{-0.062}$	$r_{0.002}$	0.000	< 0.149
A_{100}^{dustTE}	0.115	$0.115^{+0.098}_{-0.096}$	z_*	1089.92	$1089.93^{+0.72}_{-0.69}$	$r_{0.01}$	0.000	< 0.152
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.076}_{-0.076}$	r_*	144.41	$144.43^{+0.80}_{-0.78}$	$\ln(10^{10} A_t)$	-6.12	$-0.6^{+2.1}_{-4.0}$
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	1.04109	$1.04109^{+0.00079}_{-0.00078}$	r_{10}	0.0000	< 0.0770
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.871	$13.873^{+0.074}_{-0.072}$	$10^9 A_t$	0.000	< 0.324
$A_{143 \times 217}^{dustTE}$	0.667	$0.67^{+0.21}_{-0.20}$	z_{drag}	1059.97	$1059.92^{+0.74}_{-0.78}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.291
A_{217}^{dustTE}	2.09	$2.08^{+0.69}_{-0.69}$	r_{drag}	147.07	$147.10^{+0.78}_{-0.77}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14090	$0.14086^{+0.00083}_{-0.00083}$	$f_{2000}^{143 \times 217}$	31.98	32^{+5}_{-5}
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160745	$0.16077^{+0.00045}_{-0.00043}$	f_{2000}^{217}	106.60	$106.9^{+4.6}_{-4.6}$
H_0	67.33	$67.3^{+1.6}_{-1.6}$	z_{eq}	3404	3403^{+81}_{-80}	χ_{small}^2	396.05	$397.2 (\nu: 1.7)$
Ω_Λ	0.6844	$0.684^{+0.021}_{-0.023}$	k_{eq}	0.010389	$0.01039^{+0.00025}_{-0.00024}$	χ_{lowl}^2	23.24	$24.8 (\nu: 1.3)$
Ω_m	0.3156	$0.316^{+0.023}_{-0.021}$	$100\theta_{eq}$	0.8130	$0.813^{+0.015}_{-0.015}$	χ_{plik}^2	2344.9	$2359.6 (\nu: 16.8)$
$\Omega_m h^2$	0.14309	$0.1430^{+0.0034}_{-0.0033}$	$100\theta_{s,eq}$	0.4492	$0.4494^{+0.0078}_{-0.0077}$	χ_{prior}^2	1.6	$11.6 (\nu: 10.2)$
$\Omega_m h^3$	0.09634	$0.09631^{+0.00076}_{-0.00075}$	$H(0.15)$	72.66	$72.7^{+1.3}_{-1.3}$	χ_{CMB}^2	2764.1	$2781.6 (\nu: 18.0)$

Best-fit $\chi_{eff}^2 = 2765.76$; $\bar{\chi}_{eff}^2 = 2793.18$; $R - 1 = 0.00988$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2_29: 23.24 plik_rd12_HM_v22b_TTTEEE: 2344.85

17.8 base_r_plikHM_TTTEEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022440	$0.02241^{+0.00035}_{-0.00035}$	$\sigma_8 \Omega_m^{0.5}$	0.4518	$0.451^{+0.018}_{-0.018}$	$D_M(0.51)$	1979.1	1979^{+23}_{-23}
$\Omega_c h^2$	0.11926	$0.1192^{+0.0026}_{-0.0026}$	$\sigma_8 \Omega_m^{0.25}$	0.6051	$0.604^{+0.018}_{-0.017}$	$H(0.61)$	95.406	$95.39^{+0.49}_{-0.48}$
$100\theta_{MC}$	1.04099	$1.04100^{+0.00075}_{-0.00075}$	$\sigma_8/h^{0.5}$	0.9852	$0.983^{+0.027}_{-0.025}$	$D_M(0.61)$	2303.0	2303^{+25}_{-25}
τ	0.0565	$0.055^{+0.022}_{-0.020}$	$r_{drag} h$	99.66	$99.7^{+2.0}_{-2.0}$	$H(2.33)$	236.15	$236.1^{+1.6}_{-1.6}$
$\ln(10^{10} A_s)$	3.0472	$3.044^{+0.044}_{-0.041}$	$\langle d^2 \rangle^{1/2}$	2.435	$2.431^{+0.064}_{-0.062}$	$D_M(2.33)$	5757.9	5759^{+23}_{-23}
n_s	0.9680	$0.9677^{+0.0094}_{-0.0098}$	z_{re}	7.88	$7.7^{+2.1}_{-2.1}$	$f\sigma_8(0.15)$	0.4564	$0.456^{+0.017}_{-0.017}$
r	0.000	< 0.156	$10^9 A_s$	2.106	$2.099^{+0.094}_{-0.084}$	$\sigma_8(0.15)$	0.7491	$0.748^{+0.017}_{-0.016}$
y_{cal}	1.0005	$1.0008^{+0.0062}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8806	$1.880^{+0.028}_{-0.029}$	$f\sigma_8(0.38)$	0.4750	$0.474^{+0.015}_{-0.014}$
A_{217}^{CIB}	46.1	47^{+20}_{-20}	D_{40}	1225.2	1241^{+49}_{-34}	$\sigma_8(0.38)$	0.6642	$0.663^{+0.015}_{-0.014}$
$\xi^{tSZ \times CIB}$	0.63	—	D_{220}	5734	5733^{+100}_{-93}	$f\sigma_8(0.51)$	0.4737	$0.473^{+0.013}_{-0.013}$
A_{143}^{tSZ}	7.12	$5.5^{+4.5}_{-4.6}$	D_{810}	2540.4	2540^{+33}_{-33}	$\sigma_8(0.51)$	0.6216	$0.620^{+0.014}_{-0.013}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{1420}	818.8	818^{+12}_{-11}	$f\sigma_8(0.61)$	0.4688	$0.468^{+0.013}_{-0.012}$
A_{143}^{PS}	49.9	45^{+20}_{-20}	D_{2000}	231.53	$231.3^{+3.9}_{-3.9}$	$\sigma_8(0.61)$	0.5915	$0.590^{+0.013}_{-0.012}$
$A_{143 \times 217}^{PS}$	52.3	42^{+20}_{-20}	$n_{s,0.002}$	0.9680	$0.9677^{+0.0094}_{-0.0098}$	$f\sigma_8(2.33)$	0.2983	$0.2977^{+0.0069}_{-0.0060}$
A_{217}^{PS}	121.3	115^{+20}_{-30}	Y_P	0.245422	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3075	$0.3070^{+0.0073}_{-0.0063}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246749	$0.24674^{+0.00013}_{-0.00014}$	$r_{0.002}$	0.000	< 0.150
A_{100}^{dustTT}	8.83	$8.9^{+4.8}_{-4.7}$	$10^5 D/H$	2.573	$2.578^{+0.067}_{-0.063}$	$r_{0.01}$	0.000	< 0.154
A_{143}^{dustTT}	11.02	$10.9^{+4.4}_{-4.7}$	Age/Gyr	13.785	$13.787^{+0.052}_{-0.051}$	$\ln(10^{10} A_t)$	-6.22	$-0.5^{+2.0}_{-4.1}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.3}_{-9.0}$	z_*	1089.77	$1089.80^{+0.57}_{-0.57}$	r_{10}	0.0000	< 0.0778
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	r_*	144.57	$144.60^{+0.61}_{-0.61}$	$10^9 A_t$	0.000	< 0.328
A_{100}^{dustTE}	0.115	$0.115^{+0.096}_{-0.097}$	$100\theta_*$	1.04118	$1.04118^{+0.00074}_{-0.00075}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.293
$A_{100 \times 143}^{dustTE}$	0.135	$0.136^{+0.075}_{-0.077}$	$D_M(z_*)/\text{Gpc}$	13.885	$13.888^{+0.059}_{-0.058}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.21}_{-0.21}$	z_{drag}	1060.05	$1059.98^{+0.75}_{-0.74}$	$f_{2000}^{143 \times 217}$	31.78	32^{+5}_{-5}
A_{143}^{dustTE}	0.224	$0.23^{+0.14}_{-0.13}$	r_{drag}	147.21	$147.25^{+0.64}_{-0.63}$	f_{2000}^{217}	106.28	$106.8^{+4.5}_{-4.4}$
$A_{143 \times 217}^{dustTE}$	0.662	$0.66^{+0.21}_{-0.21}$	k_D	0.14079	$0.14073^{+0.00075}_{-0.00075}$	χ_{small}^2	396	1323 (ν : 479840.6)
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.68}$	$100\theta_D$	0.160698	$0.16074^{+0.00045}_{-0.00042}$	χ_{lowl}^2	22.92	24.5 (ν : 1.2)
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3386	3385^{+59}_{-59}	χ_{plik}^2	2345	1435 (ν : 479779.1)
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0015}$	k_{eq}	0.010335	$0.01033^{+0.00018}_{-0.00018}$	χ_{6DF}^2	0.029	0.052 (ν : 0.0)
H_0	67.70	$67.7^{+1.1}_{-1.1}$	$100\theta_{eq}$	0.8164	$0.817^{+0.011}_{-0.011}$	χ_{MGS}^2	1.22	1.29 (ν : 0.1)
Ω_Λ	0.6894	$0.689^{+0.015}_{-0.016}$	$100\theta_{s,eq}$	0.4510	$0.4511^{+0.0058}_{-0.0056}$	$\chi_{DR12BAO}^2$	4.42	4.8 (ν : 0.9)
Ω_m	0.3106	$0.311^{+0.016}_{-0.015}$	$H(0.15)$	72.97	$72.97^{+0.99}_{-0.98}$	χ_{prior}^2	1.6	11.5 (ν : 10.2)
$\Omega_m h^2$	0.14234	$0.1423^{+0.0025}_{-0.0025}$	$D_M(0.15)$	640.5	$640.5^{+9.9}_{-9.7}$	χ_{BAO}^2	5.67	6.1 (ν : 0.6)
$\Omega_m h^3$	0.09636	$0.09631^{+0.00077}_{-0.00075}$	$H(0.38)$	83.08	$83.07^{+0.74}_{-0.72}$	χ_{CMB}^2	2764.7	2781.6 (ν : 17.4)
σ_8	0.8106	$0.809^{+0.019}_{-0.017}$	$D_M(0.38)$	1527.7	1528^{+20}_{-20}			
S_8	0.8248	$0.823^{+0.033}_{-0.032}$	$H(0.51)$	89.79	$89.78^{+0.61}_{-0.58}$			

Best-fit $\chi_{eff}^2 = 2771.96$; $\bar{\chi}_{eff}^2 = 2799.17$; $R - 1 = 0.01744$
 χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.42 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.48 commander_dx12_v3_2_29: 22.92 plik_rd12_HM_v22b_TTTEEE: 2345.31

17.9 base_r_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022506	$0.02248^{+0.00035}_{-0.00037}$	σ_8	0.8085	$0.807^{+0.019}_{-0.020}$	$D_M(0.15)$	637.7	638^{+12}_{-12}
$\Omega_c h^2$	0.11860	$0.1185^{+0.0033}_{-0.0032}$	S_8	0.8170	$0.815^{+0.039}_{-0.043}$	$H(0.38)$	83.29	$83.29^{+0.91}_{-0.91}$
$100\theta_{MC}$	1.04111	$1.04110^{+0.00073}_{-0.00076}$	$\sigma_8 \Omega_m^{0.5}$	0.4475	$0.446^{+0.022}_{-0.023}$	$D_M(0.38)$	1522.1	1522^{+25}_{-24}
τ	0.0570	$0.056^{+0.022}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6015	$0.600^{+0.021}_{-0.024}$	$H(0.51)$	89.96	$89.96^{+0.73}_{-0.72}$
$\ln(10^{10} A_s)$	3.0466	$3.045^{+0.044}_{-0.040}$	$\sigma_8/h^{0.5}$	0.9803	$0.979^{+0.030}_{-0.033}$	$D_M(0.51)$	1972.5	1972^{+29}_{-28}
n_s	0.9699	$0.970^{+0.010}_{-0.011}$	$r_{drag} h$	100.21	$100.3^{+2.6}_{-2.6}$	$H(0.61)$	95.54	$95.53^{+0.60}_{-0.58}$
r	0.001	< 0.161	$\langle d^2 \rangle^{1/2}$	2.423	$2.420^{+0.071}_{-0.080}$	$D_M(0.61)$	2295.9	2296^{+31}_{-31}
y_{cal}	1.0005	$1.0008^{+0.0061}_{-0.0062}$	z_{re}	7.90	$7.8^{+2.1}_{-2.0}$	$H(2.33)$	235.79	$235.7^{+2.0}_{-2.0}$
A_{217}^{CIB}	46.1	46^{+20}_{-20}	$10^9 A_s$	2.104	$2.100^{+0.094}_{-0.082}$	$D_M(2.33)$	5752.1	5753^{+26}_{-26}
$\xi^{tSZ \times CIB}$	0.59	—	$10^9 A_s e^{-2\tau}$	1.8777	$1.877^{+0.030}_{-0.030}$	$f\sigma_8(0.15)$	0.4525	$0.451^{+0.020}_{-0.022}$
A_{143}^{tSZ}	7.16	> 1.04	D_{40}	1221.4	1238^{+51}_{-40}	$\sigma_8(0.15)$	0.7476	$0.746^{+0.017}_{-0.017}$
A_{100}^{PS}	247	257^{+70}_{-70}	D_{220}	5737	5738^{+98}_{-92}	$f\sigma_8(0.38)$	0.4719	$0.471^{+0.017}_{-0.020}$
A_{143}^{PS}	48.3	45^{+20}_{-20}	D_{810}	2540.3	2539^{+33}_{-33}	$\sigma_8(0.38)$	0.6633	$0.662^{+0.015}_{-0.014}$
$A_{143 \times 217}^{PS}$	50.5	42^{+20}_{-20}	D_{1420}	819.5	819^{+12}_{-11}	$f\sigma_8(0.51)$	0.4711	$0.470^{+0.015}_{-0.017}$
A_{217}^{PS}	120.6	115^{+30}_{-20}	D_{2000}	231.83	$231.6^{+3.7}_{-3.9}$	$\sigma_8(0.51)$	0.6210	$0.620^{+0.014}_{-0.013}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9699	$0.970^{+0.010}_{-0.011}$	$f\sigma_8(0.61)$	0.4666	$0.466^{+0.014}_{-0.015}$
A_{100}^{dustTT}	8.87	$8.8^{+4.9}_{-4.8}$	Y_P	0.245447	$0.24544^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.5910	$0.590^{+0.014}_{-0.012}$
A_{143}^{dustTT}	10.99	$10.9^{+4.4}_{-4.8}$	Y_P^{BBN}	0.246773	$0.24676^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	0.2982	$0.2978^{+0.0071}_{-0.0059}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.6^{+8.2}_{-8.9}$	$10^5 D/H$	2.561	$2.565^{+0.068}_{-0.062}$	$\sigma_8(2.33)$	0.3077	$0.3073^{+0.0074}_{-0.0061}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	Age/Gyr	13.772	$13.774^{+0.059}_{-0.057}$	$r_{0.002}$	0.000	< 0.155
A_{100}^{dustTE}	0.112	$0.115^{+0.093}_{-0.098}$	z_*	1089.63	$1089.64^{+0.67}_{-0.65}$	$r_{0.01}$	0.000	< 0.158
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.074}_{-0.079}$	r_*	144.69	$144.74^{+0.71}_{-0.75}$	$\ln(10^{10} A_t)$	-4.52	$-0.5^{+2.1}_{-4.1}$
$A_{100 \times 217}^{dustTE}$	0.479	$0.48^{+0.21}_{-0.21}$	$100\theta_*$	1.04128	$1.04127^{+0.00073}_{-0.00075}$	r_{10}	0.0002	< 0.0802
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.895	$13.900^{+0.068}_{-0.070}$	$10^9 A_t$	0.001	< 0.337
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.16	$1060.09^{+0.80}_{-0.77}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.303
A_{217}^{dustTE}	2.06	$2.06^{+0.68}_{-0.66}$	r_{drag}	147.31	$147.37^{+0.70}_{-0.74}$	χ_{small}^2	396	1327 (ν : 480602.9)
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14074	$0.14066^{+0.00081}_{-0.00078}$	χ_{lowl}^2	22.59	24.2 (ν : 1.2)
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160647	$0.16068^{+0.00044}_{-0.00042}$	χ_{plik}^2	2346	1431 (ν : 480721.2)
H_0	68.02	$68.0^{+1.5}_{-1.5}$	z_{eq}	3372	3368^{+75}_{-73}	$\chi_{H073p45}^2$	10.7	10.7 (ν : 2.5)
Ω_Λ	0.6937	$0.694^{+0.019}_{-0.020}$	k_{eq}	0.010291	$0.01028^{+0.00023}_{-0.00022}$	χ_{prior}^2	1.7	11.5 (ν : 10.3)
Ω_m	0.3063	$0.306^{+0.020}_{-0.019}$	$100\theta_{eq}$	0.8193	$0.820^{+0.014}_{-0.014}$	χ_{CMB}^2	2765.6	2782.9 (ν : 19.8)
$\Omega_m h^2$	0.14175	$0.1416^{+0.0031}_{-0.0031}$	$100\theta_{s,eq}$	0.4524	$0.4527^{+0.0073}_{-0.0072}$			
$\Omega_m h^3$	0.09642	$0.09635^{+0.00079}_{-0.00074}$	$H(0.15)$	73.26	$73.3^{+1.3}_{-1.2}$			

Best-fit $\chi_{\text{eff}}^2 = 2777.94$; $\bar{\chi}_{\text{eff}}^2 = 2805.11$; $R - 1 = 0.02628$

χ_{eff}^2 : CMB - small_100x143_offlike5_EE_Aplanck_B: 396.48 commander_dx12_v3.2_29: 22.59 plik_rd12_HM_v22b_TTTEEE: 2346.48 Hubble - H073p45: 10.68

17.10 base_r_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02236^{+0.00038}_{-0.00039}$	σ_8	$0.812^{+0.019}_{-0.017}$	$D_M(0.15)$	643^{+13}_{-13}
$\Omega_c h^2$	$0.1200^{+0.0035}_{-0.0035}$	S_8	$0.832^{+0.042}_{-0.041}$	$H(0.38)$	$82.86^{+0.98}_{-0.94}$
$100\theta_{MC}$	$1.04091^{+0.00080}_{-0.00078}$	$\sigma_8 \Omega_m^{0.5}$	$0.456^{+0.023}_{-0.023}$	$D_M(0.38)$	1534^{+26}_{-26}
τ	$0.055^{+0.019}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.021}_{-0.021}$	$H(0.51)$	$89.62^{+0.77}_{-0.74}$
$\ln(10^{10} A_s)$	$3.046^{+0.042}_{-0.029}$	$\sigma_8/h^{0.5}$	$0.989^{+0.030}_{-0.030}$	$D_M(0.51)$	1986^{+31}_{-31}
n_s	$0.966^{+0.011}_{-0.011}$	$r_{\text{drag}} h$	$99.1^{+2.7}_{-2.7}$	$H(0.61)$	$95.27^{+0.61}_{-0.59}$
r	< 0.155	$\langle d^2 \rangle^{1/2}$	$2.445^{+0.073}_{-0.068}$	$D_M(0.61)$	2311^{+33}_{-33}
y_{cal}	$1.0007^{+0.0062}_{-0.0061}$	z_{re}	< 9.53	$H(2.33)$	$236.5^{+2.1}_{-2.1}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.102^{+0.089}_{-0.061}$	$D_M(2.33)$	5764^{+28}_{-28}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.031}_{-0.030}$	$f\sigma_8(0.15)$	$0.460^{+0.021}_{-0.021}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{40}	1244^{+50}_{-36}	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.014}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5730^{+99}_{-96}	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.017}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2540^{+35}_{-33}	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.476^{+0.015}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.1^{+4.0}_{-3.9}$	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.010}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	Y_P	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.0094}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.5}$	Y_P^{BBN}	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	$0.2980^{+0.0065}_{-0.0046}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.7}$	$10^5 D/H$	$2.587^{+0.073}_{-0.068}$	$\sigma_8(2.33)$	$0.3070^{+0.0069}_{-0.0046}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.798^{+0.062}_{-0.061}$	$r_{0.002}$	< 0.149
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.095}$	z_*	$1089.93^{+0.72}_{-0.69}$	$r_{0.01}$	< 0.152
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.076}$	r_*	$144.44^{+0.80}_{-0.76}$	$\ln(10^{10} A_t)$	$-0.6^{+2.1}_{-4.0}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04110^{+0.00079}_{-0.00077}$	r_{10}	< 0.0770
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.874^{+0.074}_{-0.071}$	$10^9 A_t$	< 0.326
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.20}$	z_{drag}	$1059.92^{+0.77}_{-0.79}$	$10^9 A_t e^{-2\tau}$	< 0.291
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.69}$	r_{drag}	$147.10^{+0.78}_{-0.76}$	f_{2000}^{143}	29^{+7}_{-7}
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14085^{+0.00083}_{-0.00083}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16077^{+0.00045}_{-0.00043}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.6}$
H_0	$67.4^{+1.5}_{-1.5}$	z_{eq}	3402^{+80}_{-80}	χ_{simall}^2	$397.2 (\nu: 1.8)$
Ω_Λ	$0.685^{+0.021}_{-0.022}$	k_{eq}	$0.01038^{+0.00024}_{-0.00024}$	χ_{lowl}^2	$24.8 (\nu: 1.3)$
Ω_m	$0.315^{+0.022}_{-0.021}$	$100\theta_{\text{eq}}$	$0.813^{+0.015}_{-0.015}$	χ_{plik}^2	$2359.4 (\nu: 16.6)$
$\Omega_m h^2$	$0.1430^{+0.0033}_{-0.0033}$	$100\theta_{s,\text{eq}}$	$0.4494^{+0.0078}_{-0.0075}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
$\Omega_m h^3$	$0.09631^{+0.00076}_{-0.00074}$	$H(0.15)$	$72.7^{+1.3}_{-1.3}$	χ_{CMB}^2	$2781.4 (\nu: 17.7)$

$$\bar{\chi}_{\text{eff}}^2 = 2792.94; R - 1 = 0.01114$$

17.11 base_r_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02242^{+0.00035}_{-0.00035}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.018}_{-0.017}$	$D_{\mathrm{M}}(0.51)$	1979^{+23}_{-23}
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0026}_{-0.0026}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.018}_{-0.017}$	$H(0.61)$	$95.40^{+0.48}_{-0.48}$
$100\theta_{\mathrm{MC}}$	$1.04101^{+0.00076}_{-0.00076}$	$\sigma_8/h^{0.5}$	$0.984^{+0.026}_{-0.024}$	$D_{\mathrm{M}}(0.61)$	2303^{+25}_{-25}
τ	$0.056^{+0.020}_{-0.014}$	$r_{\mathrm{drag}}h$	$99.7^{+2.0}_{-2.0}$	$H(2.33)$	$236.1^{+1.6}_{-1.6}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.043}_{-0.030}$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.063}_{-0.058}$	$D_{\mathrm{M}}(2.33)$	5759^{+23}_{-23}
n_{s}	$0.9678^{+0.0092}_{-0.0098}$	z_{re}	< 9.59	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016}$
r	< 0.157	$10^9 A_{\mathrm{s}}$	$2.103^{+0.092}_{-0.062}$	$\sigma_8(0.15)$	$0.748^{+0.016}_{-0.013}$
y_{cal}	$1.0008^{+0.0062}_{-0.0060}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.029}_{-0.028}$	$f\sigma_8(0.38)$	$0.474^{+0.014}_{-0.014}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{40}	1241^{+49}_{-34}	$\sigma_8(0.38)$	$0.664^{+0.014}_{-0.011}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{220}	5733^{+99}_{-92}	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.012}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{810}	2540^{+34}_{-33}	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.010}$
A_{100}^{PS}	258^{+70}_{-70}	D_{1420}	818^{+12}_{-11}	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.011}$
A_{143}^{PS}	45^{+20}_{-20}	D_{2000}	$231.3^{+3.9}_{-3.8}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.0096}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.9678^{+0.0092}_{-0.0098}$	$f\sigma_8(2.33)$	$0.2980^{+0.0066}_{-0.0047}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3073^{+0.0064}_{-0.0051}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$r_{0.002}$	< 0.152
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$10^5\mathrm{D}/\mathrm{H}$	$2.577^{+0.066}_{-0.062}$	$r_{0.01}$	< 0.154
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.4}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.787^{+0.052}_{-0.052}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.5^{+2.1}_{-4.1}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.3}_{-9.0}$	z_{*}	$1089.79^{+0.57}_{-0.57}$	r_{10}	< 0.0780
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	r_{*}	$144.60^{+0.61}_{-0.61}$	$10^9 A_{\mathrm{t}}$	< 0.328
$A_{100}^{\mathrm{dust}TE}$	$0.116^{+0.096}_{-0.095}$	$100\theta_{*}$	$1.04119^{+0.00074}_{-0.00075}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.297
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.136^{+0.074}_{-0.077}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.888^{+0.059}_{-0.058}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.21}$	z_{drag}	$1059.99^{+0.75}_{-0.74}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	r_{drag}	$147.25^{+0.64}_{-0.63}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.4}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	k_{D}	$0.14073^{+0.00075}_{-0.00075}$	χ_{simall}^2	$1323 (\nu: 479776.2)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.68}$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00044}_{-0.00042}$	χ_{lowl}^2	$24.5 (\nu: 1.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3384^{+59}_{-60}	χ_{plik}^2	$1434 (\nu: 479709.9)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	k_{eq}	$0.01033^{+0.00018}_{-0.00018}$	$\chi_{6\mathrm{DF}}^2$	$0.051 (\nu: 0.0)$
H_0	$67.7^{+1.1}_{-1.1}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.011}$	χ_{MGS}^2	$1.30 (\nu: 0.1)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0058}_{-0.0057}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 0.9)$
Ω_{m}	$0.310^{+0.016}_{-0.015}$	$H(0.15)$	$72.98^{+0.99}_{-0.98}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0025}_{-0.0025}$	$D_{\mathrm{M}}(0.15)$	$640.4^{+9.9}_{-9.6}$	χ_{BAO}^2	$6.1 (\nu: 0.6)$
$\Omega_{\mathrm{m}}h^3$	$0.09631^{+0.00076}_{-0.00074}$	$H(0.38)$	$83.07^{+0.74}_{-0.72}$	χ_{CMB}^2	$2781.4 (\nu: 17.2)$
σ_8	$0.810^{+0.018}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1528^{+20}_{-19}		
S_8	$0.824^{+0.033}_{-0.031}$	$H(0.51)$	$89.78^{+0.60}_{-0.58}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2798.95; R - 1 = 0.02065$$

17.12 base_r_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00035}_{-0.00036}$	S_8	$0.815^{+0.039}_{-0.042}$	$D_{\mathrm{M}}(0.38)$	1522^{+25}_{-24}
$\Omega_{\mathrm{c}}h^2$	$0.1185^{+0.0033}_{-0.0032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.022}_{-0.023}$	$H(0.51)$	$89.96^{+0.73}_{-0.72}$
$100\theta_{\mathrm{MC}}$	$1.04110^{+0.00073}_{-0.00076}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.021}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1972^{+29}_{-28}
τ	$0.057^{+0.020}_{-0.015}$	$\sigma_8/h^{0.5}$	$0.979^{+0.029}_{-0.034}$	$H(0.61)$	$95.54^{+0.59}_{-0.57}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.043}_{-0.032}$	$r_{\mathrm{drag}}h$	$100.3^{+2.6}_{-2.6}$	$D_{\mathrm{M}}(0.61)$	2295^{+31}_{-30}
n_{s}	$0.970^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.070}_{-0.082}$	$H(2.33)$	$235.7^{+2.0}_{-1.9}$
r	< 0.161	z_{re}	< 9.65	$D_{\mathrm{M}}(2.33)$	5753^{+26}_{-26}
y_{cal}	$1.0008^{+0.0061}_{-0.0062}$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.092}_{-0.066}$	$f\sigma_8(0.15)$	$0.452^{+0.020}_{-0.022}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.877^{+0.030}_{-0.029}$	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1238^{+50}_{-40}	$f\sigma_8(0.38)$	$0.471^{+0.017}_{-0.019}$
A_{143}^{tSZ}	> 1.04	D_{220}	5738^{+97}_{-92}	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.013}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2539^{+33}_{-33}	$f\sigma_8(0.51)$	$0.470^{+0.015}_{-0.017}$
A_{143}^{PS}	45^{+20}_{-20}	D_{1420}	819^{+12}_{-11}	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$231.6^{+3.7}_{-3.8}$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.016}$
A_{217}^{PS}	115^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.970^{+0.010}_{-0.011}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.010}$
A^{kSZ}	—	Y_{P}	$0.24544^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.2980^{+0.0069}_{-0.0049}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.9}_{-4.8}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24676^{+0.00013}_{-0.00015}$	$\sigma_8(2.33)$	$0.3075^{+0.0071}_{-0.0050}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.3}_{-4.8}$	$10^5\mathrm{D}/\mathrm{H}$	$2.565^{+0.068}_{-0.062}$	$r_{0.002}$	< 0.156
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.1}_{-8.9}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.774^{+0.059}_{-0.057}$	$r_{0.01}$	< 0.158
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.64^{+0.66}_{-0.65}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.5^{+2.1}_{-4.1}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.093}_{-0.097}$	r_*	$144.75^{+0.71}_{-0.75}$	r_{10}	< 0.0802
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.074}_{-0.079}$	$100\theta_*$	$1.04127^{+0.00073}_{-0.00075}$	$10^9 A_{\mathrm{t}}$	< 0.340
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.068}_{-0.070}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.303
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.09^{+0.80}_{-0.73}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$147.37^{+0.69}_{-0.75}$	$f_{2000}^{143\times 217}$	32^{+5}_{-4}
$A_{217}^{\mathrm{dust}TE}$	$2.06^{+0.68}_{-0.66}$	k_{D}	$0.14065^{+0.00082}_{-0.00078}$	f_{2000}^{217}	$106.5^{+4.5}_{-4.2}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16068^{+0.00044}_{-0.00043}$	χ_{simall}^2	$1329 (\nu: 480628.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	z_{eq}	3368^{+75}_{-73}	χ_{lowl}^2	$24.2 (\nu: 1.2)$
H_0	$68.1^{+1.5}_{-1.5}$	k_{eq}	$0.01028^{+0.00023}_{-0.00022}$	χ_{plik}^2	$1430 (\nu: 480704.3)$
Ω_{Λ}	$0.694^{+0.019}_{-0.020}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.014}_{-0.014}$	$\chi_{\mathrm{H073p45}}^2$	$10.7 (\nu: 2.5)$
Ω_{m}	$0.306^{+0.020}_{-0.019}$	$100\theta_{\mathrm{s,eq}}$	$0.4528^{+0.0073}_{-0.0073}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1416^{+0.0031}_{-0.0030}$	$H(0.15)$	$73.3^{+1.2}_{-1.2}$	χ_{CMB}^2	$2782.7 (\nu: 19.4)$
$\Omega_{\mathrm{m}}h^3$	$0.09635^{+0.00079}_{-0.00074}$	$D_{\mathrm{M}}(0.15)$	637^{+12}_{-12}		
σ_8	$0.808^{+0.019}_{-0.019}$	$H(0.38)$	$83.30^{+0.90}_{-0.91}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2804.92; R - 1 = 0.02655$$

17.13 base_r_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02214^{+0.00059}_{-0.00056}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	0.9893	$0.989^{+0.042}_{-0.042}$ (−0.1 σ)	$H(0.51)$	89.44	$89.4^{+1.3}_{-1.1}$ (+0.1 σ)
$\Omega_c h^2$	0.1201	$0.1201^{+0.0056}_{-0.0055}$ (−0.1 σ)	$r_{\text{drag}} h$	98.89	$98.9^{+4.4}_{-4.2}$ (+0.1 σ)	$D_M(0.51)$	1991.4	1992^{+49}_{-50} (−0.1 σ)
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0012}_{-0.0012}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.443	$2.44^{+0.10}_{-0.099}$ (−0.2 σ)	$H(0.61)$	95.09	$95.1^{+1.0}_{-0.88}$ (+0.1 σ)
τ	0.0527	$0.052^{+0.022}_{-0.022}$ (+0.0 σ)	z_{re}	7.56	$7.5^{+2.1}_{-2.4}$ (+0.0 σ)	$D_M(0.61)$	2317	2317^{+52}_{-54} (−0.1 σ)
$\ln(10^{10} A_s)$	3.0397	$3.038^{+0.043}_{-0.045}$ (−0.1 σ)	$10^9 A_s$	2.090	$2.086^{+0.092}_{-0.092}$ (−0.1 σ)	$H(2.33)$	236.40	$236.4^{+3.4}_{-3.3}$ (−0.1 σ)
n_s	0.9648	$0.965^{+0.015}_{-0.015}$ (+0.2 σ)	$10^9 A_s e^{-2\tau}$	1.8810	$1.880^{+0.037}_{-0.035}$ (−0.3 σ)	$D_M(2.33)$	5773.7	5774^{+42}_{-45} (−0.1 σ)
r	0.000	< 0.156 (+0.1 σ)	D_{40}	1227.6	1240^{+52}_{-44} (−0.2 σ)	$f\sigma_8(0.15)$	0.4606	$0.460^{+0.032}_{-0.031}$ (−0.1 σ)
y_{cal}	1.0007	$1.0005^{+0.0065}_{-0.0064}$ (−0.0 σ)	D_{220}	5706	5700^{+110}_{-110} (−0.3 σ)	$\sigma_8(0.15)$	0.7484	$0.748^{+0.019}_{-0.020}$ (−0.1 σ)
A_{100}^{PS}	240	242^{+60}_{-60} (−0.7 σ)	D_{810}	2535.5	2534^{+36}_{-35} (−0.2 σ)	$f\sigma_8(0.38)$	0.4776	$0.477^{+0.025}_{-0.025}$ (−0.1 σ)
A_{143}^{PS}	44.7	41^{+20}_{-20} (−1.0 σ)	D_{1420}	815.0	815^{+13}_{-13} (−0.1 σ)	$\sigma_8(0.38)$	0.6628	$0.662^{+0.016}_{-0.016}$ (−0.1 σ)
A_{217}^{PS}	101.0	102^{+30}_{-30} (−1.4 σ)	D_{2000}	229.80	$229.7^{+4.8}_{-4.6}$ (−0.0 σ)	$f\sigma_8(0.51)$	0.4756	$0.475^{+0.021}_{-0.022}$ (−0.1 σ)
A_{217}^{CIB}	43.6	41^{+20}_{-20} (−1.1 σ)	$n_{s,0.002}$	0.9648	$0.965^{+0.015}_{-0.015}$ (+0.2 σ)	$\sigma_8(0.51)$	0.6200	$0.619^{+0.014}_{-0.015}$ (−0.1 σ)
A_{143}^{tSZ}	5.20	< 8.79 (−0.7 σ)	Y_P	0.245304	$0.24530^{+0.00023}_{-0.00026}$ (+0.1 σ)	$f\sigma_8(0.61)$	0.4702	$0.470^{+0.019}_{-0.019}$ (−0.1 σ)
$r_{143 \times 217}^{\text{PS}}$	0.633	$0.65^{+0.31}_{-0.33}$	Y_P^{BBN}	0.246630	$0.24662^{+0.00023}_{-0.00027}$ (+0.1 σ)	$\sigma_8(0.61)$	0.5898	$0.589^{+0.013}_{-0.014}$ (−0.1 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.79	—	10^5D/H	2.628	$2.63^{+0.11}_{-0.11}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.2972	$0.2968^{+0.0068}_{-0.0067}$ (−0.0 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.41	—	Age/Gyr	13.821	$13.822^{+0.094}_{-0.098}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3061	$0.3058^{+0.0073}_{-0.0070}$ (−0.0 σ)
A^{kSZ}	2.2	—	z_*	1090.21	$1090.2^{+1.1}_{-1.1}$ (−0.1 σ)	$r_{0.002}$	0.000	< 0.150 (+0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.50}$	r_*	144.57	$144.6^{+1.2}_{-1.3}$ (+0.1 σ)	$r_{0.01}$	0.000	< 0.153 (+0.1 σ)
A_{143}^{dust}	0.987	$0.98^{+0.45}_{-0.45}$	$100\theta_*$	1.04110	$1.0411^{+0.0012}_{-0.0012}$ (+0.1 σ)	$\ln(10^{10} A_t)$	−7.90	$−0.7^{+2.2}_{-4.0}$ (+0.0 σ)
A_{217}^{dust}	0.969	$0.97^{+0.26}_{-0.27}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.89^{+0.11}_{-0.12}$ (+0.1 σ)	r_{10}	0.0000	< 0.0777 (+0.1 σ)
$A_{143 \times 217}^{\text{dust}}$	0.998	$1.03^{+0.42}_{-0.41}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$ (+0.1 σ)	$10^9 A_t$	0.000	< 0.323 (+0.1 σ)
c_{100}	0.99756	$0.9974^{+0.0027}_{-0.0027}$ (−3.5 σ)	r_{drag}	147.31	$147.3^{+1.2}_{-1.3}$ (+0.1 σ)	$10^9 A_t e^{-2\tau}$	0.000	< 0.291 (+0.1 σ)
c_{217}	1.00143	$1.0012^{+0.0041}_{-0.0040}$ (+4.7 σ)	k_D	0.14046	$0.1405^{+0.0014}_{-0.0014}$ (−0.0 σ)	f_{2000}^{143}	31.1	31^{+8}_{-8} (−0.1 σ)
H_0	67.13	$67.1^{+2.5}_{-2.4}$ (+0.1 σ)	$100\theta_D$	0.16106	$0.16107^{+0.00068}_{-0.00067}$ (−0.0 σ)	f_{2000}^{217}	107.6	$107.5^{+5.2}_{-5.2}$ (−0.3 σ)
Ω_Λ	0.6829	$0.682^{+0.033}_{-0.036}$ (+0.1 σ)	z_{eq}	3399	3400^{+130}_{-120} (−0.1 σ)	$f_{2000}^{143 \times 217}$	33.0	33^{+6}_{-5} (−0.3 σ)
Ω_m	0.3171	$0.318^{+0.036}_{-0.033}$ (−0.1 σ)	k_{eq}	0.010375	$0.01038^{+0.00039}_{-0.00038}$ (−0.1 σ)	χ_{simall}^2	395.88	$397.1 (\nu: 1.3)$ (−0.0 σ)
$\Omega_m h^2$	0.1429	$0.1429^{+0.0053}_{-0.0052}$ (−0.1 σ)	$100\theta_{\text{eq}}$	0.8132	$0.813^{+0.024}_{-0.023}$ (+0.1 σ)	χ_{lowl}^2	23.22	$24.7 (\nu: 1.6)$ (−0.2 σ)
$\Omega_m h^3$	0.09592	$0.0959^{+0.0012}_{-0.0012}$ (+0.1 σ)	$100\theta_{s,\text{eq}}$	0.4495	$0.449^{+0.012}_{-0.012}$ (+0.1 σ)	χ_{CamSpec}^2	7050.5	$7063.7 (\nu: 15.1)$
σ_8	0.8105	$0.810^{+0.023}_{-0.024}$ (−0.1 σ)	$H(0.15)$	72.46	$72.5^{+2.2}_{-2.0}$ (+0.1 σ)	χ_{prior}^2	2.2	$7.6 (\nu: 6.0)$ (+0.1 σ)
S_8	0.833	$0.833^{+0.065}_{-0.062}$ (−0.1 σ)	$D_M(0.15)$	645.4	646^{+21}_{-21} (−0.1 σ)	χ_{CMB}^2	7469.6	$7485.5 (\nu: 16.4)$ (+1112.9 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4564	$0.456^{+0.035}_{-0.034}$ (−0.1 σ)	$H(0.38)$	82.67	$82.7^{+1.6}_{-1.4}$ (+0.1 σ)			
$\sigma_8 \Omega_m^{0.25}$	0.6082	$0.608^{+0.031}_{-0.030}$ (−0.1 σ)	$D_M(0.38)$	1538.0	1538^{+42}_{-43} (−0.1 σ)			

Best-fit $\chi_{\text{eff}}^2 = 7471.85$; $\Delta\chi_{\text{eff}}^2 = 6292.24$; $\bar{\chi}_{\text{eff}}^2 = 7493.09$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.06$; $R - 1 = 0.00732$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ -0.15) commander_dx12.v3.2.29: 23.22 (Δ -0.39) CamSpec like_10.7HM: 7050.52

17.14 base_r_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00051}_{-0.00050} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	$95.30^{+0.65}_{-0.62} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0032} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.419^{+0.072}_{-0.074} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+31}_{-31} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	z_{re}	$7.6^{+2.1}_{-2.4} \quad (+0.0\sigma)$	$H(2.33)$	$235.6^{+2.0}_{-2.0} \quad (-0.0\sigma)$
τ	$0.053^{+0.021}_{-0.022} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.085^{+0.095}_{-0.092} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5766^{+31}_{-32} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.037^{+0.045}_{-0.045} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.031}_{-0.029} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.020} \quad (-0.1\sigma)$
n_{s}	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	D_{40}	$1235^{+51}_{-39} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.019}_{-0.018} \quad (-0.0\sigma)$
r	$< 0.165 \quad (+0.1\sigma)$	D_{220}	$5704^{+110}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.017} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0064} \quad (-0.0\sigma)$	D_{810}	$2533^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.7\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.015} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.9^{+4.7}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	$0.24533^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.014} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.7\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2968^{+0.0071}_{-0.0069} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.615^{+0.096}_{-0.094} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3061^{+0.0074}_{-0.0071} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Age/Gyr	$13.804^{+0.072}_{-0.072} \quad (-0.1\sigma)$	$r_{0.002}$	$< 0.161 \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1090.01^{+0.76}_{-0.75} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.162 \quad (+0.1\sigma)$
A^{kSZ}	—	r_*	$144.86^{+0.83}_{-0.82} \quad (+0.0\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.6^{+2.2}_{-4.1} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	r_{10}	$< 0.0833 \quad (+0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.44}_{-0.45}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.912^{+0.080}_{-0.080} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.343 \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.309 \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	r_{drag}	$147.58^{+0.89}_{-0.89} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	$0.1402^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.3^{+5.2}_{-5.1} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.6\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00066}_{-0.00064} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	$3370^{+74}_{-74} \quad (-0.0\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.5) \quad (+0.0\sigma)$
Ω_{Λ}	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01028^{+0.00023}_{-0.00022} \quad (-0.0\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 1.3) \quad (-0.2\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.014}_{-0.014} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.2 \quad (\nu: 14.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1417^{+0.0031}_{-0.0031} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4524^{+0.0072}_{-0.0070} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.051 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.44 \quad (\nu: 0.1) \quad (+0.1\sigma)$
σ_8	$0.806^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+12}_{-12} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.1) \quad (-0.0\sigma)$
S_8	$0.818^{+0.038}_{-0.038} \quad (-0.1\sigma)$	$H(0.38)$	$83.01^{+0.92}_{-0.89} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.0) \quad (+0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+24}_{-24} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$H(0.51)$	$89.70^{+0.77}_{-0.73} \quad (+0.1\sigma)$	χ_{CMB}^2	$7485.4 \quad (\nu: 15.8) \quad (+1103.8\sigma)$
$\sigma_8/h^{0.5}$	$0.980^{+0.030}_{-0.030} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+28}_{-28} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7499.09$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.80$; $R - 1 = 0.01122$

17.15 base_r_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02215^{+0.00059}_{-0.00055} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.989^{+0.041}_{-0.041} \quad (-0.1\sigma)$	$H(0.51)$	$89.5^{+1.3}_{-1.1} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1200^{+0.0056}_{-0.0055} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.9^{+4.4}_{-4.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1991^{+48}_{-50} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.099}_{-0.097} \quad (-0.2\sigma)$	$H(0.61)$	$95.1^{+1.0}_{-0.87} \quad (+0.1\sigma)$
τ	$0.054^{+0.019}_{-0.012} \quad (+0.0\sigma)$	z_{re}	$< 9.39 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2316^{+52}_{-53} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.087}_{-0.062} \quad (-0.1\sigma)$	$H(2.33)$	$236.4^{+3.4}_{-3.2} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.036}_{-0.035} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5773^{+41}_{-45} \quad (-0.1\sigma)$
r	$< 0.154 \quad (+0.0\sigma)$	D_{40}	$1240^{+52}_{-44} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.032}_{-0.032} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5700^{+110}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.018} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2533^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.025}_{-0.025} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$229.7^{+4.8}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.021}_{-0.022} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.7\sigma)$	Y_{P}	$0.24530^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.019}_{-0.019} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0065}_{-0.0048} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.821^{+0.093}_{-0.099} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0069}_{-0.0048} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.2^{+1.1}_{-1.1} \quad (-0.1\sigma)$	$r_{0.002}$	$< 0.149 \quad (+0.1\sigma)$
A_{100}^{dust}	$1.00^{+0.50}_{-0.49}$	r_*	$144.6^{+1.2}_{-1.3} \quad (+0.1\sigma)$	$r_{0.01}$	$< 0.151 \quad (+0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.7^{+2.2}_{-4.0} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.89^{+0.11}_{-0.11} \quad (+0.1\sigma)$	r_{10}	$< 0.0768 \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{drag}	$1059.4^{+1.2}_{-1.1} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.321 \quad (+0.0\sigma)$
c_{100}	$0.9974^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.3^{+1.2}_{-1.3} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.288 \quad (+0.0\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	k_{D}	$0.1404^{+0.0013}_{-0.0014} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
H_0	$67.2^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16106^{+0.00067}_{-0.00067} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.4^{+5.2}_{-5.2} \quad (-0.3\sigma)$
Ω_{Λ}	$0.683^{+0.033}_{-0.036} \quad (+0.1\sigma)$	z_{eq}	$3398^{+130}_{-120} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
Ω_{m}	$0.317^{+0.036}_{-0.033} \quad (-0.1\sigma)$	k_{eq}	$0.01037^{+0.00039}_{-0.00038} \quad (-0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.3) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1428^{+0.0053}_{-0.0051} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.024}_{-0.023} \quad (+0.1\sigma)$	χ_{lowl}^2	$24.6 \quad (\nu: 1.6) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.6 \quad (\nu: 15.0)$
σ_8	$0.811^{+0.023}_{-0.022} \quad (-0.1\sigma)$	$H(0.15)$	$72.5^{+2.2}_{-2.0} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
S_8	$0.833^{+0.064}_{-0.062} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$645^{+21}_{-21} \quad (-0.1\sigma)$	χ_{CMB}^2	$7485.2 \quad (\nu: 15.8) \quad (+1126.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.035}_{-0.034} \quad (-0.1\sigma)$	$H(0.38)$	$82.7^{+1.6}_{-1.4} \quad (+0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1538^{+41}_{-42} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7492.76; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.03; R - 1 = 0.00713$$

17.16 base_r_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00051}_{-0.00050} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	$95.30^{+0.65}_{-0.62} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0032}_{-0.0032} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.070}_{-0.068} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+31}_{-31} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	z_{re}	$< 9.47 \quad (+0.0\sigma)$	$H(2.33)$	$235.6^{+2.0}_{-2.0} \quad (-0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.090^{+0.091}_{-0.062} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+31}_{-32} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.043}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.873^{+0.030}_{-0.029} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.019} \quad (-0.1\sigma)$
n_{s}	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	D_{40}	$1234^{+51}_{-39} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.018}_{-0.015} \quad (-0.1\sigma)$
r	$< 0.165 \quad (+0.0\sigma)$	D_{220}	$5704^{+110}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.016}_{-0.016} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0066}_{-0.0064} \quad (-0.0\sigma)$	D_{810}	$2533^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.012} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.7\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.015}_{-0.014} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.0^{+4.8}_{-4.7} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.011} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.4\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.013} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	$0.24533^{+0.00020}_{-0.00023} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.0099} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.7\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0068}_{-0.0048} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.614^{+0.096}_{-0.093} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0070}_{-0.0050} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Age/Gyr	$13.803^{+0.072}_{-0.072} \quad (-0.1\sigma)$	$r_{0.002}$	$< 0.159 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1090.00^{+0.75}_{-0.75} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.162 \quad (+0.0\sigma)$
A^{kSZ}	—	r_*	$144.86^{+0.83}_{-0.82} \quad (+0.0\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.6^{+2.2}_{-4.1} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.48}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	r_{10}	$< 0.0828 \quad (+0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.44}_{-0.46}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.912^{+0.080}_{-0.080} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.343 \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.309 \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	r_{drag}	$147.58^{+0.89}_{-0.89} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	$0.1402^{+0.0012}_{-0.0012} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.2^{+5.2}_{-5.1} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.6\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00065}_{-0.00064} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$67.7^{+1.4}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	$3369^{+74}_{-74} \quad (-0.0\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.5) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.018}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01028^{+0.00023}_{-0.00022} \quad (-0.0\sigma)$	χ_{lowl}^2	$24.1 \quad (\nu: 1.3) \quad (-0.2\sigma)$
Ω_{m}	$0.309^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.014}_{-0.014} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.0 \quad (\nu: 14.7)$
$\Omega_{\mathrm{m}} h^2$	$0.1416^{+0.0031}_{-0.0031} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4524^{+0.0072}_{-0.0070} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.050 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.44 \quad (\nu: 0.1) \quad (+0.1\sigma)$
σ_8	$0.807^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+12}_{-12} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 1.1) \quad (-0.0\sigma)$
S_8	$0.819^{+0.038}_{-0.037} \quad (-0.1\sigma)$	$H(0.38)$	$83.02^{+0.93}_{-0.89} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+24}_{-24} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$H(0.51)$	$89.71^{+0.77}_{-0.73} \quad (+0.1\sigma)$	χ_{CMB}^2	$7485.2 \quad (\nu: 15.5) \quad (+1117.5\sigma)$
$\sigma_8/h^{0.5}$	$0.981^{+0.029}_{-0.028} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+28}_{-28} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7498.81; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.81; R - 1 = 0.01239$$

17.17 base_r_CamSpecHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022286	$0.02230^{+0.00043}_{-0.00042} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4524	$0.451^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$H(0.38)$	82.86	$82.9^{+1.0}_{-1.0} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.11958	$0.1193^{+0.0036}_{-0.0037} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6046	$0.603^{+0.022}_{-0.022} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	1532.8	$1531^{+28}_{-27} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	1.04088	$1.04090^{+0.00081}_{-0.00086} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9839	$0.982^{+0.031}_{-0.031} \quad (-0.6\sigma)$	$H(0.51)$	89.60	$89.65^{+0.82}_{-0.79} \quad (+0.1\sigma)$
τ	0.0524	$0.052^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$r_{\mathrm{drag}}h$	99.30	$99.5^{+2.9}_{-2.8} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	1985.3	$1983^{+33}_{-32} \quad (-0.3\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0375	$3.037^{+0.042}_{-0.042} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	2.431	$2.426^{+0.074}_{-0.074} \quad (-0.6\sigma)$	$H(0.61)$	95.23	$95.28^{+0.67}_{-0.63} \quad (+0.0\sigma)$
n_{s}	0.9666	$0.967^{+0.013}_{-0.012} \quad (+0.4\sigma)$	z_{re}	7.49	$7.5^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	2309.9	$2308^{+35}_{-35} \quad (-0.2\sigma)$
r	0.010	$< 0.187 \quad (+0.5\sigma)$	$10^9 A_{\mathrm{s}}$	2.085	$2.084^{+0.089}_{-0.087} \quad (-0.4\sigma)$	$H(2.33)$	236.20	$236.1^{+2.2}_{-2.2} \quad (-0.6\sigma)$
y_{cal}	1.0004	$1.0005^{+0.0062}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8780	$1.877^{+0.030}_{-0.031} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	5766.9	$5765^{+29}_{-30} \quad (+0.1\sigma)$
A_{100}^{PS}	234	$239^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	1227.1	$1243^{+55}_{-42} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	0.4568	$0.455^{+0.022}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{PS}	39.9	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5712	$5713^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7463	$0.746^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{217}^{PS}	102.1	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2534.9	$2535^{+35}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.473^{+0.018}_{-0.018} \quad (-0.6\sigma)$
A_{217}^{CIB}	44.4	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	816.0	$816^{+13}_{-13} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6613	$0.661^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.41	$< 8.86 \quad (-0.8\sigma)$	D_{2000}	230.33	$230.4^{+4.4}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4730	$0.472^{+0.016}_{-0.016} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.599	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	0.9666	$0.967^{+0.013}_{-0.012} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	0.6188	$0.618^{+0.013}_{-0.013} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.77	—	Y_{P}	0.245362	$0.24536^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4679	$0.467^{+0.014}_{-0.014} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.11	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246688	$0.24669^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5887	$0.588^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A^{kSZ}	0.1	—	$10^5\mathrm{D}/\mathrm{H}$	2.601	$2.599^{+0.081}_{-0.077} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2968	$0.2967^{+0.0065}_{-0.0064} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.00^{+0.50}_{-0.50}$	Age/Gyr	13.806	$13.802^{+0.065}_{-0.067} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3059	$0.3058^{+0.0068}_{-0.0067} \quad (-0.3\sigma)$
A_{143}^{dust}	0.973	$0.96^{+0.45}_{-0.45}$	z_*	1089.99	$1089.95^{+0.76}_{-0.74} \quad (+0.1\sigma)$	$r_{0.002}$	0.009	$< 0.184 \quad (+0.5\sigma)$
A_{217}^{dust}	0.971	$0.97^{+0.27}_{-0.27}$	r_*	144.60	$144.66^{+0.84}_{-0.81} \quad (+0.7\sigma)$	$r_{0.01}$	0.0098	$< 0.186 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.008	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	1.04106	$1.04109^{+0.00080}_{-0.00085} \quad (+0.0\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	-1.54	$-0.2^{+1.8}_{-4.0} \quad (+0.3\sigma)$
c_{100}	0.99764	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.890	$13.895^{+0.078}_{-0.076} \quad (+0.8\sigma)$	r_{10}	0.0048	$< 0.0957 \quad (+0.5\sigma)$
c_{217}	1.00129	$1.0011^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	1059.70	$1059.72^{+0.86}_{-0.90} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{t}}$	0.022	$< 0.391 \quad (+0.5\sigma)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.012}$	r_{drag}	147.30	$147.34^{+0.85}_{-0.81} \quad (+0.8\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.019	$< 0.352 \quad (+0.5\sigma)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	k_{D}	0.14059	$0.14055^{+0.00089}_{-0.00092} \quad (-1.0\sigma)$	f_{2000}^{143}	29.9	$29^{+8}_{-7} \quad (+0.1\sigma)$
H_0	67.41	$67.5^{+1.6}_{-1.6} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	0.16088	$0.16088^{+0.00053}_{-0.00050} \quad (+0.6\sigma)$	f_{2000}^{217}	106.83	$106.7^{+5.0}_{-5.0} \quad (-0.1\sigma)$
Ω_{Λ}	0.6864	$0.688^{+0.022}_{-0.023} \quad (+0.4\sigma)$	z_{eq}	3390	$3385^{+82}_{-84} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$32^{+5}_{-5} \quad (-0.0\sigma)$
Ω_{m}	0.3136	$0.312^{+0.023}_{-0.022} \quad (-0.4\sigma)$	k_{eq}	0.010347	$0.01033^{+0.00025}_{-0.00026} \quad (-0.6\sigma)$	χ_{simall}^2	395.84	$397.1 \quad (\nu: 1.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.14252	$0.1423^{+0.0034}_{-0.0035} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	0.8152	$0.816^{+0.016}_{-0.015} \quad (+0.5\sigma)$	χ_{lowl}^2	23.2	$24.9 \quad (\nu: 1.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.09608	$0.09607^{+0.00082}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4504	$0.4510^{+0.0082}_{-0.0078} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.5	$11513.6 \quad (\nu: 16.6)$
σ_8	0.8079	$0.807^{+0.020}_{-0.020} \quad (-0.6\sigma)$	$H(0.15)$	72.72	$72.8^{+1.4}_{-1.4} \quad (+0.3\sigma)$	χ_{prior}^2	2.2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
S_8	0.8260	$0.823^{+0.043}_{-0.043} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	642.9	$642^{+14}_{-14} \quad (-0.3\sigma)$	χ_{CMB}^2	11918.6	$11935.7 \quad (\nu: 17.7) \quad (+1524.1\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 11920.72$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.95$; $\bar{\chi}_{\mathrm{eff}}^2 = 11943.49$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.31$; $R - 1 = 0.01020$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.84 (Δ -0.21) commander_dx12.v3.2.29: 23.20 (Δ -0.05) CamSpec like_10.7HM.1400.unified: 11499.52

17.18 base_r_CamSpecHM_TTTEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.978^{+0.027}_{-0.027} \quad (-0.5\sigma)$	$H(0.61)$	$95.37^{+0.52}_{-0.51} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1188^{+0.0027}_{-0.0027} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2302^{+26}_{-26} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04097^{+0.00074}_{-0.00079} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.418^{+0.066}_{-0.064} \quad (-0.6\sigma)$	$H(2.33)$	$235.7^{+1.7}_{-1.7} \quad (-0.6\sigma)$
τ	$0.053^{+0.020}_{-0.021} \quad (-0.3\sigma)$	z_{re}	$7.5^{+2.0}_{-2.3} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5761^{+24}_{-24} \quad (+0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.037^{+0.042}_{-0.042} \quad (-0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.085^{+0.089}_{-0.087} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.452^{+0.018}_{-0.017} \quad (-0.5\sigma)$
n_{s}	$0.969^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.028}_{-0.029} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.017}_{-0.016} \quad (-0.5\sigma)$
r	$< 0.190 \quad (+0.5\sigma)$	D_{40}	$1241^{+55}_{-41} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.471^{+0.015}_{-0.015} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0066} \quad (-0.1\sigma)$	D_{220}	$5716^{+99}_{-98} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2534^{+34}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.470^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.5^{+4.3}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.2967^{+0.0065}_{-0.0064} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	$0.3060^{+0.0069}_{-0.0067} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.073}_{-0.071} \quad (+0.6\sigma)$	$r_{0.002}$	$< 0.188 \quad (+0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.794^{+0.056}_{-0.055} \quad (+0.3\sigma)$	$r_{0.01}$	$< 0.188 \quad (+0.5\sigma)$
A^{kSZ}	—	z_*	$1089.86^{+0.62}_{-0.61} \quad (+0.3\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.1^{+1.8}_{-4.3} \quad (+0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	r_*	$144.77^{+0.66}_{-0.65} \quad (+0.7\sigma)$	r_{10}	$< 0.0973 \quad (+0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	$100\theta_*$	$1.04116^{+0.00074}_{-0.00078} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.395 \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.063}_{-0.062} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.355 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	z_{drag}	$1059.77^{+0.85}_{-0.83} \quad (-0.7\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.45^{+0.69}_{-0.68} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.6^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	k_{D}	$0.14046^{+0.00084}_{-0.00081} \quad (-0.9\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00050}_{-0.00050} \quad (+0.7\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.3) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{eq}	$3372^{+62}_{-62} \quad (-0.5\sigma)$	χ_{lowl}^2	$24.7 \quad (\nu: 1.7) \quad (+0.2\sigma)$
H_0	$67.8^{+1.2}_{-1.2} \quad (+0.2\sigma)$	k_{eq}	$0.01029^{+0.00019}_{-0.00019} \quad (-0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.5 \quad (\nu: 16.1)$
Ω_{Λ}	$0.691^{+0.016}_{-0.016} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.819^{+0.012}_{-0.011} \quad (+0.5\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.040 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_{m}	$0.309^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0061}_{-0.0059} \quad (+0.5\sigma)$	χ_{MGS}^2	$1.44 \quad (\nu: 0.1) \quad (+0.4\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0026}_{-0.0026} \quad (-0.5\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.2\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.4 \quad (\nu: 0.7) \quad (-0.3\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09608^{+0.00080}_{-0.00080} \quad (-0.8\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+10}_{-10} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
σ_8	$0.805^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.09^{+0.78}_{-0.76} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.89 \quad (\nu: 0.4) \quad (-0.2\sigma)$
S_8	$0.817^{+0.034}_{-0.033} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+21}_{-21} \quad (-0.1\sigma)$	χ_{CMB}^2	$11935.4 \quad (\nu: 16.9) \quad (+1550.9\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.447^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.51)$	$89.77^{+0.63}_{-0.61} \quad (-0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.600^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1978^{+24}_{-24} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.07; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.90; R - 1 = 0.01061$$

17.19 base_r_CamSpecHM_TTTEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00043}_{-0.00043} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$H(0.38)$	$82.9^{+1.0}_{-1.0} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1193^{+0.0036}_{-0.0036} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.022}_{-0.021} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	$1531^{+28}_{-27} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00081}_{-0.00087} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.030}_{-0.030} \quad (-0.5\sigma)$	$H(0.51)$	$89.66^{+0.82}_{-0.79} \quad (+0.1\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.5^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1983^{+33}_{-32} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.039}_{-0.028} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.073}_{-0.072} \quad (-0.6\sigma)$	$H(0.61)$	$95.28^{+0.67}_{-0.63} \quad (+0.0\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.4\sigma)$	z_{re}	$< 9.30 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2307^{+35}_{-35} \quad (-0.3\sigma)$
r	$< 0.188 \quad (+0.5\sigma)$	$10^9 A_{\mathrm{s}}$	$2.091^{+0.084}_{-0.058} \quad (-0.4\sigma)$	$H(2.33)$	$236.0^{+2.2}_{-2.2} \quad (-0.6\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.031} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+29}_{-30} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+60}_{-70} \quad (-0.7\sigma)$	D_{40}	$1243^{+55}_{-42} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.022}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5713^{+100}_{-100} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.016}_{-0.014} \quad (-0.5\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2534^{+35}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.018}_{-0.018} \quad (-0.6\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.011} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.4}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.015}_{-0.015} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.012}_{-0.012} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.010} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.014} \quad (-0.6\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.0094} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.598^{+0.082}_{-0.077} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0062}_{-0.0044} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.801^{+0.066}_{-0.066} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0064}_{-0.0045} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	z_*	$1089.94^{+0.76}_{-0.74} \quad (+0.1\sigma)$	$r_{0.002}$	$< 0.185 \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_*	$144.66^{+0.83}_{-0.81} \quad (+0.7\sigma)$	$r_{0.01}$	$< 0.186 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00080}_{-0.00085} \quad (+0.0\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+1.8}_{-3.9} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.895^{+0.078}_{-0.076} \quad (+0.8\sigma)$	r_{10}	$< 0.0958 \quad (+0.5\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.73^{+0.89}_{-0.87} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.392 \quad (+0.5\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	r_{drag}	$147.35^{+0.84}_{-0.81} \quad (+0.8\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.352 \quad (+0.5\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14054^{+0.00089}_{-0.00091} \quad (-1.0\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
H_0	$67.5^{+1.6}_{-1.6} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00053}_{-0.00050} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
Ω_{Λ}	$0.688^{+0.021}_{-0.023} \quad (+0.4\sigma)$	z_{eq}	$3384^{+82}_{-83} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
Ω_{m}	$0.312^{+0.023}_{-0.021} \quad (-0.4\sigma)$	k_{eq}	$0.01033^{+0.00025}_{-0.00025} \quad (-0.6\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0034}_{-0.0035} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.016}_{-0.015} \quad (+0.5\sigma)$	χ_{lowl}^2	$24.9 \quad (\nu: 1.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09607^{+0.00082}_{-0.00082} \quad (-0.8\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4511^{+0.0082}_{-0.0078} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.5 \quad (\nu: 16.6)$
σ_8	$0.808^{+0.019}_{-0.017} \quad (-0.5\sigma)$	$H(0.15)$	$72.8^{+1.4}_{-1.4} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
S_8	$0.824^{+0.043}_{-0.042} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+14}_{-14} \quad (-0.3\sigma)$	χ_{CMB}^2	$11935.4 \quad (\nu: 17.4) \quad (+1539.6\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11943.24; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.30; R - 1 = 0.00947$$

17.20 base_r_CamSpecHM_TTTEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02234^{+0.00039}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.026}_{-0.025} \quad (-0.5\sigma)$	$H(0.61)$	$95.37^{+0.52}_{-0.51} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1187^{+0.0027}_{-0.0027} \quad (-0.4\sigma)$	$r_{\text{drag}} h$	$99.96^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$D_M(0.61)$	$2302^{+26}_{-26} \quad (-0.1\sigma)$
$100\theta_{\text{MC}}$	$1.04098^{+0.00075}_{-0.00080} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.420^{+0.065}_{-0.061} \quad (-0.5\sigma)$	$H(2.33)$	$235.7^{+1.7}_{-1.7} \quad (-0.6\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.2\sigma)$	z_{re}	$< 9.31 \quad (-0.2\sigma)$	$D_M(2.33)$	$5761^{+24}_{-24} \quad (+0.3\sigma)$
$\ln(10^{10} A_s)$	$3.040^{+0.040}_{-0.029} \quad (-0.4\sigma)$	$10^9 A_s$	$2.091^{+0.085}_{-0.059} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.017}_{-0.017} \quad (-0.5\sigma)$
n_s	$0.969^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	$1.874^{+0.028}_{-0.030} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.016}_{-0.013} \quad (-0.5\sigma)$
r	$< 0.190 \quad (+0.5\sigma)$	D_{40}	$1241^{+54}_{-41} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0066} \quad (-0.1\sigma)$	D_{220}	$5715^{+99}_{-98} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.014}_{-0.011} \quad (-0.4\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2534^{+34}_{-36} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.013}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.0098} \quad (-0.4\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.6^{+4.3}_{-4.1} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.012}_{-0.011} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$n_{s,0.002}$	$0.969^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.0091} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.92 \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0062}_{-0.0044} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{PS}}$	$0.66^{+0.31}_{-0.34}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0065}_{-0.0046} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\text{CIB}}$	—	$10^5 \text{D}/\text{H}$	$2.592^{+0.073}_{-0.071} \quad (+0.6\sigma)$	$r_{0.002}$	$< 0.188 \quad (+0.5\sigma)$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	Age/Gyr	$13.794^{+0.056}_{-0.055} \quad (+0.3\sigma)$	$r_{0.01}$	$< 0.189 \quad (+0.5\sigma)$
A^{kSZ}	—	z_*	$1089.85^{+0.62}_{-0.60} \quad (+0.3\sigma)$	$\ln(10^{10} A_{\text{t}})$	$-0.1^{+1.8}_{-4.3} \quad (+0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.78^{+0.66}_{-0.65} \quad (+0.7\sigma)$	r_{10}	$< 0.0973 \quad (+0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	$100\theta_*$	$1.04116^{+0.00074}_{-0.00078} \quad (-0.1\sigma)$	$10^9 A_{\text{t}}$	$< 0.395 \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$D_M(z_*)/\text{Gpc}$	$13.905^{+0.063}_{-0.062} \quad (+0.8\sigma)$	$10^9 A_{\text{t}} e^{-2\tau}$	$< 0.356 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\text{dust}}$	$1.03^{+0.43}_{-0.42}$	z_{drag}	$1059.78^{+0.84}_{-0.83} \quad (-0.7\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.46^{+0.69}_{-0.68} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.6^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	k_{D}	$0.14046^{+0.00084}_{-0.00081} \quad (-0.9\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$100\theta_{\text{D}}$	$0.16085^{+0.00050}_{-0.00050} \quad (+0.7\sigma)$	χ_{small}^2	$397.1 (\nu: 1.3) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{eq}	$3372^{+62}_{-61} \quad (-0.6\sigma)$	χ_{lowl}^2	$24.7 (\nu: 1.7) \quad (+0.2\sigma)$
H_0	$67.8^{+1.2}_{-1.2} \quad (+0.2\sigma)$	k_{eq}	$0.01029^{+0.00019}_{-0.00019} \quad (-0.6\sigma)$	χ_{CamSpec}^2	$11513.4 (\nu: 16.1)$
Ω_{Λ}	$0.692^{+0.016}_{-0.016} \quad (+0.3\sigma)$	$100\theta_{\text{eq}}$	$0.819^{+0.012}_{-0.011} \quad (+0.5\sigma)$	$\chi_{6\text{DF}}^2$	$0.039 (\nu: 0.0) \quad (-0.2\sigma)$
Ω_{m}	$0.308^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\text{s,eq}}$	$0.4523^{+0.0060}_{-0.0059} \quad (+0.5\sigma)$	χ_{MGS}^2	$1.45 (\nu: 0.1) \quad (+0.4\sigma)$
$\Omega_{\text{m}} h^2$	$0.1417^{+0.0026}_{-0.0026} \quad (-0.6\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.2\sigma)$	χ_{DR12BAO}^2	$4.4 (\nu: 0.7) \quad (-0.3\sigma)$
$\Omega_{\text{m}} h^3$	$0.09608^{+0.00080}_{-0.00079} \quad (-0.8\sigma)$	$D_M(0.15)$	$640^{+10}_{-10} \quad (-0.2\sigma)$	χ_{prior}^2	$7.8 (\nu: 5.7) \quad (-0.8\sigma)$
σ_8	$0.807^{+0.018}_{-0.016} \quad (-0.5\sigma)$	$H(0.38)$	$83.09^{+0.78}_{-0.76} \quad (+0.1\sigma)$	χ_{BAO}^2	$5.88 (\nu: 0.4) \quad (-0.2\sigma)$
S_8	$0.818^{+0.033}_{-0.033} \quad (-0.5\sigma)$	$D_M(0.38)$	$1527^{+21}_{-21} \quad (-0.2\sigma)$	χ_{CMB}^2	$11935.2 (\nu: 16.7) \quad (+1561.7\sigma)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.448^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$H(0.51)$	$89.78^{+0.63}_{-0.61} \quad (-0.0\sigma)$		
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.601^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$D_M(0.51)$	$1978^{+24}_{-24} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\text{eff}}^2 = 11948.86; \Delta \bar{\chi}_{\text{eff}}^2 = 9149.91; R - 1 = 0.01058$$

17.21 base_r_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02249	$0.02248^{+0.00068}_{-0.00064}$	z_{re}	7.13	$7.1^{+2.1}_{-3.2}$	$D_{\text{M}}(0.38)$	1516.0	1515^{+38}_{-41}
$\Omega_c h^2$	0.1178	$0.1177^{+0.0050}_{-0.0053}$	$10^9 A_s$	2.046	$2.04^{+0.10}_{-0.12}$	$H(0.51)$	90.12	$90.1^{+1.3}_{-1.1}$
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0013}_{-0.0013}$	$10^9 A_s e^{-2\tau}$	1.8530	$1.851^{+0.047}_{-0.047}$	$D_{\text{M}}(0.51)$	1965.4	1965^{+45}_{-48}
τ	0.0495	$0.049^{+0.021}_{-0.027}$	D_{40}	1215	1253^{+130}_{-89}	$H(0.61)$	95.66	$95.7^{+1.1}_{-0.91}$
$\ln(10^{10} A_s)$	3.018	$3.017^{+0.050}_{-0.060}$	D_{220}	5699	5686^{+150}_{-140}	$D_{\text{M}}(0.61)$	2288	2288^{+48}_{-52}
n_s	0.9663	$0.968^{+0.029}_{-0.028}$	D_{810}	2508	2507^{+63}_{-64}	$H(2.33)$	235.26	$235.2^{+3.1}_{-3.2}$
r	0.000	< 0.385	D_{1420}	807.3	808^{+30}_{-29}	$D_{\text{M}}(2.33)$	5747.3	5747^{+42}_{-47}
A_{100}^{dustTE}	0.113	$0.116^{+0.099}_{-0.097}$	D_{2000}	227.7	228^{+11}_{-11}	$f\sigma_8(0.15)$	0.4409	$0.440^{+0.031}_{-0.032}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.138^{+0.075}_{-0.075}$	$n_{\text{s},0.002}$	0.9663	$0.968^{+0.029}_{-0.028}$	$\sigma_8(0.15)$	0.7344	$0.734^{+0.024}_{-0.026}$
$A_{100 \times 217}^{\text{dustTE}}$	0.478	$0.48^{+0.22}_{-0.22}$	Y_{P}	0.245441	$0.24543^{+0.00029}_{-0.00028}$	$f\sigma_8(0.38)$	0.4611	$0.461^{+0.026}_{-0.027}$
A_{143}^{dustTE}	0.221	$0.22^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	0.246768	$0.24676^{+0.00029}_{-0.00028}$	$\sigma_8(0.38)$	0.6521	$0.652^{+0.020}_{-0.022}$
$A_{143 \times 217}^{\text{dustTE}}$	0.659	$0.66^{+0.20}_{-0.20}$	10^5D/H	2.563	$2.57^{+0.12}_{-0.12}$	$f\sigma_8(0.51)$	0.4609	$0.460^{+0.022}_{-0.024}$
A_{217}^{dustTE}	2.04	$2.03^{+0.71}_{-0.70}$	Age/Gyr	13.762	$13.762^{+0.095}_{-0.10}$	$\sigma_8(0.51)$	0.6107	$0.610^{+0.019}_{-0.021}$
c_{100}	1.00017	$1.0002^{+0.0018}_{-0.0018}$	z_*	1089.57	$1089.6^{+1.1}_{-1.1}$	$f\sigma_8(0.61)$	0.4569	$0.456^{+0.020}_{-0.022}$
c_{217}	0.99799	$0.9980^{+0.0017}_{-0.0017}$	r_*	144.91	$145.0^{+1.3}_{-1.2}$	$\sigma_8(0.61)$	0.5814	$0.581^{+0.018}_{-0.019}$
y_{cal}	1.0001	$1.0000^{+0.0065}_{-0.0064}$	$100\theta_*$	1.04155	$1.0416^{+0.0013}_{-0.0013}$	$f\sigma_8(2.33)$	0.2935	$0.2934^{+0.0086}_{-0.0098}$
H_0	68.39	$68.4^{+2.5}_{-2.2}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.913	$13.92^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	0.3031	$0.3030^{+0.0091}_{-0.010}$
Ω_{Λ}	0.6987	$0.699^{+0.030}_{-0.031}$	z_{drag}	1060.05	$1060.0^{+1.4}_{-1.4}$	$r_{0.002}$	0.000	< 0.413
Ω_{m}	0.3013	$0.301^{+0.031}_{-0.030}$	r_{drag}	147.55	$147.6^{+1.3}_{-1.2}$	$r_{0.01}$	0.000	< 0.397
$\Omega_{\text{m}} h^2$	0.14092	$0.1408^{+0.0048}_{-0.0050}$	k_{D}	0.14048	$0.1404^{+0.0014}_{-0.0015}$	$\ln(10^{10} A_{\text{t}})$	-11.51	$0.5^{+1.9}_{-3.7}$
$\Omega_{\text{m}} h^3$	0.09638	$0.0963^{+0.0013}_{-0.0013}$	$100\theta_{\text{D}}$	0.16073	$0.16076^{+0.00082}_{-0.00079}$	r_{10}	0.000	< 0.219
σ_8	0.7937	$0.793^{+0.028}_{-0.030}$	z_{eq}	3352	3349^{+110}_{-120}	$10^9 A_{\text{t}}$	0.000	< 0.784
S_8	0.795	$0.794^{+0.061}_{-0.061}$	k_{eq}	0.010231	$0.01022^{+0.00035}_{-0.00037}$	$10^9 A_{\text{t}} e^{-2\tau}$	0.000	< 0.711
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4356	$0.435^{+0.033}_{-0.033}$	$100\theta_{\text{eq}}$	0.8230	$0.824^{+0.024}_{-0.021}$	χ_{simall}^2	395.70	$397.4 (\nu: 1.4)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5880	$0.587^{+0.031}_{-0.032}$	$100\theta_{\text{s,eq}}$	0.4544	$0.455^{+0.012}_{-0.011}$	χ_{plikTE}^2	852.9	$860.3 (\nu: 7.1)$
$\sigma_8/h^{0.5}$	0.9597	$0.959^{+0.044}_{-0.046}$	$H(0.15)$	73.57	$73.6^{+2.1}_{-1.9}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.9)$
$r_{\text{drag}} h$	100.91	$101.0^{+4.3}_{-3.9}$	$D_{\text{M}}(0.15)$	634.6	634^{+19}_{-20}	χ_{CMB}^2	1248.6	$1257.8 (\nu: 8.9)$
$\langle d^2 \rangle^{1/2}$	2.388	$2.38^{+0.11}_{-0.11}$	$H(0.38)$	83.50	$83.5^{+1.6}_{-1.4}$			

Best-fit $\chi_{\text{eff}}^2 = 1249.01$; $\bar{\chi}_{\text{eff}}^2 = 1265.18$; $R - 1 = 0.00716$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.70 plik_rd12_HM_v22_TE: 852.88

17.22 base_r_plikHM_TE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02245	$0.02244^{+0.00059}_{-0.00058}$	$10^9 A_s$	2.046	$2.04^{+0.10}_{-0.12}$	$D_M(0.51)$	1969.5	1969^{+29}_{-28}
$\Omega_c h^2$	0.11823	$0.1181^{+0.0032}_{-0.0031}$	$10^9 A_s e^{-2\tau}$	1.8552	$1.853^{+0.043}_{-0.042}$	$H(0.61)$	95.58	$95.59^{+0.68}_{-0.66}$
$100\theta_{MC}$	1.04134	$1.0413^{+0.0012}_{-0.0012}$	D_{40}	1218	1255^{+120}_{-82}	$D_M(0.61)$	2292.7	2292^{+31}_{-31}
τ	0.0489	$0.049^{+0.021}_{-0.027}$	D_{220}	5698	5685^{+150}_{-140}	$H(2.33)$	235.51	$235.4^{+2.1}_{-2.1}$
$\ln(10^{10} A_s)$	3.018	$3.017^{+0.049}_{-0.060}$	D_{810}	2508	2507^{+64}_{-62}	$D_M(2.33)$	5750.7	5750^{+34}_{-34}
n_s	0.9651	$0.967^{+0.025}_{-0.026}$	D_{1420}	806.9	807^{+30}_{-28}	$f\sigma_8(0.15)$	0.4433	$0.443^{+0.021}_{-0.021}$
r	0.001	< 0.382	D_{2000}	227.5	228^{+11}_{-10}	$\sigma_8(0.15)$	0.7353	$0.735^{+0.023}_{-0.025}$
y_{cal}	1.0001	$0.99998^{+0.0065}_{-0.0063}$	$n_{s,0.002}$	0.9651	$0.967^{+0.025}_{-0.026}$	$f\sigma_8(0.38)$	0.4630	$0.463^{+0.019}_{-0.020}$
A_{100}^{dustTE}	0.113	$0.116^{+0.098}_{-0.097}$	Y_P	0.245425	$0.24542^{+0.00024}_{-0.00025}$	$\sigma_8(0.38)$	0.6526	$0.652^{+0.020}_{-0.022}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.138^{+0.076}_{-0.074}$	Y_P^{BBN}	0.246752	$0.24675^{+0.00025}_{-0.00025}$	$f\sigma_8(0.51)$	0.4625	$0.462^{+0.017}_{-0.018}$
$A_{100 \times 217}^{dustTE}$	0.476	$0.48^{+0.21}_{-0.22}$	$10^5 D/H$	2.571	$2.57^{+0.11}_{-0.11}$	$\sigma_8(0.51)$	0.6110	$0.611^{+0.018}_{-0.020}$
A_{143}^{dustTE}	0.220	$0.22^{+0.14}_{-0.14}$	Age/Gyr	13.769	$13.769^{+0.077}_{-0.078}$	$f\sigma_8(0.61)$	0.4582	$0.458^{+0.016}_{-0.018}$
$A_{143 \times 217}^{dustTE}$	0.658	$0.66^{+0.21}_{-0.21}$	z_*	1089.67	$1089.67^{+0.82}_{-0.83}$	$\sigma_8(0.61)$	0.5816	$0.582^{+0.017}_{-0.019}$
A_{217}^{dustTE}	2.06	$2.04^{+0.73}_{-0.71}$	r_*	144.83	$144.86^{+0.88}_{-0.87}$	$f\sigma_8(2.33)$	0.2936	$0.2935^{+0.0087}_{-0.0097}$
c_{100}	1.00016	$1.0002^{+0.0019}_{-0.0018}$	$100\theta_*$	1.04152	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3030	$0.3030^{+0.0092}_{-0.010}$
c_{217}	0.99801	$0.9980^{+0.0016}_{-0.0017}$	$D_M(z_*)/\text{Gpc}$	13.906	$13.908^{+0.087}_{-0.085}$	$r_{0.002}$	0.001	< 0.403
H_0	68.19	$68.2^{+1.4}_{-1.4}$	z_{drag}	1059.97	$1060.0^{+1.3}_{-1.3}$	$r_{0.01}$	0.001	< 0.391
Ω_Λ	0.6960	$0.696^{+0.018}_{-0.019}$	r_{drag}	147.48	$147.50^{+0.99}_{-0.95}$	$\ln(10^{10} A_t)$	-3.90	$0.5^{+1.9}_{-3.7}$
Ω_m	0.3040	$0.304^{+0.019}_{-0.018}$	k_D	0.14052	$0.1405^{+0.0013}_{-0.0014}$	r_{10}	0.000	< 0.214
$\Omega_m h^2$	0.14132	$0.1412^{+0.0032}_{-0.0031}$	$100\theta_D$	0.16077	$0.16079^{+0.00081}_{-0.00077}$	$10^9 A_t$	0.002	< 0.772
$\Omega_m h^3$	0.09636	$0.0963^{+0.0013}_{-0.0014}$	z_{eq}	3362	3360^{+76}_{-73}	$10^9 A_t e^{-2\tau}$	0.002	< 0.705
σ_8	0.7949	$0.795^{+0.025}_{-0.028}$	k_{eq}	0.010260	$0.01025^{+0.00023}_{-0.00022}$	χ_{small}^2	395.69	$397.4 (\nu: 1.4)$
S_8	0.8001	$0.799^{+0.041}_{-0.041}$	$100\theta_{eq}$	0.8212	$0.822^{+0.014}_{-0.014}$	χ_{plikTE}^2	853.0	$859.7 (\nu: 6.4)$
$\sigma_8 \Omega_m^{0.5}$	0.4382	$0.438^{+0.022}_{-0.022}$	$100\theta_{s,eq}$	0.4534	$0.4537^{+0.0071}_{-0.0072}$	χ_{6DF}^2	0.000	$0.037 (\nu: 0.0)$
$\sigma_8 \Omega_m^{0.25}$	0.5902	$0.590^{+0.023}_{-0.024}$	$H(0.15)$	73.39	$73.4^{+1.2}_{-1.2}$	χ_{MGS}^2	1.75	$1.85 (\nu: 0.2)$
$\sigma_8/h^{0.5}$	0.9626	$0.962^{+0.034}_{-0.037}$	$D_M(0.15)$	636.3	636^{+12}_{-12}	$\chi_{DR12BAO}^2$	3.43	$3.97 (\nu: 0.4)$
$r_{drag} h$	100.56	$100.6^{+2.4}_{-2.4}$	$H(0.38)$	83.38	$83.39^{+0.94}_{-0.92}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.6)$
$\langle d^2 \rangle^{1/2}$	2.395	$2.389^{+0.083}_{-0.086}$	$D_M(0.38)$	1519.4	1519^{+24}_{-24}	χ_{BAO}^2	5.18	$5.86 (\nu: 0.5)$
z_{re}	7.08	$7.1^{+2.1}_{-3.2}$	$H(0.51)$	90.02	$90.03^{+0.79}_{-0.77}$	χ_{CMB}^2	1248.6	$1257.2 (\nu: 8.1)$

Best-fit $\chi_{eff}^2 = 1254.24$; $\bar{\chi}_{eff}^2 = 1270.41$; $R - 1 = 0.01140$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.44 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.69 plik_rd12_HM_v22_TE: 852.95

17.23 base_r_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02249^{+0.00067}_{-0.00064}$	z_{re}	< 9.01	$D_{\mathrm{M}}(0.38)$	1515^{+39}_{-41}
$\Omega_{\mathrm{c}}h^2$	$0.1176^{+0.0051}_{-0.0053}$	$10^9 A_{\mathrm{s}}$	$2.057^{+0.093}_{-0.071}$	$H(0.51)$	$90.2^{+1.3}_{-1.1}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0013}_{-0.0013}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.851^{+0.047}_{-0.047}$	$D_{\mathrm{M}}(0.51)$	1964^{+45}_{-48}
τ	$0.053^{+0.017}_{-0.010}$	D_{40}	1252^{+130}_{-89}	$H(0.61)$	$95.7^{+1.1}_{-0.92}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.024^{+0.044}_{-0.035}$	D_{220}	5686^{+150}_{-140}	$D_{\mathrm{M}}(0.61)$	2287^{+49}_{-53}
n_{s}	$0.969^{+0.028}_{-0.028}$	D_{810}	2508^{+63}_{-65}	$H(2.33)$	$235.2^{+3.1}_{-3.2}$
r	< 0.382	D_{1420}	808^{+29}_{-29}	$D_{\mathrm{M}}(2.33)$	5746^{+43}_{-47}
$A_{100}^{\mathrm{dustTE}}$	$0.116^{+0.099}_{-0.098}$	D_{2000}	228^{+11}_{-11}	$f\sigma_8(0.15)$	$0.442^{+0.031}_{-0.031}$
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.138^{+0.075}_{-0.074}$	$n_{\mathrm{s},0.002}$	$0.969^{+0.028}_{-0.028}$	$\sigma_8(0.15)$	$0.737^{+0.022}_{-0.021}$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	Y_{P}	$0.24544^{+0.00029}_{-0.00027}$	$f\sigma_8(0.38)$	$0.462^{+0.025}_{-0.026}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24677^{+0.00029}_{-0.00027}$	$\sigma_8(0.38)$	$0.654^{+0.019}_{-0.017}$
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.20}$	$10^5\mathrm{D}/\mathrm{H}$	$2.56^{+0.12}_{-0.12}$	$f\sigma_8(0.51)$	$0.462^{+0.022}_{-0.023}$
$A_{217}^{\mathrm{dustTE}}$	$2.03^{+0.71}_{-0.70}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.760^{+0.097}_{-0.10}$	$\sigma_8(0.51)$	$0.613^{+0.017}_{-0.015}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	z_{*}	$1089.6^{+1.1}_{-1.1}$	$f\sigma_8(0.61)$	$0.458^{+0.019}_{-0.020}$
c_{217}	$0.9980^{+0.0017}_{-0.0017}$	r_{*}	$145.0^{+1.3}_{-1.2}$	$\sigma_8(0.61)$	$0.583^{+0.016}_{-0.014}$
y_{cal}	$1.0000^{+0.0065}_{-0.0064}$	$100\theta_{*}$	$1.0416^{+0.0013}_{-0.0013}$	$f\sigma_8(2.33)$	$0.2945^{+0.0079}_{-0.0067}$
H_0	$68.5^{+2.5}_{-2.3}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.92^{+0.12}_{-0.11}$	$\sigma_8(2.33)$	$0.3042^{+0.0083}_{-0.0067}$
Ω_{Λ}	$0.700^{+0.030}_{-0.031}$	z_{drag}	$1060.0^{+1.4}_{-1.4}$	$r_{0.002}$	< 0.411
Ω_{m}	$0.300^{+0.031}_{-0.030}$	r_{drag}	$147.6^{+1.3}_{-1.2}$	$r_{0.01}$	< 0.395
$\Omega_{\mathrm{m}}h^2$	$0.1408^{+0.0049}_{-0.0050}$	k_{D}	$0.1404^{+0.0014}_{-0.0015}$	$\ln(10^{10}A_{\mathrm{t}})$	$0.5^{+1.9}_{-3.8}$
$\Omega_{\mathrm{m}}h^3$	$0.0964^{+0.0013}_{-0.0014}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00081}_{-0.00078}$	r_{10}	< 0.217
σ_8	$0.796^{+0.026}_{-0.025}$	z_{eq}	3348^{+120}_{-120}	$10^9 A_{\mathrm{t}}$	< 0.782
S_8	$0.796^{+0.060}_{-0.060}$	k_{eq}	$0.01022^{+0.00035}_{-0.00036}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.706
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.436^{+0.033}_{-0.033}$	$100\theta_{\mathrm{eq}}$	$0.824^{+0.024}_{-0.022}$	χ_{simall}^2	$397.0 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.589^{+0.030}_{-0.031}$	$100\theta_{\mathrm{s,eq}}$	$0.455^{+0.012}_{-0.011}$	χ_{plikTE}^2	$860.4 (\nu: 7.1)$
$\sigma_8/h^{0.5}$	$0.962^{+0.042}_{-0.043}$	$H(0.15)$	$73.6^{+2.1}_{-2.0}$	χ_{prior}^2	$7.4 (\nu: 6.9)$
$r_{\mathrm{drag}}h$	$101.1^{+4.3}_{-4.0}$	$D_{\mathrm{M}}(0.15)$	634^{+19}_{-20}	χ_{CMB}^2	$1257.4 (\nu: 8.5)$
$\langle d^2 \rangle^{1/2}$	$2.39^{+0.11}_{-0.11}$	$H(0.38)$	$83.6^{+1.6}_{-1.4}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1264.77$; $R - 1 = 0.00680$

17.24 base_r_plikHM_TE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02246^{+0.00057}_{-0.00058}$	$10^9 A_{\mathrm{s}}$	$2.058^{+0.093}_{-0.069}$	$D_{\mathrm{M}}(0.51)$	1968^{+29}_{-28}
$\Omega_{\mathrm{c}} h^2$	$0.1181^{+0.0032}_{-0.0031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.853^{+0.043}_{-0.042}$	$H(0.61)$	$95.61^{+0.68}_{-0.67}$
$100\theta_{\mathrm{MC}}$	$1.0414^{+0.0012}_{-0.0012}$	D_{40}	1255^{+120}_{-82}	$D_{\mathrm{M}}(0.61)$	2292^{+31}_{-31}
τ	$0.052^{+0.017}_{-0.010}$	D_{220}	5684^{+150}_{-140}	$H(2.33)$	$235.4^{+2.1}_{-2.0}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.024^{+0.044}_{-0.034}$	D_{810}	2508^{+64}_{-63}	$D_{\mathrm{M}}(2.33)$	5750^{+33}_{-33}
n_{s}	$0.967^{+0.025}_{-0.026}$	D_{1420}	808^{+30}_{-29}	$f\sigma_8(0.15)$	$0.444^{+0.021}_{-0.020}$
r	< 0.376	D_{2000}	228^{+11}_{-11}	$\sigma_8(0.15)$	$0.738^{+0.021}_{-0.018}$
y_{cal}	$0.99998^{+0.0065}_{-0.0063}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.025}_{-0.026}$	$f\sigma_8(0.38)$	$0.464^{+0.018}_{-0.017}$
$A_{100}^{\mathrm{dustTE}}$	$0.116^{+0.097}_{-0.097}$	Y_{P}	$0.24543^{+0.00024}_{-0.00025}$	$\sigma_8(0.38)$	$0.655^{+0.018}_{-0.015}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.138^{+0.076}_{-0.074}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24675^{+0.00024}_{-0.00025}$	$f\sigma_8(0.51)$	$0.464^{+0.016}_{-0.016}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.57^{+0.11}_{-0.10}$	$\sigma_8(0.51)$	$0.613^{+0.017}_{-0.014}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.768^{+0.075}_{-0.077}$	$f\sigma_8(0.61)$	$0.460^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{*}	$1089.65^{+0.83}_{-0.82}$	$\sigma_8(0.61)$	$0.584^{+0.016}_{-0.013}$
$A_{217}^{\mathrm{dustTE}}$	$2.04^{+0.73}_{-0.72}$	r_{*}	$144.85^{+0.88}_{-0.87}$	$f\sigma_8(2.33)$	$0.2947^{+0.0079}_{-0.0065}$
c_{100}	$1.0002^{+0.0019}_{-0.0018}$	$100\theta_{*}$	$1.0415^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.3042^{+0.0082}_{-0.0066}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.908^{+0.087}_{-0.085}$	$r_{0.002}$	< 0.403
H_0	$68.2^{+1.4}_{-1.4}$	z_{drag}	$1060.0^{+1.3}_{-1.3}$	$r_{0.01}$	< 0.388
Ω_{Λ}	$0.697^{+0.018}_{-0.019}$	r_{drag}	$147.50^{+0.99}_{-0.96}$	$\ln(10^{10} A_{\mathrm{t}})$	$0.5^{+1.9}_{-3.7}$
Ω_{m}	$0.303^{+0.019}_{-0.018}$	k_{D}	$0.1405^{+0.0013}_{-0.0014}$	r_{10}	< 0.213
$\Omega_{\mathrm{m}} h^2$	$0.1412^{+0.0032}_{-0.0031}$	$100\theta_{\mathrm{D}}$	$0.16077^{+0.00078}_{-0.00076}$	$10^9 A_{\mathrm{t}}$	< 0.772
$\Omega_{\mathrm{m}} h^3$	$0.0964^{+0.0013}_{-0.0014}$	z_{eq}	3359^{+76}_{-73}	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 0.694
σ_8	$0.798^{+0.023}_{-0.020}$	k_{eq}	$0.01025^{+0.00023}_{-0.00022}$	χ_{simall}^2	$397.0 (\nu: 0.8)$
S_8	$0.802^{+0.040}_{-0.038}$	$100\theta_{\mathrm{eq}}$	$0.822^{+0.014}_{-0.014}$	χ_{plikTE}^2	$859.8 (\nu: 6.2)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.439^{+0.022}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.4537^{+0.0071}_{-0.0071}$	$\chi_{6\mathrm{DF}}^2$	$0.037 (\nu: 0.0)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.592^{+0.022}_{-0.021}$	$H(0.15)$	$73.4^{+1.2}_{-1.2}$	χ_{MGS}^2	$1.87 (\nu: 0.2)$
$\sigma_8/h^{0.5}$	$0.966^{+0.032}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	636^{+12}_{-12}	$\chi_{\mathrm{DR12BAO}}^2$	$3.96 (\nu: 0.4)$
$r_{\mathrm{drag}} h$	$100.6^{+2.4}_{-2.4}$	$H(0.38)$	$83.41^{+0.93}_{-0.92}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\langle d^2 \rangle^{1/2}$	$2.396^{+0.078}_{-0.076}$	$D_{\mathrm{M}}(0.38)$	1519^{+24}_{-24}	χ_{BAO}^2	$5.87 (\nu: 0.5)$
z_{re}	< 9.04	$H(0.51)$	$90.05^{+0.78}_{-0.76}$	χ_{CMB}^2	$1256.8 (\nu: 7.6)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1269.96$; $R - 1 = 0.01240$

17.25 base_r_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02387	$0.0239^{+0.0034}_{-0.0030}$	D_{810}	2586	2583^{+95}_{-100}	$D_M(0.51)$	1924	1920^{+150}_{-140}
$\Omega_c h^2$	0.1144	$0.114^{+0.013}_{-0.012}$	D_{1420}	845.3	846^{+47}_{-49}	$H(0.61)$	96.75	$96.9^{+4.3}_{-3.4}$
$100\theta_{MC}$	1.04018	$1.0402^{+0.0023}_{-0.0022}$	D_{2000}	241.8	242^{+18}_{-19}	$D_M(0.61)$	2243	2238^{+160}_{-160}
τ	0.0537	$0.053^{+0.024}_{-0.027}$	$n_{s,0.002}$	0.9879	$0.993^{+0.048}_{-0.040}$	$H(2.33)$	234.3	$233.9^{+6.1}_{-5.4}$
$\ln(10^{10} A_s)$	3.048	$3.043^{+0.061}_{-0.065}$	Y_P	0.24600	$0.2460^{+0.0013}_{-0.0013}$	$D_M(2.33)$	5695	5691^{+170}_{-190}
n_s	0.9879	$0.993^{+0.048}_{-0.040}$	Y_P^{BBN}	0.24733	$0.2473^{+0.0013}_{-0.0013}$	$f\sigma_8(0.15)$	0.427	$0.423^{+0.079}_{-0.074}$
r	0.187	< 0.721	$10^5 D/H$	2.33	$2.34^{+0.55}_{-0.47}$	$\sigma_8(0.15)$	0.7355	$0.732^{+0.036}_{-0.043}$
y_{cal}	1.0002	$1.0001^{+0.0067}_{-0.0062}$	Age/Gyr	13.644	$13.64^{+0.38}_{-0.42}$	$f\sigma_8(0.38)$	0.451	$0.448^{+0.061}_{-0.063}$
H_0	70.4	$70.7^{+7.6}_{-7.1}$	z_*	1087.68	$1087.7^{+4.6}_{-4.1}$	$\sigma_8(0.38)$	0.6554	$0.653^{+0.026}_{-0.032}$
Ω_Λ	0.719	$0.721^{+0.067}_{-0.088}$	r_*	144.74	$144.9^{+2.1}_{-1.9}$	$f\sigma_8(0.51)$	0.454	$0.450^{+0.051}_{-0.056}$
Ω_m	0.281	$0.279^{+0.088}_{-0.067}$	$100\theta_*$	1.04020	$1.0402^{+0.0022}_{-0.0022}$	$\sigma_8(0.51)$	0.6148	$0.613^{+0.022}_{-0.027}$
$\Omega_m h^2$	0.1389	$0.138^{+0.010}_{-0.0097}$	$D_M(z_*)/\text{Gpc}$	13.915	$13.93^{+0.20}_{-0.18}$	$f\sigma_8(0.61)$	0.4512	$0.448^{+0.044}_{-0.050}$
$\Omega_m h^3$	0.09774	$0.0977^{+0.0049}_{-0.0044}$	z_{drag}	1062.9	$1062.9^{+6.6}_{-6.3}$	$\sigma_8(0.61)$	0.5860	$0.584^{+0.020}_{-0.024}$
σ_8	0.793	$0.789^{+0.047}_{-0.053}$	r_{drag}	146.93	$147.1^{+2.3}_{-2.1}$	$f\sigma_8(2.33)$	0.2967	$0.2958^{+0.0093}_{-0.010}$
S_8	0.767	$0.76^{+0.16}_{-0.14}$	k_D	0.14207	$0.1418^{+0.0034}_{-0.0037}$	$\sigma_8(2.33)$	0.3074	$0.3068^{+0.0098}_{-0.0098}$
$\sigma_8 \Omega_m^{0.5}$	0.420	$0.416^{+0.086}_{-0.077}$	$100\theta_D$	0.15892	$0.1590^{+0.0037}_{-0.0030}$	$r_{0.002}$	0.19	< 1.04
$\sigma_8 \Omega_m^{0.25}$	0.577	$0.573^{+0.074}_{-0.073}$	z_{eq}	3304	3289^{+250}_{-230}	$r_{0.01}$	0.191	< 0.855
$\sigma_8/h^{0.5}$	0.945	$0.94^{+0.10}_{-0.10}$	k_{eq}	0.01008	$0.01004^{+0.00075}_{-0.00071}$	$\ln(10^{10} A_t)$	1.37	$1.4^{+1.5}_{-3.5}$
$r_{drag} h$	103.4	104^{+11}_{-11}	$100\theta_{eq}$	0.835	$0.838^{+0.055}_{-0.052}$	r_{10}	0.100	< 0.574
$\langle d^2 \rangle^{1/2}$	2.341	$2.32^{+0.21}_{-0.21}$	$100\theta_{s,eq}$	0.4595	$0.461^{+0.026}_{-0.025}$	$10^9 A_t$	0.39	< 1.49
z_{re}	7.22	$7.1^{+2.2}_{-2.8}$	$H(0.15)$	75.3	$75.6^{+6.8}_{-6.2}$	$10^9 A_t e^{-2\tau}$	0.35	< 1.34
$10^9 A_s$	2.106	$2.10^{+0.13}_{-0.13}$	$D_M(0.15)$	618	616^{+61}_{-56}	χ_{simall}^2	396.5	$398.4 (\nu: 2.2)$
$10^9 A_s e^{-2\tau}$	1.892	$1.886^{+0.067}_{-0.070}$	$H(0.38)$	84.9	$85.2^{+5.6}_{-4.8}$	χ_{plikEE}^2	737.6	$742.5 (\nu: 5.1)$
D_{40}	1275	1297^{+200}_{-100}	$D_M(0.38)$	1482	1478^{+120}_{-120}	χ_{prior}^2	0.00	$0.99 (\nu: 1.0)$
D_{220}	5905	5880^{+520}_{-520}	$H(0.51)$	91.36	$91.6^{+4.9}_{-4.0}$	χ_{CMB}^2	1134.1	$1140.9 (\nu: 6.9)$

Best-fit $\chi_{eff}^2 = 1134.13$; $\bar{\chi}_{eff}^2 = 1141.89$; $R - 1 = 0.00830$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.53 plik_rd12_HM_v22_EE: 737.59

17.26 base_r_plikHM_EE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02330	$0.0230^{+0.0019}_{-0.0020}$	D_{2000}	238.3	238^{+14}_{-14}	$D_M(2.33)$	5731	5741^{+82}_{-81}
$\Omega_c h^2$	0.11753	$0.1174^{+0.0038}_{-0.0038}$	$n_{s,0.002}$	0.9767	$0.983^{+0.032}_{-0.027}$	$f\sigma_8(0.15)$	0.4457	$0.445^{+0.025}_{-0.026}$
$100\theta_{MC}$	1.03986	$1.0399^{+0.0020}_{-0.0019}$	Y_P	0.24579	$0.24567^{+0.00073}_{-0.00083}$	$\sigma_8(0.15)$	0.7436	$0.743^{+0.023}_{-0.024}$
τ	0.0532	$0.051^{+0.022}_{-0.026}$	Y_P^{BBN}	0.24712	$0.24699^{+0.00073}_{-0.00084}$	$f\sigma_8(0.38)$	0.4663	$0.466^{+0.022}_{-0.022}$
$\ln(10^{10} A_s)$	3.049	$3.040^{+0.052}_{-0.060}$	$10^5 D/H$	2.422	$2.47^{+0.37}_{-0.30}$	$\sigma_8(0.38)$	0.6603	$0.659^{+0.019}_{-0.020}$
n_s	0.9767	$0.983^{+0.032}_{-0.027}$	Age/Gyr	13.725	$13.75^{+0.19}_{-0.19}$	$f\sigma_8(0.51)$	0.4663	$0.466^{+0.020}_{-0.020}$
r	0.065	< 0.675	z_*	1088.59	$1088.9^{+2.5}_{-2.1}$	$\sigma_8(0.51)$	0.6185	$0.618^{+0.018}_{-0.018}$
y_{cal}	1.0002	$1.0001^{+0.0064}_{-0.0060}$	r_*	144.36	$144.6^{+1.6}_{-1.5}$	$f\sigma_8(0.61)$	0.4623	$0.462^{+0.018}_{-0.018}$
H_0	68.65	$68.5^{+2.2}_{-2.1}$	$100\theta_*$	1.03995	$1.0400^{+0.0020}_{-0.0019}$	$\sigma_8(0.61)$	0.5888	$0.588^{+0.017}_{-0.017}$
Ω_Λ	0.6998	$0.699^{+0.023}_{-0.024}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.90^{+0.15}_{-0.15}$	$f\sigma_8(2.33)$	0.2973	$0.2969^{+0.0084}_{-0.0087}$
Ω_m	0.3002	$0.301^{+0.024}_{-0.023}$	z_{drag}	1061.88	$1061.3^{+4.1}_{-4.6}$	$\sigma_8(2.33)$	0.3071	$0.3066^{+0.0088}_{-0.0092}$
$\Omega_m h^2$	0.14147	$0.1411^{+0.0039}_{-0.0038}$	r_{drag}	146.72	$147.0^{+2.1}_{-2.0}$	$r_{0.002}$	0.062	< 0.893
$\Omega_m h^3$	0.09711	$0.0967^{+0.0035}_{-0.0034}$	k_D	0.14194	$0.1414^{+0.0032}_{-0.0036}$	$r_{0.01}$	0.064	< 0.770
σ_8	0.8034	$0.802^{+0.026}_{-0.026}$	$100\theta_D$	0.15945	$0.1598^{+0.0028}_{-0.0022}$	$\ln(10^{10} A_t)$	0.32	$1.3^{+1.6}_{-3.3}$
S_8	0.8038	$0.803^{+0.049}_{-0.049}$	z_{eq}	3365	3355^{+93}_{-91}	r_{10}	0.032	< 0.501
$\sigma_8 \Omega_m^{0.5}$	0.4402	$0.440^{+0.027}_{-0.027}$	k_{eq}	0.010271	$0.01024^{+0.00028}_{-0.00028}$	$10^9 A_t$	0.14	< 1.38
$\sigma_8 \Omega_m^{0.25}$	0.5947	$0.594^{+0.027}_{-0.027}$	$100\theta_{eq}$	0.8217	$0.823^{+0.016}_{-0.016}$	$10^9 A_t e^{-2\tau}$	0.12	< 1.25
$\sigma_8/h^{0.5}$	0.9697	$0.969^{+0.040}_{-0.040}$	$100\theta_{s,eq}$	0.4530	$0.4539^{+0.0084}_{-0.0084}$	χ_{simall}^2	396.0	$398.3 (\nu: 2.2)$
$r_{drag} h$	100.71	$100.8^{+3.0}_{-2.9}$	$H(0.15)$	73.82	$73.7^{+2.0}_{-1.9}$	χ_{plikEE}^2	738.6	$742.1 (\nu: 4.1)$
$\langle d^2 \rangle^{1/2}$	2.400	$2.38^{+0.10}_{-0.11}$	$D_M(0.15)$	632.3	633^{+19}_{-19}	χ_{6DF}^2	0.002	$0.057 (\nu: 0.0)$
z_{re}	7.33	$7.2^{+2.3}_{-2.9}$	$H(0.38)$	83.77	$83.6^{+1.8}_{-1.6}$	χ_{MGS}^2	1.82	$1.94 (\nu: 0.3)$
$10^9 A_s$	2.110	$2.09^{+0.11}_{-0.12}$	$D_M(0.38)$	1510.8	1513^{+39}_{-40}	$\chi_{DR12BAO}^2$	3.61	$4.4 (\nu: 0.7)$
$10^9 A_s e^{-2\tau}$	1.897	$1.888^{+0.067}_{-0.067}$	$H(0.51)$	90.39	$90.2^{+1.6}_{-1.5}$	χ_{prior}^2	0.00	$0.98 (\nu: 0.9)$
D_{40}	1247	1295^{+200}_{-100}	$D_M(0.51)$	1958.9	1962^{+47}_{-48}	χ_{BAO}^2	5.43	$6.4 (\nu: 0.9)$
D_{220}	5855	5773^{+380}_{-400}	$H(0.61)$	95.94	$95.8^{+1.5}_{-1.4}$	χ_{CMB}^2	1134.5	$1140.4 (\nu: 6.1)$
D_{810}	2575	2567^{+90}_{-94}	$D_M(0.61)$	2281	2285^{+52}_{-53}			
D_{1420}	836.4	836^{+37}_{-36}	$H(2.33)$	235.76	$235.4^{+2.7}_{-2.8}$			

Best-fit $\chi_{eff}^2 = 1139.97$; $\bar{\chi}_{eff}^2 = 1147.71$; $R - 1 = 0.01154$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.61 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.97 plik_rd12_HM_v22_EE: 738.57

17.27 base_r_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.0239^{+0.0034}_{-0.0030}$	D_{810}	2582^{+95}_{-100}	$D_{\mathrm{M}}(0.51)$	1921^{+150}_{-140}
$\Omega_{\mathrm{c}} h^2$	$0.114^{+0.013}_{-0.012}$	D_{1420}	846^{+47}_{-49}	$H(0.61)$	$96.9^{+4.3}_{-3.4}$
$100\theta_{\mathrm{MC}}$	$1.0402^{+0.0023}_{-0.0022}$	D_{2000}	242^{+18}_{-19}	$D_{\mathrm{M}}(0.61)$	2239^{+160}_{-160}
τ	$0.056^{+0.020}_{-0.014}$	$n_{\mathrm{s},0.002}$	$0.993^{+0.048}_{-0.040}$	$H(2.33)$	$233.9^{+6.2}_{-5.4}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.049^{+0.057}_{-0.049}$	Y_{P}	$0.2460^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(2.33)$	5692^{+170}_{-190}
n_{s}	$0.993^{+0.048}_{-0.040}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2473^{+0.0013}_{-0.0013}$	$f\sigma_8(0.15)$	$0.425^{+0.080}_{-0.074}$
r	< 0.718	$10^5 \mathrm{D}/\mathrm{H}$	$2.34^{+0.55}_{-0.47}$	$\sigma_8(0.15)$	$0.735^{+0.035}_{-0.040}$
y_{cal}	$1.0001^{+0.0067}_{-0.0063}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.64^{+0.38}_{-0.41}$	$f\sigma_8(0.38)$	$0.449^{+0.061}_{-0.062}$
H_0	$70.6^{+7.6}_{-7.1}$	z_*	$1087.7^{+4.7}_{-4.1}$	$\sigma_8(0.38)$	$0.655^{+0.025}_{-0.028}$
Ω_{Λ}	$0.721^{+0.068}_{-0.090}$	r_*	$144.9^{+2.1}_{-2.0}$	$f\sigma_8(0.51)$	$0.452^{+0.051}_{-0.055}$
Ω_{m}	$0.279^{+0.090}_{-0.068}$	$100\theta_*$	$1.0402^{+0.0022}_{-0.0021}$	$\sigma_8(0.51)$	$0.615^{+0.021}_{-0.023}$
$\Omega_{\mathrm{m}} h^2$	$0.138^{+0.011}_{-0.0098}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.93^{+0.20}_{-0.18}$	$f\sigma_8(0.61)$	$0.450^{+0.044}_{-0.049}$
$\Omega_{\mathrm{m}} h^3$	$0.0976^{+0.0049}_{-0.0043}$	z_{drag}	$1062.8^{+6.5}_{-6.2}$	$\sigma_8(0.61)$	$0.586^{+0.019}_{-0.021}$
σ_8	$0.792^{+0.046}_{-0.050}$	r_{drag}	$147.1^{+2.3}_{-2.1}$	$f\sigma_8(2.33)$	$0.2969^{+0.0086}_{-0.0081}$
S_8	$0.76^{+0.16}_{-0.14}$	k_{D}	$0.1418^{+0.0034}_{-0.0036}$	$\sigma_8(2.33)$	$0.3078^{+0.0090}_{-0.0077}$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.418^{+0.087}_{-0.077}$	$100\theta_{\mathrm{D}}$	$0.1590^{+0.0036}_{-0.0030}$	$r_{0.002}$	< 1.04
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.575^{+0.074}_{-0.071}$	z_{eq}	3290^{+250}_{-230}	$r_{0.01}$	< 0.853
$\sigma_8/h^{0.5}$	$0.94^{+0.10}_{-0.10}$	k_{eq}	$0.01004^{+0.00077}_{-0.00071}$	$\ln(10^{10} A_{\mathrm{t}})$	$1.4^{+1.5}_{-3.5}$
$r_{\mathrm{drag}} h$	104^{+11}_{-11}	$100\theta_{\mathrm{eq}}$	$0.838^{+0.056}_{-0.053}$	r_{10}	< 0.567
$\langle d^2 \rangle^{1/2}$	$2.33^{+0.21}_{-0.21}$	$100\theta_{\mathrm{s,eq}}$	$0.461^{+0.027}_{-0.026}$	$10^9 A_{\mathrm{t}}$	< 1.49
z_{re}	< 9.12	$H(0.15)$	$75.6^{+6.9}_{-6.3}$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	< 1.33
$10^9 A_{\mathrm{s}}$	$2.11^{+0.12}_{-0.10}$	$D_{\mathrm{M}}(0.15)$	617^{+61}_{-56}	χ_{small}^2	$398.1 (\nu: 1.9)$
$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.886^{+0.067}_{-0.070}$	$H(0.38)$	$85.1^{+5.6}_{-4.8}$	χ_{plikEE}^2	$742.4 (\nu: 5.0)$
D_{40}	1296^{+200}_{-100}	$D_{\mathrm{M}}(0.38)$	1479^{+130}_{-120}	χ_{prior}^2	$0.99 (\nu: 1.0)$
D_{220}	5872^{+510}_{-510}	$H(0.51)$	$91.5^{+4.8}_{-4.0}$	χ_{CMB}^2	$1140.5 (\nu: 6.3)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1141.46$; $R - 1 = 0.01059$

17.28 base_r_plikHM_EE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0230^{+0.0019}_{-0.0019}$	D_{2000}	238^{+14}_{-14}	$D_{\text{M}}(2.33)$	5742^{+81}_{-84}
$\Omega_{\text{c}}h^2$	$0.1174^{+0.0038}_{-0.0037}$	$n_{\text{s},0.002}$	$0.984^{+0.031}_{-0.027}$	$f\sigma_8(0.15)$	$0.447^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	$1.0399^{+0.0020}_{-0.0019}$	Y_{P}	$0.24566^{+0.00074}_{-0.00082}$	$\sigma_8(0.15)$	$0.745^{+0.021}_{-0.019}$
τ	$0.054^{+0.018}_{-0.012}$	$Y_{\text{P}}^{\text{BBN}}$	$0.24698^{+0.00074}_{-0.00083}$	$f\sigma_8(0.38)$	$0.467^{+0.021}_{-0.020}$
$\ln(10^{10}A_{\text{s}})$	$3.046^{+0.048}_{-0.045}$	$10^5\text{D}/\text{H}$	$2.47^{+0.37}_{-0.30}$	$\sigma_8(0.38)$	$0.661^{+0.018}_{-0.016}$
n_{s}	$0.984^{+0.031}_{-0.027}$	Age/Gyr	$13.75^{+0.19}_{-0.19}$	$f\sigma_8(0.51)$	$0.467^{+0.019}_{-0.018}$
r	< 0.675	z_*	$1088.9^{+2.6}_{-2.1}$	$\sigma_8(0.51)$	$0.619^{+0.017}_{-0.015}$
y_{cal}	$1.0001^{+0.0065}_{-0.0061}$	r_*	$144.6^{+1.6}_{-1.5}$	$f\sigma_8(0.61)$	$0.463^{+0.018}_{-0.016}$
H_0	$68.5^{+2.2}_{-2.1}$	$100\theta_*$	$1.0400^{+0.0020}_{-0.0019}$	$\sigma_8(0.61)$	$0.590^{+0.016}_{-0.014}$
Ω_{Λ}	$0.699^{+0.023}_{-0.024}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.90^{+0.15}_{-0.15}$	$f\sigma_8(2.33)$	$0.2978^{+0.0079}_{-0.0070}$
Ω_{m}	$0.301^{+0.024}_{-0.023}$	z_{drag}	$1061.2^{+4.1}_{-4.5}$	$\sigma_8(2.33)$	$0.3075^{+0.0082}_{-0.0072}$
$\Omega_{\text{m}}h^2$	$0.1410^{+0.0039}_{-0.0038}$	r_{drag}	$147.1^{+2.0}_{-2.0}$	$r_{0.002}$	< 0.893
$\Omega_{\text{m}}h^3$	$0.0966^{+0.0035}_{-0.0030}$	k_{D}	$0.1414^{+0.0032}_{-0.0034}$	$r_{0.01}$	< 0.767
σ_8	$0.805^{+0.024}_{-0.022}$	$100\theta_{\text{D}}$	$0.1599^{+0.0027}_{-0.0023}$	$\ln(10^{10}A_{\text{t}})$	$1.3^{+1.6}_{-3.3}$
S_8	$0.806^{+0.048}_{-0.046}$	z_{eq}	3355^{+94}_{-90}	r_{10}	< 0.501
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.441^{+0.026}_{-0.025}$	k_{eq}	$0.01024^{+0.00029}_{-0.00027}$	10^9A_{t}	< 1.38
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.596^{+0.026}_{-0.024}$	$100\theta_{\text{eq}}$	$0.823^{+0.016}_{-0.016}$	$10^9A_{\text{t}}e^{-2\tau}$	< 1.24
$\sigma_8/h^{0.5}$	$0.972^{+0.037}_{-0.035}$	$100\theta_{\text{s,eq}}$	$0.4539^{+0.0084}_{-0.0083}$	χ_{simall}^2	$398.0 (\nu: 1.9)$
$r_{\text{drag}}h$	$100.8^{+3.0}_{-2.9}$	$H(0.15)$	$73.7^{+2.1}_{-1.9}$	χ_{plikEE}^2	$741.9 (\nu: 3.9)$
$\langle d^2 \rangle^{1/2}$	$2.382^{+0.097}_{-0.10}$	$D_{\text{M}}(0.15)$	634^{+19}_{-19}	$\chi_{6\text{DF}}^2$	$0.057 (\nu: 0.0)$
z_{re}	< 9.24	$H(0.38)$	$83.6^{+1.8}_{-1.6}$	χ_{MGS}^2	$1.93 (\nu: 0.3)$
10^9A_{s}	$2.10^{+0.10}_{-0.094}$	$D_{\text{M}}(0.38)$	1514^{+39}_{-40}	χ_{DR12BAO}^2	$4.4 (\nu: 0.7)$
$10^9A_{\text{s}}e^{-2\tau}$	$1.887^{+0.067}_{-0.068}$	$H(0.51)$	$90.2^{+1.6}_{-1.5}$	χ_{prior}^2	$0.95 (\nu: 0.9)$
D_{40}	1295^{+200}_{-100}	$D_{\text{M}}(0.51)$	1963^{+47}_{-48}	χ_{BAO}^2	$6.3 (\nu: 0.9)$
D_{220}	5766^{+390}_{-380}	$H(0.61)$	$95.8^{+1.6}_{-1.4}$	χ_{CMB}^2	$1140.0 (\nu: 5.5)$
D_{810}	2566^{+89}_{-93}	$D_{\text{M}}(0.61)$	2285^{+52}_{-54}		
D_{1420}	835^{+37}_{-36}	$H(2.33)$	$235.4^{+2.9}_{-2.7}$		

$\bar{\chi}_{\text{eff}}^2 = 1147.29; R - 1 = 0.01573$

17.29 base_r_plikHM_TT_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02214^{+0.00057}_{-0.00053}$	$r_{\text{drag}} h$	98.82	$98.9^{+3.3}_{-3.0}$	$D_M(0.51)$	1991.6	1992^{+36}_{-39}
$\Omega_c h^2$	0.12018	$0.1200^{+0.0039}_{-0.0041}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.444^{+0.061}_{-0.064}$	$H(0.61)$	95.10	$95.08^{+0.83}_{-0.72}$
$100\theta_{\text{MC}}$	1.04085	$1.0408^{+0.0012}_{-0.0012}$	z_{re}	7.55	$7.5^{+2.0}_{-2.2}$	$D_M(0.61)$	2316.8	2317^{+38}_{-42}
τ	0.0526	$0.053^{+0.021}_{-0.021}$	$10^9 A_s$	2.092	$2.091^{+0.084}_{-0.079}$	$H(2.33)$	236.48	$236.4^{+2.4}_{-2.5}$
$\ln(10^{10} A_s)$	3.0408	$3.040^{+0.040}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.8834	$1.882^{+0.030}_{-0.030}$	$D_M(2.33)$	5773.2	5775^{+35}_{-39}
n_s	0.9647	$0.964^{+0.013}_{-0.012}$	D_{40}	1229.4	1244^{+48}_{-37}	$f\sigma_8(0.15)$	0.4611	$0.460^{+0.020}_{-0.021}$
r	0.000	< 0.151	D_{220}	5715	5714^{+110}_{-110}	$\sigma_8(0.15)$	0.7488	$0.748^{+0.014}_{-0.014}$
y_{cal}	1.0005	$1.0006^{+0.0065}_{-0.0064}$	D_{810}	2538.4	2537^{+36}_{-35}	$f\sigma_8(0.38)$	0.4781	$0.477^{+0.015}_{-0.017}$
A_{217}^{CIB}	48.7	48^{+20}_{-20}	D_{1420}	816.1	815^{+14}_{-13}	$\sigma_8(0.38)$	0.6631	$0.663^{+0.013}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.34	—	D_{2000}	230.18	$229.8^{+4.9}_{-4.6}$	$f\sigma_8(0.51)$	0.4760	$0.475^{+0.013}_{-0.014}$
A_{143}^{tSZ}	7.0	—	$n_{s,0.002}$	0.9647	$0.964^{+0.013}_{-0.012}$	$\sigma_8(0.51)$	0.6203	$0.620^{+0.012}_{-0.012}$
A_{100}^{PS}	254	263^{+70}_{-70}	Y_P	0.245316	$0.24530^{+0.00022}_{-0.00025}$	$f\sigma_8(0.61)$	0.4705	$0.470^{+0.012}_{-0.013}$
A_{143}^{PS}	49.5	49^{+20}_{-20}	Y_P^{BBN}	0.246643	$0.24662^{+0.00023}_{-0.00026}$	$\sigma_8(0.61)$	0.5901	$0.590^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{PS}}$	47.3	44^{+20}_{-20}	$10^5 D/H$	2.622	$2.63^{+0.10}_{-0.11}$	$f\sigma_8(2.33)$	0.2973	$0.2970^{+0.0062}_{-0.0059}$
A_{217}^{PS}	119.3	115^{+30}_{-30}	Age/Gyr	13.820	$13.824^{+0.080}_{-0.088}$	$\sigma_8(2.33)$	0.3062	$0.3060^{+0.0069}_{-0.0065}$
A^{kSZ}	0.0	—	z_*	1090.18	$1090.22^{+0.90}_{-0.94}$	$r_{0.002}$	0.000	< 0.144
A_{100}^{dustTT}	8.88	$8.9^{+4.7}_{-4.7}$	r_*	144.53	$144.60^{+0.97}_{-0.94}$	$r_{0.01}$	0.000	< 0.147
A_{143}^{dustTT}	10.79	$10.7^{+4.5}_{-4.5}$	$100\theta_*$	1.04106	$1.0410^{+0.0012}_{-0.0011}$	$\ln(10^{10} A_t)$	-5.72	$-0.7^{+2.2}_{-4.0}$
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.3}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	13.883	$13.890^{+0.090}_{-0.088}$	r_{10}	0.0001	< 0.0743
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	z_{drag}	1059.51	$1059.4^{+1.2}_{-1.2}$	$10^9 A_t$	0.000	< 0.316
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.26	$147.34^{+0.99}_{-0.98}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.283
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_D	0.14054	$0.1404^{+0.0012}_{-0.0012}$	f_{2000}^{143}	30.2	31^{+7}_{-8}
H_0	67.11	$67.1^{+1.9}_{-1.8}$	$100\theta_D$	0.16101	$0.16106^{+0.00068}_{-0.00070}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
Ω_Λ	0.6825	$0.683^{+0.026}_{-0.025}$	z_{eq}	3402	3398^{+90}_{-94}	f_{2000}^{217}	107.60	$108.1^{+4.8}_{-5.0}$
Ω_m	0.3175	$0.317^{+0.025}_{-0.026}$	k_{eq}	0.010383	$0.01037^{+0.00027}_{-0.00029}$	χ^2_{lensing}	8.90	$9.46 (\nu: 0.4)$
$\Omega_m h^2$	0.14300	$0.1428^{+0.0038}_{-0.0039}$	$100\theta_{\text{eq}}$	0.8128	$0.813^{+0.018}_{-0.016}$	χ^2_{small}	395.87	$397.1 (\nu: 1.2)$
$\Omega_m h^3$	0.09597	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{s,\text{eq}}$	0.4492	$0.4496^{+0.0093}_{-0.0084}$	χ^2_{lowl}	23.37	$24.9 (\nu: 1.3)$
σ_8	0.8110	$0.810^{+0.016}_{-0.016}$	$H(0.15)$	72.45	$72.5^{+1.7}_{-1.5}$	χ^2_{plik}	759.0	$771.2 (\nu: 13.6)$
S_8	0.8344	$0.833^{+0.040}_{-0.042}$	$D_M(0.15)$	645.6	646^{+15}_{-16}	χ^2_{prior}	1.4	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_m^{0.5}$	0.4570	$0.456^{+0.022}_{-0.023}$	$H(0.38)$	82.66	$82.7^{+1.2}_{-1.1}$	χ^2_{CMB}	1187.2	$1202.6 (\nu: 16.1)$
$\sigma_8 \Omega_m^{0.25}$	0.6088	$0.608^{+0.019}_{-0.020}$	$D_M(0.38)$	1538.2	1538^{+31}_{-33}			
$\sigma_8/h^{0.5}$	0.9900	$0.989^{+0.026}_{-0.027}$	$H(0.51)$	89.44	$89.4^{+1.0}_{-0.87}$			

Best-fit $\chi^2_{\text{eff}} = 1188.55$; $\bar{\chi}^2_{\text{eff}} = 1209.87$; $R - 1 = 0.00994$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.90 small_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2.29: 23.37 plik_rd12_HM_v22_TT: 759.04

17.30 base_r_plikHM_TT_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02221^{+0.00053}_{-0.00049}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.433^{+0.055}_{-0.055}$	$D_M(0.61)$	2306.8	2307^{+28}_{-29}
$\Omega_c h^2$	0.11914	$0.1190^{+0.0028}_{-0.0028}$	z_{re}	7.75	$7.8^{+1.8}_{-2.0}$	$H(2.33)$	235.88	$235.8^{+1.8}_{-1.8}$
$100\theta_{\text{MC}}$	1.04096	$1.0410^{+0.0011}_{-0.0011}$	$10^9 A_s$	2.099	$2.097^{+0.082}_{-0.077}$	$D_M(2.33)$	5766.1	5768^{+30}_{-32}
τ	0.0549	$0.055^{+0.019}_{-0.019}$	$10^9 A_s e^{-2\tau}$	1.8808	$1.879^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	0.4560	$0.456^{+0.016}_{-0.016}$
$\ln(10^{10} A_s)$	3.0440	$3.043^{+0.038}_{-0.037}$	D_{40}	1226.7	1241^{+48}_{-37}	$\sigma_8(0.15)$	0.7479	$0.747^{+0.015}_{-0.014}$
n_s	0.9669	$0.967^{+0.011}_{-0.010}$	D_{220}	5728	5722^{+100}_{-110}	$f\sigma_8(0.38)$	0.4744	$0.474^{+0.013}_{-0.013}$
r	0.000	< 0.159	D_{810}	2540.0	2537^{+36}_{-35}	$\sigma_8(0.38)$	0.6630	$0.663^{+0.013}_{-0.012}$
y_{cal}	1.0009	$1.0008^{+0.0064}_{-0.0064}$	D_{1420}	817.3	816^{+13}_{-13}	$f\sigma_8(0.51)$	0.4731	$0.473^{+0.012}_{-0.012}$
A_{217}^{CIB}	48.1	48^{+20}_{-20}	D_{2000}	230.62	$230.2^{+4.7}_{-4.5}$	$\sigma_8(0.51)$	0.6205	$0.620^{+0.012}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.42	—	$n_{\text{s},0.002}$	0.9669	$0.967^{+0.011}_{-0.010}$	$f\sigma_8(0.61)$	0.4681	$0.468^{+0.011}_{-0.011}$
A_{143}^{tSZ}	7.0	—	Y_{P}	0.245348	$0.24533^{+0.00021}_{-0.00023}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.012}_{-0.011}$
A_{100}^{PS}	254	262^{+70}_{-70}	$Y_{\text{P}}^{\text{BBN}}$	0.246674	$0.24665^{+0.00021}_{-0.00023}$	$f\sigma_8(2.33)$	0.2977	$0.2976^{+0.0060}_{-0.0058}$
A_{143}^{PS}	50.6	48^{+20}_{-20}	10^5D/H	2.608	$2.617^{+0.095}_{-0.097}$	$\sigma_8(2.33)$	0.3069	$0.3068^{+0.0064}_{-0.0063}$
$A_{143 \times 217}^{\text{PS}}$	49.2	43^{+20}_{-20}	Age/Gyr	13.805	$13.808^{+0.069}_{-0.074}$	$r_{0.002}$	0.000	< 0.154
A_{217}^{PS}	120.3	115^{+20}_{-30}	z_*	1089.99	$1090.04^{+0.74}_{-0.77}$	$r_{0.01}$	0.000	< 0.156
A^{kSZ}	0.0	—	r_*	144.74	$144.80^{+0.74}_{-0.73}$	$\ln(10^{10} A_{\text{t}})$	-6.92	$-0.6^{+2.2}_{-4.0}$
A_{100}^{dustTT}	8.89	$8.9^{+4.9}_{-4.6}$	$100\theta_*$	1.04116	$1.0412^{+0.0011}_{-0.0011}$	r_{10}	0.0000	< 0.0796
A_{143}^{dustTT}	10.83	$10.7^{+4.6}_{-4.5}$	$D_M(z_*)/\text{Gpc}$	13.902	$13.908^{+0.072}_{-0.073}$	$10^9 A_{\text{t}}$	0.000	< 0.333
$A_{143 \times 217}^{\text{dustTT}}$	19.6	$18.3^{+8.3}_{-8.3}$	z_{drag}	1059.59	$1059.5^{+1.2}_{-1.2}$	$10^9 A_{\text{t}} e^{-2\tau}$	0.000	< 0.297
A_{217}^{dustTT}	94.9	94^{+20}_{-20}	r_{drag}	147.45	$147.53^{+0.82}_{-0.82}$	f_{2000}^{143}	30.1	31^{+7}_{-8}
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	0.14040	$0.1403^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
c_{217}	0.99823	$0.9983^{+0.0017}_{-0.0016}$	$100\theta_{\text{D}}$	0.16095	$0.16103^{+0.00067}_{-0.00068}$	f_{2000}^{217}	107.50	$107.9^{+4.9}_{-4.9}$
H_0	67.57	$67.6^{+1.3}_{-1.3}$	z_{eq}	3379	3376^{+65}_{-64}	χ_{lensing}^2	8.81	$9.32 (\nu: 0.3)$
Ω_{Λ}	0.6889	$0.689^{+0.017}_{-0.017}$	k_{eq}	0.010312	$0.01030^{+0.00020}_{-0.00020}$	χ_{small}^2	396.18	$397.3 (\nu: 1.5)$
Ω_{m}	0.3111	$0.311^{+0.017}_{-0.017}$	$100\theta_{\text{eq}}$	0.8172	$0.818^{+0.012}_{-0.012}$	χ_{lowl}^2	23.01	$24.5 (\nu: 1.1)$
$\Omega_{\text{m}} h^2$	0.14203	$0.1419^{+0.0027}_{-0.0027}$	$100\theta_{\text{s,eq}}$	0.4515	$0.4518^{+0.0063}_{-0.0061}$	χ_{plik}^2	759.7	$771.5 (\nu: 13.5)$
$\Omega_{\text{m}} h^3$	0.09598	$0.0959^{+0.0012}_{-0.0012}$	$H(0.15)$	72.85	$72.8^{+1.1}_{-1.1}$	$\chi_{6\text{DF}}^2$	0.030	$0.055 (\nu: 0.0)$
σ_8	0.8093	$0.809^{+0.016}_{-0.016}$	$D_M(0.15)$	641.6	642^{+11}_{-11}	χ_{MGS}^2	1.22	$1.30 (\nu: 0.1)$
S_8	0.8241	$0.823^{+0.031}_{-0.031}$	$H(0.38)$	82.95	$82.94^{+0.87}_{-0.82}$	χ_{DR12BAO}^2	4.40	$4.8 (\nu: 1.1)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4514	$0.451^{+0.017}_{-0.017}$	$D_M(0.38)$	1530.3	1530^{+22}_{-23}	χ_{prior}^2	1.3	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6044	$0.604^{+0.016}_{-0.016}$	$H(0.51)$	89.65	$89.64^{+0.72}_{-0.69}$	χ_{CMB}^2	1187.7	$1202.6 (\nu: 15.7)$
$\sigma_8/h^{0.5}$	0.9845	$0.984^{+0.023}_{-0.023}$	$D_M(0.51)$	1982.4	1983^{+26}_{-27}	χ_{BAO}^2	5.64	$6.1 (\nu: 0.7)$
$r_{\text{drag}} h$	99.64	$99.7^{+2.2}_{-2.1}$	$H(0.61)$	95.27	$95.25^{+0.62}_{-0.59}$			

Best-fit $\chi_{\text{eff}}^2 = 1194.73$; $\bar{\chi}_{\text{eff}}^2 = 1215.99$; $R - 1 = 0.01776$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.40 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.81 small_100x143_offlike5_EE_Aplanck_B: 396.18 commander_dx12.v3.2.29: 23.01 plik_rd12_HM.v22_TT: 759.74

17.31 base_r_plikHM_TT_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02215^{+0.00057}_{-0.00053}$	$r_{\text{drag}} h$	$99.0^{+3.3}_{-2.8}$	$D_M(0.51)$	1991^{+34}_{-39}
$\Omega_c h^2$	$0.1199^{+0.0037}_{-0.0041}$	$\langle d^2 \rangle^{1/2}$	$2.445^{+0.061}_{-0.064}$	$H(0.61)$	$95.10^{+0.83}_{-0.70}$
$100\theta_{\text{MC}}$	$1.0408^{+0.0012}_{-0.0011}$	z_{re}	< 9.33	$D_M(0.61)$	2316^{+36}_{-41}
τ	$0.054^{+0.018}_{-0.013}$	$10^9 A_s$	$2.096^{+0.080}_{-0.056}$	$H(2.33)$	$236.3^{+2.3}_{-2.5}$
$\ln(10^{10} A_s)$	$3.043^{+0.038}_{-0.027}$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.030}_{-0.029}$	$D_M(2.33)$	5774^{+35}_{-39}
n_s	$0.965^{+0.013}_{-0.012}$	D_{40}	1243^{+49}_{-37}	$f\sigma_8(0.15)$	$0.460^{+0.020}_{-0.021}$
r	< 0.152	D_{220}	5714^{+110}_{-110}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
y_{cal}	$1.0006^{+0.0065}_{-0.0064}$	D_{810}	2536^{+36}_{-35}	$f\sigma_8(0.38)$	$0.477^{+0.015}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$229.8^{+4.9}_{-4.6}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.965^{+0.013}_{-0.012}$	$\sigma_8(0.51)$	$0.620^{+0.011}_{-0.0092}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24530^{+0.00022}_{-0.00025}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.012}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24663^{+0.00022}_{-0.00025}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0086}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	10^5D/H	$2.63^{+0.10}_{-0.10}$	$f\sigma_8(2.33)$	$0.2974^{+0.0058}_{-0.0044}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.822^{+0.080}_{-0.088}$	$\sigma_8(2.33)$	$0.3064^{+0.0065}_{-0.0048}$
A^{kSZ}	—	z_*	$1090.19^{+0.86}_{-0.92}$	$r_{0.002}$	< 0.145
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	r_*	$144.62^{+0.96}_{-0.89}$	$r_{0.01}$	< 0.148
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$\ln(10^{10} A_{\text{t}})$	$-0.7^{+2.2}_{-4.0}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.3}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	$13.892^{+0.088}_{-0.085}$	r_{10}	< 0.0749
A_{217}^{dustTT}	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.2}$	$10^9 A_{\text{t}}$	< 0.319
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.36^{+0.99}_{-0.95}$	$10^9 A_{\text{t}} e^{-2\tau}$	< 0.285
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	f_{2000}^{143}	31^{+7}_{-7}
H_0	$67.2^{+1.9}_{-1.6}$	$100\theta_{\text{D}}$	$0.16106^{+0.00068}_{-0.00069}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
Ω_{Λ}	$0.684^{+0.025}_{-0.023}$	z_{eq}	3395^{+86}_{-92}	f_{2000}^{217}	$108.0^{+4.8}_{-5.0}$
Ω_{m}	$0.316^{+0.023}_{-0.025}$	k_{eq}	$0.01036^{+0.00026}_{-0.00028}$	χ_{lensing}^2	$9.43 (\nu: 0.4)$
$\Omega_{\text{m}} h^2$	$0.1427^{+0.0036}_{-0.0039}$	$100\theta_{\text{eq}}$	$0.814^{+0.018}_{-0.016}$	χ_{simall}^2	$397.0 (\nu: 1.2)$
$\Omega_{\text{m}} h^3$	$0.0959^{+0.0012}_{-0.0011}$	$100\theta_{\text{s,eq}}$	$0.4499^{+0.0091}_{-0.0081}$	χ_{lowl}^2	$24.9 (\nu: 1.3)$
σ_8	$0.811^{+0.015}_{-0.015}$	$H(0.15)$	$72.5^{+1.7}_{-1.4}$	χ_{plik}^2	$771.1 (\nu: 13.6)$
S_8	$0.833^{+0.040}_{-0.042}$	$D_M(0.15)$	645^{+14}_{-16}	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.456^{+0.022}_{-0.023}$	$H(0.38)$	$82.7^{+1.2}_{-1.0}$	χ_{CMB}^2	$1202.4 (\nu: 15.8)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.608^{+0.019}_{-0.020}$	$D_M(0.38)$	1537^{+29}_{-33}		
$\sigma_8/h^{0.5}$	$0.989^{+0.025}_{-0.027}$	$H(0.51)$	$89.5^{+1.0}_{-0.84}$		

$$\bar{\chi}_{\text{eff}}^2 = 1209.64; R - 1 = 0.01135$$

17.32 base_r_plikHM_TT_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02221^{+0.00053}_{-0.00049}$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.055}_{-0.054}$	$D_{\text{M}}(0.61)$	2307^{+28}_{-29}
$\Omega_{\text{c}}h^2$	$0.1190^{+0.0028}_{-0.0028}$	z_{re}	< 9.42	$H(2.33)$	$235.8^{+1.8}_{-1.8}$
$100\theta_{\text{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$10^9 A_{\text{s}}$	$2.100^{+0.079}_{-0.059}$	$D_{\text{M}}(2.33)$	5767^{+30}_{-32}
τ	$0.056^{+0.017}_{-0.014}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.879^{+0.029}_{-0.028}$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
$\ln(10^{10}A_{\text{s}})$	$3.045^{+0.037}_{-0.029}$	D_{40}	1241^{+48}_{-37}	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012}$
n_{s}	$0.967^{+0.011}_{-0.010}$	D_{220}	5722^{+110}_{-110}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
r	< 0.159	D_{810}	2537^{+36}_{-36}	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010}$
y_{cal}	$1.0008^{+0.0064}_{-0.0064}$	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.011}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{2000}	$230.2^{+4.7}_{-4.5}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$n_{\text{s},0.002}$	$0.967^{+0.011}_{-0.010}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010}$
A_{143}^{tSZ}	—	Y_{P}	$0.24533^{+0.00021}_{-0.00023}$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0091}$
A_{100}^{PS}	262^{+70}_{-70}	$Y_{\text{P}}^{\text{BBN}}$	$0.24665^{+0.00021}_{-0.00023}$	$f\sigma_8(2.33)$	$0.2978^{+0.0059}_{-0.0046}$
A_{143}^{PS}	48^{+20}_{-20}	$10^5 \text{D}/\text{H}$	$2.616^{+0.096}_{-0.097}$	$\sigma_8(2.33)$	$0.3070^{+0.0063}_{-0.0049}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	Age/Gyr	$13.807^{+0.069}_{-0.073}$	$r_{0.002}$	< 0.154
A_{217}^{PS}	115^{+20}_{-30}	z_*	$1090.04^{+0.74}_{-0.76}$	$r_{0.01}$	< 0.156
A^{kSZ}	—	r_*	$144.81^{+0.74}_{-0.73}$	$\ln(10^{10}A_{\text{t}})$	$-0.6^{+2.2}_{-4.0}$
A_{100}^{dustTT}	$8.9^{+5.0}_{-4.6}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	r_{10}	< 0.0797
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.5}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.908^{+0.072}_{-0.073}$	$10^9 A_{\text{t}}$	< 0.333
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.3}_{-8.5}$	z_{drag}	$1059.5^{+1.2}_{-1.1}$	$10^9 A_{\text{t}}e^{-2\tau}$	< 0.297
A_{217}^{dustTT}	94^{+20}_{-20}	r_{drag}	$147.53^{+0.82}_{-0.82}$	f_{2000}^{143}	31^{+7}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9983^{+0.0017}_{-0.0016}$	$100\theta_{\text{D}}$	$0.16102^{+0.00067}_{-0.00068}$	f_{2000}^{217}	$107.9^{+4.8}_{-4.9}$
H_0	$67.6^{+1.3}_{-1.2}$	z_{eq}	3375^{+64}_{-64}	χ_{lensing}^2	$9.28 (\nu: 0.3)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017}$	k_{eq}	$0.01030^{+0.00020}_{-0.00020}$	χ_{simall}^2	$397.2 (\nu: 1.5)$
Ω_{m}	$0.311^{+0.017}_{-0.016}$	$100\theta_{\text{eq}}$	$0.818^{+0.012}_{-0.012}$	χ_{lowl}^2	$24.5 (\nu: 1.1)$
$\Omega_{\text{m}}h^2$	$0.1419^{+0.0027}_{-0.0027}$	$100\theta_{\text{s,eq}}$	$0.4519^{+0.0063}_{-0.0061}$	χ_{plik}^2	$771.4 (\nu: 13.6)$
$\Omega_{\text{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	$H(0.15)$	$72.9^{+1.1}_{-1.1}$	$\chi_{6\text{DF}}^2$	$0.053 (\nu: 0.0)$
σ_8	$0.809^{+0.016}_{-0.014}$	$D_{\text{M}}(0.15)$	641^{+11}_{-11}	χ_{MGS}^2	$1.32 (\nu: 0.1)$
S_8	$0.823^{+0.031}_{-0.030}$	$H(0.38)$	$82.95^{+0.87}_{-0.81}$	χ_{DR12BAO}^2	$4.7 (\nu: 1.0)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$D_{\text{M}}(0.38)$	1530^{+22}_{-22}	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.604^{+0.016}_{-0.016}$	$H(0.51)$	$89.65^{+0.72}_{-0.68}$	χ_{CMB}^2	$1202.5 (\nu: 15.6)$
$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.022}$	$D_{\text{M}}(0.51)$	1982^{+26}_{-26}	χ_{BAO}^2	$6.1 (\nu: 0.7)$
$r_{\text{drag}}h$	$99.7^{+2.2}_{-2.1}$	$H(0.61)$	$95.25^{+0.62}_{-0.59}$		

$\bar{\chi}_{\text{eff}}^2 = 1215.85; R - 1 = 0.01875$

17.33 base_r_plikHM_TTTEEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022391	$0.02237^{+0.00037}_{-0.00037}$	S_8	0.8320	$0.830^{+0.033}_{-0.033}$	$D_M(0.38)$	1533.2	1533^{+24}_{-24}
$\Omega_c h^2$	0.12002	$0.1199^{+0.0031}_{-0.0031}$	$\sigma_8 \Omega_m^{0.5}$	0.4557	$0.455^{+0.018}_{-0.018}$	$H(0.51)$	89.64	$89.64^{+0.71}_{-0.68}$
$100\theta_{MC}$	1.04093	$1.04092^{+0.00078}_{-0.00078}$	$\sigma_8 \Omega_m^{0.25}$	0.6082	$0.607^{+0.016}_{-0.017}$	$D_M(0.51)$	1985.6	1985^{+28}_{-28}
τ	0.0543	$0.054^{+0.020}_{-0.020}$	$\sigma_8/h^{0.5}$	0.9889	$0.988^{+0.023}_{-0.023}$	$H(0.61)$	95.29	$95.29^{+0.57}_{-0.55}$
$\ln(10^{10} A_s)$	3.0445	$3.044^{+0.040}_{-0.039}$	$r_{\text{drag}} h$	99.08	$99.2^{+2.4}_{-2.4}$	$D_M(0.61)$	2310.0	2310^{+30}_{-30}
n_s	0.9663	$0.966^{+0.011}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.443	$2.442^{+0.055}_{-0.056}$	$H(2.33)$	236.59	$236.5^{+1.9}_{-1.9}$
r	0.000	< 0.153	z_{re}	7.68	$7.7^{+1.9}_{-2.1}$	$D_M(2.33)$	5762.7	5763^{+26}_{-26}
y_{cal}	1.0004	$1.0006^{+0.0064}_{-0.0061}$	$10^9 A_s$	2.100	$2.099^{+0.084}_{-0.080}$	$f\sigma_8(0.15)$	0.4600	$0.459^{+0.017}_{-0.017}$
A_{217}^{CIB}	45.8	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8836	$1.883^{+0.030}_{-0.027}$	$\sigma_8(0.15)$	0.7496	$0.749^{+0.014}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.65	—	D_{40}	1228.3	1243^{+47}_{-35}	$f\sigma_8(0.38)$	0.4775	$0.477^{+0.013}_{-0.014}$
A_{143}^{tSZ}	7.08	$5.5^{+4.4}_{-4.6}$	D_{220}	5729	5730^{+100}_{-98}	$\sigma_8(0.38)$	0.6641	$0.664^{+0.013}_{-0.012}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{810}	2540.9	2539^{+35}_{-33}	$f\sigma_8(0.51)$	0.4757	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	50.6	46^{+20}_{-20}	D_{1420}	818.4	818^{+12}_{-12}	$\sigma_8(0.51)$	0.6213	$0.621^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	53.1	43^{+20}_{-20}	D_{2000}	231.35	$231.0^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	0.4704	$0.470^{+0.011}_{-0.011}$
A_{217}^{PS}	122.1	115^{+30}_{-30}	$n_{s,0.002}$	0.9663	$0.966^{+0.011}_{-0.010}$	$\sigma_8(0.61)$	0.5911	$0.591^{+0.012}_{-0.011}$
A^{kSZ}	0.0	—	Y_P	0.245404	$0.24539^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.2979	$0.2977^{+0.0060}_{-0.0058}$
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.7}$	Y_P^{BBN}	0.246730	$0.24672^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	0.3069	$0.3068^{+0.0065}_{-0.0063}$
A_{143}^{dustTT}	11.02	$10.8^{+4.7}_{-4.6}$	$10^5 D/H$	2.582	$2.586^{+0.069}_{-0.067}$	$r_{0.002}$	0.000	< 0.146
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.4}_{-8.5}$	Age/Gyr	13.795	$13.797^{+0.058}_{-0.059}$	$r_{0.01}$	0.000	< 0.149
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	z_*	1089.89	$1089.91^{+0.66}_{-0.64}$	$\ln(10^{10} A_t)$	-4.62	$-0.6^{+2.2}_{-4.2}$
A_{100}^{dustTE}	0.115	$0.115^{+0.098}_{-0.097}$	r_*	144.41	$144.46^{+0.69}_{-0.69}$	r_{10}	0.0002	< 0.0756
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.076}_{-0.077}$	$100\theta_*$	1.04111	$1.04110^{+0.00077}_{-0.00076}$	$10^9 A_t$	0.001	< 0.321
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.871	$13.876^{+0.065}_{-0.065}$	$10^9 A_t e^{-2\tau}$	0.001	< 0.286
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	z_{drag}	1059.97	$1059.93^{+0.77}_{-0.76}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.667	$0.67^{+0.21}_{-0.21}$	r_{drag}	147.07	$147.12^{+0.69}_{-0.69}$	$f_{2000}^{143 \times 217}$	31.92	32^{+5}_{-5}
A_{217}^{dustTE}	2.09	$2.09^{+0.69}_{-0.71}$	k_D	0.14091	$0.14084^{+0.00076}_{-0.00078}$	f_{2000}^{217}	106.44	$106.9^{+4.6}_{-4.5}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160730	$0.16076^{+0.00044}_{-0.00043}$	χ^2_{lensing}	8.84	9.25 (ν : 0.2)
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3403	3400^{+70}_{-70}	χ^2_{small}	396.05	397.2 (ν : 1.6)
H_0	67.37	$67.4^{+1.4}_{-1.4}$	k_{eq}	0.010387	$0.01038^{+0.00021}_{-0.00021}$	χ^2_{lowl}	23.21	24.7 (ν : 1.2)
Ω_Λ	0.6848	$0.685^{+0.019}_{-0.020}$	$100\theta_{\text{eq}}$	0.8132	$0.814^{+0.013}_{-0.013}$	χ^2_{plik}	2345.0	2359.2 (ν : 16.0)
Ω_m	0.3152	$0.315^{+0.020}_{-0.019}$	$100\theta_{s,\text{eq}}$	0.4493	$0.4496^{+0.0069}_{-0.0066}$	χ^2_{prior}	1.5	11.6 (ν : 10.3)
$\Omega_m h^2$	0.14305	$0.1429^{+0.0029}_{-0.0029}$	$H(0.15)$	72.69	$72.7^{+1.2}_{-1.2}$	χ^2_{CMB}	2773.1	2790.4 (ν : 18.1)
$\Omega_m h^3$	0.09637	$0.09631^{+0.00074}_{-0.00073}$	$D_M(0.15)$	643.3	643^{+12}_{-12}			
σ_8	0.8117	$0.811^{+0.016}_{-0.016}$	$H(0.38)$	82.88	$82.89^{+0.89}_{-0.86}$			

Best-fit $\chi^2_{\text{eff}} = 2774.63$; $\bar{\chi}^2_{\text{eff}} = 2801.95$; $R - 1 = 0.00682$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.84 small.100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2_29: 23.20 plik_rd12_HM_v22b_TTTEEE: 2344.99

17.34 base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022447	$0.02242^{+0.00035}_{-0.00034}$	$\sigma_8 \Omega_m^{0.5}$	0.4521	$0.451^{+0.015}_{-0.015}$	$D_M(0.51)$	1979.0	1979^{+22}_{-22}
$\Omega_c h^2$	0.11929	$0.1192^{+0.0024}_{-0.0024}$	$\sigma_8 \Omega_m^{0.25}$	0.6056	$0.605^{+0.015}_{-0.015}$	$H(0.61)$	95.413	$95.40^{+0.48}_{-0.46}$
$100\theta_{MC}$	1.04101	$1.04101^{+0.00074}_{-0.00072}$	$\sigma_8/h^{0.5}$	0.9859	$0.985^{+0.021}_{-0.022}$	$D_M(0.61)$	2303.0	2303^{+24}_{-24}
τ	0.0566	$0.056^{+0.020}_{-0.019}$	$r_{drag} h$	99.65	$99.7^{+1.9}_{-1.9}$	$H(2.33)$	236.18	$236.1^{+1.5}_{-1.5}$
$\ln(10^{10} A_s)$	3.0484	$3.046^{+0.039}_{-0.037}$	$\langle d^2 \rangle^{1/2}$	2.437	$2.435^{+0.053}_{-0.053}$	$D_M(2.33)$	5757.5	5759^{+22}_{-23}
n_s	0.9680	$0.9675^{+0.0096}_{-0.0097}$	z_{re}	7.89	$7.8^{+1.9}_{-2.0}$	$f\sigma_8(0.15)$	0.4568	$0.456^{+0.014}_{-0.014}$
r	0.000	< 0.161	$10^9 A_s$	2.108	$2.104^{+0.082}_{-0.077}$	$\sigma_8(0.15)$	0.7496	$0.749^{+0.015}_{-0.014}$
y_{cal}	1.0008	$1.0008^{+0.0065}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	1.8825	$1.880^{+0.028}_{-0.026}$	$f\sigma_8(0.38)$	0.4753	$0.475^{+0.012}_{-0.012}$
A_{217}^{CIB}	45.7	46^{+20}_{-20}	D_{40}	1226.5	1241^{+50}_{-35}	$\sigma_8(0.38)$	0.6646	$0.664^{+0.013}_{-0.012}$
$\xi^{tSZ \times CIB}$	0.67	—	D_{220}	5739	5735^{+100}_{-94}	$f\sigma_8(0.51)$	0.4740	$0.473^{+0.011}_{-0.011}$
A_{143}^{tSZ}	7.06	> 1.08	D_{810}	2542.8	2540^{+35}_{-34}	$\sigma_8(0.51)$	0.6220	$0.621^{+0.012}_{-0.011}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{1420}	819.6	818^{+12}_{-12}	$f\sigma_8(0.61)$	0.4691	$0.468^{+0.010}_{-0.010}$
A_{143}^{PS}	50.2	45^{+20}_{-20}	D_{2000}	231.78	$231.3^{+3.9}_{-4.0}$	$\sigma_8(0.61)$	0.5919	$0.591^{+0.012}_{-0.011}$
$A_{143 \times 217}^{PS}$	52.9	42^{+20}_{-20}	$n_{s,0.002}$	0.9680	$0.9675^{+0.0096}_{-0.0097}$	$f\sigma_8(2.33)$	0.2985	$0.2981^{+0.0060}_{-0.0057}$
A_{217}^{PS}	122.0	115^{+30}_{-30}	Y_P	0.245425	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3077	$0.3073^{+0.0063}_{-0.0059}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246752	$0.24674^{+0.00013}_{-0.00014}$	$r_{0.002}$	0.000	< 0.156
A_{100}^{dustTT}	8.82	$8.9^{+4.6}_{-4.8}$	$10^5 D/H$	2.571	$2.577^{+0.065}_{-0.062}$	$r_{0.01}$	0.000	< 0.160
A_{143}^{dustTT}	11.04	$10.8^{+4.8}_{-4.5}$	Age/Gyr	13.784	$13.787^{+0.051}_{-0.051}$	$\ln(10^{10} A_t)$	-7.83	$-0.6^{+2.1}_{-4.1}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.6^{+8.3}_{-8.5}$	z_*	1089.76	$1089.79^{+0.55}_{-0.53}$	r_{10}	0.0000	< 0.0809
A_{217}^{dustTT}	95.8	94^{+20}_{-20}	r_*	144.56	$144.59^{+0.57}_{-0.57}$	$10^9 A_t$	0.000	< 0.338
A_{100}^{dustTE}	0.114	$0.114^{+0.096}_{-0.10}$	$100\theta_*$	1.04119	$1.04119^{+0.00074}_{-0.00071}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.301
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.075}_{-0.077}$	$D_M(z_*)/\text{Gpc}$	13.884	$13.887^{+0.055}_{-0.055}$	f_{2000}^{143}	28.3	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.478	$0.48^{+0.23}_{-0.22}$	z_{drag}	1060.05	$1059.99^{+0.74}_{-0.74}$	$f_{2000}^{143 \times 217}$	31.68	32^{+5}_{-5}
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.14}$	r_{drag}	147.20	$147.24^{+0.60}_{-0.59}$	f_{2000}^{217}	106.33	$106.8^{+4.5}_{-4.4}$
$A_{143 \times 217}^{dustTE}$	0.665	$0.67^{+0.22}_{-0.21}$	k_D	0.14082	$0.14075^{+0.00071}_{-0.00071}$	$\chi^2_{lensing}$	8.72	$9.14 (\nu: 0.2)$
A_{217}^{dustTE}	2.08	$2.08^{+0.70}_{-0.70}$	$100\theta_D$	0.160689	$0.16073^{+0.00044}_{-0.00044}$	χ^2_{small}	396	$1296 (\nu: 477802.7)$
c_{100}	0.99975	$0.9997^{+0.0017}_{-0.0016}$	z_{eq}	3387	3385^{+55}_{-55}	χ^2_{lowl}	22.95	$24.5 (\nu: 1.1)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0015}$	k_{eq}	0.010337	$0.01033^{+0.00017}_{-0.00017}$	χ^2_{plik}	2345	$1461 (\nu: 477551.6)$
H_0	67.70	$67.7^{+1.1}_{-1.1}$	$100\theta_{eq}$	0.8163	$0.817^{+0.011}_{-0.010}$	χ^2_{6DF}	0.029	$0.050 (\nu: 0.0)$
Ω_Λ	0.6893	$0.689^{+0.015}_{-0.015}$	$100\theta_{s,eq}$	0.4509	$0.4511^{+0.0054}_{-0.0052}$	χ^2_{MGS}	1.22	$1.28 (\nu: 0.1)$
Ω_m	0.3107	$0.311^{+0.015}_{-0.015}$	$H(0.15)$	72.97	$72.97^{+0.95}_{-0.93}$	$\chi^2_{DR12BAO}$	4.43	$4.8 (\nu: 0.8)$
$\Omega_m h^2$	0.14238	$0.1423^{+0.0023}_{-0.0023}$	$D_M(0.15)$	640.4	$640.5^{+9.3}_{-9.2}$	χ^2_{prior}	1.6	$11.6 (\nu: 10.6)$
$\Omega_m h^3$	0.09639	$0.09632^{+0.00074}_{-0.00075}$	$H(0.38)$	83.08	$83.07^{+0.70}_{-0.68}$	χ^2_{CMB}	2773.4	$2790.4 (\nu: 17.4)$
σ_8	0.8112	$0.810^{+0.016}_{-0.015}$	$D_M(0.38)$	1527.6	1528^{+19}_{-19}	χ^2_{BAO}	5.68	$6.1 (\nu: 0.5)$
S_8	0.8255	$0.824^{+0.027}_{-0.028}$	$H(0.51)$	89.80	$89.78^{+0.57}_{-0.55}$			

Best-fit $\chi^2_{eff} = 2780.69$; $\bar{\chi}^2_{eff} = 2808.06$; $R - 1 = 0.01525$
 χ^2_{eff} : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.43 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.72 small_100x143.offlike5_EE_Aplanck_B: 396.49 commander_dx12.v3.2.29: 22.95 plik_rd12_HM.v22b_TTTEEE: 2345.28

17.35 base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00037}_{-0.00037}$	S_8	$0.831^{+0.033}_{-0.033}$	$D_M(0.38)$	1532^{+23}_{-23}
$\Omega_c h^2$	$0.1198^{+0.0030}_{-0.0031}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.018}$	$H(0.51)$	$89.65^{+0.70}_{-0.66}$
$100\theta_{MC}$	$1.04093^{+0.00077}_{-0.00076}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.016}_{-0.016}$	$D_M(0.51)$	1985^{+27}_{-28}
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.023}$	$H(0.61)$	$95.30^{+0.57}_{-0.54}$
$\ln(10^{10} A_s)$	$3.045^{+0.038}_{-0.028}$	$r_{\text{drag}} h$	$99.2^{+2.4}_{-2.3}$	$D_M(0.61)$	2309^{+29}_{-30}
n_s	$0.966^{+0.011}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.054}_{-0.054}$	$H(2.33)$	$236.5^{+1.8}_{-1.8}$
r	< 0.153	z_{re}	< 9.43	$D_M(2.33)$	5763^{+25}_{-26}
y_{cal}	$1.0006^{+0.0063}_{-0.0060}$	$10^9 A_s$	$2.102^{+0.082}_{-0.058}$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.882^{+0.029}_{-0.026}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1243^{+48}_{-35}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.5}$	D_{220}	5730^{+100}_{-97}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.010}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2539^{+35}_{-33}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0091}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{2000}	$231.0^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.966^{+0.011}_{-0.010}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0086}$
A^{kSZ}	—	Y_P	$0.24540^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.2979^{+0.0058}_{-0.0043}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P^{BBN}	$0.24672^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.3071^{+0.0063}_{-0.0046}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.6}$	10^5D/H	$2.585^{+0.069}_{-0.067}$	$r_{0.002}$	< 0.147
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.5}$	Age/Gyr	$13.796^{+0.057}_{-0.058}$	$r_{0.01}$	< 0.150
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.90^{+0.64}_{-0.63}$	$\ln(10^{10} A_t)$	$-0.6^{+2.2}_{-4.2}$
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.097}$	r_*	$144.47^{+0.69}_{-0.67}$	r_{10}	< 0.0759
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.077}$	$100\theta_*$	$1.04111^{+0.00076}_{-0.00075}$	$10^9 A_t$	< 0.322
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.877^{+0.064}_{-0.062}$	$10^9 A_t e^{-2\tau}$	< 0.288
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	z_{drag}	$1059.94^{+0.76}_{-0.77}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.13^{+0.69}_{-0.67}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTE}	$2.09^{+0.68}_{-0.72}$	k_D	$0.14083^{+0.00076}_{-0.00077}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.5}$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16076^{+0.00044}_{-0.00043}$	χ_{lensing}^2	$9.22 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3398^{+68}_{-69}	χ_{simall}^2	$397.2 (\nu: 1.6)$
H_0	$67.4^{+1.4}_{-1.4}$	k_{eq}	$0.01037^{+0.00021}_{-0.00021}$	χ_{lowl}^2	$24.7 (\nu: 1.2)$
Ω_Λ	$0.686^{+0.019}_{-0.019}$	$100\theta_{\text{eq}}$	$0.814^{+0.013}_{-0.013}$	χ_{plik}^2	$2359.1 (\nu: 15.8)$
Ω_m	$0.314^{+0.019}_{-0.019}$	$100\theta_{s,\text{eq}}$	$0.4498^{+0.0069}_{-0.0065}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
$\Omega_m h^2$	$0.1428^{+0.0028}_{-0.0029}$	$H(0.15)$	$72.7^{+1.2}_{-1.2}$	χ_{CMB}^2	$2790.2 (\nu: 17.6)$
$\Omega_m h^3$	$0.09631^{+0.00073}_{-0.00073}$	$D_M(0.15)$	643^{+12}_{-12}		
σ_8	$0.811^{+0.015}_{-0.014}$	$H(0.38)$	$82.90^{+0.88}_{-0.84}$		

$$\bar{\chi}_{\text{eff}}^2 = 2801.72; R - 1 = 0.00705$$

17.36 base_r_plikHM_TTTEEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02242^{+0.00035}_{-0.00034}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.51)$	1979^{+22}_{-22}
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0024}_{-0.0024}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.014}_{-0.014}$	$H(0.61)$	$95.40^{+0.47}_{-0.45}$
$100\theta_{\mathrm{MC}}$	$1.04101^{+0.00074}_{-0.00072}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.61)$	2303^{+23}_{-23}
τ	$0.057^{+0.019}_{-0.015}$	$r_{\mathrm{drag}}h$	$99.7^{+1.9}_{-1.8}$	$H(2.33)$	$236.1^{+1.5}_{-1.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.038}_{-0.029}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.052}_{-0.048}$	$D_{\mathrm{M}}(2.33)$	5759^{+22}_{-23}
n_{s}	$0.9676^{+0.0095}_{-0.0096}$	z_{re}	< 9.56	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014}$
r	< 0.162	$10^9 A_{\mathrm{s}}$	$2.106^{+0.081}_{-0.061}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
y_{cal}	$1.0008^{+0.0064}_{-0.0061}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.028}_{-0.025}$	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{217}^{CIB}	46^{+20}_{-20}	D_{40}	1241^{+50}_{-34}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{220}	5734^{+110}_{-93}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
A_{143}^{tSZ}	> 1.08	D_{810}	2540^{+35}_{-33}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0094}$
A_{100}^{PS}	258^{+70}_{-70}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.61)$	$0.4686^{+0.0098}_{-0.0096}$
A_{143}^{PS}	45^{+20}_{-20}	D_{2000}	$231.3^{+3.8}_{-4.0}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0089}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.9676^{+0.0095}_{-0.0096}$	$f\sigma_8(2.33)$	$0.2982^{+0.0058}_{-0.0045}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3075^{+0.0061}_{-0.0049}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$r_{0.002}$	< 0.158
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.6}_{-4.8}$	$10^5\mathrm{D}/\mathrm{H}$	$2.577^{+0.065}_{-0.062}$	$r_{0.01}$	< 0.161
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.787^{+0.051}_{-0.051}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.6^{+2.1}_{-4.1}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.3}_{-8.5}$	z_{*}	$1089.79^{+0.55}_{-0.53}$	r_{10}	< 0.0815
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	r_{*}	$144.60^{+0.57}_{-0.56}$	$10^9 A_{\mathrm{t}}$	< 0.342
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.096}_{-0.10}$	$100\theta_{*}$	$1.04119^{+0.00073}_{-0.00071}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.306
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.078}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.888^{+0.055}_{-0.054}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.23}_{-0.22}$	z_{drag}	$1059.99^{+0.74}_{-0.75}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.13}$	r_{drag}	$147.25^{+0.60}_{-0.59}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.4}$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.22}_{-0.20}$	k_{D}	$0.14074^{+0.00070}_{-0.00072}$	$\chi_{\mathrm{lensing}}^2$	$9.12 (\nu: 0.1)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.70}$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00044}_{-0.00044}$	χ_{simall}^2	$1291 (\nu: 477329.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3385^{+54}_{-55}	χ_{lowl}^2	$24.5 (\nu: 1.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	k_{eq}	$0.01033^{+0.00017}_{-0.00017}$	χ_{plik}^2	$1466 (\nu: 477098.3)$
H_0	$67.7^{+1.1}_{-1.1}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010}$	$\chi_{6\mathrm{DF}}^2$	$0.049 (\nu: 0.0)$
Ω_{Λ}	$0.690^{+0.014}_{-0.015}$	$100\theta_{\mathrm{s,eq}}$	$0.4511^{+0.0054}_{-0.0052}$	χ_{MGS}^2	$1.29 (\nu: 0.1)$
Ω_{m}	$0.310^{+0.015}_{-0.014}$	$H(0.15)$	$72.97^{+0.94}_{-0.92}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 0.8)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0023}_{-0.0023}$	$D_{\mathrm{M}}(0.15)$	$640.5^{+9.2}_{-9.2}$	χ_{prior}^2	$11.6 (\nu: 10.5)$
$\Omega_{\mathrm{m}}h^3$	$0.09632^{+0.00073}_{-0.00075}$	$H(0.38)$	$83.07^{+0.70}_{-0.68}$	χ_{CMB}^2	$2790.2 (\nu: 17.2)$
σ_8	$0.810^{+0.016}_{-0.013}$	$D_{\mathrm{M}}(0.38)$	1528^{+18}_{-19}	χ_{BAO}^2	$6.05 (\nu: 0.5)$
S_8	$0.824^{+0.027}_{-0.027}$	$H(0.51)$	$89.78^{+0.57}_{-0.55}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.89; R - 1 = 0.01530$$

17.37 base_r_CamSpecHM_TTTEE_lowl_lowE_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.022281	$0.02230^{+0.00041}_{-0.00040} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6059	$0.605^{+0.017}_{-0.017} \quad (-0.3\sigma)$	$H(0.51)$	89.57	$89.62^{+0.73}_{-0.70} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	0.11978	$0.1195^{+0.0031}_{-0.0032} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9858	$0.985^{+0.024}_{-0.024} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	1986.9	$1985^{+28}_{-28} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	1.04085	$1.04088^{+0.00078}_{-0.00079} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	99.15	$99.4^{+2.5}_{-2.4} \quad (+0.2\sigma)$	$H(0.61)$	95.21	$95.25^{+0.60}_{-0.56} \quad (-0.2\sigma)$
τ	0.0528	$0.054^{+0.019}_{-0.020} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.437	$2.433^{+0.055}_{-0.057} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	2311.6	$2309^{+30}_{-31} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	3.0394	$3.041^{+0.037}_{-0.038} \quad (-0.2\sigma)$	z_{re}	7.54	$7.6^{+1.8}_{-2.2} \quad (-0.0\sigma)$	$H(2.33)$	236.32	$236.2^{+1.8}_{-1.9} \quad (-0.4\sigma)$
n_{s}	0.9654	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	2.089	$2.092^{+0.078}_{-0.078} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	5767.8	$5766^{+27}_{-27} \quad (+0.3\sigma)$
r	0.002	$< 0.184 \quad (+0.5\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8800	$1.878^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4581	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	1.0005	$1.0006^{+0.0062}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	1228.2	$1244^{+54}_{-41} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	0.7472	$0.747^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{PS}	234	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	5720	$5715^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4757	$0.475^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	39.8	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	2535.9	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6620	$0.662^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	101.8	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	815.8	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4739	$0.473^{+0.012}_{-0.012} \quad (-0.4\sigma)$
A_{217}^{CIB}	44.7	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.25	$230.5^{+4.3}_{-4.1} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	0.6193	$0.620^{+0.011}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{tSZ}	6.62	$< 8.90 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	0.9654	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	0.4687	$0.468^{+0.011}_{-0.011} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.597	$0.66^{+0.31}_{-0.34}$	Y_{P}	0.245359	$0.24537^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	0.5892	$0.590^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.78	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246686	$0.24669^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	0.2970	$0.2972^{+0.0056}_{-0.0058} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.09	—	$10^5 \mathrm{D}/\mathrm{H}$	2.602	$2.599^{+0.076}_{-0.074} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3060	$0.3063^{+0.0061}_{-0.0063} \quad (-0.2\sigma)$
A^{kSZ}	0.0	—	Age/Gyr	13.807	$13.804^{+0.060}_{-0.060} \quad (+0.3\sigma)$	$r_{0.002}$	0.002	$< 0.181 \quad (+0.5\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.49}_{-0.51}$	z_*	1090.02	$1089.97^{+0.67}_{-0.68} \quad (+0.2\sigma)$	$r_{0.01}$	0.002	$< 0.183 \quad (+0.5\sigma)$
A_{143}^{dust}	0.973	$0.96^{+0.45}_{-0.45}$	r_*	144.56	$144.61^{+0.74}_{-0.70} \quad (+0.6\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	-3.19	$-0.2^{+1.9}_{-3.9} \quad (+0.4\sigma)$
A_{217}^{dust}	0.969	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	1.04105	$1.04107^{+0.00077}_{-0.00077} \quad (-0.1\sigma)$	r_{10}	0.0009	$< 0.0937 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.007	$1.03^{+0.42}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.886	$13.891^{+0.069}_{-0.065} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}}$	0.004	$< 0.386 \quad (+0.5\sigma)$
c_{100}	0.99766	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	1059.70	$1059.74^{+0.84}_{-0.83} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	0.004	$< 0.346 \quad (+0.5\sigma)$
c_{217}	1.00131	$1.0011^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	147.25	$147.30^{+0.74}_{-0.72} \quad (+0.7\sigma)$	f_{2000}^{143}	30.2	$29^{+7}_{-7} \quad (+0.0\sigma)$
c_{TE}	0.9965	$0.997^{+0.013}_{-0.012}$	k_{D}	0.14063	$0.14059^{+0.00083}_{-0.00084} \quad (-0.8\sigma)$	f_{2000}^{217}	106.93	$106.7^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{EE}	0.9923	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	0.16088	$0.16087^{+0.00050}_{-0.00050} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	32.3	$32^{+5}_{-5} \quad (-0.1\sigma)$
H_0	67.34	$67.5^{+1.4}_{-1.4} \quad (+0.1\sigma)$	z_{eq}	3395	$3389^{+69}_{-73} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	8.86	$9.38 \quad (\nu: 0.3) \quad (+0.2\sigma)$
Ω_{Λ}	0.6853	$0.687^{+0.019}_{-0.019} \quad (+0.2\sigma)$	k_{eq}	0.010361	$0.01034^{+0.00021}_{-0.00022} \quad (-0.4\sigma)$	χ_{small}^2	395.87	$397.2 \quad (\nu: 1.3) \quad (-0.0\sigma)$
Ω_{m}	0.3147	$0.313^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	0.8143	$0.815^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ_{lowl}^2	23.23	$25.0 \quad (\nu: 1.7) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	0.14271	$0.1425^{+0.0029}_{-0.0030} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4500	$0.4506^{+0.0071}_{-0.0066} \quad (+0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11499.4	$11512.9 \quad (\nu: 15.1)$
$\Omega_{\mathrm{m}} h^3$	0.09609	$0.09609^{+0.00081}_{-0.00079} \quad (-0.8\sigma)$	$H(0.15)$	72.65	$72.8^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{prior}^2	2.2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
σ_8	0.8089	$0.809^{+0.015}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	643.6	$643^{+12}_{-12} \quad (-0.1\sigma)$	χ_{CMB}^2	11927.4	$11944.5 \quad (\nu: 17.2) \quad (+1522.3\sigma)$
S_8	0.8286	$0.826^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$H(0.38)$	82.82	$82.89^{+0.90}_{-0.87} \quad (+0.0\sigma)$			
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4538	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	1534.2	$1532^{+24}_{-24} \quad (-0.1\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 11929.59$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.96$; $\bar{\chi}_{\mathrm{eff}}^2 = 11952.27$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.31$; $R - 1 = 0.00977$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.86 (Δ 0.02) simall_100x143_offlike5_EE_Aplanck_B: 395.87 (Δ -0.18) commander_dx12.v3.2_29: 23.23 (Δ 0.03) CamSpec like_10.7HM_1400_unified: 11499.43

17.38 base_r_CamSpecHM_TTTEE_lowl_lowE_lensing_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00039}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.61)$	$95.34^{+0.49}_{-0.47} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0024}_{-0.0025} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+1.9}_{-1.9} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+24}_{-24} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.053}_{-0.054} \quad (-0.4\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.4\sigma)$
τ	$0.055^{+0.019}_{-0.019} \quad (-0.1\sigma)$	z_{re}	$7.7^{+1.8}_{-2.0} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-23} \quad (+0.4\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.037}_{-0.037} \quad (-0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.078}_{-0.077} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
n_{s}	$0.968^{+0.010}_{-0.0099} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.027}_{-0.028} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.014}_{-0.014} \quad (-0.3\sigma)$
r	$< 0.191 \quad (+0.5\sigma)$	D_{40}	$1243^{+55}_{-41} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012} \quad (-0.3\sigma)$
y_{cal}	$1.0007^{+0.0062}_{-0.0061} \quad (-0.0\sigma)$	D_{220}	$5719^{+98}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2536^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.011}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.7^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.010}_{-0.0099} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0056}_{-0.0057} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.31}_{-0.34}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	$0.3068^{+0.0060}_{-0.0062} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.071}_{-0.070} \quad (+0.6\sigma)$	$r_{0.002}$	$< 0.187 \quad (+0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.053}_{-0.053} \quad (+0.5\sigma)$	$r_{0.01}$	$< 0.188 \quad (+0.5\sigma)$
A^{kSZ}	—	z_*	$1089.88^{+0.59}_{-0.59} \quad (+0.4\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+1.9}_{-3.9} \quad (+0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	r_*	$144.72^{+0.61}_{-0.58} \quad (+0.6\sigma)$	r_{10}	$< 0.0967 \quad (+0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	$100\theta_*$	$1.04113^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.399 \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.28}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.059}_{-0.056} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.358 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	z_{drag}	$1059.78^{+0.84}_{-0.80} \quad (-0.7\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	r_{drag}	$147.40^{+0.64}_{-0.62} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.6^{+4.8}_{-4.8} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0043}_{-0.0040} \quad (+4.6\sigma)$	k_{D}	$0.14052^{+0.00079}_{-0.00079} \quad (-0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00048}_{-0.00049} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.40 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	z_{eq}	$3377^{+55}_{-56} \quad (-0.4\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.5) \quad (-0.9\sigma)$
H_0	$67.7^{+1.1}_{-1.1} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{lowl}^2	$24.8 \quad (\nu: 1.7) \quad (+0.2\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.015} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.9 \quad (\nu: 15.0)$
Ω_{m}	$0.310^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0056}_{-0.0053} \quad (+0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.043 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0023}_{-0.0024} \quad (-0.4\sigma)$	$H(0.15)$	$72.95^{+0.98}_{-0.93} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.34 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00082}_{-0.00080} \quad (-0.8\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.6^{+9.3}_{-9.5} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.7) \quad (-0.1\sigma)$
σ_8	$0.808^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.04^{+0.73}_{-0.69} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.821^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+19}_{-19} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.4 \quad (\nu: 16.8) \quad (+1551.6\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.51)$	$89.74^{+0.59}_{-0.56} \quad (-0.2\sigma)$	χ_{BAO}^2	$5.95 \quad (\nu: 0.4) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+22}_{-23} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11958.11$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.04$; $R - 1 = 0.01271$

17.39 base_r_CamSpecHM_TTTEE_lowl_lowE_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00040}_{-0.00040} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.016}_{-0.017} \quad (-0.3\sigma)$	$H(0.51)$	$89.64^{+0.72}_{-0.67} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0030}_{-0.0032} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1984^{+27}_{-28} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04088^{+0.00078}_{-0.00079} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.4^{+2.5}_{-2.3} \quad (+0.2\sigma)$	$H(0.61)$	$95.26^{+0.59}_{-0.55} \quad (-0.2\sigma)$
τ	$0.055^{+0.017}_{-0.013} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.054}_{-0.057} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2309^{+29}_{-30} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.035}_{-0.028} \quad (-0.2\sigma)$	z_{re}	$< 9.31 \quad (-0.0\sigma)$	$H(2.33)$	$236.1^{+1.8}_{-1.9} \quad (-0.5\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.075}_{-0.057} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5766^{+27}_{-27} \quad (+0.3\sigma)$
r	$< 0.184 \quad (+0.5\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0063} \quad (-0.0\sigma)$	D_{40}	$1244^{+54}_{-41} \quad (+0.1\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5715^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.0098} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.5^{+4.2}_{-4.1} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.011}_{-0.0090} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.91 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.011} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.34}$	Y_{P}	$0.24537^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.010}_{-0.0085} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0054}_{-0.0043} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.599^{+0.076}_{-0.073} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0059}_{-0.0046} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.803^{+0.060}_{-0.060} \quad (+0.3\sigma)$	$r_{0.002}$	$< 0.181 \quad (+0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	z_*	$1089.96^{+0.67}_{-0.67} \quad (+0.2\sigma)$	$r_{0.01}$	$< 0.183 \quad (+0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$144.62^{+0.73}_{-0.69} \quad (+0.6\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+1.9}_{-3.9} \quad (+0.4\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	$1.04107^{+0.00076}_{-0.00078} \quad (-0.1\sigma)$	r_{10}	$< 0.0936 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.069}_{-0.065} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.386 \quad (+0.5\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.74^{+0.84}_{-0.84} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.346 \quad (+0.5\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	$147.31^{+0.74}_{-0.71} \quad (+0.7\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14058^{+0.00082}_{-0.00084} \quad (-0.8\sigma)$	f_{2000}^{217}	$106.7^{+4.8}_{-4.9} \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16086^{+0.00049}_{-0.00050} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
H_0	$67.5^{+1.4}_{-1.3} \quad (+0.1\sigma)$	z_{eq}	$3388^{+69}_{-72} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.32 \quad (\nu: 0.3) \quad (+0.2\sigma)$
Ω_{Λ}	$0.687^{+0.019}_{-0.019} \quad (+0.2\sigma)$	k_{eq}	$0.01034^{+0.00021}_{-0.00022} \quad (-0.4\sigma)$	χ_{simall}^2	$397.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$
Ω_{m}	$0.313^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ_{lowl}^2	$25.0 \quad (\nu: 1.7) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0029}_{-0.0030} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0071}_{-0.0065} \quad (+0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.8 \quad (\nu: 15.0)$
$\Omega_{\mathrm{m}} h^3$	$0.09609^{+0.00081}_{-0.00080} \quad (-0.8\sigma)$	$H(0.15)$	$72.8^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.7) \quad (-0.8\sigma)$
σ_8	$0.809^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+12}_{-12} \quad (-0.1\sigma)$	χ_{CMB}^2	$11944.3 \quad (\nu: 16.8) \quad (+1544.9\sigma)$
S_8	$0.827^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$H(0.38)$	$82.91^{+0.90}_{-0.84} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1532^{+23}_{-24} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11952.03$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.31$; $R - 1 = 0.00998$

17.40 base_r_CamSpecHM_TTTEE_lowl_lowE_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$H(0.61)$	$95.34^{+0.49}_{-0.47} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0024}_{-0.0025} \quad (-0.3\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+1.9}_{-1.8} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+23}_{-24} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00073}_{-0.00076} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.428^{+0.053}_{-0.051} \quad (-0.4\sigma)$	$H(2.33)$	$235.8^{+1.5}_{-1.6} \quad (-0.5\sigma)$
τ	$0.056^{+0.017}_{-0.014} \quad (-0.1\sigma)$	z_{re}	$< 9.38 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-23} \quad (+0.4\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.036}_{-0.029} \quad (-0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.076}_{-0.059} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
n_{s}	$0.9683^{+0.0099}_{-0.0099} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.013}_{-0.012} \quad (-0.3\sigma)$
r	$< 0.192 \quad (+0.5\sigma)$	D_{40}	$1243^{+54}_{-41} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012} \quad (-0.3\sigma)$
y_{cal}	$1.0007^{+0.0061}_{-0.0061} \quad (-0.0\sigma)$	D_{220}	$5719^{+98}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.012}_{-0.010} \quad (-0.3\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2536^{+33}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	D_{1420}	$817^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.011}_{-0.0093} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{2000}	$230.7^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.4674^{+0.0098}_{-0.0097} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.9683^{+0.0099}_{-0.0099} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.010}_{-0.0088} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0054}_{-0.0045} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.67^{+0.30}_{-0.34}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0058}_{-0.0047} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.072}_{-0.069} \quad (+0.6\sigma)$	$r_{0.002}$	$< 0.188 \quad (+0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.795^{+0.053}_{-0.053} \quad (+0.4\sigma)$	$r_{0.01}$	$< 0.190 \quad (+0.5\sigma)$
A^{kSZ}	—	z_*	$1089.87^{+0.59}_{-0.58} \quad (+0.4\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.2^{+1.9}_{-3.9} \quad (+0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	r_*	$144.73^{+0.61}_{-0.57} \quad (+0.6\sigma)$	r_{10}	$< 0.0967 \quad (+0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	$100\theta_*$	$1.04114^{+0.00073}_{-0.00075} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.399 \quad (+0.5\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.28}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.059}_{-0.056} \quad (+0.6\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.359 \quad (+0.5\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.40}$	z_{drag}	$1059.79^{+0.83}_{-0.81} \quad (-0.7\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	r_{drag}	$147.40^{+0.64}_{-0.61} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.5^{+4.8}_{-4.8} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0043}_{-0.0040} \quad (+4.6\sigma)$	k_{D}	$0.14051^{+0.00079}_{-0.00078} \quad (-0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00047}_{-0.00048} \quad (+0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.34 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.013}$	z_{eq}	$3377^{+55}_{-58} \quad (-0.4\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 1.5) \quad (-0.9\sigma)$
H_0	$67.7^{+1.1}_{-1.1} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00018} \quad (-0.4\sigma)$	χ_{lowl}^2	$24.8 \quad (\nu: 1.7) \quad (+0.2\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.015} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.8 \quad (\nu: 14.9)$
Ω_{m}	$0.310^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4518^{+0.0056}_{-0.0053} \quad (+0.3\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.042 \quad (\nu: 0.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0023}_{-0.0024} \quad (-0.4\sigma)$	$H(0.15)$	$72.97^{+0.97}_{-0.92} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.35 \quad (\nu: 0.1) \quad (+0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09610^{+0.00081}_{-0.00080} \quad (-0.8\sigma)$	$D_{\mathrm{M}}(0.15)$	$640.5^{+9.2}_{-9.4} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.7) \quad (-0.1\sigma)$
σ_8	$0.809^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.38)$	$83.04^{+0.73}_{-0.68} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.8\sigma)$
S_8	$0.822^{+0.027}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+18}_{-19} \quad (+0.0\sigma)$	χ_{CMB}^2	$11944.3 \quad (\nu: 16.5) \quad (+1560.9\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.51)$	$89.74^{+0.59}_{-0.55} \quad (-0.2\sigma)$	χ_{BAO}^2	$5.92 \quad (\nu: 0.4) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.014}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+22}_{-22} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.91; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.02; R - 1 = 0.01331$$

17.41 base_r_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02209	$0.02212^{+0.00057}_{-0.00055}$	$\langle d^2 \rangle^{1/2}$	2.447	$2.44^{+0.10}_{-0.099}$	$D_M(0.51)$	1994.3	1992^{+48}_{-48}
$\Omega_c h^2$	0.1203	$0.1201^{+0.0055}_{-0.0054}$	z_{re}	7.55	$7.5^{+2.1}_{-2.4}$	$H(0.61)$	95.02	$95.07^{+0.97}_{-0.88}$
$100\theta_{\text{MC}}$	1.04082	$1.0408^{+0.0012}_{-0.0013}$	$10^9 A_s$	2.087	$2.083^{+0.094}_{-0.091}$	$D_M(0.61)$	2320	2317^{+51}_{-52}
τ	0.0524	$0.052^{+0.022}_{-0.021}$	$10^9 A_s e^{-2\tau}$	1.8796	$1.878^{+0.035}_{-0.035}$	$H(2.33)$	236.44	$236.3^{+3.4}_{-3.3}$
$\ln(10^{10} A_s)$	3.0384	$3.036^{+0.044}_{-0.045}$	D_{40}	1230.7	1243^{+53}_{-44}	$D_M(2.33)$	5777.7	5776^{+42}_{-43}
n_s	0.9629	$0.964^{+0.015}_{-0.015}$	D_{220}	5704	5704^{+110}_{-110}	$f\sigma_8(0.15)$	0.4612	$0.460^{+0.032}_{-0.032}$
r	0.000	< 0.154	D_{810}	2531.5	2531^{+37}_{-36}	$\sigma_8(0.15)$	0.7479	$0.747^{+0.019}_{-0.020}$
y_{cal}	1.0003	$1.0004^{+0.0064}_{-0.0066}$	D_{1420}	812.7	813^{+14}_{-14}	$f\sigma_8(0.38)$	0.4780	$0.477^{+0.025}_{-0.026}$
A_{100}^{PS}	254	255^{+70}_{-70}	D_{2000}	228.92	$229.0^{+4.9}_{-4.9}$	$\sigma_8(0.38)$	0.6622	$0.661^{+0.016}_{-0.016}$
A_{143}^{tSZ}	5.77	< 8.83	$n_{s,0.002}$	0.9629	$0.964^{+0.015}_{-0.015}$	$f\sigma_8(0.51)$	0.4757	$0.474^{+0.021}_{-0.022}$
A^{kSZ}	1.0	—	Y_P	0.245278	$0.24529^{+0.00023}_{-0.00026}$	$\sigma_8(0.51)$	0.6194	$0.619^{+0.015}_{-0.015}$
A_{100}^{dust}	1.00	$1.00^{+0.51}_{-0.51}$	Y_P^{BBN}	0.246604	$0.24661^{+0.00023}_{-0.00026}$	$f\sigma_8(0.61)$	0.4702	$0.469^{+0.019}_{-0.019}$
A_{143}^{power}	12.2	$10.3^{+6.7}_{-5.6}$	10^5D/H	2.640	$2.63^{+0.11}_{-0.11}$	$\sigma_8(0.61)$	0.5891	$0.588^{+0.014}_{-0.014}$
A_{217}^{power}	11.3	$8.1^{+7.8}_{-4.6}$	Age/Gyr	13.830	$13.826^{+0.094}_{-0.095}$	$f\sigma_8(2.33)$	0.2968	$0.2964^{+0.0069}_{-0.0068}$
$A_{143 \times 217}^{\text{power}}$	7.5	< 10.6	z_*	1090.31	$1090.3^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	0.3057	$0.3054^{+0.0072}_{-0.0070}$
$\gamma_{143}^{\text{power}}$	1.31	> 0.365	r_*	144.58	$144.6^{+1.3}_{-1.2}$	$r_{0.002}$	0.000	< 0.147
$\gamma_{217}^{\text{power}}$	1.26	—	$100\theta_*$	1.04103	$1.0410^{+0.0012}_{-0.0013}$	$r_{0.01}$	0.000	< 0.151
$\gamma_{143 \times 217}^{\text{power}}$	1.20	—	$D_M(z_*)/\text{Gpc}$	13.888	$13.89^{+0.12}_{-0.12}$	$\ln(10^{10} A_t)$	-7.95	$-0.7^{+2.2}_{-4.1}$
c_{100}	0.99802	$0.9978^{+0.0027}_{-0.0029}$	z_{drag}	1059.28	$1059.3^{+1.2}_{-1.2}$	r_{10}	0.0000	< 0.0762
c_{217}	0.99913	$0.9994^{+0.0045}_{-0.0034}$	r_{drag}	147.34	$147.4^{+1.3}_{-1.3}$	$10^9 A_t$	0.000	< 0.321
H_0	66.99	$67.1^{+2.4}_{-2.3}$	k_D	0.14039	$0.1404^{+0.0014}_{-0.0014}$	$10^9 A_t e^{-2\tau}$	0.000	< 0.289
Ω_Λ	0.6814	$0.683^{+0.033}_{-0.035}$	$100\theta_D$	0.16113	$0.16110^{+0.00068}_{-0.00068}$	f_{2000}^{143}	23.7	23^{+8}_{-8}
Ω_m	0.3186	$0.317^{+0.035}_{-0.033}$	z_{eq}	3402	3397^{+130}_{-120}	f_{2000}^{217}	17.1	$16.8^{+5.1}_{-5.1}$
$\Omega_m h^2$	0.1430	$0.1428^{+0.0052}_{-0.0052}$	k_{eq}	0.010382	$0.01037^{+0.00038}_{-0.00038}$	$f_{2000}^{143 \times 217}$	11.6	$11.0^{+5.8}_{-5.4}$
$\Omega_m h^3$	0.09579	$0.0958^{+0.0012}_{-0.0011}$	$100\theta_{\text{eq}}$	0.8125	$0.813^{+0.024}_{-0.023}$	χ_{simall}^2	395.87	$397.0 (\nu: 1.3)$
σ_8	0.8101	$0.809^{+0.023}_{-0.024}$	$100\theta_{s,\text{eq}}$	0.4492	$0.450^{+0.012}_{-0.012}$	χ_{lowl}^2	23.60	$25.0 (\nu: 1.7)$
S_8	0.835	$0.832^{+0.064}_{-0.062}$	$H(0.15)$	72.34	$72.4^{+2.1}_{-2.0}$	χ_{CamSpec}^2	6704.4	$6716.7 (\nu: 13.8)$
$\sigma_8 \Omega_m^{0.5}$	0.4572	$0.456^{+0.035}_{-0.034}$	$D_M(0.15)$	646.6	646^{+21}_{-20}	χ_{prior}^2	1.2	$5.3 (\nu: 4.4)$
$\sigma_8 \Omega_m^{0.25}$	0.6086	$0.607^{+0.031}_{-0.031}$	$H(0.38)$	82.57	$82.6^{+1.5}_{-1.4}$	χ_{CMB}^2	7123.9	$7138.7 (\nu: 14.9)$
$\sigma_8/h^{0.5}$	0.9897	$0.987^{+0.042}_{-0.042}$	$D_M(0.38)$	1540.4	1539^{+41}_{-41}			
$r_{\text{drag}} h$	98.71	$98.9^{+4.3}_{-4.1}$	$H(0.51)$	89.35	$89.4^{+1.2}_{-1.1}$			

Best-fit $\chi_{\text{eff}}^2 = 7125.09$; $\bar{\chi}_{\text{eff}}^2 = 7144.04$; $R - 1 = 0.00760$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2_29: 23.60 CamSpec like_10.7cleaned: 6704.38

17.42 base_r_plikHM_TT_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02209	$0.02208^{+0.00057}_{-0.00055}$	σ_8	0.8156	$0.814^{+0.022}_{-0.023}$	$H(0.38)$	82.34	$82.4^{+1.4}_{-1.3}$
$\Omega_c h^2$	0.1213	$0.1212^{+0.0052}_{-0.0052}$	S_8	0.849	$0.846^{+0.061}_{-0.060}$	$D_M(0.38)$	1547.3	1546^{+39}_{-40}
$100\theta_{MC}$	1.04069	$1.0407^{+0.0012}_{-0.0012}$	$\sigma_8 \Omega_m^{0.5}$	0.4650	$0.463^{+0.033}_{-0.033}$	$H(0.51)$	89.19	$89.2^{+1.2}_{-1.0}$
τ	0.0527	$0.052^{+0.021}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	0.6158	$0.614^{+0.029}_{-0.029}$	$D_M(0.51)$	2002.3	2001^{+46}_{-47}
$\ln(10^{10} A_s)$	3.0439	$3.042^{+0.043}_{-0.042}$	$\sigma_8/h^{0.5}$	0.9996	$0.997^{+0.039}_{-0.040}$	$H(0.61)$	94.91	$94.93^{+0.92}_{-0.82}$
n_s	0.9624	$0.962^{+0.015}_{-0.014}$	$r_{drag} h$	97.90	$98.1^{+4.1}_{-3.9}$	$D_M(0.61)$	2328.2	2327^{+49}_{-50}
r	0.0117	< 0.0759	$\langle d^2 \rangle^{1/2}$	2.466	$2.463^{+0.096}_{-0.094}$	$H(2.33)$	237.15	$237.0^{+3.2}_{-3.2}$
y_{cal}	1.0006	$1.0007^{+0.0065}_{-0.0065}$	z_{re}	7.60	$7.5^{+2.1}_{-2.3}$	$D_M(2.33)$	5781.5	5781^{+39}_{-42}
$A_{B,dust}$	4.63	$4.9^{+3.2}_{-2.2}$	$10^9 A_s$	2.099	$2.096^{+0.092}_{-0.087}$	$f\sigma_8(0.15)$	0.4685	$0.467^{+0.030}_{-0.030}$
$A_{B,sync}$	1.48	< 4.94	$10^9 A_s e^{-2\tau}$	1.8887	$1.887^{+0.034}_{-0.034}$	$\sigma_8(0.15)$	0.7523	$0.751^{+0.019}_{-0.019}$
$\alpha_{B,dust}$	-0.54	—	D_{40}	1238.6	1245^{+41}_{-39}	$f\sigma_8(0.38)$	0.4838	$0.483^{+0.023}_{-0.024}$
$\beta_{B,dust}$	1.574	$1.60^{+0.25}_{-0.25}$	D_{220}	5708	5711^{+100}_{-110}	$\sigma_8(0.38)$	0.6654	$0.664^{+0.015}_{-0.015}$
$\alpha_{B,sync}$	-0.33	—	D_{810}	2539.7	2538^{+35}_{-35}	$f\sigma_8(0.51)$	0.4808	$0.480^{+0.020}_{-0.021}$
$\beta_{B,sync}$	-3.03	$-3.10^{+0.68}_{-0.73}$	D_{1420}	815.7	815^{+13}_{-13}	$\sigma_8(0.51)$	0.6221	$0.621^{+0.014}_{-0.014}$
$\epsilon_{dust,sync}$	-0.33	< 0.358	D_{2000}	230.03	$229.6^{+4.6}_{-4.6}$	$f\sigma_8(0.61)$	0.4748	$0.474^{+0.018}_{-0.018}$
A_{217}^{CIB}	48.7	48^{+20}_{-20}	$n_{s,0.002}$	0.9624	$0.962^{+0.015}_{-0.014}$	$\sigma_8(0.61)$	0.5916	$0.591^{+0.013}_{-0.013}$
$\xi^{tSZ \times CIB}$	0.31	—	Y_P	0.245281	$0.24527^{+0.00023}_{-0.00026}$	$f\sigma_8(2.33)$	0.2978	$0.2974^{+0.0067}_{-0.0064}$
A_{143}^{tSZ}	7.0	—	Y_P^{BBN}	0.246607	$0.24659^{+0.00023}_{-0.00026}$	$\sigma_8(2.33)$	0.3064	$0.3061^{+0.0071}_{-0.0067}$
A_{100}^{PS}	255	264^{+70}_{-70}	$10^5 D/H$	2.638	$2.64^{+0.11}_{-0.10}$	$r_{0.002}$	0.0104	< 0.0696
A_{143}^{PS}	49.4	49^{+20}_{-20}	Age/Gyr	13.838	$13.838^{+0.089}_{-0.094}$	$r_{0.01}$	0.0110	< 0.0726
$A_{143 \times 217}^{PS}$	46.8	44^{+20}_{-20}	z_*	1090.39	$1090.4^{+1.0}_{-1.0}$	$\ln(10^{10} A_t)$	-1.40	$-1.0^{+1.8}_{-3.6}$
A_{217}^{PS}	119.5	116^{+30}_{-30}	r_*	144.30	$144.4^{+1.2}_{-1.2}$	r_{10}	0.0053	< 0.0358
A^{kSZ}	0.0	—	$100\theta_*$	1.04090	$1.0409^{+0.0012}_{-0.0012}$	$10^9 A_t$	0.025	< 0.159
A_{100}^{dustTT}	8.79	$8.9^{+4.7}_{-4.8}$	$D_M(z_*)/\text{Gpc}$	13.863	$13.87^{+0.11}_{-0.11}$	$10^9 A_t e^{-2\tau}$	0.022	< 0.143
A_{143}^{dustTT}	10.79	$10.7^{+4.6}_{-4.7}$	z_{drag}	1059.40	$1059.3^{+1.2}_{-1.2}$	f_{2000}^{143}	30.4	31^{+8}_{-8}
$A_{143 \times 217}^{dustTT}$	19.3	$18.2^{+8.5}_{-8.6}$	r_{drag}	147.04	$147.1^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	33.3	34^{+5}_{-5}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	k_D	0.14070	$0.1406^{+0.0013}_{-0.0013}$	f_{2000}^{217}	107.76	$108.2^{+4.9}_{-4.9}$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16107	$0.16111^{+0.00069}_{-0.00067}$	$\chi_{BKPLANCK}^2$	734.9	$739.1 (\nu: 3.7)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3428	3423^{+120}_{-120}	χ_{small}^2	396.01	$397.1 (\nu: 1.4)$
H_0	66.58	$66.7^{+2.3}_{-2.2}$	k_{eq}	0.010462	$0.01045^{+0.00036}_{-0.00037}$	χ_{lowl}^2	24.26	$25.0 (\nu: 1.1)$
Ω_Λ	0.6750	$0.676^{+0.032}_{-0.034}$	$100\theta_{eq}$	0.8078	$0.809^{+0.023}_{-0.021}$	χ_{plik}^2	758.5	$771.1 (\nu: 14.1)$
Ω_m	0.3250	$0.324^{+0.034}_{-0.032}$	$100\theta_{s,eq}$	0.4467	$0.447^{+0.012}_{-0.011}$	χ_{prior}^2	1.5	$8.9 (\nu: 8.1)$
$\Omega_m h^2$	0.1441	$0.1439^{+0.0050}_{-0.0050}$	$H(0.15)$	72.00	$72.1^{+2.0}_{-1.9}$	χ_{CMB}^2	1913.6	$1932.3 (\nu: 19.0)$
$\Omega_m h^3$	0.09593	$0.0959^{+0.0012}_{-0.0011}$	$D_M(0.15)$	650.2	650^{+20}_{-20}			

Best-fit $\chi_{\text{eff}}^2 = 1915.08$; $\bar{\chi}_{\text{eff}}^2 = 1941.21$; $R - 1 = 0.00244$

χ_{eff}^2 : CMB - BK15_dust: 734.86 small_100x143_offlike5_EE_Aplanck_B: 396.01 commander_dx12_v3_2_29: 24.26 plik_rd12_HM_v22_TT: 758.48

17.43 base_r_plikHM_TT_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02219^{+0.00052}_{-0.00049}$	S_8	0.8252	$0.824^{+0.038}_{-0.038}$	$H(0.51)$	89.61	$89.61^{+0.75}_{-0.72}$
$\Omega_c h^2$	0.11926	$0.1191^{+0.0032}_{-0.0032}$	$\sigma_8 \Omega_m^{0.5}$	0.4520	$0.451^{+0.021}_{-0.021}$	$D_M(0.51)$	1983.9	1984^{+28}_{-28}
$100\theta_{MC}$	1.04096	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8 \Omega_m^{0.25}$	0.6048	$0.604^{+0.020}_{-0.021}$	$H(0.61)$	95.23	$95.23^{+0.63}_{-0.61}$
τ	0.0547	$0.055^{+0.021}_{-0.020}$	$\sigma_8/h^{0.5}$	0.9850	$0.984^{+0.029}_{-0.029}$	$D_M(0.61)$	2308.5	2308^{+30}_{-30}
$\ln(10^{10} A_s)$	3.0426	$3.043^{+0.044}_{-0.041}$	$r_{\text{drag}} h$	99.54	$99.6^{+2.4}_{-2.4}$	$H(2.33)$	235.93	$235.8^{+2.1}_{-2.0}$
n_s	0.9669	$0.966^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.433	$2.433^{+0.070}_{-0.069}$	$D_M(2.33)$	5767.9	5769^{+31}_{-31}
r	0.0175	< 0.0792	z_{re}	7.74	$7.7^{+2.0}_{-2.2}$	$f\sigma_8(0.15)$	0.4565	$0.456^{+0.020}_{-0.020}$
y_{cal}	1.0004	$1.0009^{+0.0065}_{-0.0065}$	$10^9 A_s$	2.096	$2.096^{+0.094}_{-0.084}$	$\sigma_8(0.15)$	0.7478	$0.747^{+0.018}_{-0.017}$
$A_{B,\text{dust}}$	4.59	$4.9^{+3.3}_{-2.1}$	$10^9 A_s e^{-2\tau}$	1.8787	$1.879^{+0.030}_{-0.029}$	$f\sigma_8(0.38)$	0.4748	$0.474^{+0.016}_{-0.017}$
$A_{B,\text{sync}}$	1.43	< 4.93	D_{40}	1230.7	1236^{+36}_{-35}	$\sigma_8(0.38)$	0.6628	$0.663^{+0.016}_{-0.014}$
$\alpha_{B,\text{dust}}$	-0.50	—	D_{220}	5715	5720^{+100}_{-100}	$f\sigma_8(0.51)$	0.4733	$0.473^{+0.015}_{-0.015}$
$\beta_{B,\text{dust}}$	1.575	$1.60^{+0.25}_{-0.25}$	D_{810}	2536.8	2537^{+36}_{-36}	$\sigma_8(0.51)$	0.6203	$0.620^{+0.014}_{-0.013}$
$\alpha_{B,\text{sync}}$	-0.32	—	D_{1420}	816.2	816^{+13}_{-13}	$f\sigma_8(0.61)$	0.4683	$0.468^{+0.014}_{-0.014}$
$\beta_{B,\text{sync}}$	-3.04	$-3.10^{+0.69}_{-0.73}$	D_{2000}	230.26	$230.1^{+4.5}_{-4.6}$	$\sigma_8(0.61)$	0.5902	$0.590^{+0.014}_{-0.013}$
$\epsilon_{\text{dust,sync}}$	-0.34	< 0.347	$n_{s,0.002}$	0.9669	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(2.33)$	0.2976	$0.2975^{+0.0068}_{-0.0063}$
A_{217}^{CIB}	48.7	48^{+20}_{-20}	Y_P	0.245334	$0.24532^{+0.00020}_{-0.00024}$	$\sigma_8(2.33)$	0.3068	$0.3067^{+0.0071}_{-0.0065}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.32	—	Y_P^{BBN}	0.246660	$0.24664^{+0.00020}_{-0.00024}$	$r_{0.002}$	0.0159	< 0.0732
A_{143}^{tSZ}	7.0	—	$10^5 D/H$	2.614	$2.620^{+0.096}_{-0.094}$	$r_{0.01}$	0.0167	< 0.0762
A_{100}^{PS}	253	263^{+70}_{-70}	Age/Gyr	13.808	$13.810^{+0.071}_{-0.071}$	$\ln(10^{10} A_t)$	-1.00	$-0.9^{+1.7}_{-3.7}$
A_{143}^{PS}	49.0	49^{+20}_{-20}	z_*	1090.05	$1090.08^{+0.75}_{-0.77}$	r_{10}	0.0081	< 0.0377
$A_{143 \times 217}^{\text{PS}}$	46.5	43^{+20}_{-20}	r_*	144.74	$144.79^{+0.82}_{-0.82}$	$10^9 A_t$	0.037	< 0.165
A_{217}^{PS}	119.0	115^{+30}_{-30}	$100\theta_*$	1.04116	$1.0412^{+0.0011}_{-0.0011}$	$10^9 A_t e^{-2\tau}$	0.033	< 0.149
A^{kSZ}	0.0	—	$D_M(z_*)/\text{Gpc}$	13.902	$13.907^{+0.079}_{-0.081}$	f_{2000}^{143}	30.1	31^{+8}_{-7}
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-4.8}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{143}^{dustTT}	10.76	$10.7^{+4.7}_{-4.6}$	r_{drag}	147.46	$147.52^{+0.90}_{-0.89}$	f_{2000}^{217}	107.48	$107.9^{+4.8}_{-4.7}$
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.2^{+8.6}_{-8.6}$	k_D	0.14037	$0.1403^{+0.0012}_{-0.0012}$	χ_{BKPLANCK}^2	735.6	$739.9 (\nu: 3.6)$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$100\theta_D$	0.16100	$0.16105^{+0.00066}_{-0.00065}$	χ_{simall}^2	396.19	$397.2 (\nu: 1.8)$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{eq}	3381	3377^{+75}_{-74}	χ_{lowl}^2	23.52	$24.0 (\nu: 0.6)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_{eq}	0.010319	$0.01031^{+0.00023}_{-0.00022}$	χ_{plik}^2	759.5	$771.7 (\nu: 14.7)$
H_0	67.50	$67.5^{+1.4}_{-1.4}$	$100\theta_{\text{eq}}$	0.8167	$0.817^{+0.014}_{-0.013}$	$\chi_{6\text{DF}}^2$	0.037	$0.067 (\nu: 0.0)$
Ω_Λ	0.6881	$0.689^{+0.018}_{-0.019}$	$100\theta_{s,\text{eq}}$	0.4513	$0.4516^{+0.0071}_{-0.0070}$	χ_{MGS}^2	1.16	$1.27 (\nu: 0.1)$
Ω_m	0.3119	$0.311^{+0.019}_{-0.018}$	$H(0.15)$	72.78	$72.8^{+1.2}_{-1.2}$	χ_{DR12BAO}^2	4.56	$5.0 (\nu: 1.6)$
$\Omega_m h^2$	0.14213	$0.1420^{+0.0031}_{-0.0031}$	$D_M(0.15)$	642.2	642^{+12}_{-12}	χ_{prior}^2	1.4	$9.0 (\nu: 8.2)$
$\Omega_m h^3$	0.09594	$0.0959^{+0.0012}_{-0.0011}$	$H(0.38)$	82.90	$82.90^{+0.90}_{-0.87}$	χ_{BAO}^2	5.75	$6.3 (\nu: 1.1)$
σ_8	0.8093	$0.809^{+0.020}_{-0.019}$	$D_M(0.38)$	1531.5	1531^{+24}_{-24}	χ_{CMB}^2	1914.8	$1932.8 (\nu: 18.8)$

Best-fit $\chi_{\text{eff}}^2 = 1921.94$; $\bar{\chi}_{\text{eff}}^2 = 1948.08$; $R - 1 = 0.00580$

χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.56 CMB - BK15_dust: 735.55 simall_100x143.offlike5_EE_Aplanck_B: 396.19 commander_dx12_v3_2_29: 23.52 plik_rd12_HM_v22_TT: 759.51

17.44 base_r_plikHM_TT_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02212	$0.02211^{+0.00054}_{-0.00053}$	σ_8	0.8122	$0.812^{+0.016}_{-0.016}$	$H(0.38)$	82.54	$82.5^{+1.2}_{-1.1}$
$\Omega_c h^2$	0.12047	$0.1204^{+0.0041}_{-0.0040}$	S_8	0.8385	$0.838^{+0.042}_{-0.041}$	$D_M(0.38)$	1541.3	1541^{+31}_{-31}
$100\theta_{MC}$	1.04076	$1.0408^{+0.0011}_{-0.0011}$	$\sigma_8 \Omega_m^{0.5}$	0.4593	$0.459^{+0.023}_{-0.022}$	$H(0.51)$	89.34	$89.34^{+0.93}_{-0.87}$
τ	0.0529	$0.052^{+0.021}_{-0.021}$	$\sigma_8 \Omega_m^{0.25}$	0.6107	$0.610^{+0.019}_{-0.019}$	$D_M(0.51)$	1995.4	1995^{+36}_{-37}
$\ln(10^{10} A_s)$	3.0420	$3.041^{+0.040}_{-0.039}$	$\sigma_8/h^{0.5}$	0.9928	$0.992^{+0.026}_{-0.027}$	$H(0.61)$	95.01	$95.02^{+0.78}_{-0.72}$
n_s	0.9633	$0.963^{+0.013}_{-0.012}$	$r_{drag} h$	98.55	$98.6^{+3.1}_{-3.1}$	$D_M(0.61)$	2320.8	2321^{+39}_{-40}
r	0.0128	< 0.0758	$\langle d^2 \rangle^{1/2}$	2.453	$2.451^{+0.063}_{-0.063}$	$H(2.33)$	236.61	$236.6^{+2.5}_{-2.4}$
y_{cal}	1.0006	$1.0007^{+0.0065}_{-0.0065}$	z_{re}	7.60	$7.5^{+2.0}_{-2.3}$	$D_M(2.33)$	5777.3	5777^{+35}_{-37}
$A_{B,dust}$	4.63	$4.9^{+3.3}_{-2.1}$	$10^9 A_s$	2.095	$2.092^{+0.085}_{-0.080}$	$f\sigma_8(0.15)$	0.4632	$0.463^{+0.021}_{-0.021}$
$A_{B,sync}$	1.42	< 4.94	$10^9 A_s e^{-2\tau}$	1.8843	$1.884^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	0.7497	$0.749^{+0.014}_{-0.014}$
$\alpha_{B,dust}$	-0.52	—	D_{40}	1236.8	1242^{+36}_{-34}	$f\sigma_8(0.38)$	0.4797	$0.479^{+0.016}_{-0.016}$
$\beta_{B,dust}$	1.573	$1.60^{+0.24}_{-0.25}$	D_{220}	5714	5714^{+100}_{-100}	$\sigma_8(0.38)$	0.6637	$0.663^{+0.013}_{-0.013}$
$\alpha_{B,sync}$	-0.54	—	D_{810}	2537.5	2537^{+35}_{-35}	$f\sigma_8(0.51)$	0.4773	$0.477^{+0.013}_{-0.014}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.72}$	D_{1420}	815.0	815^{+13}_{-13}	$\sigma_8(0.51)$	0.6207	$0.620^{+0.012}_{-0.012}$
$\epsilon_{dust,sync}$	-0.34	< 0.362	D_{2000}	229.76	$229.7^{+4.6}_{-4.6}$	$f\sigma_8(0.61)$	0.4717	$0.471^{+0.012}_{-0.012}$
A_{217}^{CIB}	50.8	48^{+20}_{-20}	$n_{s,0.002}$	0.9633	$0.963^{+0.013}_{-0.012}$	$\sigma_8(0.61)$	0.5904	$0.590^{+0.012}_{-0.011}$
$\xi^{tSZ \times CIB}$	0.05	—	Y_P	0.245294	$0.24528^{+0.00022}_{-0.00025}$	$f\sigma_8(2.33)$	0.2974	$0.2971^{+0.0062}_{-0.0060}$
A_{143}^{tSZ}	7.2	—	Y_P^{BBN}	0.246620	$0.24661^{+0.00022}_{-0.00025}$	$\sigma_8(2.33)$	0.3062	$0.3060^{+0.0069}_{-0.0066}$
A_{100}^{PS}	257	264^{+70}_{-70}	$10^5 D/H$	2.633	$2.63^{+0.10}_{-0.10}$	$r_{0.002}$	0.0114	< 0.0697
A_{143}^{PS}	45.8	49^{+20}_{-20}	Age/Gyr	13.829	$13.829^{+0.081}_{-0.084}$	$r_{0.01}$	0.0121	< 0.0727
$A_{143 \times 217}^{PS}$	40	44^{+20}_{-20}	z_*	1090.28	$1090.29^{+0.89}_{-0.89}$	$\ln(10^{10} A_t)$	-1.32	$-0.97^{+1.7}_{-3.6}$
A_{217}^{PS}	116.0	115^{+30}_{-30}	r_*	144.50	$144.51^{+0.95}_{-0.95}$	r_{10}	0.0059	< 0.0359
A^{kSZ}	0.0	—	$100\theta_*$	1.04097	$1.0410^{+0.0011}_{-0.0011}$	$10^9 A_t$	0.027	< 0.159
A_{100}^{dustTT}	8.89	$8.9^{+4.7}_{-4.8}$	$D_M(z_*)/\text{Gpc}$	13.881	$13.882^{+0.091}_{-0.090}$	$10^9 A_t e^{-2\tau}$	0.024	< 0.143
A_{143}^{dustTT}	10.76	$10.7^{+4.7}_{-4.6}$	z_{drag}	1059.40	$1059.4^{+1.2}_{-1.2}$	f_{2000}^{143}	30.8	31^{+7}_{-8}
$A_{143 \times 217}^{dustTT}$	19.0	$18.3^{+8.5}_{-8.6}$	r_{drag}	147.24	$147.26^{+0.99}_{-0.99}$	$f_{2000}^{143 \times 217}$	33.5	34^{+5}_{-5}
A_{217}^{dustTT}	94.0	93^{+20}_{-20}	k_D	0.14052	$0.1405^{+0.0012}_{-0.0012}$	f_{2000}^{217}	108.00	$108.2^{+4.9}_{-4.8}$
c_{100}	0.99961	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16106	$0.16109^{+0.00068}_{-0.00066}$	$\chi_{lensing}^2$	8.98	$9.53 (\nu: 0.5)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3408	3407^{+92}_{-91}	$\chi_{BKPLANCK}^2$	735.2	$739.4 (\nu: 3.4)$
H_0	66.93	$66.9^{+1.8}_{-1.8}$	k_{eq}	0.010400	$0.01040^{+0.00028}_{-0.00028}$	χ_{small}^2	396.00	$397.0 (\nu: 1.3)$
Ω_Λ	0.6803	$0.680^{+0.024}_{-0.026}$	$100\theta_{eq}$	0.8115	$0.812^{+0.017}_{-0.017}$	χ_{lowl}^2	24.07	$24.6 (\nu: 0.8)$
Ω_m	0.3197	$0.320^{+0.026}_{-0.024}$	$100\theta_{s,eq}$	0.4486	$0.4487^{+0.0090}_{-0.0087}$	χ_{plik}^2	758.4	$770.9 (\nu: 13.7)$
$\Omega_m h^2$	0.14324	$0.1432^{+0.0039}_{-0.0038}$	$H(0.15)$	72.30	$72.3^{+1.6}_{-1.5}$	χ_{prior}^2	1.7	$8.9 (\nu: 8.2)$
$\Omega_m h^3$	0.09587	$0.0959^{+0.0012}_{-0.0011}$	$D_M(0.15)$	647.1	647^{+16}_{-15}	χ_{CMB}^2	1922.6	$1941.5 (\nu: 18.9)$

Best-fit $\chi_{eff}^2 = 1924.32$; $\bar{\chi}_{eff}^2 = 1950.36$; $R - 1 = 0.00332$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.98 BK15_dust: 735.21 small_100x143_offlike5_EE_Aplanck_B: 396.00 commander_dx12_v3_2_29: 24.07
plik_rd12_HM_v22_TT: 758.35

17.45 base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02219^{+0.00051}_{-0.00049}$	$\sigma_8 \Omega_m^{0.5}$	0.4531	$0.452^{+0.017}_{-0.017}$	$H(0.61)$	95.21	$95.22^{+0.61}_{-0.59}$
$\Omega_c h^2$	0.11941	$0.1192^{+0.0028}_{-0.0028}$	$\sigma_8 \Omega_m^{0.25}$	0.6059	$0.605^{+0.016}_{-0.016}$	$D_M(0.61)$	2309.8	2309^{+28}_{-28}
$100\theta_{MC}$	1.04096	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8/h^{0.5}$	0.9866	$0.986^{+0.023}_{-0.023}$	$H(2.33)$	236.02	$235.9^{+1.8}_{-1.8}$
τ	0.0546	$0.055^{+0.020}_{-0.019}$	$r_{drag} h$	99.42	$99.6^{+2.1}_{-2.1}$	$D_M(2.33)$	5768.7	5769^{+30}_{-31}
$\ln(10^{10} A_s)$	3.0439	$3.045^{+0.039}_{-0.037}$	$\langle d^2 \rangle^{1/2}$	2.438	$2.438^{+0.055}_{-0.055}$	$f\sigma_8(0.15)$	0.4576	$0.457^{+0.016}_{-0.016}$
n_s	0.9662	$0.966^{+0.011}_{-0.010}$	z_{re}	7.74	$7.8^{+1.9}_{-2.0}$	$\sigma_8(0.15)$	0.7485	$0.748^{+0.015}_{-0.014}$
r	0.0155	< 0.0772	$10^9 A_s$	2.099	$2.101^{+0.084}_{-0.077}$	$f\sigma_8(0.38)$	0.4757	$0.475^{+0.013}_{-0.013}$
y_{cal}	1.0009	$1.0010^{+0.0064}_{-0.0064}$	$10^9 A_s e^{-2\tau}$	1.8815	$1.880^{+0.028}_{-0.027}$	$\sigma_8(0.38)$	0.6634	$0.663^{+0.013}_{-0.012}$
$A_{B,dust}$	4.60	$4.9^{+3.3}_{-2.1}$	D_{40}	1232.9	1237^{+34}_{-32}	$f\sigma_8(0.51)$	0.4741	$0.474^{+0.011}_{-0.011}$
$A_{B,sync}$	1.43	< 4.94	D_{220}	5723	5723^{+100}_{-100}	$\sigma_8(0.51)$	0.6207	$0.621^{+0.012}_{-0.012}$
$\alpha_{B,dust}$	-0.50	—	D_{810}	2539.5	2538^{+36}_{-34}	$f\sigma_8(0.61)$	0.4690	$0.469^{+0.011}_{-0.011}$
$\beta_{B,dust}$	1.574	$1.60^{+0.24}_{-0.25}$	D_{1420}	816.8	816^{+13}_{-13}	$\sigma_8(0.61)$	0.5906	$0.591^{+0.012}_{-0.011}$
$\alpha_{B,sync}$	-0.35	—	D_{2000}	230.41	$230.2^{+4.5}_{-4.5}$	$f\sigma_8(2.33)$	0.2977	$0.2978^{+0.0061}_{-0.0058}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.69}_{-0.72}$	$n_{s,0.002}$	0.9662	$0.966^{+0.011}_{-0.010}$	$\sigma_8(2.33)$	0.3069	$0.3070^{+0.0065}_{-0.0062}$
$\epsilon_{dust,sync}$	-0.35	< 0.352	Y_P	0.245329	$0.24532^{+0.00020}_{-0.00023}$	$r_{0.002}$	0.0140	< 0.0719
A_{217}^{CIB}	48.9	48^{+20}_{-20}	Y_P^{BBN}	0.246656	$0.24665^{+0.00020}_{-0.00023}$	$r_{0.01}$	0.0147	< 0.0747
$\xi^{tSZ \times CIB}$	0.28	—	$10^5 D/H$	2.616	$2.619^{+0.095}_{-0.093}$	$\ln(10^{10} A_t)$	-1.12	$-0.9^{+1.7}_{-3.7}$
A_{143}^{tSZ}	7.1	—	Age/Gyr	13.810	$13.811^{+0.069}_{-0.070}$	r_{10}	0.0071	< 0.0368
A_{100}^{PS}	255	263^{+70}_{-70}	z_*	1090.07	$1090.08^{+0.73}_{-0.74}$	$10^9 A_t$	0.033	< 0.163
A_{143}^{PS}	48.6	49^{+20}_{-20}	r_*	144.71	$144.77^{+0.75}_{-0.74}$	$10^9 A_t e^{-2\tau}$	0.029	< 0.146
$A_{143 \times 217}^{PS}$	45.8	43^{+20}_{-20}	$100\theta_*$	1.04116	$1.0412^{+0.0010}_{-0.0011}$	f_{2000}^{143}	30.3	31^{+8}_{-7}
A_{217}^{PS}	119.0	115^{+30}_{-30}	$D_M(z_*)/\text{Gpc}$	13.899	$13.905^{+0.073}_{-0.073}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
A^{kSZ}	0.0	—	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.1}$	f_{2000}^{217}	107.72	$107.9^{+4.7}_{-4.7}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.8}$	r_{drag}	147.43	$147.50^{+0.84}_{-0.82}$	$\chi^2_{lensing}$	8.81	$9.23 (\nu: 0.2)$
A_{143}^{dustTT}	10.78	$10.7^{+4.7}_{-4.5}$	k_D	0.14039	$0.1403^{+0.0011}_{-0.0011}$	$\chi^2_{BKPLANCK}$	735.5	$739.8 (\nu: 3.5)$
$A_{143 \times 217}^{dustTT}$	19.3	$18.2^{+8.6}_{-8.5}$	$100\theta_D$	0.16101	$0.16104^{+0.00065}_{-0.00065}$	χ^2_{simall}	396.21	$397.3 (\nu: 1.7)$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	z_{eq}	3384	3379^{+66}_{-65}	χ^2_{lowl}	23.60	$24.1 (\nu: 0.6)$
c_{100}	0.99966	$0.9996^{+0.0015}_{-0.0016}$	k_{eq}	0.010329	$0.01031^{+0.00020}_{-0.00020}$	χ^2_{plik}	759.2	$771.3 (\nu: 14.1)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8161	$0.817^{+0.012}_{-0.012}$	χ^2_{6DF}	0.047	$0.065 (\nu: 0.0)$
H_0	67.44	$67.5^{+1.3}_{-1.3}$	$100\theta_{s,eq}$	0.4510	$0.4514^{+0.0063}_{-0.0062}$	χ^2_{MGS}	1.10	$1.23 (\nu: 0.1)$
Ω_Λ	0.6872	$0.688^{+0.016}_{-0.017}$	$H(0.15)$	72.73	$72.8^{+1.1}_{-1.1}$	$\chi^2_{DR12BAO}$	4.77	$5.0 (\nu: 1.3)$
Ω_m	0.3128	$0.312^{+0.017}_{-0.016}$	$D_M(0.15)$	642.8	642^{+11}_{-11}	χ^2_{prior}	1.5	$8.9 (\nu: 8.2)$
$\Omega_m h^2$	0.14227	$0.1421^{+0.0028}_{-0.0027}$	$H(0.38)$	82.86	$82.89^{+0.84}_{-0.82}$	χ^2_{CMB}	1923.3	$1941.7 (\nu: 18.9)$
$\Omega_m h^3$	0.09594	$0.0959^{+0.0012}_{-0.0011}$	$D_M(0.38)$	1532.6	1532^{+22}_{-22}	χ^2_{BAO}	5.92	$6.3 (\nu: 0.9)$
σ_8	0.8102	$0.810^{+0.016}_{-0.016}$	$H(0.51)$	89.58	$89.60^{+0.71}_{-0.68}$			
S_8	0.8273	$0.826^{+0.030}_{-0.030}$	$D_M(0.51)$	1985.2	1984^{+26}_{-26}			

Best-fit $\chi^2_{eff} = 1930.77$; $\bar{\chi}^2_{eff} = 1956.87$; $R - 1 = 0.00562$
 χ^2_{eff} : BAO - 6DF: 0.05 MGS: 1.10 DR12BAO: 4.78 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.81 BK15_dust: 735.47 simall_100x143_offlike5_EE_Aplanck_B: 396.21 commander_dx12_v3.2.29: 23.60 plik_rd12_HM_v22.TT: 759.22

17.46 base_r_plikHM_TT_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02208^{+0.00056}_{-0.00055}$	σ_8	$0.815^{+0.022}_{-0.021}$	$H(0.38)$	$82.4^{+1.4}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1211^{+0.0052}_{-0.0052}$	S_8	$0.847^{+0.061}_{-0.060}$	$D_{\mathrm{M}}(0.38)$	1546^{+39}_{-40}
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0012}_{-0.0012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.464^{+0.033}_{-0.033}$	$H(0.51)$	$89.2^{+1.1}_{-1.0}$
τ	$0.054^{+0.018}_{-0.012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.615^{+0.029}_{-0.029}$	$D_{\mathrm{M}}(0.51)$	2000^{+45}_{-46}
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.041}_{-0.030}$	$\sigma_8/h^{0.5}$	$0.998^{+0.039}_{-0.040}$	$H(0.61)$	$94.94^{+0.92}_{-0.82}$
n_{s}	$0.962^{+0.015}_{-0.014}$	$r_{\mathrm{drag}}h$	$98.1^{+4.1}_{-3.9}$	$D_{\mathrm{M}}(0.61)$	2326^{+49}_{-50}
r	< 0.0757	$\langle d^2 \rangle^{1/2}$	$2.466^{+0.095}_{-0.093}$	$H(2.33)$	$237.0^{+3.2}_{-3.2}$
y_{cal}	$1.0007^{+0.0065}_{-0.0065}$	z_{re}	< 9.41	$D_{\mathrm{M}}(2.33)$	5781^{+39}_{-42}
$A_{B,\mathrm{dust}}$	$4.9^{+3.3}_{-2.1}$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.087}_{-0.062}$	$f\sigma_8(0.15)$	$0.467^{+0.030}_{-0.030}$
$A_{B,\mathrm{sync}}$	< 4.93	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.887^{+0.034}_{-0.034}$	$\sigma_8(0.15)$	$0.752^{+0.018}_{-0.017}$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	1244^{+41}_{-39}	$f\sigma_8(0.38)$	$0.483^{+0.023}_{-0.024}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	D_{220}	5711^{+100}_{-110}	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.013}$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	2538^{+35}_{-35}	$f\sigma_8(0.51)$	$0.480^{+0.020}_{-0.021}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.73}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.011}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.358	D_{2000}	$229.7^{+4.6}_{-4.6}$	$f\sigma_8(0.61)$	$0.474^{+0.017}_{-0.018}$
A_{217}^{CIB}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.962^{+0.015}_{-0.014}$	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.010}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	Y_{P}	$0.24527^{+0.00023}_{-0.00026}$	$f\sigma_8(2.33)$	$0.2978^{+0.0064}_{-0.0047}$
A_{143}^{tSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24660^{+0.00023}_{-0.00026}$	$\sigma_8(2.33)$	$0.3065^{+0.0068}_{-0.0048}$
A_{100}^{PS}	263^{+70}_{-70}	$10^5\mathrm{D}/\mathrm{H}$	$2.64^{+0.11}_{-0.10}$	$r_{0.002}$	< 0.0694
A_{143}^{PS}	49^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.836^{+0.089}_{-0.093}$	$r_{0.01}$	< 0.0724
$A_{143\times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	z_*	$1090.4^{+1.0}_{-1.0}$	$\ln(10^{10}A_{\mathrm{t}})$	$-1.0^{+1.8}_{-3.6}$
A_{217}^{PS}	116^{+30}_{-30}	r_*	$144.4^{+1.2}_{-1.2}$	r_{10}	< 0.0357
A^{kSZ}	—	$100\theta_*$	$1.0409^{+0.0012}_{-0.0012}$	$10^9 A_{\mathrm{t}}$	< 0.158
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.11}_{-0.11}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.142
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.7}$	z_{drag}	$1059.3^{+1.2}_{-1.2}$	f_{2000}^{143}	31^{+7}_{-8}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.2^{+8.5}_{-8.6}$	r_{drag}	$147.1^{+1.2}_{-1.2}$	$f_{2000}^{143\times 217}$	34^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	k_{D}	$0.1406^{+0.0013}_{-0.0013}$	f_{2000}^{217}	$108.2^{+4.9}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16110^{+0.00069}_{-0.00067}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.1 (\nu: 3.6)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3421^{+120}_{-120}	χ_{simall}^2	$397.0 (\nu: 1.4)$
H_0	$66.7^{+2.3}_{-2.2}$	k_{eq}	$0.01044^{+0.00036}_{-0.00036}$	χ_{lowl}^2	$25.0 (\nu: 1.1)$
Ω_{Λ}	$0.676^{+0.032}_{-0.034}$	$100\theta_{\mathrm{eq}}$	$0.809^{+0.023}_{-0.021}$	χ_{plik}^2	$771.0 (\nu: 14.0)$
Ω_{m}	$0.324^{+0.034}_{-0.032}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.447^{+0.012}_{-0.011}$	χ_{prior}^2	$8.9 (\nu: 8.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1438^{+0.0050}_{-0.0050}$	$H(0.15)$	$72.1^{+2.0}_{-1.9}$	χ_{CMB}^2	$1932.0 (\nu: 18.6)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	$D_{\mathrm{M}}(0.15)$	649^{+20}_{-20}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1940.93; R - 1 = 0.00225$$

17.47 base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00052}_{-0.00049}$	S_8	$0.825^{+0.038}_{-0.037}$	$H(0.51)$	$89.62^{+0.75}_{-0.72}$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0032}_{-0.0032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.51)$	1983^{+28}_{-27}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.020}_{-0.019}$	$H(0.61)$	$95.23^{+0.63}_{-0.61}$
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8/h^{0.5}$	$0.985^{+0.028}_{-0.027}$	$D_{\mathrm{M}}(0.61)$	2308^{+30}_{-30}
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.042}_{-0.031}$	$r_{\mathrm{drag}}h$	$99.6^{+2.4}_{-2.4}$	$H(2.33)$	$235.8^{+2.1}_{-2.0}$
n_{s}	$0.967^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.069}_{-0.066}$	$D_{\mathrm{M}}(2.33)$	5768^{+31}_{-31}
r	< 0.0786	z_{re}	< 9.53	$f\sigma_8(0.15)$	$0.456^{+0.019}_{-0.019}$
y_{cal}	$1.0009^{+0.0065}_{-0.0065}$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.091}_{-0.064}$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.014}$
$A_{B,\mathrm{dust}}$	$4.9^{+3.3}_{-2.1}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.030}_{-0.029}$	$f\sigma_8(0.38)$	$0.475^{+0.016}_{-0.016}$
$A_{B,\mathrm{sync}}$	< 4.89	D_{40}	1236^{+36}_{-35}	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.012}$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	5720^{+99}_{-100}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.014}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.24}_{-0.25}$	D_{810}	2537^{+36}_{-36}	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.011}$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	816^{+13}_{-13}	$f\sigma_8(0.61)$	$0.468^{+0.013}_{-0.013}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.69}_{-0.72}$	D_{2000}	$230.1^{+4.5}_{-4.5}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.010}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.351	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011}$	$f\sigma_8(2.33)$	$0.2978^{+0.0066}_{-0.0050}$
A_{217}^{CIB}	48^{+20}_{-20}	Y_{P}	$0.24532^{+0.00020}_{-0.00023}$	$\sigma_8(2.33)$	$0.3070^{+0.0068}_{-0.0051}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00024}$	$r_{0.002}$	< 0.0725
A_{143}^{tSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.620^{+0.095}_{-0.094}$	$r_{0.01}$	< 0.0755
A_{100}^{PS}	263^{+70}_{-70}	$\mathrm{Age}/\mathrm{Gyr}$	$13.810^{+0.071}_{-0.071}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6}$
A_{143}^{PS}	48^{+20}_{-20}	z_*	$1090.07^{+0.75}_{-0.77}$	r_{10}	< 0.0372
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	r_*	$144.80^{+0.81}_{-0.83}$	$10^9 A_{\mathrm{t}}$	< 0.164
A_{217}^{PS}	115^{+30}_{-30}	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.147
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.080}_{-0.081}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	z_{drag}	$1059.5^{+1.2}_{-1.1}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	r_{drag}	$147.52^{+0.90}_{-0.89}$	f_{2000}^{217}	$107.9^{+4.8}_{-4.7}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.2^{+8.6}_{-8.6}$	k_{D}	$0.1403^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.8 (\nu: 3.6)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_{\mathrm{D}}$	$0.16105^{+0.00065}_{-0.00065}$	χ_{simall}^2	$397.2 (\nu: 1.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{eq}	3377^{+74}_{-73}	χ_{lowl}^2	$24.0 (\nu: 0.6)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{eq}	$0.01031^{+0.00023}_{-0.00022}$	χ_{plik}^2	$771.6 (\nu: 14.6)$
H_0	$67.5^{+1.4}_{-1.4}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.014}_{-0.013}$	$\chi_{6\mathrm{DF}}^2$	$0.066 (\nu: 0.0)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4517^{+0.0071}_{-0.0070}$	χ_{MGS}^2	$1.28 (\nu: 0.1)$
Ω_{m}	$0.311^{+0.019}_{-0.018}$	$H(0.15)$	$72.8^{+1.2}_{-1.2}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0031}_{-0.0031}$	$D_{\mathrm{M}}(0.15)$	642^{+12}_{-11}	χ_{prior}^2	$8.9 (\nu: 8.2)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	$H(0.38)$	$82.91^{+0.89}_{-0.87}$	χ_{BAO}^2	$6.3 (\nu: 1.1)$
σ_8	$0.810^{+0.019}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1531^{+24}_{-23}	χ_{CMB}^2	$1932.6 (\nu: 18.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1947.86; R - 1 = 0.00560$$

17.48 base_r_plikHM_TT_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02212^{+0.00054}_{-0.00052}$	σ_8	$0.812^{+0.015}_{-0.015}$	$H(0.38)$	$82.6^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1203^{+0.0039}_{-0.0039}$	S_8	$0.837^{+0.042}_{-0.041}$	$D_{\mathrm{M}}(0.38)$	1540^{+30}_{-30}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0011}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.023}_{-0.023}$	$H(0.51)$	$89.37^{+0.92}_{-0.85}$
τ	$0.054^{+0.018}_{-0.012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.019}_{-0.020}$	$D_{\mathrm{M}}(0.51)$	1994^{+35}_{-36}
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.038}_{-0.027}$	$\sigma_8/h^{0.5}$	$0.992^{+0.026}_{-0.027}$	$H(0.61)$	$95.04^{+0.76}_{-0.70}$
n_{s}	$0.964^{+0.012}_{-0.012}$	$r_{\mathrm{drag}}h$	$98.7^{+3.1}_{-2.9}$	$D_{\mathrm{M}}(0.61)$	2319^{+38}_{-39}
r	< 0.0757	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.063}_{-0.064}$	$H(2.33)$	$236.5^{+2.4}_{-2.4}$
y_{cal}	$1.0007^{+0.0064}_{-0.0065}$	z_{re}	< 9.36	$D_{\mathrm{M}}(2.33)$	5776^{+35}_{-37}
$A_{B,\mathrm{dust}}$	$4.9^{+3.3}_{-2.1}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.081}_{-0.055}$	$f\sigma_8(0.15)$	$0.463^{+0.021}_{-0.021}$
$A_{B,\mathrm{sync}}$	< 4.93	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.013}$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	1241^{+36}_{-34}	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.24}_{-0.25}$	D_{220}	5714^{+100}_{-100}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.010}$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	2537^{+35}_{-35}	$f\sigma_8(0.51)$	$0.477^{+0.013}_{-0.014}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.73}$	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.51)$	$0.621^{+0.011}_{-0.0092}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.369	D_{2000}	$229.7^{+4.5}_{-4.6}$	$f\sigma_8(0.61)$	$0.471^{+0.012}_{-0.012}$
A_{217}^{CIB}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.964^{+0.012}_{-0.012}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0087}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	Y_{P}	$0.24529^{+0.00021}_{-0.00025}$	$f\sigma_8(2.33)$	$0.2975^{+0.0059}_{-0.0043}$
A_{143}^{tSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24661^{+0.00021}_{-0.00025}$	$\sigma_8(2.33)$	$0.3064^{+0.0065}_{-0.0047}$
A_{100}^{PS}	264^{+70}_{-70}	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.099}$	$r_{0.002}$	< 0.0696
A_{143}^{PS}	49^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.827^{+0.079}_{-0.082}$	$r_{0.01}$	< 0.0727
$A_{143\times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	z_*	$1090.26^{+0.87}_{-0.87}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.96^{+1.7}_{-3.5}$
A_{217}^{PS}	115^{+30}_{-30}	r_*	$144.54^{+0.94}_{-0.93}$	r_{10}	< 0.0358
A^{kSZ}	—	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$10^9 A_{\mathrm{t}}$	< 0.159
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.885^{+0.089}_{-0.088}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.142
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.6}$	z_{drag}	$1059.4^{+1.2}_{-1.2}$	f_{2000}^{143}	31^{+7}_{-8}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.6}_{-8.6}$	r_{drag}	$147.29^{+0.98}_{-0.98}$	$f_{2000}^{143\times 217}$	34^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	f_{2000}^{217}	$108.1^{+4.9}_{-4.7}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16108^{+0.00068}_{-0.00066}$	$\chi_{\mathrm{lensing}}^2$	$9.52 (\nu: 0.5)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{eq}	3404^{+89}_{-90}	$\chi_{\mathrm{BKPLANCK}}^2$	$739.4 (\nu: 3.5)$
H_0	$67.0^{+1.8}_{-1.7}$	k_{eq}	$0.01039^{+0.00027}_{-0.00027}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
Ω_{Λ}	$0.681^{+0.024}_{-0.025}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.017}_{-0.016}$	χ_{lowl}^2	$24.6 (\nu: 0.8)$
Ω_{m}	$0.319^{+0.025}_{-0.024}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4490^{+0.0089}_{-0.0084}$	χ_{plik}^2	$770.8 (\nu: 13.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1431^{+0.0037}_{-0.0038}$	$H(0.15)$	$72.4^{+1.5}_{-1.5}$	χ_{prior}^2	$8.9 (\nu: 8.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0011}$	$D_{\mathrm{M}}(0.15)$	647^{+15}_{-15}	χ_{CMB}^2	$1941.2 (\nu: 18.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1950.10; R - 1 = 0.00351$$

17.49 base_r_plikHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02220^{+0.00051}_{-0.00049}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017}$	$H(0.61)$	$95.22^{+0.61}_{-0.59}$
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0028}_{-0.0027}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.61)$	2308^{+28}_{-28}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\sigma_8/h^{0.5}$	$0.986^{+0.022}_{-0.022}$	$H(2.33)$	$235.9^{+1.8}_{-1.8}$
τ	$0.056^{+0.018}_{-0.014}$	$r_{\mathrm{drag}}h$	$99.6^{+2.1}_{-2.1}$	$D_{\mathrm{M}}(2.33)$	5769^{+30}_{-31}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.038}_{-0.029}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.054}_{-0.054}$	$f\sigma_8(0.15)$	$0.457^{+0.015}_{-0.015}$
n_{s}	$0.966^{+0.010}_{-0.010}$	z_{re}	< 9.50	$\sigma_8(0.15)$	$0.749^{+0.015}_{-0.013}$
r	< 0.0770	$10^9 A_{\mathrm{s}}$	$2.103^{+0.082}_{-0.061}$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.013}$
y_{cal}	$1.0010^{+0.0064}_{-0.0064}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.028}_{-0.027}$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011}$
$A_{B,\mathrm{dust}}$	$4.9^{+3.3}_{-2.1}$	D_{40}	1237^{+34}_{-32}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011}$
$A_{B,\mathrm{sync}}$	< 4.91	D_{220}	5723^{+98}_{-100}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0098}$
$\alpha_{B,\mathrm{dust}}$	—	D_{810}	2538^{+35}_{-34}	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.010}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.24}_{-0.25}$	D_{1420}	816^{+13}_{-13}	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0093}$
$\alpha_{B,\mathrm{sync}}$	—	D_{2000}	$230.2^{+4.5}_{-4.5}$	$f\sigma_8(2.33)$	$0.2980^{+0.0060}_{-0.0047}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.69}_{-0.72}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010}$	$\sigma_8(2.33)$	$0.3072^{+0.0064}_{-0.0050}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.359	Y_{P}	$0.24532^{+0.00020}_{-0.00023}$	$r_{0.002}$	< 0.0717
A_{217}^{CIB}	48^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00023}$	$r_{0.01}$	< 0.0739
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^5\mathrm{D}/\mathrm{H}$	$2.619^{+0.094}_{-0.094}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6}$
A_{143}^{tSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.810^{+0.069}_{-0.070}$	r_{10}	< 0.0368
A_{100}^{PS}	263^{+70}_{-70}	z_*	$1090.07^{+0.72}_{-0.74}$	$10^9 A_{\mathrm{t}}$	< 0.162
A_{143}^{PS}	48^{+20}_{-20}	r_*	$144.78^{+0.75}_{-0.74}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.145
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-7}
A_{217}^{PS}	115^{+30}_{-30}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.073}_{-0.072}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
A^{kSZ}	—	z_{drag}	$1059.5^{+1.1}_{-1.1}$	f_{2000}^{217}	$107.9^{+4.7}_{-4.7}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	r_{drag}	$147.50^{+0.83}_{-0.82}$	$\chi_{\mathrm{lensing}}^2$	$9.20\ (\nu: 0.2)$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.5}$	k_{D}	$0.1403^{+0.0011}_{-0.0011}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.8\ (\nu: 3.5)$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.2^{+8.6}_{-8.5}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00065}_{-0.00065}$	χ_{simall}^2	$397.3\ (\nu: 1.8)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{eq}	3379^{+66}_{-65}	χ_{lowl}^2	$24.1\ (\nu: 0.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	χ_{plik}^2	$771.2\ (\nu: 14.1)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012}$	$\chi_{6\mathrm{DF}}^2$	$0.062\ (\nu: 0.0)$
H_0	$67.5^{+1.3}_{-1.2}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4515^{+0.0063}_{-0.0062}$	χ_{MGS}^2	$1.24\ (\nu: 0.1)$
Ω_{Λ}	$0.688^{+0.016}_{-0.017}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9\ (\nu: 1.2)$
Ω_{m}	$0.312^{+0.017}_{-0.016}$	$D_{\mathrm{M}}(0.15)$	642^{+11}_{-11}	χ_{prior}^2	$8.9\ (\nu: 8.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0028}_{-0.0027}$	$H(0.38)$	$82.90^{+0.84}_{-0.81}$	χ_{CMB}^2	$1941.6\ (\nu: 18.7)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0011}$	$D_{\mathrm{M}}(0.38)$	1531^{+22}_{-22}	χ_{BAO}^2	$6.2\ (\nu: 0.8)$
σ_8	$0.810^{+0.016}_{-0.014}$	$H(0.51)$	$89.61^{+0.70}_{-0.68}$		
S_8	$0.826^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(0.51)$	1984^{+26}_{-26}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1956.72; R - 1 = 0.00561$$

17.50 base_r_plikHM_TTTEEE_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022344	$0.02234^{+0.00040}_{-0.00037}$	Ω_Λ	0.6818	$0.682^{+0.021}_{-0.023}$	$H(0.15)$	72.51	$72.5^{+1.4}_{-1.3}$
$\Omega_c h^2$	0.12048	$0.1204^{+0.0036}_{-0.0035}$	Ω_m	0.3182	$0.318^{+0.023}_{-0.021}$	$D_M(0.15)$	645.1	645^{+14}_{-13}
$100\theta_{MC}$	1.04088	$1.04088^{+0.00082}_{-0.00081}$	$\Omega_m h^2$	0.14347	$0.1434^{+0.0034}_{-0.0033}$	$H(0.38)$	82.74	$82.76^{+0.99}_{-0.95}$
τ	0.0545	$0.055^{+0.021}_{-0.020}$	$\Omega_m h^3$	0.09634	$0.09632^{+0.00076}_{-0.00074}$	$D_M(0.38)$	1537.0	1537^{+27}_{-27}
$\ln(10^{10} A_s)$	3.0467	$3.047^{+0.043}_{-0.041}$	σ_8	0.8138	$0.814^{+0.019}_{-0.019}$	$H(0.51)$	89.53	$89.55^{+0.79}_{-0.74}$
n_s	0.9648	$0.965^{+0.011}_{-0.011}$	S_8	0.8381	$0.837^{+0.041}_{-0.040}$	$D_M(0.51)$	1990.0	1989^{+31}_{-31}
r	0.0147	< 0.0770	$\sigma_8 \Omega_m^{0.5}$	0.4590	$0.459^{+0.023}_{-0.022}$	$H(0.61)$	95.21	$95.22^{+0.64}_{-0.59}$
y_{cal}	1.0010	$1.0009^{+0.0064}_{-0.0064}$	$\sigma_8 \Omega_m^{0.25}$	0.6112	$0.611^{+0.021}_{-0.021}$	$D_M(0.61)$	2314.7	2314^{+34}_{-34}
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.1}$	$\sigma_8/h^{0.5}$	0.9931	$0.993^{+0.030}_{-0.029}$	$H(2.33)$	236.85	$236.8^{+2.1}_{-2.1}$
$A_{B,sync}$	1.44	< 4.92	$r_{drag} h$	98.71	$98.8^{+2.8}_{-2.7}$	$D_M(2.33)$	5766.4	5766^{+27}_{-29}
$\alpha_{B,dust}$	-0.51	—	$\langle d^2 \rangle^{1/2}$	2.454	$2.454^{+0.072}_{-0.071}$	$f\sigma_8(0.15)$	0.4631	$0.463^{+0.021}_{-0.021}$
$\beta_{B,dust}$	1.575	$1.60^{+0.25}_{-0.25}$	z_{re}	7.71	$7.8^{+2.0}_{-2.2}$	$\sigma_8(0.15)$	0.7513	$0.751^{+0.017}_{-0.016}$
$\alpha_{B,sync}$	-0.44	—	$10^9 A_s$	2.105	$2.106^{+0.093}_{-0.085}$	$f\sigma_8(0.38)$	0.4800	$0.480^{+0.017}_{-0.017}$
$\beta_{B,sync}$	-3.05	$-3.10^{+0.68}_{-0.74}$	$10^9 A_s e^{-2\tau}$	1.8874	$1.886^{+0.030}_{-0.030}$	$\sigma_8(0.38)$	0.6653	$0.665^{+0.015}_{-0.014}$
$\epsilon_{dust,sync}$	-0.34	< 0.356	D_{40}	1237.9	1242^{+35}_{-34}	$f\sigma_8(0.51)$	0.4778	$0.478^{+0.015}_{-0.015}$
A_{217}^{CIB}	48.3	47^{+20}_{-20}	D_{220}	5734	5733^{+100}_{-100}	$\sigma_8(0.51)$	0.6223	$0.622^{+0.014}_{-0.013}$
$\xi^{tSZ \times CIB}$	0.28	—	D_{810}	2543.1	2541^{+35}_{-35}	$f\sigma_8(0.61)$	0.4723	$0.472^{+0.014}_{-0.014}$
A_{143}^{tSZ}	7.28	$5.5^{+4.5}_{-4.6}$	D_{1420}	818.5	818^{+12}_{-12}	$\sigma_8(0.61)$	0.5919	$0.592^{+0.013}_{-0.012}$
A_{100}^{PS}	251	258^{+70}_{-70}	D_{2000}	231.30	$231.1^{+4.1}_{-4.1}$	$f\sigma_8(2.33)$	0.2982	$0.2982^{+0.0067}_{-0.0061}$
A_{143}^{PS}	45.8	46^{+20}_{-20}	$n_{s,0.002}$	0.9648	$0.965^{+0.011}_{-0.011}$	$\sigma_8(2.33)$	0.3071	$0.3072^{+0.0071}_{-0.0065}$
$A_{143 \times 217}^{PS}$	43.9	43^{+20}_{-20}	Y_P	0.245385	$0.24538^{+0.00015}_{-0.00016}$	$r_{0.002}$	0.0132	< 0.0714
A_{217}^{PS}	118.3	116^{+30}_{-30}	Y_P^{BBN}	0.246712	$0.24671^{+0.00015}_{-0.00016}$	$r_{0.01}$	0.0139	< 0.0742
A^{kSZ}	0.0	—	$10^5 D/H$	2.590	$2.591^{+0.071}_{-0.071}$	$\ln(10^{10} A_t)$	-1.17	$-0.9^{+1.7}_{-3.6}$
A_{100}^{dustTT}	8.79	$8.8^{+4.8}_{-4.7}$	Age/Gyr	13.803	$13.803^{+0.062}_{-0.064}$	r_{10}	0.0067	< 0.0366
A_{143}^{dustTT}	10.90	$10.8^{+4.7}_{-4.6}$	z_*	1089.99	$1089.99^{+0.70}_{-0.72}$	$10^9 A_t$	0.031	< 0.162
$A_{143 \times 217}^{dustTT}$	19.5	$18.6^{+8.4}_{-8.5}$	r_*	144.33	$144.35^{+0.77}_{-0.77}$	$10^9 A_t e^{-2\tau}$	0.028	< 0.145
A_{217}^{dustTT}	94.7	94^{+20}_{-20}	$100\theta_*$	1.04106	$1.04107^{+0.00081}_{-0.00080}$	f_{2000}^{143}	29.2	29^{+7}_{-7}
A_{100}^{dustTE}	0.113	$0.115^{+0.10}_{-0.096}$	$D_M(z_*)/\text{Gpc}$	13.863	$13.866^{+0.072}_{-0.072}$	$f_{2000}^{143 \times 217}$	32.18	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.077}_{-0.076}$	z_{drag}	1059.89	$1059.90^{+0.80}_{-0.77}$	f_{2000}^{217}	106.95	$107.1^{+4.6}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.22}_{-0.22}$	r_{drag}	146.99	$147.02^{+0.76}_{-0.75}$	$\chi_{BKPLANCK}^2$	735.2	$739.4 (\nu: 3.5)$
A_{143}^{dustTE}	0.227	$0.23^{+0.14}_{-0.14}$	k_D	0.14095	$0.14092^{+0.00081}_{-0.00081}$	χ_{small}^2	396.2	$397.4 (\nu: 2.0)$
$A_{143 \times 217}^{dustTE}$	0.667	$0.67^{+0.21}_{-0.21}$	$100\theta_D$	0.160772	$0.16078^{+0.00045}_{-0.00046}$	χ_{lowl}^2	23.97	$24.5 (\nu: 0.7)$
A_{217}^{dustTE}	2.10	$2.09^{+0.69}_{-0.69}$	z_{eq}	3413	3411^{+81}_{-78}	χ_{plik}^2	2344.1	$2359.2 (\nu: 16.8)$
c_{100}	0.99968	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	0.010417	$0.01041^{+0.00025}_{-0.00024}$	χ_{prior}^2	2.1	$13.2 (\nu: 11.8)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8113	$0.812^{+0.015}_{-0.015}$	χ_{CMB}^2	3499.4	$3520.5 (\nu: 20.7)$
H_0	67.15	$67.2^{+1.6}_{-1.6}$	$100\theta_{s,eq}$	0.4483	$0.4485^{+0.0077}_{-0.0076}$			

Best-fit $\chi_{eff}^2 = 3501.51$; $\bar{\chi}_{eff}^2 = 3533.72$; $R - 1 = 0.00500$

χ_{eff}^2 : CMB - BK15_dust: 735.20 small_100x143_offlike5_EE_Aplanck_B: 396.18 commander_dx12_v3_2_29: 23.97 plik_rd12_HM_v22b_TTTEEE: 2344.08

17.51 base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022418	$0.02241^{+0.00037}_{-0.00034}$	Ω_m	0.3117	$0.312^{+0.016}_{-0.016}$	$H(0.38)$	83.02	$83.02^{+0.75}_{-0.72}$
$\Omega_c h^2$	0.11944	$0.1194^{+0.0026}_{-0.0026}$	$\Omega_m h^2$	0.14250	$0.1425^{+0.0025}_{-0.0025}$	$D_M(0.38)$	1529.1	1529^{+20}_{-20}
$100\theta_{MC}$	1.04099	$1.04100^{+0.00077}_{-0.00075}$	$\Omega_m h^3$	0.09635	$0.09634^{+0.00077}_{-0.00075}$	$H(0.51)$	89.75	$89.75^{+0.61}_{-0.57}$
τ	0.0562	$0.056^{+0.021}_{-0.020}$	σ_8	0.8113	$0.811^{+0.019}_{-0.018}$	$D_M(0.51)$	1980.7	1981^{+23}_{-24}
$\ln(10^{10} A_s)$	3.0476	$3.048^{+0.043}_{-0.041}$	S_8	0.8269	$0.827^{+0.033}_{-0.032}$	$H(0.61)$	95.374	$95.37^{+0.51}_{-0.47}$
n_s	0.9674	$0.9670^{+0.0094}_{-0.0098}$	$\sigma_8 \Omega_m^{0.5}$	0.4529	$0.453^{+0.018}_{-0.017}$	$D_M(0.61)$	2304.8	2305^{+25}_{-26}
r	0.0175	< 0.0798	$\sigma_8 \Omega_m^{0.25}$	0.6062	$0.606^{+0.018}_{-0.018}$	$H(2.33)$	236.24	$236.2^{+1.6}_{-1.6}$
y_{cal}	1.0009	$1.0010^{+0.0064}_{-0.0065}$	$\sigma_8/h^{0.5}$	0.9866	$0.987^{+0.026}_{-0.026}$	$D_M(2.33)$	5759.4	5760^{+23}_{-24}
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.2}$	$r_{drag} h$	99.52	$99.5^{+2.0}_{-2.0}$	$f\sigma_8(0.15)$	0.4575	$0.458^{+0.017}_{-0.017}$
$A_{B,sync}$	1.44	< 4.90	$\langle d^2 \rangle^{1/2}$	2.439	$2.440^{+0.063}_{-0.062}$	$\sigma_8(0.15)$	0.7496	$0.750^{+0.017}_{-0.016}$
$\alpha_{B,dust}$	-0.51	—	z_{re}	7.85	$7.9^{+2.0}_{-2.1}$	$f\sigma_8(0.38)$	0.4758	$0.476^{+0.015}_{-0.014}$
$\beta_{B,dust}$	1.577	$1.60^{+0.25}_{-0.24}$	$10^9 A_s$	2.106	$2.107^{+0.093}_{-0.085}$	$\sigma_8(0.38)$	0.6645	$0.664^{+0.015}_{-0.014}$
$\alpha_{B,sync}$	-0.33	—	$10^9 A_s e^{-2\tau}$	1.8825	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.51)$	0.4744	$0.474^{+0.013}_{-0.013}$
$\beta_{B,sync}$	-3.03	$-3.10^{+0.68}_{-0.76}$	D_{40}	1233.2	1238^{+33}_{-34}	$\sigma_8(0.51)$	0.6218	$0.622^{+0.014}_{-0.013}$
$\epsilon_{dust,sync}$	-0.35	< 0.359	D_{220}	5737	5738^{+100}_{-100}	$f\sigma_8(0.61)$	0.4694	$0.469^{+0.012}_{-0.012}$
A_{217}^{CIB}	47.1	46^{+20}_{-20}	D_{810}	2541.9	2541^{+35}_{-34}	$\sigma_8(0.61)$	0.5917	$0.592^{+0.013}_{-0.012}$
$\xi^{tSZ \times CIB}$	0.43	—	D_{1420}	819.0	819^{+13}_{-12}	$f\sigma_8(2.33)$	0.2983	$0.2983^{+0.0068}_{-0.0063}$
A_{143}^{tSZ}	7.25	$5.5^{+4.4}_{-4.6}$	D_{2000}	231.54	$231.4^{+4.1}_{-4.0}$	$\sigma_8(2.33)$	0.3075	$0.3076^{+0.0071}_{-0.0066}$
A_{100}^{PS}	249	258^{+70}_{-70}	$n_{s,0.002}$	0.9674	$0.9670^{+0.0094}_{-0.0098}$	$r_{0.002}$	0.0159	< 0.0738
A_{143}^{PS}	47.0	45^{+20}_{-20}	Y_P	0.245414	$0.24541^{+0.00014}_{-0.00014}$	$r_{0.01}$	0.0167	< 0.0765
$A_{143 \times 217}^{PS}$	47.3	42^{+20}_{-20}	Y_P^{BBN}	0.246741	$0.24673^{+0.00014}_{-0.00014}$	$\ln(10^{10} A_t)$	-0.999	$-0.8^{+1.6}_{-3.6}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	$10^5 D/H$	2.577	$2.579^{+0.065}_{-0.067}$	r_{10}	0.0081	< 0.0378
A^{kSZ}	0.0	—	Age/Gyr	13.788	$13.789^{+0.052}_{-0.055}$	$10^9 A_t$	0.037	< 0.168
A_{100}^{dustTT}	8.83	$8.9^{+4.8}_{-4.9}$	z_*	1089.81	$1089.82^{+0.57}_{-0.58}$	$10^9 A_t e^{-2\tau}$	0.033	< 0.149
A_{143}^{dustTT}	10.97	$10.8^{+4.7}_{-4.7}$	r_*	144.54	$144.55^{+0.61}_{-0.61}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	19.8	$18.5^{+8.4}_{-8.4}$	$100\theta_*$	1.04117	$1.04119^{+0.00076}_{-0.00074}$	$f_{2000}^{143 \times 217}$	31.88	32^{+5}_{-5}
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.882	$13.883^{+0.058}_{-0.058}$	f_{2000}^{217}	106.62	$106.9^{+4.4}_{-4.4}$
A_{100}^{dustTE}	0.116	$0.115^{+0.099}_{-0.096}$	z_{drag}	1060.01	$1059.98^{+0.79}_{-0.74}$	$\chi_{BKPLANCK}^2$	735.5	$739.8 (\nu: 3.4)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.077}_{-0.076}$	r_{drag}	147.19	$147.20^{+0.63}_{-0.63}$	χ_{small}^2	396.5	$397.6 (\nu: 2.4)$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.22}$	k_D	0.14080	$0.14078^{+0.00075}_{-0.00075}$	χ_{lowl}^2	23.56	$24.1 (\nu: 0.6)$
A_{143}^{dustTE}	0.224	$0.23^{+0.14}_{-0.14}$	$100\theta_D$	0.160722	$0.16074^{+0.00044}_{-0.00046}$	χ_{plik}^2	2344.7	$2359.2 (\nu: 17.0)$
$A_{143 \times 217}^{dustTE}$	0.666	$0.67^{+0.21}_{-0.21}$	z_{eq}	3390	3390^{+59}_{-59}	χ_{6DF}^2	0.039	$0.064 (\nu: 0.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.70}_{-0.70}$	k_{eq}	0.010346	$0.01035^{+0.00018}_{-0.00018}$	χ_{MGS}^2	1.16	$1.21 (\nu: 0.1)$
c_{100}	0.99972	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_{eq}$	0.8157	$0.816^{+0.011}_{-0.011}$	$\chi_{DR12BAO}^2$	4.66	$5.0 (\nu: 1.2)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	0.4506	$0.4506^{+0.0058}_{-0.0056}$	χ_{prior}^2	1.9	$13.3 (\nu: 12.1)$
H_0	67.61	$67.6^{+1.2}_{-1.1}$	$H(0.15)$	72.90	$72.9^{+1.0}_{-0.98}$	χ_{BAO}^2	5.85	$6.3 (\nu: 0.8)$
Ω_Λ	0.6883	$0.688^{+0.016}_{-0.016}$	$D_M(0.15)$	641.2	$641.2^{+9.9}_{-9.9}$	χ_{CMB}^2	3500.2	$3520.7 (\nu: 20.8)$

Best-fit $\chi_{eff}^2 = 3507.90$; $\bar{\chi}_{eff}^2 = 3540.30$; $R - 1 = 0.00604$
 χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.66 CMB - BK15_dust: 735.50 small_100x143.offlike5_EE_Aplanck_B: 396.48 commander_dx12_v3_2_29: 23.56 plik_rd12_HM_v22b_TTEEE 2344.65

17.52 base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02234^{+0.00039}_{-0.00037}$	Ω_{Λ}	$0.682^{+0.021}_{-0.022}$	$H(0.15)$	$72.5^{+1.4}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1204^{+0.0035}_{-0.0035}$	Ω_{m}	$0.318^{+0.022}_{-0.021}$	$D_{\mathrm{M}}(0.15)$	645^{+14}_{-13}
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00082}_{-0.00081}$	$\Omega_{\mathrm{m}}h^2$	$0.1434^{+0.0033}_{-0.0033}$	$H(0.38)$	$82.8^{+1.0}_{-0.94}$
τ	$0.056^{+0.019}_{-0.014}$	$\Omega_{\mathrm{m}}h^3$	$0.09633^{+0.00076}_{-0.00073}$	$D_{\mathrm{M}}(0.38)$	1536^{+27}_{-27}
$\ln(10^{10}A_{\mathrm{s}})$	$3.049^{+0.042}_{-0.031}$	σ_8	$0.814^{+0.019}_{-0.017}$	$H(0.51)$	$89.55^{+0.79}_{-0.74}$
n_{s}	$0.965^{+0.011}_{-0.011}$	S_8	$0.838^{+0.041}_{-0.040}$	$D_{\mathrm{M}}(0.51)$	1989^{+31}_{-32}
r	< 0.0768	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.023}_{-0.022}$	$H(0.61)$	$95.22^{+0.64}_{-0.59}$
y_{cal}	$1.0009^{+0.0064}_{-0.0064}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.61)$	2314^{+34}_{-34}
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1}$	$\sigma_8/h^{0.5}$	$0.993^{+0.029}_{-0.029}$	$H(2.33)$	$236.8^{+2.1}_{-2.1}$
$A_{B,\mathrm{sync}}$	< 4.91	$r_{\mathrm{drag}}h$	$98.8^{+2.8}_{-2.7}$	$D_{\mathrm{M}}(2.33)$	5766^{+27}_{-29}
$\alpha_{B,\mathrm{dust}}$	—	$\langle d^2 \rangle^{1/2}$	$2.456^{+0.071}_{-0.069}$	$f\sigma_8(0.15)$	$0.463^{+0.021}_{-0.021}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25}$	z_{re}	< 9.61	$\sigma_8(0.15)$	$0.752^{+0.017}_{-0.015}$
$\alpha_{B,\mathrm{sync}}$	—	$10^9 A_{\mathrm{s}}$	$2.109^{+0.091}_{-0.065}$	$f\sigma_8(0.38)$	$0.480^{+0.017}_{-0.017}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.73}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.886^{+0.030}_{-0.030}$	$\sigma_8(0.38)$	$0.666^{+0.015}_{-0.012}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.357	D_{40}	1242^{+35}_{-34}	$f\sigma_8(0.51)$	$0.478^{+0.015}_{-0.015}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5733^{+100}_{-100}	$\sigma_8(0.51)$	$0.623^{+0.014}_{-0.011}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2541^{+35}_{-35}	$f\sigma_8(0.61)$	$0.472^{+0.013}_{-0.013}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.0099}$
A_{100}^{PS}	258^{+70}_{-70}	D_{2000}	$231.1^{+4.1}_{-4.1}$	$f\sigma_8(2.33)$	$0.2985^{+0.0065}_{-0.0047}$
A_{143}^{PS}	46^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$\sigma_8(2.33)$	$0.3074^{+0.0068}_{-0.0049}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24538^{+0.00015}_{-0.00016}$	$r_{0.002}$	< 0.0711
A_{217}^{PS}	116^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016}$	$r_{0.01}$	< 0.0739
A^{kSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.591^{+0.071}_{-0.071}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6}$
$A_{100}^{\mathrm{dust}TT}$	$8.8^{+4.8}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.802^{+0.061}_{-0.064}$	r_{10}	< 0.0365
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.6}$	z_{*}	$1089.99^{+0.70}_{-0.72}$	$10^9 A_{\mathrm{t}}$	< 0.161
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.4}_{-8.5}$	r_{*}	$144.36^{+0.77}_{-0.76}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.144
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$100\theta_{*}$	$1.04107^{+0.00081}_{-0.00080}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.10}_{-0.096}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.866^{+0.071}_{-0.071}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.077}$	z_{drag}	$1059.90^{+0.79}_{-0.77}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.5}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_{drag}	$147.02^{+0.76}_{-0.75}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.4 (\nu: 3.5)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	k_{D}	$0.14092^{+0.00081}_{-0.00081}$	χ_{simall}^2	$397.4 (\nu: 2.1)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	$100\theta_{\mathrm{D}}$	$0.16078^{+0.00045}_{-0.00046}$	χ_{lowl}^2	$24.5 (\nu: 0.7)$
$A_{217}^{\mathrm{dust}TE}$	$2.09^{+0.69}_{-0.69}$	z_{eq}	3410^{+80}_{-78}	χ_{plik}^2	$2359.0 (\nu: 16.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	$0.01041^{+0.00024}_{-0.00024}$	χ_{prior}^2	$13.2 (\nu: 11.8)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.015}_{-0.015}$	χ_{CMB}^2	$3520.3 (\nu: 20.4)$
H_0	$67.2^{+1.6}_{-1.5}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4486^{+0.0077}_{-0.0075}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3533.51; R - 1 = 0.00462$$

17.53 base_r_plikHM_TTTEEE_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02241^{+0.00037}_{-0.00035}$	Ω_m	$0.312^{+0.016}_{-0.015}$	$H(0.38)$	$83.03^{+0.75}_{-0.72}$
$\Omega_c h^2$	$0.1194^{+0.0026}_{-0.0026}$	$\Omega_m h^2$	$0.1425^{+0.0025}_{-0.0025}$	$D_M(0.38)$	1529^{+20}_{-20}
$100\theta_{MC}$	$1.04101^{+0.00077}_{-0.00075}$	$\Omega_m h^3$	$0.09634^{+0.00076}_{-0.00075}$	$H(0.51)$	$89.75^{+0.61}_{-0.57}$
τ	$0.057^{+0.019}_{-0.015}$	σ_8	$0.812^{+0.019}_{-0.016}$	$D_M(0.51)$	1981^{+23}_{-24}
$\ln(10^{10} A_s)$	$3.049^{+0.042}_{-0.032}$	S_8	$0.827^{+0.033}_{-0.032}$	$H(0.61)$	$95.37^{+0.51}_{-0.47}$
n_s	$0.9670^{+0.0093}_{-0.0098}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.018}_{-0.017}$	$D_M(0.61)$	2305^{+25}_{-25}
r	< 0.0796	$\sigma_8 \Omega_m^{0.25}$	$0.607^{+0.018}_{-0.017}$	$H(2.33)$	$236.2^{+1.6}_{-1.6}$
y_{cal}	$1.0010^{+0.0064}_{-0.0065}$	$\sigma_8/h^{0.5}$	$0.987^{+0.026}_{-0.024}$	$D_M(2.33)$	5759^{+23}_{-24}
$A_{B,dust}$	$4.9^{+3.2}_{-2.2}$	$r_{drag} h$	$99.5^{+2.0}_{-2.0}$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.016}$
$A_{B,sync}$	< 4.90	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.063}_{-0.059}$	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.014}$
$\alpha_{B,dust}$	—	z_{re}	< 9.69	$f\sigma_8(0.38)$	$0.476^{+0.014}_{-0.014}$
$\beta_{B,dust}$	$1.60^{+0.25}_{-0.25}$	$10^9 A_s$	$2.110^{+0.090}_{-0.067}$	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.012}$
$\alpha_{B,sync}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.028}_{-0.028}$	$f\sigma_8(0.51)$	$0.475^{+0.013}_{-0.012}$
$\beta_{B,sync}$	$-3.10^{+0.68}_{-0.76}$	D_{40}	1238^{+33}_{-34}	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.011}$
$\epsilon_{dust,sync}$	< 0.366	D_{220}	5738^{+100}_{-100}	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.011}$
A_{217}^{CIB}	46^{+20}_{-20}	D_{810}	2541^{+35}_{-34}	$\sigma_8(0.61)$	$0.592^{+0.013}_{-0.010}$
$\xi^{tSZ \times CIB}$	—	D_{1420}	819^{+13}_{-12}	$f\sigma_8(2.33)$	$0.2985^{+0.0066}_{-0.0049}$
A_{143}^{tSZ}	$5.5^{+4.2}_{-4.9}$	D_{2000}	$231.4^{+4.1}_{-4.0}$	$\sigma_8(2.33)$	$0.3078^{+0.0070}_{-0.0051}$
A_{100}^{PS}	258^{+70}_{-70}	$n_{s,0.002}$	$0.9670^{+0.0093}_{-0.0098}$	$r_{0.002}$	< 0.0738
A_{143}^{PS}	45^{+20}_{-20}	Y_P	$0.24541^{+0.00014}_{-0.00014}$	$r_{0.01}$	< 0.0765
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	Y_P^{BBN}	$0.24674^{+0.00014}_{-0.00014}$	$\ln(10^{10} A_t)$	$-0.8^{+1.6}_{-3.6}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 D/H$	$2.579^{+0.065}_{-0.067}$	r_{10}	< 0.0377
A^{kSZ}	—	Age/Gyr	$13.788^{+0.051}_{-0.055}$	$10^9 A_t$	< 0.168
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.9}$	z_*	$1089.82^{+0.57}_{-0.59}$	$10^9 A_t e^{-2\tau}$	< 0.149
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.6}$	r_*	$144.55^{+0.61}_{-0.61}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	$18.5^{+8.4}_{-8.4}$	$100\theta_*$	$1.04119^{+0.00077}_{-0.00074}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.883^{+0.057}_{-0.058}$	f_{2000}^{217}	$106.8^{+4.4}_{-4.3}$
A_{100}^{dustTE}	$0.115^{+0.099}_{-0.096}$	z_{drag}	$1059.98^{+0.79}_{-0.74}$	$\chi_{BKPLANCK}^2$	$739.8 (\nu: 3.4)$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.077}_{-0.076}$	r_{drag}	$147.20^{+0.62}_{-0.63}$	χ_{simall}^2	$397.6 (\nu: 2.5)$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.23}_{-0.22}$	k_D	$0.14078^{+0.00074}_{-0.00075}$	χ_{lowl}^2	$24.1 (\nu: 0.6)$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$100\theta_D$	$0.16074^{+0.00044}_{-0.00046}$	χ_{plik}^2	$2359.1 (\nu: 16.8)$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.21}_{-0.21}$	z_{eq}	3389^{+59}_{-59}	χ_{6DF}^2	$0.063 (\nu: 0.0)$
A_{217}^{dustTE}	$2.08^{+0.71}_{-0.70}$	k_{eq}	$0.01034^{+0.00018}_{-0.00018}$	χ_{MGS}^2	$1.21 (\nu: 0.1)$
c_{100}	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_{eq}$	$0.816^{+0.011}_{-0.011}$	$\chi_{DR12BAO}^2$	$5.0 (\nu: 1.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	$0.4507^{+0.0058}_{-0.0056}$	χ_{prior}^2	$13.3 (\nu: 12.1)$
H_0	$67.6^{+1.2}_{-1.1}$	$H(0.15)$	$72.9^{+1.0}_{-0.98}$	χ_{BAO}^2	$6.3 (\nu: 0.8)$
Ω_Λ	$0.688^{+0.015}_{-0.016}$	$D_M(0.15)$	$641.1^{+9.8}_{-9.8}$	χ_{CMB}^2	$3520.5 (\nu: 20.5)$

$\bar{\chi}_{eff}^2 = 3540.14$; $R - 1 = 0.00660$

17.54 base_r_CamSpecHM_TT_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02208	$0.02209^{+0.00057}_{-0.00056}$ (+0.1 σ)	$\Omega_m h^3$	0.09590	$0.0959^{+0.0012}_{-0.0012}$ (+0.1 σ)	$D_M(0.15)$	649.4	649^{+21}_{-20} (−0.1 σ)
$\Omega_c h^2$	0.1211	$0.1210^{+0.0055}_{-0.0052}$ (−0.1 σ)	σ_8	0.8143	$0.814^{+0.023}_{-0.023}$ (−0.1 σ)	$H(0.38)$	82.39	$82.4^{+1.5}_{-1.4}$ (+0.1 σ)
$100\theta_{MC}$	1.04075	$1.0408^{+0.0012}_{-0.0012}$ (+0.1 σ)	S_8	0.846	$0.844^{+0.064}_{-0.060}$ (−0.1 σ)	$D_M(0.38)$	1545.8	1545^{+41}_{-41} (−0.1 σ)
τ	0.0528	$0.053^{+0.022}_{-0.022}$ (+0.0 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4632	$0.463^{+0.035}_{-0.033}$ (−0.1 σ)	$H(0.51)$	89.22	$89.3^{+1.2}_{-1.1}$ (+0.1 σ)
$\ln(10^{10} A_s)$	3.0420	$3.042^{+0.043}_{-0.044}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6142	$0.613^{+0.031}_{-0.029}$ (−0.1 σ)	$D_M(0.51)$	2000.6	1999^{+48}_{-48} (−0.1 σ)
n_s	0.9626	$0.963^{+0.015}_{-0.015}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	0.9973	$0.996^{+0.042}_{-0.040}$ (−0.1 σ)	$H(0.61)$	94.93	$94.96^{+0.95}_{-0.86}$ (+0.1 σ)
r	0.0132	< 0.0775 (+0.0 σ)	$r_{\text{drag}} h$	98.08	$98.2^{+4.1}_{-4.2}$ (+0.1 σ)	$D_M(0.61)$	2326	2325^{+52}_{-51} (−0.1 σ)
y_{cal}	1.0006	$1.0007^{+0.0064}_{-0.0064}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.461	$2.46^{+0.10}_{-0.095}$ (−0.1 σ)	$H(2.33)$	237.00	$236.9^{+3.4}_{-3.2}$ (−0.0 σ)
$A_{B,\text{dust}}$	4.60	$4.9^{+3.2}_{-2.1}$ (−0.0 σ)	z_{re}	7.60	$7.6^{+2.1}_{-2.4}$ (+0.0 σ)	$D_M(2.33)$	5780.7	5779^{+41}_{-43} (−0.1 σ)
$A_{B,\text{sync}}$	1.48	< 4.95 (−0.0 σ)	$10^9 A_s$	2.095	$2.094^{+0.093}_{-0.090}$ (−0.1 σ)	$f\sigma_8(0.15)$	0.4668	$0.466^{+0.032}_{-0.030}$ (−0.1 σ)
$\alpha_{B,\text{dust}}$	−0.52	—	$10^9 A_s e^{-2\tau}$	1.8849	$1.885^{+0.036}_{-0.034}$ (−0.2 σ)	$\sigma_8(0.15)$	0.7512	$0.751^{+0.020}_{-0.019}$ (−0.0 σ)
$\beta_{B,\text{dust}}$	1.573	$1.60^{+0.25}_{-0.25}$ (−0.0 σ)	D_{40}	1237.0	1241^{+42}_{-40} (−0.2 σ)	$f\sigma_8(0.38)$	0.4825	$0.482^{+0.025}_{-0.024}$ (−0.1 σ)
$\alpha_{B,\text{sync}}$	−0.31	—	D_{220}	5700	5702^{+110}_{-110} (−0.2 σ)	$\sigma_8(0.38)$	0.6646	$0.664^{+0.016}_{-0.016}$ (−0.0 σ)
$\beta_{B,\text{sync}}$	−3.03	$-3.10^{+0.68}_{-0.74}$ (+0.0 σ)	D_{810}	2535.5	2536^{+36}_{-35} (−0.2 σ)	$f\sigma_8(0.51)$	0.4797	$0.479^{+0.021}_{-0.021}$ (−0.1 σ)
$\epsilon_{\text{dust,sync}}$	−0.34	< 0.366 (−0.0 σ)	D_{1420}	814.2	814^{+14}_{-13} (−0.1 σ)	$\sigma_8(0.51)$	0.6214	$0.621^{+0.014}_{-0.014}$ (−0.0 σ)
A_{100}^{PS}	237	242^{+60}_{-60} (−0.8 σ)	D_{2000}	229.52	$229.6^{+4.8}_{-4.7}$ (−0.0 σ)	$f\sigma_8(0.61)$	0.4737	$0.473^{+0.019}_{-0.019}$ (−0.1 σ)
A_{143}^{PS}	40.8	41^{+20}_{-20} (−1.0 σ)	$n_{s,0.002}$	0.9626	$0.963^{+0.015}_{-0.015}$ (+0.2 σ)	$\sigma_8(0.61)$	0.5910	$0.591^{+0.014}_{-0.013}$ (−0.0 σ)
A_{217}^{PS}	100.4	102^{+30}_{-30} (−1.3 σ)	Y_P	0.245274	$0.24527^{+0.00023}_{-0.00026}$ (+0.1 σ)	$f\sigma_8(2.33)$	0.2975	$0.2974^{+0.0068}_{-0.0066}$ (−0.0 σ)
A_{217}^{CIB}	46.1	41^{+20}_{-20} (−1.1 σ)	Y_P^{BBN}	0.246601	$0.24660^{+0.00023}_{-0.00027}$ (+0.1 σ)	$\sigma_8(2.33)$	0.3062	$0.3061^{+0.0072}_{-0.0070}$ (+0.0 σ)
A_{143}^{tSZ}	6.47	< 8.77 (−0.7 σ)	$10^5 D/H$	2.641	$2.64^{+0.11}_{-0.11}$ (−0.1 σ)	$r_{0.002}$	0.0117	< 0.0716 (+0.0 σ)
$r_{143 \times 217}^{\text{PS}}$	0.565	$0.65^{+0.31}_{-0.33}$	Age/Gyr	13.836	$13.834^{+0.093}_{-0.096}$ (−0.1 σ)	$r_{0.01}$	0.0124	< 0.0745 (+0.0 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.81	—	z_*	1090.39	$1090.4^{+1.1}_{-1.1}$ (−0.1 σ)	$\ln(10^{10} A_t)$	−1.29	$-0.97^{+1.7}_{-3.7}$ (+0.0 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.02	—	r_*	144.36	$144.4^{+1.2}_{-1.2}$ (+0.0 σ)	r_{10}	0.0060	< 0.0369 (+0.0 σ)
A^{kSZ}	0.2	—	$100\theta_*$	1.04097	$1.0410^{+0.0012}_{-0.0012}$ (+0.1 σ)	$10^9 A_t$	0.028	< 0.162 (+0.0 σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	$D_M(z_*)/\text{Gpc}$	13.868	$13.87^{+0.11}_{-0.12}$ (+0.0 σ)	$10^9 A_t e^{-2\tau}$	0.025	< 0.146 (+0.0 σ)
A_{143}^{dust}	0.985	$0.97^{+0.45}_{-0.46}$	z_{drag}	1059.32	$1059.4^{+1.2}_{-1.2}$ (+0.1 σ)	f_{2000}^{143}	31.3	31^{+8}_{-8} (−0.1 σ)
A_{217}^{dust}	0.963	$0.97^{+0.27}_{-0.27}$	r_{drag}	147.12	$147.1^{+1.2}_{-1.3}$ (+0.0 σ)	f_{2000}^{217}	107.7	$107.7^{+5.2}_{-5.2}$ (−0.3 σ)
$A_{143 \times 217}^{\text{dust}}$	0.996	$1.03^{+0.42}_{-0.41}$	k_D	0.14061	$0.1406^{+0.0014}_{-0.0013}$ (−0.0 σ)	$f_{2000}^{143 \times 217}$	33.1	33^{+6}_{-6} (−0.3 σ)
c_{100}	0.99756	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_D$	0.16111	$0.16110^{+0.00070}_{-0.00068}$ (−0.0 σ)	χ_{BKPLANCK}^2	734.9	$739.3 (\nu: 3.7)$ (+0.0 σ)
c_{217}	1.00141	$1.0012^{+0.0041}_{-0.0040}$ (+4.7 σ)	z_{eq}	3422	3420^{+130}_{-120} (−0.1 σ)	χ_{small}^2	396.01	$397.1 (\nu: 1.5)$ (+0.0 σ)
H_0	66.67	$66.7^{+2.4}_{-2.4}$ (+0.1 σ)	k_{eq}	0.010445	$0.01044^{+0.00038}_{-0.00036}$ (−0.1 σ)	χ_{lowl}^2	24.16	$24.7 (\nu: 1.1)$ (−0.2 σ)
Ω_Λ	0.6763	$0.677^{+0.032}_{-0.036}$ (+0.1 σ)	$100\theta_{\text{eq}}$	0.8088	$0.809^{+0.023}_{-0.023}$ (+0.1 σ)	χ_{CamSpec}^2	7049.9	$7063.0 (\nu: 14.1)$
Ω_m	0.3237	$0.323^{+0.036}_{-0.032}$ (−0.1 σ)	$100\theta_{s,\text{eq}}$	0.4473	$0.448^{+0.012}_{-0.012}$ (+0.1 σ)	χ_{prior}^2	2.3	$9.2 (\nu: 7.3)$ (+0.1 σ)
$\Omega_m h^2$	0.1439	$0.1438^{+0.0052}_{-0.0049}$ (−0.1 σ)	$H(0.15)$	72.07	$72.1^{+2.0}_{-2.0}$ (+0.1 σ)	χ_{CMB}^2	8205.0	$8224.0 (\nu: 18.8)$ (+1020.1 σ)

Best-fit $\chi_{\text{eff}}^2 = 8207.30$; $\Delta\chi_{\text{eff}}^2 = 6292.23$; $\bar{\chi}_{\text{eff}}^2 = 8233.28$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.07$; $R - 1 = 0.00244$
 χ_{eff}^2 : CMB - BK15_dust: 734.95 (Δ 0.08) small_100x143_offlike5_EE_Aplanck_B: 396.00 (Δ -0.00) commander_dx12_v3.2.29: 24.16 (Δ -0.10) CamSpec like_10.7HM: 7049.91

17.55 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.02220^{+0.00051}_{-0.00050}$ (+0.1 σ)	S_8	0.8233	$0.823^{+0.039}_{-0.038}$ (−0.1 σ)	$D_M(0.51)$	1983.0	1983^{+28}_{-28} (−0.1 σ)
$\Omega_c h^2$	0.11915	$0.1191^{+0.0032}_{-0.0031}$ (−0.0 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4510	$0.451^{+0.021}_{-0.021}$ (−0.1 σ)	$H(0.61)$	95.25	$95.25^{+0.66}_{-0.62}$ (+0.1 σ)
$100\theta_{MC}$	1.04103	$1.0410^{+0.0010}_{-0.0011}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6038	$0.604^{+0.021}_{-0.020}$ (−0.1 σ)	$D_M(0.61)$	2307.5	2307^{+31}_{-31} (−0.1 σ)
τ	0.0547	$0.055^{+0.021}_{-0.020}$ (+0.0 σ)	$\sigma_8/h^{0.5}$	0.9836	$0.984^{+0.030}_{-0.029}$ (−0.1 σ)	$H(2.33)$	235.85	$235.8^{+2.0}_{-2.0}$ (−0.0 σ)
$\ln(10^{10} A_s)$	3.0410	$3.041^{+0.043}_{-0.043}$ (−0.1 σ)	$r_{drag} h$	99.64	$99.7^{+2.4}_{-2.4}$ (+0.1 σ)	$D_M(2.33)$	5767.4	5767^{+31}_{-32} (−0.1 σ)
n_s	0.9668	$0.967^{+0.011}_{-0.011}$ (+0.2 σ)	$\langle d^2 \rangle^{1/2}$	2.431	$2.430^{+0.071}_{-0.071}$ (−0.1 σ)	$f\sigma_8(0.15)$	0.4556	$0.455^{+0.020}_{-0.020}$ (−0.1 σ)
r	0.0188	< 0.0824 (+0.0 σ)	z_{re}	7.74	$7.7^{+2.1}_{-2.2}$ (+0.0 σ)	$\sigma_8(0.15)$	0.7470	$0.747^{+0.018}_{-0.017}$ (−0.0 σ)
y_{cal}	1.0005	$1.0008^{+0.0065}_{-0.0063}$ (−0.0 σ)	$10^9 A_s$	2.093	$2.094^{+0.092}_{-0.088}$ (−0.1 σ)	$f\sigma_8(0.38)$	0.4739	$0.474^{+0.017}_{-0.017}$ (−0.1 σ)
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.1}$ (−0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8758	$1.877^{+0.030}_{-0.029}$ (−0.2 σ)	$\sigma_8(0.38)$	0.6622	$0.662^{+0.015}_{-0.015}$ (−0.0 σ)
$A_{B,sync}$	1.44	< 4.97 (+0.0 σ)	D_{40}	1229.8	1233^{+37}_{-35} (−0.2 σ)	$f\sigma_8(0.51)$	0.4726	$0.473^{+0.015}_{-0.015}$ (−0.1 σ)
$\alpha_{B,dust}$	−0.50	—	D_{220}	5709	5710^{+110}_{-100} (−0.2 σ)	$\sigma_8(0.51)$	0.6197	$0.620^{+0.014}_{-0.014}$ (−0.0 σ)
$\beta_{B,dust}$	1.578	$1.59^{+0.25}_{-0.24}$ (−0.0 σ)	D_{810}	2533.2	2535^{+36}_{-35} (−0.2 σ)	$f\sigma_8(0.61)$	0.4676	$0.468^{+0.014}_{-0.014}$ (−0.1 σ)
$\alpha_{B,sync}$	−0.29	—	D_{1420}	814.9	816^{+13}_{-13} (−0.1 σ)	$\sigma_8(0.61)$	0.5897	$0.590^{+0.014}_{-0.013}$ (−0.0 σ)
$\beta_{B,sync}$	−3.04	$−3.10^{+0.67}_{-0.75}$ (−0.0 σ)	D_{2000}	229.82	$230.0^{+4.7}_{-4.6}$ (−0.0 σ)	$f\sigma_8(2.33)$	0.2973	$0.2974^{+0.0068}_{-0.0065}$ (−0.0 σ)
$\epsilon_{dust,sync}$	−0.34	< 0.370 (−0.0 σ)	$n_{s,0.002}$	0.9668	$0.967^{+0.011}_{-0.011}$ (+0.2 σ)	$\sigma_8(2.33)$	0.3066	$0.3067^{+0.0070}_{-0.0068}$ (−0.0 σ)
A_{100}^{PS}	240	242^{+60}_{-60} (−0.7 σ)	Y_P	0.245328	$0.24532^{+0.00020}_{-0.00024}$ (+0.1 σ)	$r_{0.002}$	0.0171	< 0.0768 (+0.0 σ)
A_{143}^{PS}	39.2	40^{+20}_{-20} (−1.0 σ)	Y_P^{BBN}	0.246654	$0.24665^{+0.00020}_{-0.00024}$ (+0.1 σ)	$r_{0.01}$	0.0179	< 0.0795 (+0.0 σ)
A_{217}^{PS}	99.8	102^{+30}_{-40} (−1.3 σ)	$10^5 D/H$	2.617	$2.618^{+0.097}_{-0.094}$ (−0.1 σ)	$\ln(10^{10} A_t)$	−0.93	$−0.9^{+1.7}_{-3.6}$ (+0.0 σ)
A_{217}^{CIB}	44.8	40^{+20}_{-20} (−1.1 σ)	Age/Gyr	13.807	$13.807^{+0.072}_{-0.073}$ (−0.1 σ)	r_{10}	0.0087	< 0.0394 (+0.0 σ)
A_{143}^{tSZ}	5.62	< 8.90 (−0.7 σ)	z_*	1090.06	$1090.05^{+0.76}_{-0.75}$ (−0.1 σ)	$10^9 A_t$	0.039	< 0.173 (+0.0 σ)
$r_{143 \times 217}^{PS}$	0.569	$0.65^{+0.31}_{-0.33}$	r_*	144.78	$144.79^{+0.80}_{-0.81}$ (−0.0 σ)	$10^9 A_t e^{-2\tau}$	0.035	< 0.154 (+0.0 σ)
$r_{143 \times 217}^{CIB}$	0.74	—	$100\theta_*$	1.04123	$1.0412^{+0.0010}_{-0.0011}$ (+0.1 σ)	f_{2000}^{143}	31.0	30^{+8}_{-8} (−0.1 σ)
$\xi^{tSZ \times CIB}$	0.04	—	$D_M(z_*)/\text{Gpc}$	13.904	$13.906^{+0.077}_{-0.079}$ (−0.0 σ)	f_{2000}^{217}	107.5	$107.4^{+5.1}_{-5.2}$ (−0.3 σ)
A^{kSZ}	1.6	—	z_{drag}	1059.47	$1059.5^{+1.1}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	32.9	33^{+5}_{-6} (−0.3 σ)
A_{100}^{dust}	1.005	$1.01^{+0.49}_{-0.50}$	r_{drag}	147.50	$147.52^{+0.88}_{-0.88}$ (−0.0 σ)	$\chi_{BKPLANCK}^2$	735.6	$740.0 (\nu: 3.6)$ (+0.0 σ)
A_{143}^{dust}	0.992	$0.97^{+0.44}_{-0.46}$	k_D	0.14031	$0.1403^{+0.0011}_{-0.0011}$ (+0.0 σ)	χ_{small}^2	396.19	$397.3 (\nu: 1.8)$ (+0.0 σ)
A_{217}^{dust}	0.966	$0.97^{+0.27}_{-0.27}$	$100\theta_D$	0.16103	$0.16104^{+0.00068}_{-0.00066}$ (−0.0 σ)	χ_{lowl}^2	23.47	$23.7 (\nu: 0.6)$ (−0.2 σ)
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.42}_{-0.40}$	z_{eq}	3378	3377^{+74}_{-72} (−0.0 σ)	$\chi_{CamSpec}^2$	7050.8	$7063.3 (\nu: 13.8)$
c_{100}	0.99750	$0.9975^{+0.0028}_{-0.0027}$ (−3.5 σ)	k_{eq}	0.010310	$0.01031^{+0.00023}_{-0.00022}$ (−0.0 σ)	χ_{6DF}^2	0.030	$0.064 (\nu: 0.0)$ (−0.0 σ)
c_{217}	1.00140	$1.0012^{+0.0040}_{-0.0039}$ (+4.7 σ)	$100\theta_{eq}$	0.8173	$0.818^{+0.014}_{-0.013}$ (+0.0 σ)	χ_{MGS}^2	1.22	$1.30 (\nu: 0.1)$ (+0.1 σ)
H_0	67.55	$67.6^{+1.4}_{-1.4}$ (+0.1 σ)	$100\theta_{s,eq}$	0.4516	$0.4517^{+0.0070}_{-0.0069}$ (+0.0 σ)	$\chi_{DR12BAO}^2$	4.37	$4.9 (\nu: 1.5)$ (−0.1 σ)
Ω_Λ	0.6888	$0.689^{+0.018}_{-0.019}$ (+0.1 σ)	$H(0.15)$	72.82	$72.8^{+1.2}_{-1.2}$ (+0.1 σ)	χ_{prior}^2	2.3	$9.2 (\nu: 7.3)$ (+0.1 σ)
Ω_m	0.3112	$0.311^{+0.019}_{-0.018}$ (−0.1 σ)	$D_M(0.15)$	641.8	642^{+12}_{-12} (−0.1 σ)	χ_{BAO}^2	5.62	$6.3 (\nu: 1.0)$ (−0.0 σ)
$\Omega_m h^2$	0.14200	$0.1420^{+0.0031}_{-0.0030}$ (−0.0 σ)	$H(0.38)$	82.92	$82.94^{+0.93}_{-0.89}$ (+0.1 σ)	χ_{CMB}^2	8206.1	$8224.3 (\nu: 18.1)$ (+1025.4 σ)
$\Omega_m h^3$	0.09592	$0.0959^{+0.0012}_{-0.0012}$ (+0.1 σ)	$D_M(0.38)$	1530.7	1530^{+24}_{-24} (−0.1 σ)			
σ_8	0.8084	$0.809^{+0.020}_{-0.019}$ (−0.0 σ)	$H(0.51)$	89.63	$89.64^{+0.78}_{-0.73}$ (+0.1 σ)			

Best-fit $\chi_{\text{eff}}^2 = 8214.03$; $\Delta\chi_{\text{eff}}^2 = 6292.09$; $\bar{\chi}_{\text{eff}}^2 = 8239.80$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.72$; $R - 1 = 0.00717$
 χ_{eff}^2 : BAO - 6DF: 0.03 (Δ -0.01) MGS: 1.22 (Δ 0.06) DR12BAO: 4.37 (Δ -0.19) CMB - BK15_dust: 735.63 (Δ 0.08) small.100x143_offlike5.EE_Aplanck_B: 396.19 (Δ 0.00) commander_dx12_v3.2.29: 23.46 (Δ -0.06) CamSpec like.10.7HM: 7050.82

17.56 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02211	$0.02212^{+0.00055}_{-0.00054}$	$(+0.0\sigma)$	σ_8	0.8124	$0.812^{+0.016}_{-0.016}$	$(+0.0\sigma)$	$D_M(0.38)$	1542.3	1541^{+32}_{-32}	(-0.0σ)
$\Omega_c h^2$	0.12065	$0.1205^{+0.0041}_{-0.0040}$	$(+0.0\sigma)$	S_8	0.8399	$0.838^{+0.042}_{-0.041}$	$(+0.0\sigma)$	$H(0.51)$	89.32	$89.36^{+0.97}_{-0.91}$	$(+0.1\sigma)$
$100\theta_{MC}$	1.04081	$1.0408^{+0.0012}_{-0.0012}$	$(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4601	$0.459^{+0.023}_{-0.023}$	$(+0.0\sigma)$	$D_M(0.51)$	1996.5	1995^{+37}_{-38}	(-0.0σ)
τ	0.0529	$0.053^{+0.021}_{-0.021}$	$(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6114	$0.610^{+0.020}_{-0.020}$	$(+0.0\sigma)$	$H(0.61)$	95.00	$95.04^{+0.80}_{-0.75}$	$(+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0410	$3.041^{+0.039}_{-0.039}$	(-0.0σ)	$\sigma_8/h^{0.5}$	0.9935	$0.992^{+0.027}_{-0.027}$	$(+0.0\sigma)$	$D_M(0.61)$	2322.0	2320^{+40}_{-41}	(-0.0σ)
n_s	0.9632	$0.964^{+0.013}_{-0.013}$	$(+0.1\sigma)$	$r_{drag} h$	98.44	$98.6^{+3.2}_{-3.1}$	$(+0.0\sigma)$	$H(2.33)$	236.72	$236.6^{+2.5}_{-2.4}$	$(+0.0\sigma)$
r	0.0132	< 0.0789	$(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.453	$2.450^{+0.064}_{-0.064}$	(-0.1σ)	$D_M(2.33)$	5777.7	5776^{+37}_{-38}	(-0.1σ)
y_{cal}	1.0006	$1.0007^{+0.0064}_{-0.0064}$	$(+0.0\sigma)$	z_{re}	7.61	$7.6^{+2.0}_{-2.3}$	$(+0.1\sigma)$	$f\sigma_8(0.15)$	0.4639	$0.463^{+0.021}_{-0.021}$	$(+0.0\sigma)$
$A_{B,dust}$	4.61	$4.9^{+3.1}_{-2.1}$	$(+0.0\sigma)$	$10^9 A_s$	2.093	$2.092^{+0.083}_{-0.080}$	(-0.0σ)	$\sigma_8(0.15)$	0.7498	$0.749^{+0.014}_{-0.014}$	$(+0.0\sigma)$
$A_{B,sync}$	1.47	< 4.95	$(+0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8824	$1.882^{+0.029}_{-0.029}$	(-0.2σ)	$f\sigma_8(0.38)$	0.4802	$0.479^{+0.016}_{-0.016}$	$(+0.0\sigma)$
$\alpha_{B,dust}$	-0.52	—		D_{40}	1235.3	1239^{+37}_{-35}	(-0.2σ)	$\sigma_8(0.38)$	0.6637	$0.663^{+0.013}_{-0.013}$	$(+0.0\sigma)$
$\beta_{B,dust}$	1.576	$1.60^{+0.24}_{-0.24}$	(-0.0σ)	D_{220}	5703	5705^{+110}_{-100}	(-0.2σ)	$f\sigma_8(0.51)$	0.4777	$0.477^{+0.013}_{-0.014}$	$(+0.0\sigma)$
$\alpha_{B,sync}$	-0.27	—		D_{810}	2534.3	2535^{+35}_{-34}	(-0.2σ)	$\sigma_8(0.51)$	0.6207	$0.620^{+0.012}_{-0.012}$	$(+0.0\sigma)$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.74}$	$(+0.0\sigma)$	D_{1420}	814.0	815^{+14}_{-13}	(-0.1σ)	$f\sigma_8(0.61)$	0.4720	$0.471^{+0.012}_{-0.012}$	$(+0.0\sigma)$
$\epsilon_{dust,sync}$	-0.34	< 0.364	(-0.0σ)	D_{2000}	229.47	$229.6^{+4.8}_{-4.6}$	(-0.0σ)	$\sigma_8(0.61)$	0.5903	$0.590^{+0.012}_{-0.011}$	$(+0.0\sigma)$
A_{100}^{PS}	241	242^{+60}_{-70}	(-0.8σ)	$n_{s,0.002}$	0.9632	$0.964^{+0.013}_{-0.013}$	$(+0.1\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2972^{+0.0061}_{-0.0060}$	$(+0.0\sigma)$
A_{143}^{PS}	39.3	41^{+20}_{-20}	(-1.0σ)	Y_P	0.245289	$0.24529^{+0.00022}_{-0.00026}$	$(+0.0\sigma)$	$\sigma_8(2.33)$	0.3061	$0.3061^{+0.0068}_{-0.0067}$	$(+0.0\sigma)$
A_{217}^{PS}	99.6	102^{+30}_{-30}	(-1.3σ)	Y_P^{BBN}	0.246615	$0.24661^{+0.00022}_{-0.00026}$	$(+0.0\sigma)$	$r_{0.002}$	0.0118	< 0.0729	$(+0.0\sigma)$
A_{217}^{CIB}	45.3	41^{+20}_{-20}	(-1.1σ)	$10^5 D/H$	2.635	$2.63^{+0.11}_{-0.10}$	(-0.0σ)	$r_{0.01}$	0.0125	< 0.0759	$(+0.0\sigma)$
A_{143}^{tSZ}	5.64	< 8.85	(-0.7σ)	Age/Gyr	13.830	$13.827^{+0.084}_{-0.086}$	(-0.1σ)	$\ln(10^{10} A_t)$	-1.29	$-0.9^{+1.7}_{-3.6}$	$(+0.0\sigma)$
$r_{143 \times 217}^{PS}$	0.562	$0.65^{+0.31}_{-0.33}$		z_*	1090.31	$1090.28^{+0.92}_{-0.91}$	(-0.0σ)	r_{10}	0.0060	< 0.0376	$(+0.0\sigma)$
$r_{143 \times 217}^{CIB}$	0.75	—		r_*	144.46	$144.50^{+0.94}_{-0.95}$	(-0.0σ)	$10^9 A_t$	0.028	< 0.165	$(+0.0\sigma)$
$\xi^{tSZ \times CIB}$	0.01	—		$100\theta_*$	1.04101	$1.0410^{+0.0011}_{-0.0012}$	$(+0.1\sigma)$	$10^9 A_t e^{-2\tau}$	0.025	< 0.148	$(+0.0\sigma)$
A^{kSZ}	1.6	—		$D_M(z_*)/\text{Gpc}$	13.877	$13.880^{+0.088}_{-0.089}$	(-0.1σ)	f_{2000}^{143}	31.3	31^{+8}_{-8}	(-0.1σ)
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.50}$		z_{drag}	1059.40	$1059.4^{+1.2}_{-1.2}$	$(+0.1\sigma)$	f_{2000}^{217}	107.8	$107.7^{+5.1}_{-5.2}$	(-0.3σ)
A_{143}^{dust}	0.986	$0.97^{+0.45}_{-0.46}$		r_{drag}	147.21	$147.25^{+0.96}_{-0.97}$	(-0.0σ)	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-6}	(-0.3σ)
A_{217}^{dust}	0.961	$0.97^{+0.27}_{-0.27}$		k_D	0.14054	$0.1405^{+0.0012}_{-0.0011}$	$(+0.1\sigma)$	$\chi_{lensing}^2$	9.00	$9.56 (\nu: 0.4)$	$(+0.0\sigma)$
$A_{143 \times 217}^{dust}$	0.999	$1.03^{+0.42}_{-0.40}$		$100\theta_D$	0.16108	$0.16108^{+0.00069}_{-0.00067}$	(-0.0σ)	$\chi_{BKPLANCK}^2$	735.2	$739.4 (\nu: 3.5)$	$(+0.0\sigma)$
c_{100}	0.99746	$0.9975^{+0.0028}_{-0.0027}$	(-3.5σ)	z_{eq}	3412	3408^{+93}_{-91}	$(+0.0\sigma)$	χ_{small}^2	396.01	$397.0 (\nu: 1.3)$	$(+0.0\sigma)$
c_{217}	1.00143	$1.0012^{+0.0041}_{-0.0040}$	$(+4.7\sigma)$	k_{eq}	0.010412	$0.01040^{+0.00028}_{-0.00028}$	$(+0.0\sigma)$	χ_{lowl}^2	23.99	$24.4 (\nu: 0.8)$	(-0.2σ)
H_0	66.87	$67.0^{+1.9}_{-1.8}$	$(+0.0\sigma)$	$100\theta_{eq}$	0.8108	$0.812^{+0.017}_{-0.017}$	(-0.0σ)	$\chi_{CamSpec}^2$	7049.8	$7062.6 (\nu: 13.2)$	
Ω_Λ	0.6793	$0.680^{+0.025}_{-0.027}$	$(+0.0\sigma)$	$100\theta_{s,eq}$	0.4483	$0.4487^{+0.0089}_{-0.0087}$	(-0.0σ)	χ_{prior}^2	2.4	$9.2 (\nu: 7.3)$	$(+0.1\sigma)$
Ω_m	0.3207	$0.320^{+0.027}_{-0.025}$	(-0.0σ)	$H(0.15)$	72.25	$72.3^{+1.6}_{-1.6}$	$(+0.0\sigma)$	χ_{CMB}^2	8214.0	$8233.0 (\nu: 18.7)$	$(+1023.6\sigma)$
$\Omega_m h^2$	0.14341	$0.1432^{+0.0039}_{-0.0038}$	$(+0.0\sigma)$	$D_M(0.15)$	647.6	647^{+16}_{-16}	(-0.0σ)				
$\Omega_m h^3$	0.09590	$0.0959^{+0.0012}_{-0.0012}$	$(+0.1\sigma)$	$H(0.38)$	82.51	$82.6^{+1.2}_{-1.1}$	$(+0.0\sigma)$				

Best-fit $\chi_{eff}^2 = 8216.43$; $\Delta\chi_{eff}^2 = 6292.11$; $\bar{\chi}_{eff}^2 = 8242.24$; $\Delta\bar{\chi}_{eff}^2 = 6291.88$; $R - 1 = 0.00337$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 9.00 (Δ 0.02) BK15_dust: 735.17 (Δ -0.03) small_100x143_offlike5_EE_Aplanck_B: 396.01 (Δ 0.01) com-mander_dx12_v3_2.29: 23.99 (Δ -0.08) CamSpec like_10.7HM: 7049.83

17.57 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02219	0.02221 $^{+0.00051}_{-0.00050}$	(+0.1 σ)	S_8	0.8268	0.826 $^{+0.031}_{-0.030}$	(+0.0 σ)	$D_M(0.51)$	1985.4	1984 $^{+26}_{-26}$	(-0.1 σ)
$\Omega_c h^2$	0.11942	0.1193 $^{+0.0028}_{-0.0028}$	(+0.0 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4529	0.452 $^{+0.017}_{-0.017}$	(+0.0 σ)	$H(0.61)$	95.20	95.24 $^{+0.62}_{-0.60}$	(+0.1 σ)
$100\theta_{MC}$	1.04098	1.0410 $^{+0.0011}_{-0.0011}$	(+0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6055	0.605 $^{+0.016}_{-0.016}$	(+0.0 σ)	$D_M(0.61)$	2310.1	2308 $^{+28}_{-29}$	(-0.1 σ)
τ	0.0546	0.056 $^{+0.020}_{-0.019}$	(+0.1 σ)	$\sigma_8/h^{0.5}$	0.9860	0.986 $^{+0.023}_{-0.022}$	(+0.0 σ)	$H(2.33)$	236.00	235.9 $^{+1.8}_{-1.8}$	(+0.1 σ)
$\ln(10^{10} A_s)$	3.0425	3.045 $^{+0.038}_{-0.037}$	(-0.0 σ)	$r_{drag} h$	99.42	99.6 $^{+2.2}_{-2.1}$	(+0.0 σ)	$D_M(2.33)$	5769.3	5768 $^{+31}_{-31}$	(-0.1 σ)
n_s	0.9658	0.967 $^{+0.011}_{-0.011}$	(+0.2 σ)	$\langle d^2 \rangle^{1/2}$	2.437	2.436 $^{+0.055}_{-0.055}$	(-0.1 σ)	$f\sigma_8(0.15)$	0.4573	0.457 $^{+0.016}_{-0.016}$	(+0.0 σ)
r	0.0130	< 0.0822	(+0.0 σ)	z_{re}	7.74	7.9 $^{+1.9}_{-2.0}$	(+0.1 σ)	$\sigma_8(0.15)$	0.7480	0.749 $^{+0.015}_{-0.014}$	(+0.0 σ)
y_{cal}	1.0008	1.0009 $^{+0.0063}_{-0.0062}$	(-0.0 σ)	$10^9 A_s$	2.096	2.101 $^{+0.082}_{-0.077}$	(-0.0 σ)	$f\sigma_8(0.38)$	0.4754	0.475 $^{+0.013}_{-0.013}$	(+0.0 σ)
$A_{B,dust}$	4.59	4.9 $^{+3.2}_{-2.1}$	(-0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8789	1.878 $^{+0.028}_{-0.027}$	(-0.2 σ)	$\sigma_8(0.38)$	0.6629	0.664 $^{+0.013}_{-0.012}$	(+0.0 σ)
$A_{B,sync}$	1.46	< 4.95	(+0.0 σ)	D_{40}	1231.2	1235 $^{+36}_{-34}$	(-0.2 σ)	$f\sigma_8(0.51)$	0.4738	0.474 $^{+0.012}_{-0.011}$	(+0.0 σ)
$\alpha_{B,dust}$	-0.50	—		D_{220}	5715	5714 $^{+110}_{-100}$	(-0.2 σ)	$\sigma_8(0.51)$	0.6203	0.621 $^{+0.012}_{-0.012}$	(+0.0 σ)
$\beta_{B,dust}$	1.573	1.59 $^{+0.25}_{-0.24}$	(-0.0 σ)	D_{810}	2535.6	2536 $^{+34}_{-34}$	(-0.2 σ)	$f\sigma_8(0.61)$	0.4687	0.469 $^{+0.011}_{-0.011}$	(+0.0 σ)
$\alpha_{B,sync}$	-0.41	—		D_{1420}	815.3	816 $^{+13}_{-13}$	(-0.1 σ)	$\sigma_8(0.61)$	0.5902	0.591 $^{+0.012}_{-0.011}$	(+0.0 σ)
$\beta_{B,sync}$	-3.03	-3.10 $^{+0.67}_{-0.75}$	(+0.0 σ)	D_{2000}	229.91	230.1 $^{+4.6}_{-4.5}$	(-0.0 σ)	$f\sigma_8(2.33)$	0.2975	0.2979 $^{+0.0060}_{-0.0057}$	(+0.0 σ)
$\epsilon_{dust,sync}$	-0.32	< 0.356	(-0.0 σ)	$n_{s,0.002}$	0.9658	0.967 $^{+0.011}_{-0.011}$	(+0.2 σ)	$\sigma_8(2.33)$	0.3067	0.3071 $^{+0.0064}_{-0.0061}$	(+0.0 σ)
A_{100}^{PS}	240	242 $^{+60}_{-70}$	(-0.7 σ)	Y_P	0.245321	0.24533 $^{+0.00020}_{-0.00024}$	(+0.1 σ)	$r_{0.002}$	0.0117	< 0.0764	(+0.0 σ)
A_{143}^{PS}	40.7	41 $^{+20}_{-20}$	(-1.0 σ)	Y_P^{BBN}	0.246648	0.24665 $^{+0.00020}_{-0.00024}$	(+0.1 σ)	$r_{0.01}$	0.0123	< 0.0793	(+0.0 σ)
A_{217}^{PS}	100.5	102 $^{+30}_{-30}$	(-1.3 σ)	$10^5 D/H$	2.620	2.617 $^{+0.096}_{-0.093}$	(-0.1 σ)	$\ln(10^{10} A_t)$	-1.30	-0.9 $^{+1.7}_{-3.6}$	(+0.0 σ)
A_{217}^{CIB}	44.9	40 $^{+20}_{-20}$	(-1.1 σ)	Age/Gyr	13.812	13.808 $^{+0.070}_{-0.072}$	(-0.1 σ)	r_{10}	0.0060	< 0.0392	(+0.0 σ)
A_{143}^{tSZ}	5.78	< 8.90	(-0.7 σ)	z_*	1090.10	1090.06 $^{+0.75}_{-0.74}$	(-0.1 σ)	$10^9 A_t$	0.027	< 0.173	(+0.0 σ)
$r_{143 \times 217}^{PS}$	0.583	0.65 $^{+0.31}_{-0.33}$		r_*	144.72	144.75 $^{+0.73}_{-0.73}$	(-0.1 σ)	$10^9 A_t e^{-2\tau}$	0.024	< 0.154	(+0.0 σ)
$r_{143 \times 217}^{CIB}$	0.76	—		$100\theta_*$	1.04118	1.0412 $^{+0.0011}_{-0.0011}$	(+0.1 σ)	f_{2000}^{143}	31.0	30 $^{+8}_{-8}$	(-0.1 σ)
$\xi^{tSZ \times CIB}$	0.10	—		$D_M(z_*)/\text{Gpc}$	13.899	13.902 $^{+0.072}_{-0.073}$	(-0.1 σ)	f_{2000}^{217}	107.6	107.4 $^{+5.1}_{-5.2}$	(-0.3 σ)
A^{kSZ}	1.3	—		z_{drag}	1059.47	1059.5 $^{+1.1}_{-1.1}$	(+0.1 σ)	$f_{2000}^{143 \times 217}$	32.9	33 $^{+5}_{-6}$	(-0.3 σ)
A_{100}^{dust}	1.01	1.01 $^{+0.50}_{-0.50}$		r_{drag}	147.45	147.47 $^{+0.80}_{-0.81}$	(-0.1 σ)	$\chi_{lensing}^2$	8.90	9.33 (ν : 0.3)	(+0.1 σ)
A_{143}^{dust}	0.977	0.97 $^{+0.45}_{-0.46}$		k_D	0.14035	0.1403 $^{+0.0011}_{-0.0011}$	(+0.1 σ)	$\chi_{BKPLANCK}^2$	735.6	739.8 (ν : 3.4)	(+0.0 σ)
A_{217}^{dust}	0.966	0.97 $^{+0.27}_{-0.27}$		$100\theta_D$	0.16104	0.16103 $^{+0.00068}_{-0.00066}$	(-0.0 σ)	χ_{small}^2	396.19	397.4 (ν : 1.8)	(+0.0 σ)
$A_{143 \times 217}^{dust}$	1.002	1.03 $^{+0.42}_{-0.40}$		z_{eq}	3384	3380 $^{+65}_{-65}$	(+0.0 σ)	χ_{lowl}^2	23.50	23.9 (ν : 0.6)	(-0.2 σ)
c_{100}	0.99759	0.9975 $^{+0.0028}_{-0.0027}$	(-3.4 σ)	k_{eq}	0.010329	0.01032 $^{+0.00020}_{-0.00020}$	(+0.0 σ)	$\chi_{CamSpec}^2$	7050.6	7062.9 (ν : 13.1)	
c_{217}	1.00142	1.0012 $^{+0.0040}_{-0.0039}$	(+4.6 σ)	$100\theta_{eq}$	0.8161	0.817 $^{+0.012}_{-0.012}$	(-0.0 σ)	χ_{6DF}^2	0.047	0.064 (ν : 0.0)	(-0.0 σ)
H_0	67.43	67.5 $^{+1.3}_{-1.3}$	(+0.0 σ)	$100\theta_{s,eq}$	0.4510	0.4514 $^{+0.0062}_{-0.0061}$	(-0.0 σ)	χ_{MGS}^2	1.10	1.24 (ν : 0.1)	(+0.0 σ)
Ω_Λ	0.6871	0.688 $^{+0.017}_{-0.017}$	(+0.0 σ)	$H(0.15)$	72.72	72.8 $^{+1.1}_{-1.1}$	(+0.0 σ)	$\chi_{DR12BAO}^2$	4.77	5.0 (ν : 1.3)	(-0.0 σ)
Ω_m	0.3129	0.312 $^{+0.017}_{-0.017}$	(-0.0 σ)	$D_M(0.15)$	642.9	642 $^{+11}_{-11}$	(-0.0 σ)	χ_{prior}^2	2.3	9.2 (ν : 7.3)	(+0.1 σ)
$\Omega_m h^2$	0.14226	0.1421 $^{+0.0027}_{-0.0027}$	(+0.0 σ)	$H(0.38)$	82.85	82.91 $^{+0.86}_{-0.83}$	(+0.1 σ)	χ_{CMB}^2	8214.8	8233.2 (ν : 18.3)	(+1024.5 σ)
$\Omega_m h^3$	0.09592	0.0959 $^{+0.0012}_{-0.0011}$	(+0.1 σ)	$D_M(0.38)$	1532.8	1531 $^{+22}_{-22}$	(-0.0 σ)	χ_{BAO}^2	5.92	6.3 (ν : 0.9)	(-0.0 σ)
σ_8	0.8096	0.810 $^{+0.016}_{-0.016}$	(+0.0 σ)	$H(0.51)$	89.57	89.62 $^{+0.73}_{-0.69}$	(+0.1 σ)				

Best-fit $\chi_{eff}^2 = 8223.00$; $\Delta\chi_{eff}^2 = 6292.23$; $\bar{\chi}_{eff}^2 = 8248.72$; $\Delta\bar{\chi}_{eff}^2 = 6291.85$; $R - 1 = 0.00847$
 χ_{eff}^2 : BAO - 6DF: 0.05 (Δ 0.00) MGS: 1.10 (Δ 0.00) DR12BAO: 4.77 (Δ -0.00) CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb_consext8: 8.90 (Δ 0.09) BK15_dust: 735.61 (Δ 0.13) simall_100x143_offlike5_EE_Aplanck_B: 396.19 (Δ -0.01) commander_dx12.v3.2.29: 23.50 (Δ -0.10) CamSpec like_10.7HM: 7050.59

17.58 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02210^{+0.00057}_{-0.00055} \quad (+0.1\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$649^{+21}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1209^{+0.0055}_{-0.0052} \quad (-0.1\sigma)$	σ_8	$0.815^{+0.023}_{-0.021} \quad (-0.1\sigma)$	$H(0.38)$	$82.5^{+1.5}_{-1.4} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	S_8	$0.845^{+0.064}_{-0.060} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1544^{+41}_{-40} \quad (-0.1\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (+0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.463^{+0.035}_{-0.033} \quad (-0.1\sigma)$	$H(0.51)$	$89.3^{+1.2}_{-1.1} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.041}_{-0.030} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.031}_{-0.029} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1999^{+48}_{-48} \quad (-0.1\sigma)$
n_{s}	$0.963^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.997^{+0.042}_{-0.040} \quad (-0.1\sigma)$	$H(0.61)$	$94.98^{+0.95}_{-0.85} \quad (+0.1\sigma)$
r	$< 0.0777 \quad (+0.0\sigma)$	$r_{\mathrm{drag}}h$	$98.2^{+4.1}_{-4.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2324^{+51}_{-51} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.461^{+0.099}_{-0.094} \quad (-0.1\sigma)$	$H(2.33)$	$236.9^{+3.4}_{-3.1} \quad (-0.0\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (-0.0\sigma)$	z_{re}	$< 9.47 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5779^{+41}_{-43} \quad (-0.1\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.96 \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.088}_{-0.063} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.466^{+0.032}_{-0.030} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.036}_{-0.034} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.752^{+0.019}_{-0.017} \quad (-0.1\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (-0.0\sigma)$	D_{40}	$1241^{+42}_{-40} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.482^{+0.025}_{-0.024} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{220}	$5702^{+110}_{-110} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.665^{+0.015}_{-0.013} \quad (-0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.74} \quad (+0.0\sigma)$	D_{810}	$2536^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.479^{+0.021}_{-0.021} \quad (-0.1\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.364 \quad (-0.0\sigma)$	D_{1420}	$814^{+14}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.014}_{-0.012} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{2000}	$229.6^{+4.8}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.963^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.011} \quad (-0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	Y_{P}	$0.24528^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0065}_{-0.0048} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24660^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3066^{+0.0068}_{-0.0049} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.7\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.64^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$r_{0.002}$	$< 0.0719 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.832^{+0.092}_{-0.096} \quad (-0.1\sigma)$	$r_{0.01}$	$< 0.0747 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	z_*	$1090.4^{+1.0}_{-1.0} \quad (-0.1\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.97^{+1.7}_{-3.7} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	r_*	$144.4^{+1.2}_{-1.3} \quad (+0.0\sigma)$	r_{10}	$< 0.0369 \quad (+0.0\sigma)$
A^{kSZ}	—	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.163 \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.11}_{-0.12} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.146 \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.46}$	z_{drag}	$1059.4^{+1.2}_{-1.2} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_{drag}	$147.1^{+1.2}_{-1.3} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.6^{+5.1}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	k_{D}	$0.1406^{+0.0014}_{-0.0013} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_{\mathrm{D}}$	$0.16110^{+0.00069}_{-0.00068} \quad (-0.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.2 \quad (\nu: 3.6) \quad (+0.0\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{eq}	$3418^{+130}_{-120} \quad (-0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (+0.0\sigma)$
H_0	$66.8^{+2.4}_{-2.4} \quad (+0.1\sigma)$	k_{eq}	$0.01043^{+0.00039}_{-0.00036} \quad (-0.1\sigma)$	χ_{lowl}^2	$24.7 \quad (\nu: 1.1) \quad (-0.2\sigma)$
Ω_{Λ}	$0.677^{+0.032}_{-0.036} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.023}_{-0.023} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.9 \quad (\nu: 13.9)$
Ω_{m}	$0.323^{+0.036}_{-0.032} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.448^{+0.012}_{-0.012} \quad (+0.1\sigma)$	χ_{prior}^2	$9.2 \quad (\nu: 7.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1437^{+0.0053}_{-0.0049} \quad (-0.1\sigma)$	$H(0.15)$	$72.2^{+2.0}_{-2.0} \quad (+0.1\sigma)$	χ_{CMB}^2	$8223.8 \quad (\nu: 18.4) \quad (+1031.6\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 8233.01; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.07; R - 1 = 0.00318$$

17.59 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02221^{+0.00051}_{-0.00050} \quad (+0.1\sigma)$	S_8	$0.824^{+0.039}_{-0.037} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1982^{+28}_{-28} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0032}_{-0.0031} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.021}_{-0.020} \quad (-0.1\sigma)$	$H(0.61)$	$95.26^{+0.66}_{-0.62} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0010}_{-0.0011} \quad (+0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2307^{+31}_{-31} \quad (-0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.029}_{-0.028} \quad (-0.1\sigma)$	$H(2.33)$	$235.8^{+2.0}_{-2.0} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.042}_{-0.032} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.4}_{-2.4} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+31}_{-32} \quad (-0.1\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.070}_{-0.066} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.020}_{-0.019} \quad (-0.1\sigma)$
r	$< 0.0827 \quad (+0.0\sigma)$	z_{re}	$< 9.57 \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.015} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0064}_{-0.0063} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.089}_{-0.067} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.016} \quad (-0.1\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.029} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.012} \quad (-0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.97 \quad (+0.0\sigma)$	D_{40}	$1233^{+37}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.015}_{-0.014} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	$5710^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.011} \quad (-0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.59^{+0.25}_{-0.24} \quad (-0.0\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.013} \quad (-0.1\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	$816^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.010} \quad (-0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.75} \quad (-0.0\sigma)$	D_{2000}	$230.1^{+4.7}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0067}_{-0.0051} \quad (-0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.361 \quad (-0.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3070^{+0.0068}_{-0.0051} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.7\sigma)$	Y_{P}	$0.24533^{+0.00020}_{-0.00024} \quad (+0.1\sigma)$	$r_{0.002}$	$< 0.0774 \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00024} \quad (+0.1\sigma)$	$r_{0.01}$	$< 0.0802 \quad (+0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.617^{+0.096}_{-0.094} \quad (-0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.807^{+0.071}_{-0.073} \quad (-0.1\sigma)$	r_{10}	$< 0.0397 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.7\sigma)$	z_*	$1090.05^{+0.76}_{-0.76} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.174 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	r_*	$144.79^{+0.80}_{-0.80} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.155 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.906^{+0.077}_{-0.079} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.2} \quad (-0.3\sigma)$
A^{kSZ}	—	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	r_{drag}	$147.52^{+0.87}_{-0.88} \quad (-0.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.9 \quad (\nu: 3.5) \quad (+0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.44}_{-0.46}$	k_{D}	$0.1403^{+0.0011}_{-0.0011} \quad (+0.0\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00068}_{-0.00066} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.8 \quad (\nu: 0.6) \quad (-0.2\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.40}$	z_{eq}	$3376^{+74}_{-72} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.2 \quad (\nu: 13.5)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	k_{eq}	$0.01031^{+0.00023}_{-0.00022} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.062 \quad (\nu: 0.0) \quad (-0.0\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.013} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.31 \quad (\nu: 0.1) \quad (+0.1\sigma)$
H_0	$67.6^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0070}_{-0.0069} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019} \quad (+0.1\sigma)$	$H(0.15)$	$72.9^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{prior}^2	$9.2 \quad (\nu: 7.3) \quad (+0.1\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+12}_{-12} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0031}_{-0.0030} \quad (-0.0\sigma)$	$H(0.38)$	$82.94^{+0.93}_{-0.88} \quad (+0.1\sigma)$	χ_{CMB}^2	$8224.1 \quad (\nu: 17.7) \quad (+1032.6\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1530^{+24}_{-24} \quad (-0.1\sigma)$		
σ_8	$0.809^{+0.020}_{-0.017} \quad (-0.1\sigma)$	$H(0.51)$	$89.65^{+0.78}_{-0.72} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8239.57; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.71; R - 1 = 0.00860$$

17.60 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02213^{+0.00054}_{-0.00053} \quad (+0.0\sigma)$	σ_8	$0.812^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1540^{+31}_{-31} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1203^{+0.0039}_{-0.0039} \quad (+0.0\sigma)$	S_8	$0.837^{+0.042}_{-0.041} \quad (+0.0\sigma)$	$H(0.51)$	$89.39^{+0.95}_{-0.89} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.023}_{-0.023} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1994^{+36}_{-37} \quad (-0.0\sigma)$
τ	$0.054^{+0.018}_{-0.013} \quad (+0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$H(0.61)$	$95.06^{+0.79}_{-0.74} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.037}_{-0.028} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.992^{+0.026}_{-0.027} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2319^{+39}_{-40} \quad (-0.0\sigma)$
n_{s}	$0.964^{+0.013}_{-0.012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$98.7^{+3.1}_{-3.0} \quad (+0.0\sigma)$	$H(2.33)$	$236.5^{+2.4}_{-2.4} \quad (+0.0\sigma)$
r	$< 0.0796 \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.064}_{-0.064} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5775^{+37}_{-38} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0064} \quad (+0.0\sigma)$	z_{re}	$< 9.38 \quad (+0.1\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.021}_{-0.021} \quad (+0.0\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.1}_{-2.1} \quad (-0.0\sigma)$	10^9A_{s}	$2.097^{+0.080}_{-0.057} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.013} \quad (+0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.95 \quad (+0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.029}_{-0.028} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.016}_{-0.016} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1239^{+37}_{-35} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.010} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.24}_{-0.24} \quad (-0.0\sigma)$	D_{220}	$5705^{+110}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.013}_{-0.014} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2535^{+35}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0092} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.75} \quad (+0.0\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.012}_{-0.012} \quad (+0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.364 \quad (-0.0\sigma)$	D_{2000}	$229.7^{+4.8}_{-4.6} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0087} \quad (+0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.964^{+0.013}_{-0.012} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0059}_{-0.0044} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	Y_{P}	$0.24529^{+0.00021}_{-0.00025} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0065}_{-0.0048} \quad (+0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24662^{+0.00021}_{-0.00026} \quad (+0.0\sigma)$	$r_{0.002}$	$< 0.0740 \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.099} \quad (-0.0\sigma)$	$r_{0.01}$	$< 0.0767 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.7\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.825^{+0.083}_{-0.085} \quad (-0.1\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6} \quad (+0.0\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	z_*	$1090.25^{+0.90}_{-0.90} \quad (-0.0\sigma)$	r_{10}	$< 0.0379 \quad (+0.0\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	r_*	$144.53^{+0.92}_{-0.92} \quad (-0.0\sigma)$	10^9A_{t}	$< 0.167 \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$100\theta_*$	$1.0411^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$10^9A_{\mathrm{t}}e^{-2\tau}$	$< 0.150 \quad (+0.0\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.883^{+0.087}_{-0.087} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_{drag}	$1059.4^{+1.2}_{-1.2} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.6^{+5.1}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.46}$	r_{drag}	$147.27^{+0.94}_{-0.95} \quad (-0.1\sigma)$	$f_{2000}^{143\times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	k_{D}	$0.1405^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.54 \quad (\nu: 0.4) \quad (+0.0\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	$100\theta_{\mathrm{D}}$	$0.16107^{+0.00068}_{-0.00067} \quad (-0.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.4 \quad (\nu: 3.5) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	$3405^{+89}_{-89} \quad (+0.0\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.3) \quad (+0.0\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	k_{eq}	$0.01039^{+0.00027}_{-0.00027} \quad (+0.0\sigma)$	χ_{lowl}^2	$24.4 \quad (\nu: 0.7) \quad (-0.2\sigma)$
H_0	$67.0^{+1.8}_{-1.7} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.017}_{-0.016} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.5 \quad (\nu: 13.0)$
Ω_{Λ}	$0.681^{+0.024}_{-0.025} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4490^{+0.0087}_{-0.0084} \quad (-0.0\sigma)$	χ_{prior}^2	$9.2 \quad (\nu: 7.3) \quad (+0.1\sigma)$
Ω_{m}	$0.319^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$H(0.15)$	$72.4^{+1.6}_{-1.5} \quad (+0.0\sigma)$	χ_{CMB}^2	$8232.8 \quad (\nu: 18.2) \quad (+1031.4\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1431^{+0.0037}_{-0.0037} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+15}_{-16} \quad (-0.0\sigma)$		
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$H(0.38)$	$82.6^{+1.2}_{-1.1} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8241.99; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.89; R - 1 = 0.00437$$

17.61 base_r_CamSpecHM_TT_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02221^{+0.00051}_{-0.00049} \quad (+0.1\sigma)$	S_8	$0.826^{+0.031}_{-0.030} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1983^{+26}_{-26} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0028}_{-0.0027} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.61)$	$95.25^{+0.62}_{-0.59} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.015} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2308^{+28}_{-29} \quad (-0.1\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.022} \quad (+0.0\sigma)$	$H(2.33)$	$235.9^{+1.8}_{-1.8} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.037}_{-0.030} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$99.6^{+2.2}_{-2.1} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+30}_{-31} \quad (-0.1\sigma)$
n_{s}	$0.967^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.054}_{-0.054} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.016}_{-0.016} \quad (+0.0\sigma)$
r	$< 0.0824 \quad (+0.0\sigma)$	z_{re}	$< 9.52 \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013} \quad (+0.0\sigma)$
y_{cal}	$1.0009^{+0.0063}_{-0.0062} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.080}_{-0.062} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.013}_{-0.013} \quad (+0.0\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.011} \quad (+0.0\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.95 \quad (+0.0\sigma)$	D_{40}	$1235^{+36}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.011} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{220}	$5714^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0099} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.24} \quad (-0.0\sigma)$	D_{810}	$2536^{+34}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010} \quad (+0.0\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{1420}	$816^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0094} \quad (+0.0\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.75} \quad (+0.0\sigma)$	D_{2000}	$230.1^{+4.6}_{-4.5} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.2981^{+0.0059}_{-0.0048} \quad (+0.0\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.351 \quad (-0.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0063}_{-0.0050} \quad (+0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.7\sigma)$	Y_{P}	$0.24533^{+0.00020}_{-0.00023} \quad (+0.1\sigma)$	$r_{0.002}$	$< 0.0768 \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00024} \quad (+0.1\sigma)$	$r_{0.01}$	$< 0.0795 \quad (+0.0\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.616^{+0.096}_{-0.093} \quad (-0.1\sigma)$	$\ln(10^{10} A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.6} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.807^{+0.070}_{-0.072} \quad (-0.1\sigma)$	r_{10}	$< 0.0393 \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.7\sigma)$	z_*	$1090.06^{+0.74}_{-0.74} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.174 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	r_*	$144.76^{+0.73}_{-0.73} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{t}} e^{-2\tau}$	$< 0.154 \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$100\theta_*$	$1.0412^{+0.0010}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.902^{+0.071}_{-0.072} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.0}_{-5.2} \quad (-0.3\sigma)$
A^{kSZ}	—	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-6} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_{drag}	$147.48^{+0.80}_{-0.80} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.30 \quad (\nu: 0.2) \quad (+0.2\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.46}$	k_{D}	$0.1403^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.8 \quad (\nu: 3.4) \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00067}_{-0.00065} \quad (-0.0\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 1.9) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	z_{eq}	$3380^{+64}_{-64} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.9 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	k_{eq}	$0.01032^{+0.00020}_{-0.00020} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.8 \quad (\nu: 13.0)$
c_{217}	$1.0011^{+0.0040}_{-0.0039} \quad (+4.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.062 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	$67.5^{+1.3}_{-1.3} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4514^{+0.0062}_{-0.0061} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.25 \quad (\nu: 0.1) \quad (+0.0\sigma)$
Ω_{Λ}	$0.688^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.15)$	$72.8^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.2) \quad (-0.0\sigma)$
Ω_{m}	$0.312^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+11}_{-11} \quad (-0.0\sigma)$	χ_{prior}^2	$9.2 \quad (\nu: 7.3) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0027}_{-0.0027} \quad (+0.0\sigma)$	$H(0.38)$	$82.92^{+0.86}_{-0.82} \quad (+0.1\sigma)$	χ_{CMB}^2	$8233.1 \quad (\nu: 18.1) \quad (+1027.9\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1531^{+22}_{-22} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.0\sigma)$
σ_8	$0.810^{+0.016}_{-0.014} \quad (+0.0\sigma)$	$H(0.51)$	$89.63^{+0.72}_{-0.69} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8248.57; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.85; R - 1 = 0.00954$$

17.62 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022276	$0.02228^{+0.00042}_{-0.00041} \quad (-0.4\sigma)$	$\Omega_{\mathrm{m}}h^2$	0.14281	$0.1427^{+0.0034}_{-0.0033} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	644.0	$644^{+14}_{-13} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.11989	$0.1198^{+0.0036}_{-0.0035} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}}h^3$	0.09610	$0.09608^{+0.00083}_{-0.00081} \quad (-0.8\sigma)$	$H(0.38)$	82.79	$82.82^{+0.98}_{-0.97} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04085	$1.04086^{+0.00081}_{-0.00080} \quad (-0.1\sigma)$	σ_8	0.8095	$0.810^{+0.020}_{-0.020} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.38)$	1534.9	$1534^{+27}_{-27} \quad (-0.2\sigma)$
τ	0.0530	$0.054^{+0.022}_{-0.021} \quad (-0.2\sigma)$	S_8	0.8300	$0.829^{+0.042}_{-0.041} \quad (-0.5\sigma)$	$H(0.51)$	89.55	$89.57^{+0.78}_{-0.75} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0398	$3.041^{+0.045}_{-0.043} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4546	$0.454^{+0.023}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	1987.7	$1987^{+32}_{-31} \quad (-0.2\sigma)$
n_{s}	0.9656	$0.966^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6066	$0.606^{+0.021}_{-0.021} \quad (-0.6\sigma)$	$H(0.61)$	95.20	$95.21^{+0.64}_{-0.61} \quad (-0.0\sigma)$
r	0.0194	$< 0.0887 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9868	$0.987^{+0.030}_{-0.031} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	2312.5	$2311^{+34}_{-34} \quad (-0.2\sigma)$
y_{cal}	1.0005	$1.0007^{+0.0064}_{-0.0065} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	99.07	$99.2^{+2.7}_{-2.8} \quad (+0.4\sigma)$	$H(2.33)$	236.38	$236.3^{+2.2}_{-2.2} \quad (-0.6\sigma)$
$A_{B,\mathrm{dust}}$	4.60	$4.9^{+3.2}_{-2.1} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.438^{+0.073}_{-0.074} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	5768.3	$5768^{+29}_{-29} \quad (+0.2\sigma)$
$A_{B,\mathrm{sync}}$	1.49	$< 4.92 \quad (-0.0\sigma)$	z_{re}	7.56	$7.6^{+2.1}_{-2.3} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4589	$0.458^{+0.021}_{-0.021} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{dust}}$	-0.50	—	10^9A_{s}	2.090	$2.092^{+0.095}_{-0.088} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7477	$0.748^{+0.018}_{-0.018} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{dust}}$	1.580	$1.60^{+0.25}_{-0.25} \quad (+0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8801	$1.880^{+0.030}_{-0.030} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	0.4763	$0.476^{+0.017}_{-0.017} \quad (-0.6\sigma)$
$\alpha_{B,\mathrm{sync}}$	-0.23	—	D_{40}	1233.5	$1237^{+38}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6623	$0.663^{+0.016}_{-0.015} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.73} \quad (+0.0\sigma)$	D_{220}	5716	$5716^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4745	$0.474^{+0.015}_{-0.016} \quad (-0.6\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.35	$< 0.346 \quad (-0.0\sigma)$	D_{810}	2535.9	$2536^{+36}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6196	$0.620^{+0.014}_{-0.014} \quad (-0.5\sigma)$
A_{100}^{PS}	235	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{1420}	815.9	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4692	$0.469^{+0.014}_{-0.014} \quad (-0.6\sigma)$
A_{143}^{PS}	39.6	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{2000}	230.31	$230.4^{+4.3}_{-4.3} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5895	$0.590^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{217}^{PS}	102.6	$103^{+30}_{-40} \quad (-1.3\sigma)$	$n_{\mathrm{s},0.002}$	0.9656	$0.966^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	0.2971	$0.2972^{+0.0069}_{-0.0066} \quad (-0.4\sigma)$
A_{217}^{CIB}	44.2	$40^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	0.245357	$0.24536^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	0.3061	$0.3063^{+0.0072}_{-0.0068} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.51	$< 8.81 \quad (-0.8\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246684	$0.24668^{+0.00016}_{-0.00019} \quad (-0.4\sigma)$	$r_{0.002}$	0.0175	$< 0.0829 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.601	$0.66^{+0.31}_{-0.33}$	$10^5\mathrm{D}/\mathrm{H}$	2.603	$2.604^{+0.079}_{-0.076} \quad (+0.4\sigma)$	$r_{0.01}$	0.0184	$< 0.0857 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.76	—	Age/Gyr	13.809	$13.808^{+0.064}_{-0.064} \quad (+0.2\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	-0.90	$-0.7^{+1.6}_{-3.3} \quad (+0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.09	—	z_*	1090.03	$1090.02^{+0.74}_{-0.72} \quad (+0.1\sigma)$	r_{10}	0.0089	$< 0.0427 \quad (+0.3\sigma)$
A^{kSZ}	0.1	—	r_*	144.53	$144.57^{+0.82}_{-0.81} \quad (+0.7\sigma)$	10^9A_{t}	0.040	$< 0.185 \quad (+0.3\sigma)$
A_{100}^{dust}	1.00	$1.00^{+0.50}_{-0.50}$	$100\theta_*$	1.04104	$1.04105^{+0.00080}_{-0.00079} \quad (-0.1\sigma)$	$10^9A_{\mathrm{t}}e^{-2\tau}$	0.036	$< 0.167 \quad (+0.3\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.45}_{-0.45}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.883	$13.887^{+0.077}_{-0.075} \quad (+0.8\sigma)$	f_{2000}^{143}	30.1	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.971	$0.98^{+0.27}_{-0.26}$	z_{drag}	1059.70	$1059.70^{+0.88}_{-0.88} \quad (-0.7\sigma)$	f_{2000}^{217}	106.92	$106.9^{+5.0}_{-5.0} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.009	$1.03^{+0.42}_{-0.41}$	r_{drag}	147.23	$147.26^{+0.83}_{-0.82} \quad (+0.8\sigma)$	$f_{2000}^{143 \times 217}$	32.3	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99764	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	0.14065	$0.14062^{+0.00093}_{-0.00092} \quad (-1.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.5	$739.9 \quad (\nu: 3.7) \quad (+0.2\sigma)$
c_{217}	1.00126	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$100\theta_{\mathrm{D}}$	0.16088	$0.16089^{+0.00052}_{-0.00050} \quad (+0.6\sigma)$	χ_{simall}^2	395.96	$397.2 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	z_{eq}	3397	$3394^{+82}_{-80} \quad (-0.6\sigma)$	χ_{lowl}^2	23.74	$24.2 \quad (\nu: 0.7) \quad (-0.3\sigma)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	k_{eq}	0.010369	$0.01036^{+0.00025}_{-0.00024} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.9	$11513.5 \quad (\nu: 15.6)$
H_0	67.29	$67.3^{+1.6}_{-1.6} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	0.8139	$0.814^{+0.015}_{-0.015} \quad (+0.5\sigma)$	χ_{prior}^2	2.2	$9.5 \quad (\nu: 7.1) \quad (-0.8\sigma)$
Ω_{Λ}	0.6846	$0.685^{+0.021}_{-0.023} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s},\mathrm{eq}}$	0.4498	$0.4501^{+0.0078}_{-0.0077} \quad (+0.5\sigma)$	χ_{CMB}^2	12654.1	$12674.8 \quad (\nu: 20.2) \quad (+1421.7\sigma)$
Ω_{m}	0.3154	$0.315^{+0.023}_{-0.021} \quad (-0.4\sigma)$	$H(0.15)$	72.61	$72.7^{+1.3}_{-1.3} \quad (+0.2\sigma)$			

Best-fit $\chi_{\mathrm{eff}}^2 = 12656.30$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.79$; $\bar{\chi}_{\mathrm{eff}}^2 = 12684.27$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.56$; $R - 1 = 0.00430$
 χ_{eff}^2 : CMB - BK15_dust: 735.45 (Δ 0.25) simall_100x143_offlike5_EE_Aplanck_B: 395.96 (Δ -0.21) commander_dx12_v3_2_29: 23.74 (Δ -0.23) CamSpec like_10.7HM_1400_unified: 11498.91

17.63 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022330	$0.02233^{+0.00039}_{-0.00038}$ (-0.6σ)	$\Omega_{\mathrm{m}}h^3$	0.09609	$0.09608^{+0.00084}_{-0.00080}$ (-0.9σ)	$D_{\mathrm{M}}(0.38)$	1528.3	1528^{+20}_{-20} (-0.1σ)
$\Omega_{\mathrm{c}}h^2$	0.11901	$0.1190^{+0.0026}_{-0.0026}$ (-0.4σ)	σ_8	0.8079	$0.808^{+0.020}_{-0.019}$ (-0.5σ)	$H(0.51)$	89.73	$89.73^{+0.62}_{-0.59}$ (-0.1σ)
$100\theta_{\mathrm{MC}}$	1.04095	$1.04095^{+0.00076}_{-0.00075}$ (-0.2σ)	S_8	0.8213	$0.821^{+0.033}_{-0.032}$ (-0.5σ)	$D_{\mathrm{M}}(0.51)$	1980.1	1980^{+23}_{-23} (-0.1σ)
τ	0.0548	$0.055^{+0.022}_{-0.021}$ (-0.2σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4498	$0.450^{+0.018}_{-0.018}$ (-0.5σ)	$H(0.61)$	95.33	$95.33^{+0.51}_{-0.49}$ (-0.2σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0415	$3.041^{+0.046}_{-0.043}$ (-0.4σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6028	$0.603^{+0.019}_{-0.018}$ (-0.5σ)	$D_{\mathrm{M}}(0.61)$	2304.3	2304^{+25}_{-25} (-0.1σ)
n_{s}	0.9681	$0.968^{+0.010}_{-0.010}$ $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9821	$0.982^{+0.027}_{-0.027}$ (-0.5σ)	$H(2.33)$	235.87	$235.9^{+1.6}_{-1.6}$ (-0.6σ)
r	0.0213	< 0.0899 $(+0.3\sigma)$	$r_{\mathrm{drag}}h$	99.76	$99.8^{+2.0}_{-2.0}$ $(+0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	5762.7	5763^{+24}_{-24} $(+0.4\sigma)$
y_{cal}	1.0007	$1.0008^{+0.0062}_{-0.0065}$ (-0.1σ)	$\langle d^2 \rangle^{1/2}$	2.426	$2.427^{+0.066}_{-0.066}$ (-0.5σ)	$f\sigma_8(0.15)$	0.4545	$0.454^{+0.017}_{-0.017}$ (-0.5σ)
$A_{B,\mathrm{dust}}$	4.57	$4.9^{+3.2}_{-2.2}$ (-0.0σ)	z_{re}	7.72	$7.7^{+2.1}_{-2.2}$ (-0.2σ)	$\sigma_8(0.15)$	0.7467	$0.747^{+0.018}_{-0.017}$ (-0.5σ)
$A_{B,\mathrm{sync}}$	1.40	< 4.92 (-0.0σ)	$10^9 A_{\mathrm{s}}$	2.094	$2.094^{+0.097}_{-0.088}$ (-0.4σ)	$f\sigma_8(0.38)$	0.4731	$0.473^{+0.015}_{-0.015}$ (-0.5σ)
$\alpha_{B,\mathrm{dust}}$	-0.49	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8765	$1.877^{+0.029}_{-0.028}$ (-0.5σ)	$\sigma_8(0.38)$	0.6621	$0.662^{+0.016}_{-0.015}$ (-0.5σ)
$\beta_{B,\mathrm{dust}}$	1.580	$1.60^{+0.25}_{-0.25}$ $(+0.0\sigma)$	D_{40}	1229.1	1234^{+36}_{-34} (-0.3σ)	$f\sigma_8(0.51)$	0.4719	$0.472^{+0.014}_{-0.013}$ (-0.5σ)
$\alpha_{B,\mathrm{sync}}$	-0.35	—	D_{220}	5718	5720^{+100}_{-99} (-0.5σ)	$\sigma_8(0.51)$	0.6197	$0.620^{+0.015}_{-0.014}$ (-0.5σ)
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.69}_{-0.73}$ $(+0.0\sigma)$	D_{810}	2535.9	2536^{+35}_{-35} (-0.4σ)	$f\sigma_8(0.61)$	0.4671	$0.467^{+0.013}_{-0.013}$ (-0.5σ)
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.35	< 0.352 (-0.0σ)	D_{1420}	816.8	817^{+12}_{-13} (-0.4σ)	$\sigma_8(0.61)$	0.5897	$0.590^{+0.014}_{-0.013}$ (-0.4σ)
A_{100}^{PS}	233	239^{+60}_{-60} (-0.7σ)	D_{2000}	230.66	$230.6^{+4.2}_{-4.2}$ (-0.5σ)	$f\sigma_8(2.33)$	0.2974	$0.2973^{+0.0070}_{-0.0066}$ (-0.4σ)
A_{143}^{PS}	38.7	39^{+20}_{-20} (-0.8σ)	$n_{\mathrm{s},0.002}$	0.9681	$0.968^{+0.010}_{-0.010}$ $(+0.2\sigma)$	$\sigma_8(2.33)$	0.3066	$0.3066^{+0.0073}_{-0.0068}$ (-0.4σ)
A_{217}^{PS}	102.6	103^{+30}_{-40} (-1.2σ)	Y_{P}	0.245379	$0.24538^{+0.00015}_{-0.00016}$ (-0.6σ)	$r_{0.002}$	0.0194	< 0.0843 $(+0.3\sigma)$
A_{217}^{CIB}	44.1	39^{+20}_{-20} (-1.1σ)	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246706	$0.24670^{+0.00015}_{-0.00016}$ (-0.6σ)	$r_{0.01}$	0.0204	< 0.0870 $(+0.3\sigma)$
A_{143}^{tSZ}	6.61	< 8.78 (-0.8σ)	$10^5 \mathrm{D}/\mathrm{H}$	2.593	$2.594^{+0.073}_{-0.071}$ $(+0.6\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	-0.81	$-0.6^{+1.5}_{-3.3}$ $(+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.594	$0.66^{+0.31}_{-0.34}$	Age/Gyr	13.796	$13.797^{+0.054}_{-0.055}$ $(+0.4\sigma)$	r_{10}	0.0099	< 0.0433 $(+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.77	—	z_*	1089.88	$1089.89^{+0.61}_{-0.60}$ $(+0.3\sigma)$	$10^9 A_{\mathrm{t}}$	0.045	< 0.188 $(+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.08	—	r_*	144.72	$144.72^{+0.65}_{-0.63}$ $(+0.7\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.040	< 0.168 $(+0.3\sigma)$
A^{kSZ}	0.0	—	$100\theta_*$	1.04114	$1.04114^{+0.00075}_{-0.00074}$ (-0.2σ)	f_{2000}^{143}	29.7	29^{+7}_{-7} $(+0.1\sigma)$
A_{100}^{dust}	1.01	$1.00^{+0.51}_{-0.50}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.900	$13.900^{+0.062}_{-0.060}$ $(+0.8\sigma)$	f_{2000}^{217}	106.7	$106.8^{+5.1}_{-4.9}$ (-0.1σ)
A_{143}^{dust}	0.968	$0.96^{+0.46}_{-0.44}$	z_{drag}	1059.78	$1059.76^{+0.86}_{-0.86}$ (-0.8σ)	$f_{2000}^{143 \times 217}$	31.9	32^{+5}_{-5} $(+0.0\sigma)$
A_{217}^{dust}	0.972	$0.98^{+0.27}_{-0.27}$	r_{drag}	147.40	$147.40^{+0.68}_{-0.67}$ $(+0.8\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.7	740.2 $(\nu: 3.6)$ $(+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	1.004	$1.03^{+0.42}_{-0.40}$	k_{D}	0.14051	$0.14050^{+0.00085}_{-0.00084}$ (-0.9σ)	χ_{simall}^2	396.16	397.3 $(\nu: 1.9)$ (-0.1σ)
c_{100}	0.99763	$0.9975^{+0.0027}_{-0.0027}$ (-3.6σ)	$100\theta_{\mathrm{D}}$	0.160851	$0.16086^{+0.00049}_{-0.00049}$ $(+0.7\sigma)$	χ_{lowl}^2	23.32	23.8 $(\nu: 0.6)$ (-0.2σ)
c_{217}	1.00128	$1.0011^{+0.0039}_{-0.0040}$ $(+4.7\sigma)$	z_{eq}	3378	3378^{+60}_{-60} (-0.5σ)	$\chi_{\mathrm{CamSpec}}^2$	11499.2	11513.4 $(\nu: 15.5)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	k_{eq}	0.010309	$0.01031^{+0.00018}_{-0.00018}$ (-0.5σ)	χ_{6DF}^2	0.022	0.048 $(\nu: 0.0)$ (-0.2σ)
c_{EE}	0.9923	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{eq}}$	0.8176	$0.818^{+0.012}_{-0.011}$ $(+0.4\sigma)$	χ_{MGS}^2	1.28	1.33 $(\nu: 0.1)$ $(+0.3\sigma)$
H_0	67.68	$67.7^{+1.2}_{-1.2}$ $(+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4517	$0.4517^{+0.0059}_{-0.0057}$ $(+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	4.23	4.6 $(\nu: 0.9)$ (-0.3σ)
Ω_{Λ}	0.6900	$0.690^{+0.015}_{-0.016}$ $(+0.3\sigma)$	$H(0.15)$	72.94	$72.9^{+1.0}_{-0.99}$ $(+0.1\sigma)$	χ_{prior}^2	2.3	9.5 $(\nu: 7.2)$ (-0.8σ)
Ω_{m}	0.3100	$0.310^{+0.016}_{-0.015}$ (-0.3σ)	$D_{\mathrm{M}}(0.15)$	640.7	$641^{+10}_{-9.8}$ (-0.1σ)	χ_{BAO}^2	5.54	6.0 $(\nu: 0.5)$ (-0.2σ)
$\Omega_{\mathrm{m}}h^2$	0.14199	$0.1420^{+0.0025}_{-0.0025}$ (-0.5σ)	$H(0.38)$	83.03	$83.02^{+0.75}_{-0.73}$ $(+0.0\sigma)$	χ_{CMB}^2	12654.4	12674.7 $(\nu: 19.9)$ $(+1418.5\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 12662.21$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.32$; $\bar{\chi}_{\mathrm{eff}}^2 = 12690.24$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.94$; $R - 1 = 0.00669$
 χ_{eff}^2 : BAO - 6DF: 0.02 (Δ -0.02) MGS: 1.28 (Δ 0.12) DR12BAO: 4.24 (Δ -0.42) CMB - BK15_dust: 735.72 (Δ 0.23) simall.100x143_offlike5_EE_Aplanck_B: 396.17 (Δ -0.31) commander_dx12.v3.2.29: 23.32 (Δ -0.25) CamSpec like_10.7HM.1400_unified: 11499.19

17.64 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022288	$0.02228^{+0.00042}_{-0.00041}$ (-0.5σ)	$\Omega_{\mathrm{m}}h^2$	0.14281	$0.1427^{+0.0029}_{-0.0030}$ (-0.4σ)	$D_{\mathrm{M}}(0.15)$	643.8	644^{+12}_{-12} (-0.1σ)
$\Omega_{\mathrm{c}}h^2$	0.11988	$0.1198^{+0.0031}_{-0.0031}$ (-0.3σ)	$\Omega_{\mathrm{m}}h^3$	0.09613	$0.09608^{+0.00083}_{-0.00079}$ (-0.8σ)	$H(0.38)$	82.81	$82.82^{+0.90}_{-0.86}$ (-0.0σ)
$100\theta_{\mathrm{MC}}$	1.04086	$1.04085^{+0.00080}_{-0.00077}$ (-0.2σ)	σ_8	0.8100	$0.810^{+0.016}_{-0.015}$ (-0.3σ)	$D_{\mathrm{M}}(0.38)$	1534.5	1534^{+24}_{-24} (-0.0σ)
τ	0.0534	$0.054^{+0.021}_{-0.019}$ (-0.1σ)	S_8	0.8303	$0.830^{+0.033}_{-0.033}$ (-0.3σ)	$H(0.51)$	89.56	$89.57^{+0.72}_{-0.68}$ (-0.1σ)
$\ln(10^{10}A_{\mathrm{s}})$	3.0412	$3.042^{+0.040}_{-0.037}$ (-0.2σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4548	$0.455^{+0.018}_{-0.018}$ (-0.3σ)	$D_{\mathrm{M}}(0.51)$	1987.3	1987^{+28}_{-29} (-0.0σ)
n_{s}	0.9657	$0.966^{+0.011}_{-0.011}$ $(+0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6070	$0.607^{+0.017}_{-0.017}$ (-0.3σ)	$H(0.61)$	95.21	$95.21^{+0.60}_{-0.56}$ (-0.2σ)
r	0.0192	< 0.0878 $(+0.3\sigma)$	$\sigma_8/h^{0.5}$	0.9873	$0.987^{+0.023}_{-0.023}$ (-0.3σ)	$D_{\mathrm{M}}(0.61)$	2312.0	2312^{+30}_{-31} (-0.0σ)
y_{cal}	1.0007	$1.0008^{+0.0063}_{-0.0065}$ (-0.0σ)	$r_{\mathrm{drag}}h$	99.09	$99.2^{+2.5}_{-2.4}$ $(+0.2\sigma)$	$H(2.33)$	236.39	$236.3^{+1.9}_{-1.9}$ (-0.4σ)
$A_{B,\mathrm{dust}}$	4.62	$4.9^{+3.2}_{-2.1}$ $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.440	$2.440^{+0.057}_{-0.057}$ (-0.4σ)	$D_{\mathrm{M}}(2.33)$	5767.6	5768^{+27}_{-28} $(+0.3\sigma)$
$A_{B,\mathrm{sync}}$	1.43	< 4.94 (-0.0σ)	z_{re}	7.60	$7.7^{+1.9}_{-2.1}$ (-0.0σ)	$f\sigma_8(0.15)$	0.4591	$0.459^{+0.017}_{-0.017}$ (-0.3σ)
$\alpha_{B,\mathrm{dust}}$	-0.51	—	$10^9 A_{\mathrm{s}}$	2.093	$2.096^{+0.085}_{-0.077}$ (-0.2σ)	$\sigma_8(0.15)$	0.7482	$0.748^{+0.014}_{-0.014}$ (-0.3σ)
$\beta_{B,\mathrm{dust}}$	1.580	$1.60^{+0.25}_{-0.25}$ $(+0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8811	$1.880^{+0.028}_{-0.028}$ (-0.4σ)	$f\sigma_8(0.38)$	0.4766	$0.476^{+0.013}_{-0.014}$ (-0.3σ)
$\alpha_{B,\mathrm{sync}}$	-0.35	—	D_{40}	1234.0	1238^{+36}_{-33} (-0.2σ)	$\sigma_8(0.38)$	0.6628	$0.663^{+0.013}_{-0.012}$ (-0.3σ)
$\beta_{B,\mathrm{sync}}$	-3.04	$-3.10^{+0.67}_{-0.73}$ $(+0.0\sigma)$	D_{220}	5720	5719^{+100}_{-100} (-0.4σ)	$f\sigma_8(0.51)$	0.4747	$0.475^{+0.012}_{-0.012}$ (-0.3σ)
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	-0.36	< 0.341 (-0.0σ)	D_{810}	2537.4	2537^{+35}_{-35} (-0.3σ)	$\sigma_8(0.51)$	0.6201	$0.620^{+0.012}_{-0.011}$ (-0.3σ)
A_{100}^{PS}	234	240^{+60}_{-60} (-0.7σ)	D_{1420}	816.5	816^{+12}_{-13} (-0.3σ)	$f\sigma_8(0.61)$	0.4695	$0.469^{+0.011}_{-0.011}$ (-0.3σ)
A_{143}^{PS}	42.9	40^{+20}_{-20} (-0.8σ)	D_{2000}	230.52	$230.4^{+4.3}_{-4.2}$ (-0.4σ)	$\sigma_8(0.61)$	0.5899	$0.590^{+0.012}_{-0.011}$ (-0.3σ)
A_{217}^{PS}	102.9	103^{+30}_{-30} (-1.2σ)	$n_{\mathrm{s},0.002}$	0.9657	$0.966^{+0.011}_{-0.011}$ $(+0.2\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2974^{+0.0062}_{-0.0057}$ (-0.2σ)
A_{217}^{CIB}	44.0	40^{+20}_{-20} (-1.1σ)	Y_{P}	0.245362	$0.24536^{+0.00016}_{-0.00018}$ (-0.6σ)	$\sigma_8(2.33)$	0.3063	$0.3065^{+0.0068}_{-0.0061}$ (-0.2σ)
A_{143}^{tSZ}	6.56	< 8.76 (-0.8σ)	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.246689	$0.24668^{+0.00016}_{-0.00018}$ (-0.6σ)	$r_{0.002}$	0.0173	< 0.0821 $(+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.632	$0.66^{+0.31}_{-0.33}$	$10^5 \mathrm{D}/\mathrm{H}$	2.601	$2.603^{+0.078}_{-0.076}$ $(+0.5\sigma)$	$r_{0.01}$	0.0182	< 0.0850 $(+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.82	—	Age/Gyr	13.807	$13.808^{+0.061}_{-0.062}$ $(+0.4\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	-0.91	$-0.7^{+1.6}_{-3.3}$ $(+0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.29	—	z_*	1090.01	$1090.02^{+0.69}_{-0.68}$ $(+0.3\sigma)$	r_{10}	0.0088	< 0.0421 $(+0.3\sigma)$
A^{kSZ}	0.0	—	r_*	144.53	$144.56^{+0.72}_{-0.71}$ $(+0.6\sigma)$	$10^9 A_{\mathrm{t}}$	0.040	< 0.184 $(+0.2\sigma)$
A_{100}^{dust}	1.00	$1.00^{+0.51}_{-0.49}$	$100\theta_*$	1.04105	$1.04104^{+0.00079}_{-0.00076}$ (-0.2σ)	$10^9 A_{\mathrm{t}}e^{-2\tau}$	0.036	< 0.165 $(+0.3\sigma)$
A_{143}^{dust}	0.981	$0.96^{+0.46}_{-0.44}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.883	$13.886^{+0.068}_{-0.067}$ $(+0.6\sigma)$	f_{2000}^{143}	30.0	30^{+7}_{-7} $(+0.1\sigma)$
A_{217}^{dust}	0.973	$0.98^{+0.27}_{-0.27}$	z_{drag}	1059.74	$1059.71^{+0.87}_{-0.84}$ (-0.7σ)	f_{2000}^{217}	106.8	$106.9^{+5.1}_{-4.9}$ (-0.1σ)
$A_{143 \times 217}^{\mathrm{dust}}$	1.001	$1.03^{+0.42}_{-0.41}$	r_{drag}	147.21	$147.25^{+0.75}_{-0.73}$ $(+0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.1	32^{+5}_{-5} (-0.0σ)
c_{100}	0.99768	$0.9975^{+0.0027}_{-0.0027}$ (-3.5σ)	k_{D}	0.14067	$0.14062^{+0.00087}_{-0.00087}$ (-0.8σ)	$\chi_{\mathrm{lensing}}^2$	8.85	$9.29 (\nu: 0.2)$ $(+0.0\sigma)$
c_{217}	1.00130	$1.0011^{+0.0039}_{-0.0039}$ $(+4.7\sigma)$	$100\theta_{\mathrm{D}}$	0.16087	$0.16088^{+0.00052}_{-0.00051}$ $(+0.6\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	735.4	$739.9 (\nu: 3.5)$ $(+0.1\sigma)$
c_{TE}	0.9964	$0.997^{+0.012}_{-0.013}$	z_{eq}	3397	3394^{+70}_{-71} (-0.4σ)	χ_{small}^2	396.01	$397.2 (\nu: 1.5)$ (-0.0σ)
c_{EE}	0.9919	$0.992^{+0.013}_{-0.013}$	k_{eq}	0.010369	$0.01036^{+0.00021}_{-0.00022}$ (-0.4σ)	χ_{lowl}^2	23.74	$24.2 (\nu: 0.7)$ (-0.2σ)
H_0	67.31	$67.3^{+1.4}_{-1.4}$ $(+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	0.8139	$0.814^{+0.014}_{-0.013}$ $(+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.9	$11513.1 (\nu: 15.1)$
Ω_{Λ}	0.6848	$0.685^{+0.019}_{-0.020}$ $(+0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4498	$0.4500^{+0.0069}_{-0.0066}$ $(+0.3\sigma)$	χ_{prior}^2	2.3	$9.4 (\nu: 7.1)$ (-0.8σ)
Ω_{m}	0.3152	$0.315^{+0.020}_{-0.019}$ (-0.2σ)	$H(0.15)$	72.63	$72.7^{+1.2}_{-1.2}$ $(+0.0\sigma)$	χ_{CMB}^2	12662.9	$12683.6 (\nu: 20.2)$ $(+1418.8\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 12665.14$; $\Delta\chi_{\mathrm{eff}}^2 = 9154.73$; $\bar{\chi}_{\mathrm{eff}}^2 = 12693.08$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.41$; $R - 1 = 0.00549$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp.p_teb_consext8: 8.85 (Δ -0.02) BK15_dust: 735.41 (Δ 0.06) small.100x143_offlike5_EE_Aplanck_B: 396.01 (Δ -0.17) com-mander_dx12_v3_2.29: 23.74 (Δ -0.05) CamSpec like.10.7HM.1400_unified: 11498.88

17.65 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022314	$0.02233^{+0.00040}_{-0.00038} \quad (-0.6\sigma)$	σ_8	0.8091	$0.809^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_M(0.51)$	1982.5	$1981^{+22}_{-22} \quad (+0.1\sigma)$
$\Omega_c h^2$	0.11928	$0.1191^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	S_8	0.8247	$0.824^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.61)$	95.288	$95.32^{+0.51}_{-0.48} \quad (-0.3\sigma)$
$100\theta_{MC}$	1.04091	$1.04094^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4517	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_M(0.61)$	2306.9	$2305^{+24}_{-24} \quad (+0.1\sigma)$
τ	0.0547	$0.056^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6046	$0.604^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(2.33)$	236.03	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
$\ln(10^{10} A_s)$	3.0431	$3.045^{+0.040}_{-0.037} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9845	$0.984^{+0.022}_{-0.022} \quad (-0.3\sigma)$	$D_M(2.33)$	5764.5	$5763^{+23}_{-24} \quad (+0.4\sigma)$
n_s	0.9670	$0.967^{+0.010}_{-0.0099} \quad (+0.2\sigma)$	$r_{drag} h$	99.54	$99.7^{+1.9}_{-1.9} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	0.4563	$0.456^{+0.014}_{-0.014} \quad (-0.3\sigma)$
r	0.0197	$< 0.0890 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.433	$2.433^{+0.052}_{-0.053} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7477	$0.748^{+0.015}_{-0.014} \quad (-0.3\sigma)$
y_{cal}	1.0010	$1.0009^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	7.72	$7.8^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	0.4746	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.2} \quad (+0.0\sigma)$	$10^9 A_s$	2.097	$2.101^{+0.085}_{-0.076} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	0.6627	$0.663^{+0.013}_{-0.012} \quad (-0.3\sigma)$
$A_{B,sync}$	1.48	$< 4.93 \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8796	$1.878^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4731	$0.473^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\alpha_{B,dust}$	-0.50	—	D_{40}	1232.4	$1236^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	0.6202	$0.621^{+0.013}_{-0.012} \quad (-0.3\sigma)$
$\beta_{B,dust}$	1.579	$1.60^{+0.25}_{-0.25} \quad (+0.1\sigma)$	D_{220}	5725	$5724^{+100}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4682	$0.468^{+0.010}_{-0.010} \quad (-0.3\sigma)$
$\alpha_{B,sync}$	-0.22	—	D_{810}	2538.2	$2537^{+34}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	0.5901	$0.591^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.72} \quad (+0.0\sigma)$	D_{1420}	817.1	$817^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(2.33)$	0.2975	$0.2978^{+0.0061}_{-0.0057} \quad (-0.2\sigma)$
$\epsilon_{dust,sync}$	-0.34	$< 0.346 \quad (-0.0\sigma)$	D_{2000}	230.72	$230.7^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	0.3067	$0.3071^{+0.0065}_{-0.0061} \quad (-0.2\sigma)$
A_{100}^{PS}	234	$239^{+60}_{-60} \quad (-0.7\sigma)$	$n_{s,0.002}$	0.9670	$0.967^{+0.010}_{-0.0099} \quad (+0.2\sigma)$	$r_{0.002}$	0.0179	$< 0.0833 \quad (+0.3\sigma)$
A_{143}^{PS}	40.5	$39^{+20}_{-20} \quad (-0.8\sigma)$	Y_P	0.245373	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$r_{0.01}$	0.0188	$< 0.0861 \quad (+0.3\sigma)$
A_{217}^{PS}	103.0	$103^{+30}_{-30} \quad (-1.2\sigma)$	Y_P^{BBN}	0.246699	$0.24670^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\ln(10^{10} A_t)$	-0.88	$-0.7^{+1.6}_{-3.2} \quad (+0.2\sigma)$
A_{217}^{CIB}	44.1	$39^{+20}_{-20} \quad (-1.1\sigma)$	$10^5 D/H$	2.596	$2.594^{+0.072}_{-0.071} \quad (+0.6\sigma)$	r_{10}	0.0091	$< 0.0427 \quad (+0.3\sigma)$
A_{143}^{tSZ}	6.54	$< 8.79 \quad (-0.8\sigma)$	Age/Gyr	13.800	$13.798^{+0.054}_{-0.054} \quad (+0.5\sigma)$	$10^9 A_t$	0.041	$< 0.187 \quad (+0.2\sigma)$
$r_{143 \times 217}^{PS}$	0.609	$0.66^{+0.31}_{-0.34}$	z_*	1089.93	$1089.90^{+0.60}_{-0.59} \quad (+0.4\sigma)$	$10^9 A_t e^{-2\tau}$	0.037	$< 0.167 \quad (+0.2\sigma)$
$r_{143 \times 217}^{CIB}$	0.79	—	r_*	144.66	$144.69^{+0.60}_{-0.59} \quad (+0.6\sigma)$	f_{2000}^{143}	29.9	$29^{+7}_{-7} \quad (+0.1\sigma)$
$\xi^{tSZ \times CIB}$	0.16	—	$100\theta_*$	1.04110	$1.04113^{+0.00074}_{-0.00074} \quad (-0.2\sigma)$	f_{2000}^{217}	106.9	$106.8^{+5.1}_{-4.9} \quad (-0.1\sigma)$
A^{kSZ}	0.0	—	$D_M(z_*)/\text{Gpc}$	13.895	$13.898^{+0.058}_{-0.056} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	32.0	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{100}^{dust}	1.01	$1.00^{+0.51}_{-0.49}$	z_{drag}	1059.74	$1059.77^{+0.85}_{-0.83} \quad (-0.8\sigma)$	$\chi_{lensing}^2$	8.87	$9.25 \quad (\nu: 0.2) \quad (+0.3\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.46}_{-0.44}$	r_{drag}	147.34	$147.37^{+0.65}_{-0.63} \quad (+0.7\sigma)$	$\chi_{BKPLANCK}^2$	735.6	$740.0 \quad (\nu: 3.5) \quad (+0.1\sigma)$
A_{217}^{dust}	0.973	$0.98^{+0.27}_{-0.27}$	k_D	0.14056	$0.14053^{+0.00082}_{-0.00083} \quad (-0.9\sigma)$	χ_{small}^2	396.18	$397.4 \quad (\nu: 1.9) \quad (-0.0\sigma)$
$A_{143 \times 217}^{dust}$	1.003	$1.03^{+0.42}_{-0.40}$	$100\theta_D$	0.160857	$0.16085^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	χ_{lowl}^2	23.52	$24.0 \quad (\nu: 0.6) \quad (-0.1\sigma)$
c_{100}	0.99766	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	3384	$3380^{+55}_{-56} \quad (-0.4\sigma)$	$\chi_{CamSpec}^2$	11498.9	$11512.9 \quad (\nu: 15.0)$
c_{217}	1.00128	$1.0011^{+0.0039}_{-0.0040} \quad (+4.7\sigma)$	k_{eq}	0.010327	$0.01032^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{6DF}^2	0.037	$0.050 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{TE}	0.9966	$0.997^{+0.013}_{-0.013}$	$100\theta_{eq}$	0.8165	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{MGS}^2	1.16	$1.28 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	0.9925	$0.992^{+0.013}_{-0.012}$	$100\theta_{s,eq}$	0.4511	$0.4514^{+0.0054}_{-0.0053} \quad (+0.3\sigma)$	$\chi_{DR12BAO}^2$	4.60	$4.7 \quad (\nu: 0.8) \quad (-0.2\sigma)$
H_0	67.56	$67.6^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$H(0.15)$	72.84	$72.90^{+0.97}_{-0.94} \quad (-0.0\sigma)$	χ_{prior}^2	2.3	$9.4 \quad (\nu: 7.2) \quad (-0.8\sigma)$
Ω_Λ	0.6883	$0.689^{+0.015}_{-0.015} \quad (+0.1\sigma)$	$D_M(0.15)$	641.7	$641.1^{+9.4}_{-9.5} \quad (+0.0\sigma)$	χ_{CMB}^2	12663.0	$12683.6 \quad (\nu: 20.2) \quad (+1427.6\sigma)$
Ω_m	0.3117	$0.311^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$H(0.38)$	82.95	$83.00^{+0.72}_{-0.70} \quad (-0.1\sigma)$	χ_{BAO}^2	5.79	$6.1 \quad (\nu: 0.5) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.14224	$0.1421^{+0.0023}_{-0.0024} \quad (-0.4\sigma)$	$D_M(0.38)$	1530.4	$1529^{+19}_{-19} \quad (+0.0\sigma)$			
$\Omega_m h^3$	0.09609	$0.09610^{+0.00084}_{-0.00080} \quad (-0.8\sigma)$	$H(0.51)$	89.67	$89.71^{+0.59}_{-0.57} \quad (-0.2\sigma)$			

Best-fit $\chi_{eff}^2 = 12671.15$; $\Delta\chi_{eff}^2 = 9154.51$; $\bar{\chi}_{eff}^2 = 12699.13$; $\Delta\bar{\chi}_{eff}^2 = 9150.10$; $R - 1 = 0.00878$
 χ_{eff}^2 : BAO - 6DF: 0.04 (Δ 0.00) MGS: 1.16 (Δ 0.00) DR12BAO: 4.59 (Δ -0.02) CMB - smicadx12.Dec5.ftl_mv2.ndclpp-p.teb.consext8: 8.87 (Δ 0.13) BK15_dust: 735.58 (Δ 0.08) simall_100x143_offlike5.EE_Aplanck-B: 396.18 (Δ -0.24) commander_dx12.v3.2.29: 23.52 (Δ -0.02) CamSpec like_10.7HM_1400_unified: 11498.90

17.66 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02228^{+0.00042}_{-0.00041} \quad (-0.4\sigma)$	$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0034}_{-0.0033} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+14}_{-13} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0036}_{-0.0035} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09608^{+0.00083}_{-0.00081} \quad (-0.8\sigma)$	$H(0.38)$	$82.84^{+0.98}_{-0.97} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04086^{+0.00081}_{-0.00081} \quad (-0.1\sigma)$	σ_8	$0.811^{+0.019}_{-0.017} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+27}_{-26} \quad (-0.2\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	S_8	$0.830^{+0.042}_{-0.041} \quad (-0.5\sigma)$	$H(0.51)$	$89.58^{+0.78}_{-0.76} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.043}_{-0.030} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.023}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+32}_{-31} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.61)$	$95.22^{+0.64}_{-0.61} \quad (-0.0\sigma)$
r	$< 0.0885 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+34}_{-33} \quad (-0.2\sigma)$
y_{cal}	$1.0007^{+0.0064}_{-0.0065} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	$99.2^{+2.7}_{-2.8} \quad (+0.4\sigma)$	$H(2.33)$	$236.3^{+2.2}_{-2.2} \quad (-0.6\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.071}_{-0.070} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+28}_{-29} \quad (+0.1\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.93 \quad (-0.0\sigma)$	z_{re}	$< 9.50 \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.021}_{-0.021} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	10^9A_{s}	$2.098^{+0.091}_{-0.062} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.017}_{-0.014} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (+0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.031}_{-0.030} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{40}	$1237^{+37}_{-36} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.012} \quad (-0.5\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.73} \quad (+0.0\sigma)$	D_{220}	$5716^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.015}_{-0.015} \quad (-0.5\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.342 \quad (-0.0\sigma)$	D_{810}	$2536^{+36}_{-35} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.010} \quad (-0.5\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.014}_{-0.013} \quad (-0.6\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.3}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.0097} \quad (-0.4\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.3\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0066}_{-0.0046} \quad (-0.4\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	$0.24536^{+0.00016}_{-0.00018} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0070}_{-0.0048} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.8\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24668^{+0.00016}_{-0.00018} \quad (-0.4\sigma)$	$r_{0.002}$	$< 0.0828 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$10^5\mathrm{D}/\mathrm{H}$	$2.603^{+0.078}_{-0.076} \quad (+0.4\sigma)$	$r_{0.01}$	$< 0.0856 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.807^{+0.064}_{-0.064} \quad (+0.2\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.7^{+1.6}_{-3.3} \quad (+0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1090.01^{+0.74}_{-0.72} \quad (+0.1\sigma)$	r_{10}	$< 0.0424 \quad (+0.3\sigma)$
A^{kSZ}	—	r_*	$144.57^{+0.82}_{-0.81} \quad (+0.7\sigma)$	10^9A_{t}	$< 0.186 \quad (+0.3\sigma)$
A_{100}^{dust}	$1.00^{+0.50}_{-0.50}$	$100\theta_*$	$1.04105^{+0.00080}_{-0.00080} \quad (-0.1\sigma)$	$10^9A_{\mathrm{t}}e^{-2\tau}$	$< 0.166 \quad (+0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.077}_{-0.075} \quad (+0.8\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	z_{drag}	$1059.71^{+0.87}_{-0.84} \quad (-0.6\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	r_{drag}	$147.27^{+0.82}_{-0.82} \quad (+0.8\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	$0.14061^{+0.00093}_{-0.00093} \quad (-1.0\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.9 \quad (\nu: 3.7) \quad (+0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	$100\theta_{\mathrm{D}}$	$0.16088^{+0.00051}_{-0.00050} \quad (+0.6\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	z_{eq}	$3393^{+81}_{-80} \quad (-0.6\sigma)$	χ_{lowl}^2	$24.2 \quad (\nu: 0.7) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{eq}	$0.01036^{+0.00025}_{-0.00024} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.4 \quad (\nu: 15.5)$
H_0	$67.4^{+1.6}_{-1.6} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.015}_{-0.015} \quad (+0.5\sigma)$	χ_{prior}^2	$9.5 \quad (\nu: 7.1) \quad (-0.8\sigma)$
Ω_{Λ}	$0.686^{+0.021}_{-0.023} \quad (+0.4\sigma)$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4501^{+0.0078}_{-0.0077} \quad (+0.5\sigma)$	χ_{CMB}^2	$12674.6 \quad (\nu: 19.8) \quad (+1434.2\sigma)$
Ω_{m}	$0.314^{+0.023}_{-0.021} \quad (-0.4\sigma)$	$H(0.15)$	$72.7^{+1.3}_{-1.4} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12684.04; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.53; R - 1 = 0.00482$$

17.67 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09609^{+0.00085}_{-0.00081} \quad (-0.8\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1190^{+0.0026}_{-0.0027} \quad (-0.4\sigma)$	σ_8	$0.809^{+0.019}_{-0.015} \quad (-0.5\sigma)$	$H(0.51)$	$89.73^{+0.62}_{-0.59} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	S_8	$0.822^{+0.033}_{-0.032} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+23}_{-23} \quad (-0.1\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.018}_{-0.017} \quad (-0.4\sigma)$	$H(0.61)$	$95.34^{+0.52}_{-0.49} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.044}_{-0.030} \quad (-0.4\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+25}_{-25} \quad (-0.1\sigma)$
n_{s}	$0.968^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.026}_{-0.024} \quad (-0.4\sigma)$	$H(2.33)$	$235.9^{+1.6}_{-1.6} \quad (-0.6\sigma)$
r	$< 0.0900 \quad (+0.3\sigma)$	$r_{\mathrm{drag}}h$	$99.8^{+2.0}_{-2.0} \quad (+0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+24}_{-24} \quad (+0.3\sigma)$
y_{cal}	$1.0008^{+0.0062}_{-0.0065} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.064}_{-0.059} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.017}_{-0.016} \quad (-0.4\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.3}_{-2.1} \quad (-0.0\sigma)$	z_{re}	$< 9.58 \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.013} \quad (-0.5\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.92 \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.093}_{-0.063} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.877^{+0.029}_{-0.028} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.011} \quad (-0.4\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (+0.0\sigma)$	D_{40}	$1234^{+36}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.013}_{-0.012} \quad (-0.5\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{220}	$5720^{+100}_{-99} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.014}_{-0.010} \quad (-0.4\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.69}_{-0.72} \quad (+0.0\sigma)$	D_{810}	$2536^{+34}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.012}_{-0.011} \quad (-0.5\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.350 \quad (-0.0\sigma)$	D_{1420}	$817^{+12}_{-13} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.0096} \quad (-0.4\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{2000}	$230.6^{+4.2}_{-4.2} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0069}_{-0.0047} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0071}_{-0.0049} \quad (-0.4\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$r_{0.002}$	$< 0.0845 \quad (+0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$r_{0.01}$	$< 0.0871 \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.8\sigma)$	$10^5 \mathrm{D}/\mathrm{H}$	$2.594^{+0.072}_{-0.071} \quad (+0.6\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.6^{+1.5}_{-3.3} \quad (+0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.054}_{-0.055} \quad (+0.4\sigma)$	r_{10}	$< 0.0434 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	z_*	$1089.89^{+0.61}_{-0.60} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{t}}$	$< 0.189 \quad (+0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	r_*	$144.72^{+0.65}_{-0.63} \quad (+0.7\sigma)$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	$< 0.169 \quad (+0.3\sigma)$
A^{kSZ}	—	$100\theta_*$	$1.04114^{+0.00075}_{-0.00074} \quad (-0.2\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.00^{+0.50}_{-0.50}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.062}_{-0.060} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.7^{+5.1}_{-4.9} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_{drag}	$1059.76^{+0.85}_{-0.82} \quad (-0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	r_{drag}	$147.41^{+0.68}_{-0.68} \quad (+0.8\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$740.1 \quad (\nu: 3.5) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	k_{D}	$0.14050^{+0.00085}_{-0.00084} \quad (-0.9\sigma)$	χ_{small}^2	$397.3 \quad (\nu: 2.0) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_{\mathrm{D}}$	$0.16086^{+0.00049}_{-0.00049} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.9 \quad (\nu: 0.6) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0040} \quad (+4.7\sigma)$	z_{eq}	$3377^{+60}_{-61} \quad (-0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.3 \quad (\nu: 15.4)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_{eq}	$0.01031^{+0.00018}_{-0.00019} \quad (-0.5\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.4\sigma)$	χ_{MGS}^2	$1.34 \quad (\nu: 0.1) \quad (+0.3\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0059}_{-0.0057} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.9) \quad (-0.3\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.016} \quad (+0.3\sigma)$	$H(0.15)$	$72.9^{+1.0}_{-0.99} \quad (+0.1\sigma)$	χ_{prior}^2	$9.5 \quad (\nu: 7.2) \quad (-0.8\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+10}_{-9.7} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0025}_{-0.0025} \quad (-0.5\sigma)$	$H(0.38)$	$83.03^{+0.75}_{-0.73} \quad (+0.0\sigma)$	χ_{CMB}^2	$12674.5 \quad (\nu: 19.6) \quad (+1430.8\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12690.02; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.88; R - 1 = 0.00713$$

17.68 base_r_CamSpecHM_TTTEE_lowl_lowE_BK15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02228^{+0.00042}_{-0.00040} \quad (-0.5\sigma)$	$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0029}_{-0.0029} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+12}_{-12} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0031}_{-0.0031} \quad (-0.3\sigma)$	$\Omega_{\mathrm{m}}h^3$	$0.09608^{+0.00083}_{-0.00080} \quad (-0.8\sigma)$	$H(0.38)$	$82.84^{+0.89}_{-0.86} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04086^{+0.00079}_{-0.00078} \quad (-0.2\sigma)$	σ_8	$0.811^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+24}_{-24} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.0\sigma)$	S_8	$0.830^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$H(0.51)$	$89.58^{+0.72}_{-0.68} \quad (-0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.038}_{-0.028} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+28}_{-28} \quad (-0.0\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.017}_{-0.016} \quad (-0.3\sigma)$	$H(0.61)$	$95.22^{+0.59}_{-0.56} \quad (-0.2\sigma)$
r	$< 0.0878 \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+30}_{-30} \quad (-0.0\sigma)$
y_{cal}	$1.0008^{+0.0063}_{-0.0065} \quad (-0.0\sigma)$	$r_{\mathrm{drag}}h$	$99.2^{+2.4}_{-2.4} \quad (+0.2\sigma)$	$H(2.33)$	$236.3^{+1.8}_{-1.9} \quad (-0.5\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.056}_{-0.055} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+27}_{-28} \quad (+0.3\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.94 \quad (-0.0\sigma)$	z_{re}	$< 9.45 \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017} \quad (-0.3\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	10^9A_{s}	$2.100^{+0.082}_{-0.058} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (+0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{40}	$1238^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.010} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.67}_{-0.73} \quad (+0.0\sigma)$	D_{220}	$5719^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.336 \quad (-0.0\sigma)$	D_{810}	$2536^{+34}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0092} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.3}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0087} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.2\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.2977^{+0.0060}_{-0.0044} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	Y_{P}	$0.24536^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$\sigma_8(2.33)$	$0.3068^{+0.0066}_{-0.0047} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.8\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00016}_{-0.00018} \quad (-0.6\sigma)$	$r_{0.002}$	$< 0.0820 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$10^5\mathrm{D}/\mathrm{H}$	$2.602^{+0.077}_{-0.076} \quad (+0.5\sigma)$	$r_{0.01}$	$< 0.0850 \quad (+0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.807^{+0.061}_{-0.062} \quad (+0.4\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.7^{+1.6}_{-3.3} \quad (+0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_*	$1090.00^{+0.69}_{-0.67} \quad (+0.3\sigma)$	r_{10}	$< 0.0421 \quad (+0.3\sigma)$
A^{kSZ}	—	r_*	$144.57^{+0.72}_{-0.70} \quad (+0.6\sigma)$	10^9A_{t}	$< 0.184 \quad (+0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.49}$	$100\theta_*$	$1.04105^{+0.00079}_{-0.00077} \quad (-0.2\sigma)$	$10^9A_{\mathrm{t}}e^{-2\tau}$	$< 0.165 \quad (+0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.067}_{-0.066} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_{drag}	$1059.71^{+0.87}_{-0.85} \quad (-0.7\sigma)$	f_{2000}^{217}	$106.9^{+5.0}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.40}$	r_{drag}	$147.27^{+0.74}_{-0.73} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	k_{D}	$0.14062^{+0.00086}_{-0.00087} \quad (-0.9\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.25 \quad (\nu: 0.2) \quad (-0.0\sigma)$
c_{217}	$1.0011^{+0.0039}_{-0.0039} \quad (+4.7\sigma)$	$100\theta_{\mathrm{D}}$	$0.16088^{+0.00052}_{-0.00051} \quad (+0.6\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.8 \quad (\nu: 3.5) \quad (+0.1\sigma)$
c_{TE}	$0.997^{+0.012}_{-0.012}$	z_{eq}	$3393^{+69}_{-70} \quad (-0.4\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{eq}	$0.01036^{+0.00021}_{-0.00021} \quad (-0.4\sigma)$	χ_{lowl}^2	$24.2 \quad (\nu: 0.7) \quad (-0.2\sigma)$
H_0	$67.4^{+1.4}_{-1.4} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.0 \quad (\nu: 15.0)$
Ω_{Λ}	$0.686^{+0.019}_{-0.019} \quad (+0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4502^{+0.0069}_{-0.0066} \quad (+0.4\sigma)$	χ_{prior}^2	$9.4 \quad (\nu: 7.1) \quad (-0.8\sigma)$
Ω_{m}	$0.314^{+0.019}_{-0.019} \quad (-0.2\sigma)$	$H(0.15)$	$72.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{CMB}^2	$12683.5 \quad (\nu: 20.0) \quad (+1430.5\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12692.90; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.41; R - 1 = 0.00651$$

17.69 base_r_CamSpecHM_TTTEEE_lowl_lowE_BK15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	σ_8	$0.810^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+22}_{-22} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	S_8	$0.824^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.61)$	$95.32^{+0.50}_{-0.47} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00076}_{-0.00075} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+24}_{-24} \quad (+0.1\sigma)$
τ	$0.057^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.014}_{-0.014} \quad (-0.3\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.5\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.039}_{-0.029} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+23}_{-24} \quad (+0.4\sigma)$
n_{s}	$0.967^{+0.010}_{-0.0098} \quad (+0.2\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+1.9}_{-1.8} \quad (+0.2\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014} \quad (-0.3\sigma)$
r	$< 0.0892 \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.434^{+0.052}_{-0.051} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.012} \quad (-0.3\sigma)$
y_{cal}	$1.0009^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	$< 9.55 \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.2} \quad (+0.0\sigma)$	10^9A_{s}	$2.103^{+0.083}_{-0.061} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010} \quad (-0.3\sigma)$
$A_{B,\mathrm{sync}}$	$< 4.93 \quad (-0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.027}_{-0.026} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.010} \quad (-0.3\sigma)$
$\alpha_{B,\mathrm{dust}}$	—	D_{40}	$1236^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0096} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.25} \quad (+0.1\sigma)$	D_{220}	$5724^{+100}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.0096} \quad (-0.3\sigma)$
$\alpha_{B,\mathrm{sync}}$	—	D_{810}	$2537^{+34}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.0091} \quad (-0.3\sigma)$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.72} \quad (+0.0\sigma)$	D_{1420}	$817^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0060}_{-0.0047} \quad (-0.2\sigma)$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	$< 0.342 \quad (-0.0\sigma)$	D_{2000}	$230.7^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0065}_{-0.0049} \quad (-0.2\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.0098} \quad (+0.2\sigma)$	$r_{0.002}$	$< 0.0834 \quad (+0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$r_{0.01}$	$< 0.0862 \quad (+0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.7^{+1.6}_{-3.2} \quad (+0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	$10^5\mathrm{D}/\mathrm{H}$	$2.594^{+0.072}_{-0.071} \quad (+0.6\sigma)$	r_{10}	$< 0.0427 \quad (+0.3\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.8\sigma)$	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.054}_{-0.055} \quad (+0.5\sigma)$	10^9A_{t}	$< 0.188 \quad (+0.2\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	z_*	$1089.90^{+0.59}_{-0.58} \quad (+0.4\sigma)$	$10^9A_{\mathrm{t}}e^{-2\tau}$	$< 0.167 \quad (+0.2\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	r_*	$144.70^{+0.60}_{-0.59} \quad (+0.6\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$100\theta_*$	$1.04113^{+0.00074}_{-0.00074} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.8^{+5.1}_{-4.9} \quad (-0.1\sigma)$
A^{kSZ}	—	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.057}_{-0.056} \quad (+0.7\sigma)$	$f_{2000}^{143\times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.49}$	z_{drag}	$1059.77^{+0.85}_{-0.83} \quad (-0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.21 \quad (\nu: 0.2) \quad (+0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	r_{drag}	$147.38^{+0.65}_{-0.64} \quad (+0.7\sigma)$	$\chi_{\mathrm{BKPLANCK}}^2$	$740.0 \quad (\nu: 3.5) \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	k_{D}	$0.14053^{+0.00082}_{-0.00082} \quad (-0.9\sigma)$	χ_{small}^2	$397.4 \quad (\nu: 2.0) \quad (-0.0\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	χ_{lowl}^2	$24.0 \quad (\nu: 0.6) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{eq}	$3380^{+55}_{-56} \quad (-0.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11512.9 \quad (\nu: 15.0)$
c_{217}	$1.0011^{+0.0039}_{-0.0040} \quad (+4.7\sigma)$	k_{eq}	$0.01032^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.049 \quad (\nu: 0.0) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0054}_{-0.0052} \quad (+0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.8) \quad (-0.2\sigma)$
H_0	$67.6^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$H(0.15)$	$72.91^{+0.97}_{-0.93} \quad (-0.0\sigma)$	χ_{prior}^2	$9.4 \quad (\nu: 7.2) \quad (-0.8\sigma)$
Ω_{Λ}	$0.689^{+0.015}_{-0.015} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$641.0^{+9.4}_{-9.4} \quad (-0.0\sigma)$	χ_{CMB}^2	$12683.5 \quad (\nu: 20.0) \quad (+1436.7\sigma)$
Ω_{m}	$0.311^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$H(0.38)$	$83.01^{+0.72}_{-0.69} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.03 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1421^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+19}_{-19} \quad (+0.0\sigma)$		
$\Omega_{\mathrm{m}}h^3$	$0.09610^{+0.00084}_{-0.00081} \quad (-0.8\sigma)$	$H(0.51)$	$89.71^{+0.59}_{-0.56} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12699.00; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.10; R - 1 = 0.00924$$

17.70 base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022382	$0.02236^{+0.00037}_{-0.00037}$	Ω_Λ	0.6841	$0.684^{+0.019}_{-0.019}$	$H(0.15)$	72.65	$72.6^{+1.2}_{-1.2}$
$\Omega_c h^2$	0.12011	$0.1201^{+0.0031}_{-0.0031}$	Ω_m	0.3159	$0.316^{+0.019}_{-0.019}$	$D_M(0.15)$	643.7	644^{+12}_{-12}
$100\theta_{MC}$	1.04089	$1.04091^{+0.00081}_{-0.00078}$	$\Omega_m h^2$	0.14313	$0.1431^{+0.0029}_{-0.0029}$	$H(0.38)$	82.84	$82.83^{+0.90}_{-0.84}$
τ	0.0546	$0.055^{+0.020}_{-0.019}$	$\Omega_m h^3$	0.09635	$0.09632^{+0.00075}_{-0.00075}$	$D_M(0.38)$	1534.1	1535^{+23}_{-24}
$\ln(10^{10} A_s)$	3.0456	$3.046^{+0.039}_{-0.036}$	σ_8	0.8123	$0.812^{+0.016}_{-0.015}$	$H(0.51)$	89.61	$89.60^{+0.71}_{-0.66}$
n_s	0.9659	$0.965^{+0.011}_{-0.010}$	S_8	0.8334	$0.834^{+0.033}_{-0.033}$	$D_M(0.51)$	1986.6	1987^{+27}_{-28}
r	0.0153	< 0.0802	$\sigma_8 \Omega_m^{0.5}$	0.4565	$0.457^{+0.018}_{-0.018}$	$H(0.61)$	95.27	$95.26^{+0.58}_{-0.54}$
y_{cal}	1.0006	$1.0009^{+0.0063}_{-0.0062}$	$\sigma_8 \Omega_m^{0.25}$	0.6089	$0.609^{+0.016}_{-0.016}$	$D_M(0.61)$	2311.1	2312^{+29}_{-30}
$A_{B,dust}$	4.62	$4.9^{+3.2}_{-2.1}$	$\sigma_8/h^{0.5}$	0.9900	$0.990^{+0.023}_{-0.023}$	$H(2.33)$	236.64	$236.6^{+1.8}_{-1.8}$
$A_{B,sync}$	1.44	< 4.94	$r_{drag} h$	98.99	$99.0^{+2.4}_{-2.3}$	$D_M(2.33)$	5763.7	5765^{+25}_{-27}
$\alpha_{B,dust}$	-0.51	—	$\langle d^2 \rangle^{1/2}$	2.446	$2.448^{+0.056}_{-0.056}$	$f\sigma_8(0.15)$	0.4607	$0.461^{+0.017}_{-0.017}$
$\beta_{B,dust}$	1.576	$1.60^{+0.25}_{-0.24}$	z_{re}	7.71	$7.7^{+1.9}_{-2.0}$	$\sigma_8(0.15)$	0.7501	$0.750^{+0.014}_{-0.014}$
$\alpha_{B,sync}$	-0.39	—	$10^9 A_s$	2.102	$2.103^{+0.083}_{-0.075}$	$f\sigma_8(0.38)$	0.4781	$0.478^{+0.013}_{-0.013}$
$\beta_{B,sync}$	-3.03	$-3.10^{+0.68}_{-0.73}$	$10^9 A_s e^{-2\tau}$	1.8846	$1.885^{+0.028}_{-0.028}$	$\sigma_8(0.38)$	0.6645	$0.664^{+0.013}_{-0.012}$
$\epsilon_{dust,sync}$	-0.34	< 0.372	D_{40}	1235.1	1241^{+33}_{-32}	$f\sigma_8(0.51)$	0.4762	$0.476^{+0.012}_{-0.012}$
A_{217}^{CIB}	46.8	47^{+20}_{-20}	D_{220}	5732	5735^{+99}_{-97}	$\sigma_8(0.51)$	0.6216	$0.622^{+0.012}_{-0.011}$
$\xi^{tSZ \times CIB}$	0.48	—	D_{810}	2541.4	2541^{+34}_{-34}	$f\sigma_8(0.61)$	0.4709	$0.471^{+0.011}_{-0.011}$
A_{143}^{tSZ}	7.15	$5.5^{+4.3}_{-4.8}$	D_{1420}	818.4	818^{+12}_{-12}	$\sigma_8(0.61)$	0.5914	$0.591^{+0.011}_{-0.011}$
A_{100}^{PS}	250	259^{+70}_{-70}	D_{2000}	231.31	$231.0^{+4.1}_{-4.0}$	$f\sigma_8(2.33)$	0.2980	$0.2980^{+0.0059}_{-0.0056}$
A_{143}^{PS}	48.2	46^{+20}_{-20}	$n_{s,0.002}$	0.9659	$0.965^{+0.011}_{-0.010}$	$\sigma_8(2.33)$	0.3070	$0.3070^{+0.0064}_{-0.0060}$
$A_{143 \times 217}^{PS}$	48.7	42^{+20}_{-20}	Y_P	0.245400	$0.24539^{+0.00014}_{-0.00015}$	$r_{0.002}$	0.0138	< 0.0743
A_{217}^{PS}	120.4	115^{+30}_{-30}	Y_P^{BBN}	0.246727	$0.24671^{+0.00014}_{-0.00015}$	$r_{0.01}$	0.0145	< 0.0771
A^{kSZ}	0.0	—	$10^5 D/H$	2.583	$2.588^{+0.070}_{-0.066}$	$\ln(10^{10} A_t)$	-1.14	$-0.9^{+1.7}_{-3.5}$
A_{100}^{dustTT}	8.76	$8.9^{+4.7}_{-4.7}$	Age/Gyr	13.797	$13.799^{+0.057}_{-0.060}$	r_{10}	0.0070	< 0.0381
A_{143}^{dustTT}	10.97	$10.9^{+4.6}_{-4.6}$	z_*	1089.91	$1089.95^{+0.66}_{-0.64}$	$10^9 A_t$	0.032	< 0.168
$A_{143 \times 217}^{dustTT}$	19.8	$18.5^{+8.4}_{-8.6}$	r_*	144.39	$144.41^{+0.67}_{-0.68}$	$10^9 A_t e^{-2\tau}$	0.029	< 0.151
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$100\theta_*$	1.04107	$1.04110^{+0.00080}_{-0.00077}$	f_{2000}^{143}	28.8	30^{+7}_{-7}
A_{100}^{dustTE}	0.116	$0.115^{+0.098}_{-0.096}$	$D_M(z_*)/\text{Gpc}$	13.870	$13.871^{+0.064}_{-0.065}$	$f_{2000}^{143 \times 217}$	31.95	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.075}_{-0.076}$	z_{drag}	1059.97	$1059.91^{+0.74}_{-0.74}$	f_{2000}^{217}	106.59	$107.1^{+4.5}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.22}$	r_{drag}	147.05	$147.08^{+0.68}_{-0.68}$	$\chi_{lensing}^2$	8.86	$9.28 (\nu: 0.3)$
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.14}$	k_D	0.14092	$0.14087^{+0.00076}_{-0.00077}$	$\chi_{BKPLANCK}^2$	735.4	$739.6 (\nu: 3.4)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.21}_{-0.20}$	$100\theta_D$	0.160733	$0.16077^{+0.00045}_{-0.00044}$	χ_{small}^2	396.18	$397.2 (\nu: 1.6)$
A_{217}^{dustTE}	2.08	$2.09^{+0.69}_{-0.69}$	z_{eq}	3405	3405^{+69}_{-68}	χ_{lowl}^2	23.79	$24.4 (\nu: 0.6)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	0.010392	$0.01039^{+0.00021}_{-0.00021}$	χ_{plik}^2	2344.5	$2359.0 (\nu: 15.8)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{eq}$	0.8128	$0.813^{+0.013}_{-0.013}$	χ_{prior}^2	1.7	$13.2 (\nu: 11.7)$
H_0	67.32	$67.3^{+1.4}_{-1.4}$	$100\theta_{s,eq}$	0.4491	$0.4491^{+0.0067}_{-0.0066}$	χ_{CMB}^2	3508.7	$3529.5 (\nu: 20.8)$

Best-fit $\chi_{eff}^2 = 3510.40$; $\bar{\chi}_{eff}^2 = 3542.67$; $R - 1 = 0.00459$
 χ_{eff}^2 : CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.86 BK15_dust: 735.35 simall_100x143_offlike5_EE_Aplanck_B: 396.18 commander_dx12_v3.2.29: 23.79
plik_rd12_HM_v22b_TTTEEE: 2344.50

17.71 base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022426	$0.02241^{+0.00035}_{-0.00034}$	$\Omega_m h^2$	0.14249	$0.1425^{+0.0023}_{-0.0023}$	$H(0.51)$	89.76	$89.75^{+0.59}_{-0.56}$
$\Omega_c h^2$	0.11941	$0.1194^{+0.0024}_{-0.0024}$	$\Omega_m h^3$	0.09637	$0.09633^{+0.00075}_{-0.00076}$	$D_M(0.51)$	1980.4	1981^{+22}_{-22}
$100\theta_{MC}$	1.04100	$1.04100^{+0.00077}_{-0.00077}$	σ_8	0.8111	$0.811^{+0.016}_{-0.015}$	$H(0.61)$	95.384	$95.38^{+0.49}_{-0.46}$
τ	0.0560	$0.057^{+0.020}_{-0.018}$	S_8	0.8265	$0.827^{+0.027}_{-0.027}$	$D_M(0.61)$	2304.4	2305^{+24}_{-24}
$\ln(10^{10} A_s)$	3.0474	$3.048^{+0.039}_{-0.037}$	$\sigma_8 \Omega_m^{0.5}$	0.4527	$0.453^{+0.015}_{-0.015}$	$H(2.33)$	236.24	$236.2^{+1.5}_{-1.5}$
n_s	0.9675	$0.9668^{+0.0094}_{-0.0095}$	$\sigma_8 \Omega_m^{0.25}$	0.6060	$0.606^{+0.015}_{-0.015}$	$D_M(2.33)$	5758.9	5759^{+23}_{-23}
r	0.0181	< 0.0824	$\sigma_8/h^{0.5}$	0.9863	$0.987^{+0.022}_{-0.021}$	$f\sigma_8(0.15)$	0.4573	$0.457^{+0.014}_{-0.014}$
y_{cal}	1.0010	$1.0010^{+0.0062}_{-0.0063}$	$r_{drag} h$	99.54	$99.6^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	0.7495	$0.750^{+0.014}_{-0.014}$
$A_{B,dust}$	4.61	$4.9^{+3.2}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	2.438	$2.440^{+0.053}_{-0.052}$	$f\sigma_8(0.38)$	0.4756	$0.476^{+0.012}_{-0.012}$
$A_{B,sync}$	1.44	< 4.99	z_{re}	7.83	$7.9^{+1.9}_{-1.9}$	$\sigma_8(0.38)$	0.6644	$0.664^{+0.013}_{-0.012}$
$\alpha_{B,dust}$	-0.50	—	$10^9 A_s$	2.106	$2.108^{+0.083}_{-0.077}$	$f\sigma_8(0.51)$	0.4742	$0.474^{+0.011}_{-0.011}$
$\beta_{B,dust}$	1.578	$1.60^{+0.25}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8829	$1.882^{+0.027}_{-0.027}$	$\sigma_8(0.51)$	0.6217	$0.622^{+0.012}_{-0.012}$
$\alpha_{B,sync}$	-0.34	—	D_{40}	1233.5	1239^{+32}_{-31}	$f\sigma_8(0.61)$	0.4693	$0.469^{+0.010}_{-0.010}$
$\beta_{B,sync}$	-3.04	$-3.10^{+0.68}_{-0.73}$	D_{220}	5739	5740^{+98}_{-95}	$\sigma_8(0.61)$	0.5916	$0.592^{+0.011}_{-0.011}$
$\epsilon_{dust,sync}$	-0.34	< 0.357	D_{810}	2542.6	2541^{+34}_{-34}	$f\sigma_8(2.33)$	0.2983	$0.2983^{+0.0059}_{-0.0056}$
A_{217}^{CIB}	47.4	47^{+20}_{-20}	D_{1420}	819.3	818^{+12}_{-12}	$\sigma_8(2.33)$	0.3075	$0.3076^{+0.0063}_{-0.0060}$
$\xi^{tSZ \times CIB}$	0.40	—	D_{2000}	231.65	$231.3^{+4.1}_{-3.9}$	$r_{0.002}$	0.0164	< 0.0772
A_{143}^{tSZ}	7.24	$5.5^{+4.4}_{-4.5}$	$n_{s,0.002}$	0.9675	$0.9668^{+0.0094}_{-0.0095}$	$r_{0.01}$	0.0173	< 0.0798
A_{100}^{PS}	251	258^{+70}_{-70}	Y_P	0.245417	$0.24541^{+0.00013}_{-0.00014}$	$\ln(10^{10} A_t)$	-0.96	$-0.9^{+1.7}_{-3.5}$
A_{143}^{PS}	46.7	45^{+20}_{-20}	Y_P^{BBN}	0.246744	$0.24674^{+0.00013}_{-0.00014}$	r_{10}	0.0084	< 0.0396
$A_{143 \times 217}^{PS}$	46.4	42^{+20}_{-20}	$10^5 D/H$	2.575	$2.579^{+0.065}_{-0.063}$	$10^9 A_t$	0.038	< 0.173
A_{217}^{PS}	119.4	115^{+30}_{-30}	Age/Gyr	13.787	$13.788^{+0.051}_{-0.052}$	$10^9 A_t e^{-2\tau}$	0.034	< 0.155
A^{kSZ}	0.0	—	z_*	1089.80	$1089.82^{+0.57}_{-0.54}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
A_{100}^{dustTT}	8.84	$8.9^{+4.7}_{-4.7}$	r_*	144.54	$144.56^{+0.56}_{-0.56}$	$f_{2000}^{143 \times 217}$	31.89	32^{+5}_{-5}
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.6}$	$100\theta_*$	1.04118	$1.04118^{+0.00075}_{-0.00076}$	f_{2000}^{217}	106.69	$106.9^{+4.5}_{-4.5}$
$A_{143 \times 217}^{dustTT}$	19.8	$18.6^{+8.2}_{-8.5}$	$D_M(z_*)/\text{Gpc}$	13.882	$13.884^{+0.055}_{-0.054}$	$\chi^2_{lensing}$	8.74	$9.10 (\nu: 0.2)$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	z_{drag}	1060.01	$1059.98^{+0.75}_{-0.74}$	$\chi^2_{BKPLANCK}$	735.5	$739.8 (\nu: 3.4)$
A_{100}^{dustTE}	0.115	$0.115^{+0.098}_{-0.095}$	r_{drag}	147.19	$147.21^{+0.59}_{-0.58}$	χ^2_{small}	396.42	$397.5 (\nu: 2.0)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.075}_{-0.074}$	k_D	0.14081	$0.14077^{+0.00071}_{-0.00072}$	χ^2_{lowl}	23.54	$24.1 (\nu: 0.5)$
$A_{100 \times 217}^{dustTE}$	0.479	$0.48^{+0.22}_{-0.22}$	$100\theta_D$	0.160713	$0.16074^{+0.00043}_{-0.00043}$	χ^2_{plik}	2344.7	$2359.0 (\nu: 15.7)$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	z_{eq}	3390	3389^{+55}_{-55}	χ^2_{6DF}	0.037	$0.058 (\nu: 0.0)$
$A_{143 \times 217}^{dustTE}$	0.666	$0.67^{+0.21}_{-0.21}$	k_{eq}	0.010345	$0.01034^{+0.00017}_{-0.00017}$	χ^2_{MGS}	1.16	$1.22 (\nu: 0.1)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.70}$	$100\theta_{eq}$	0.8158	$0.816^{+0.010}_{-0.010}$	$\chi^2_{DR12BAO}$	4.61	$4.9 (\nu: 1.0)$
c_{100}	0.99969	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{s,eq}$	0.4506	$0.4507^{+0.0053}_{-0.0052}$	χ^2_{prior}	2.0	$13.3 (\nu: 11.5)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	72.92	$72.91^{+0.96}_{-0.93}$	χ^2_{CMB}	3508.9	$3529.5 (\nu: 20.6)$
H_0	67.63	$67.6^{+1.1}_{-1.1}$	$D_M(0.15)$	641.0	$641.1^{+9.3}_{-9.3}$	χ^2_{BAO}	5.80	$6.2 (\nu: 0.6)$
Ω_Λ	0.6885	$0.688^{+0.014}_{-0.015}$	$H(0.38)$	83.04	$83.03^{+0.73}_{-0.69}$			
Ω_m	0.3115	$0.312^{+0.015}_{-0.014}$	$D_M(0.38)$	1528.8	1529^{+19}_{-19}			

Best-fit $\chi^2_{eff} = 3516.64$; $\bar{\chi}^2_{eff} = 3549.03$; $R - 1 = 0.00581$
 χ^2_{eff} : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.61 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.74 BK15_dust: 735.50 simall_100x143_offlike5_EE_Aplanck_B: 396.42 commander_dx12_v3_2_29: 23.54 plik_rd12_HM_v22b_TTTEEE: 2344.67

17.72 base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02236^{+0.00036}_{-0.00036}$	Ω_{Λ}	$0.684^{+0.018}_{-0.019}$	$H(0.15)$	$72.7^{+1.2}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1201^{+0.0030}_{-0.0030}$	Ω_{m}	$0.316^{+0.019}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	644^{+12}_{-12}
$100\theta_{\mathrm{MC}}$	$1.04092^{+0.00081}_{-0.00078}$	$\Omega_{\mathrm{m}}h^2$	$0.1431^{+0.0028}_{-0.0028}$	$H(0.38)$	$82.84^{+0.89}_{-0.83}$
τ	$0.055^{+0.018}_{-0.013}$	$\Omega_{\mathrm{m}}h^3$	$0.09632^{+0.00075}_{-0.00075}$	$D_{\mathrm{M}}(0.38)$	1534^{+23}_{-24}
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.038}_{-0.028}$	σ_8	$0.813^{+0.015}_{-0.014}$	$H(0.51)$	$89.61^{+0.71}_{-0.66}$
n_{s}	$0.965^{+0.010}_{-0.010}$	S_8	$0.834^{+0.033}_{-0.033}$	$D_{\mathrm{M}}(0.51)$	1987^{+27}_{-28}
r	< 0.0802	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.018}_{-0.018}$	$H(0.61)$	$95.26^{+0.58}_{-0.53}$
y_{cal}	$1.0009^{+0.0063}_{-0.0062}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.61)$	2311^{+29}_{-30}
$A_{B,\mathrm{dust}}$	$4.9^{+3.2}_{-2.1}$	$\sigma_8/h^{0.5}$	$0.990^{+0.023}_{-0.023}$	$H(2.33)$	$236.6^{+1.8}_{-1.8}$
$A_{B,\mathrm{sync}}$	< 4.94	$r_{\mathrm{drag}}h$	$99.0^{+2.4}_{-2.3}$	$D_{\mathrm{M}}(2.33)$	5764^{+25}_{-26}
$\alpha_{B,\mathrm{dust}}$	—	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.055}_{-0.054}$	$f\sigma_8(0.15)$	$0.461^{+0.016}_{-0.017}$
$\beta_{B,\mathrm{dust}}$	$1.60^{+0.25}_{-0.24}$	z_{re}	< 9.46	$\sigma_8(0.15)$	$0.751^{+0.014}_{-0.012}$
$\alpha_{B,\mathrm{sync}}$	—	$10^9 A_{\mathrm{s}}$	$2.106^{+0.080}_{-0.059}$	$f\sigma_8(0.38)$	$0.478^{+0.013}_{-0.013}$
$\beta_{B,\mathrm{sync}}$	$-3.10^{+0.68}_{-0.73}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.884^{+0.028}_{-0.028}$	$\sigma_8(0.38)$	$0.665^{+0.012}_{-0.010}$
$\epsilon_{\mathrm{dust},\mathrm{sync}}$	< 0.370	D_{40}	1241^{+33}_{-32}	$f\sigma_8(0.51)$	$0.476^{+0.012}_{-0.012}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{220}	5734^{+99}_{-96}	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.0092}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{810}	2541^{+35}_{-34}	$f\sigma_8(0.61)$	$0.471^{+0.011}_{-0.010}$
A_{143}^{tSZ}	$5.5^{+4.3}_{-4.9}$	D_{1420}	818^{+13}_{-12}	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.0088}$
A_{100}^{PS}	259^{+70}_{-70}	D_{2000}	$231.0^{+4.1}_{-4.1}$	$f\sigma_8(2.33)$	$0.2982^{+0.0058}_{-0.0044}$
A_{143}^{PS}	46^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.965^{+0.010}_{-0.010}$	$\sigma_8(2.33)$	$0.3072^{+0.0062}_{-0.0047}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	Y_{P}	$0.24539^{+0.00014}_{-0.00015}$	$r_{0.002}$	< 0.0744
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00014}_{-0.00015}$	$r_{0.01}$	< 0.0771
A^{kSZ}	—	$10^5\mathrm{D}/\mathrm{H}$	$2.588^{+0.069}_{-0.065}$	$\ln(10^{10}A_{\mathrm{t}})$	$-0.9^{+1.7}_{-3.5}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.799^{+0.057}_{-0.059}$	r_{10}	< 0.0381
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.6}$	z_{*}	$1089.94^{+0.65}_{-0.64}$	$10^9 A_{\mathrm{t}}$	< 0.169
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.3}_{-8.6}$	r_{*}	$144.42^{+0.67}_{-0.67}$	$10^9 A_{\mathrm{t}}e^{-2\tau}$	< 0.151
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$100\theta_{*}$	$1.04110^{+0.00080}_{-0.00077}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.098}_{-0.096}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	$13.872^{+0.064}_{-0.064}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.075}_{-0.076}$	z_{drag}	$1059.92^{+0.74}_{-0.75}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.5}$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	r_{drag}	$147.08^{+0.67}_{-0.67}$	$\chi_{\mathrm{lensing}}^2$	$9.27 (\nu: 0.3)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	k_{D}	$0.14087^{+0.00076}_{-0.00077}$	$\chi_{\mathrm{BKPLANCK}}^2$	$739.6 (\nu: 3.4)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.20}$	$100\theta_{\mathrm{D}}$	$0.16077^{+0.00044}_{-0.00043}$	χ_{simall}^2	$397.2 (\nu: 1.6)$
$A_{217}^{\mathrm{dust}TE}$	$2.09^{+0.69}_{-0.69}$	z_{eq}	3404^{+68}_{-68}	χ_{lowl}^2	$24.4 (\nu: 0.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{eq}	$0.01039^{+0.00021}_{-0.00021}$	χ_{plik}^2	$2358.9 (\nu: 15.7)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.013}_{-0.013}$	χ_{prior}^2	$13.2 (\nu: 11.6)$
H_0	$67.3^{+1.4}_{-1.3}$	$100\theta_{\mathrm{s},\mathrm{eq}}$	$0.4493^{+0.0066}_{-0.0064}$	χ_{CMB}^2	$3529.3 (\nu: 20.5)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3542.49; R - 1 = 0.00477$$

17.73 base_r_plikHM_TTTEEE_lowl_lowE_BK15_lensing_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02241^{+0.00035}_{-0.00034}$	$\Omega_{\text{m}}h^2$	$0.1424^{+0.0023}_{-0.0023}$	$H(0.51)$	$89.76^{+0.58}_{-0.55}$
$\Omega_{\text{c}}h^2$	$0.1194^{+0.0024}_{-0.0024}$	$\Omega_{\text{m}}h^3$	$0.09633^{+0.00076}_{-0.00076}$	$D_{\text{M}}(0.51)$	1980^{+22}_{-22}
$100\theta_{\text{MC}}$	$1.04101^{+0.00076}_{-0.00077}$	σ_8	$0.812^{+0.016}_{-0.014}$	$H(0.61)$	$95.38^{+0.49}_{-0.46}$
τ	$0.057^{+0.018}_{-0.015}$	S_8	$0.827^{+0.027}_{-0.027}$	$D_{\text{M}}(0.61)$	2304^{+23}_{-24}
$\ln(10^{10}A_{\text{s}})$	$3.049^{+0.038}_{-0.030}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.453^{+0.015}_{-0.015}$	$H(2.33)$	$236.2^{+1.5}_{-1.5}$
n_{s}	$0.9668^{+0.0094}_{-0.0094}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.606^{+0.015}_{-0.014}$	$D_{\text{M}}(2.33)$	5759^{+23}_{-23}
r	< 0.0823	$\sigma_8/h^{0.5}$	$0.987^{+0.022}_{-0.020}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
y_{cal}	$1.0010^{+0.0062}_{-0.0062}$	$r_{\text{drag}}h$	$99.6^{+1.9}_{-1.8}$	$\sigma_8(0.15)$	$0.750^{+0.014}_{-0.012}$
$A_{B,\text{dust}}$	$4.9^{+3.2}_{-2.1}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.052}_{-0.050}$	$f\sigma_8(0.38)$	$0.476^{+0.012}_{-0.011}$
$A_{B,\text{sync}}$	< 4.98	z_{re}	< 9.60	$\sigma_8(0.38)$	$0.665^{+0.013}_{-0.010}$
$\alpha_{B,\text{dust}}$	—	$10^9 A_{\text{s}}$	$2.110^{+0.081}_{-0.062}$	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.010}$
$\beta_{B,\text{dust}}$	$1.60^{+0.25}_{-0.24}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.882^{+0.027}_{-0.027}$	$\sigma_8(0.51)$	$0.622^{+0.012}_{-0.0097}$
$\alpha_{B,\text{sync}}$	—	D_{40}	1239^{+32}_{-31}	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.0095}$
$\beta_{B,\text{sync}}$	$-3.10^{+0.68}_{-0.73}$	D_{220}	5740^{+98}_{-94}	$\sigma_8(0.61)$	$0.592^{+0.011}_{-0.0093}$
$\epsilon_{\text{dust,sync}}$	< 0.357	D_{810}	2541^{+34}_{-34}	$f\sigma_8(2.33)$	$0.2985^{+0.0058}_{-0.0047}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(2.33)$	$0.3077^{+0.0062}_{-0.0049}$
$\xi^{\text{tSZ}\times\text{CIB}}$	—	D_{2000}	$231.3^{+4.1}_{-3.9}$	$r_{0.002}$	< 0.0770
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.5}$	$n_{\text{s},0.002}$	$0.9668^{+0.0094}_{-0.0094}$	$r_{0.01}$	< 0.0797
A_{100}^{PS}	258^{+70}_{-70}	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\ln(10^{10}A_{\text{t}})$	$-0.9^{+1.7}_{-3.5}$
A_{143}^{PS}	45^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	r_{10}	< 0.0395
$A_{143\times 217}^{\text{PS}}$	42^{+20}_{-20}	$10^5\text{D}/\text{H}$	$2.578^{+0.065}_{-0.062}$	$10^9 A_{\text{t}}$	< 0.173
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.788^{+0.051}_{-0.051}$	$10^9 A_{\text{t}}e^{-2\tau}$	< 0.155
A^{kSZ}	—	z_*	$1089.81^{+0.56}_{-0.54}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\text{dust}TT}$	$8.9^{+4.7}_{-4.6}$	r_*	$144.56^{+0.56}_{-0.56}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{143}^{\text{dust}TT}$	$10.9^{+4.6}_{-4.6}$	$100\theta_*$	$1.04119^{+0.00075}_{-0.00076}$	f_{2000}^{217}	$106.9^{+4.4}_{-4.5}$
$A_{143\times 217}^{\text{dust}TT}$	$18.6^{+8.2}_{-8.5}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.884^{+0.055}_{-0.054}$	χ_{lensing}^2	$9.08\ (\nu: 0.1)$
$A_{217}^{\text{dust}TT}$	94^{+20}_{-20}	z_{drag}	$1059.99^{+0.75}_{-0.74}$	χ_{BKPLANCK}^2	$739.8\ (\nu: 3.4)$
$A_{100}^{\text{dust}TE}$	$0.115^{+0.098}_{-0.095}$	r_{drag}	$147.21^{+0.59}_{-0.58}$	χ_{simall}^2	$397.5\ (\nu: 2.1)$
$A_{100\times 143}^{\text{dust}TE}$	$0.135^{+0.075}_{-0.074}$	k_{D}	$0.14077^{+0.00071}_{-0.00071}$	χ_{lowl}^2	$24.1\ (\nu: 0.5)$
$A_{100\times 217}^{\text{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_{\text{D}}$	$0.16074^{+0.00043}_{-0.00043}$	χ_{plik}^2	$2358.9\ (\nu: 15.6)$
$A_{143}^{\text{dust}TE}$	$0.23^{+0.14}_{-0.14}$	z_{eq}	3388^{+54}_{-54}	$\chi_{6\text{DF}}^2$	$0.057\ (\nu: 0.0)$
$A_{143\times 217}^{\text{dust}TE}$	$0.67^{+0.21}_{-0.20}$	k_{eq}	$0.01034^{+0.00017}_{-0.00017}$	χ_{MGS}^2	$1.22\ (\nu: 0.1)$
$A_{217}^{\text{dust}TE}$	$2.08^{+0.69}_{-0.70}$	$100\theta_{\text{eq}}$	$0.816^{+0.010}_{-0.010}$	χ_{DR12BAO}^2	$4.9\ (\nu: 0.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\text{s,eq}}$	$0.4508^{+0.0053}_{-0.0051}$	χ_{prior}^2	$13.3\ (\nu: 11.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$H(0.15)$	$72.92^{+0.95}_{-0.92}$	χ_{CMB}^2	$3529.4\ (\nu: 20.3)$
H_0	$67.6^{+1.1}_{-1.1}$	$D_{\text{M}}(0.15)$	$641.0^{+9.2}_{-9.3}$	χ_{BAO}^2	$6.2\ (\nu: 0.6)$
Ω_{Λ}	$0.689^{+0.014}_{-0.015}$	$H(0.38)$	$83.04^{+0.72}_{-0.68}$		
Ω_{m}	$0.311^{+0.015}_{-0.014}$	$D_{\text{M}}(0.38)$	1529^{+18}_{-19}		

$\bar{\chi}_{\text{eff}}^2 = 3548.89; R - 1 = 0.00600$

18 w

18.1 base_w_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02215^{+0.00057}_{-0.00057}$	$\sigma_8 \Omega_m^{0.5}$	0.4077	$0.431^{+0.055}_{-0.041}$	$100\theta_{s,eq}$	0.4490	$0.449^{+0.012}_{-0.011}$
$\Omega_c h^2$	0.1203	$0.1205^{+0.0053}_{-0.0052}$	$\sigma_8 \Omega_m^{0.25}$	0.663	$0.643^{+0.049}_{-0.060}$	$H(0.15)$	88.7	$81.8^{+8.3}_{-14}$
$100\theta_{MC}$	1.04088	$1.0408^{+0.0012}_{-0.0012}$	$\sigma_8/h^{0.5}$	1.077	$1.045^{+0.071}_{-0.096}$	$D_M(0.15)$	481	547^{+200}_{-70}
τ	0.0523	$0.052^{+0.021}_{-0.023}$	$r_{drag}h$	147.1	125^{+20}_{-40}	$H(0.38)$	84.31	$84.0^{+2.5}_{-3.8}$
w_0	-1.97	$-1.56^{+0.79}_{-0.53}$	$\langle d^2 \rangle^{1/2}$	2.528	$2.50^{+0.11}_{-0.13}$	$D_M(0.38)$	1288	1386^{+200}_{-100}
$\ln(10^{10} A_s)$	3.0403	$3.039^{+0.044}_{-0.047}$	z_{re}	7.44	$7.4^{+2.1}_{-2.6}$	$H(0.51)$	86.62	$88.1^{+2.2}_{-3.0}$
n_s	0.9647	$0.963^{+0.015}_{-0.015}$	$10^9 A_s$	2.091	$2.088^{+0.093}_{-0.096}$	$D_M(0.51)$	1745	1840^{+300}_{-100}
y_{cal}	1.0003	$1.0004^{+0.0062}_{-0.0061}$	$10^9 A_s e^{-2\tau}$	1.8835	$1.884^{+0.035}_{-0.033}$	$H(0.61)$	90.06	$92.4^{+3.3}_{-3.3}$
A_{217}^{CIB}	48.3	48^{+20}_{-20}	D_{40}	1225.0	1230^{+40}_{-38}	$D_M(0.61)$	2085	2172^{+200}_{-100}
$\xi^{tSZ \times CIB}$	0.38	—	D_{220}	5717	5716^{+110}_{-100}	$H(2.33)$	230.5	$232.3^{+9.9}_{-4.6}$
A_{143}^{tSZ}	7.0	—	D_{810}	2537.0	2535^{+35}_{-33}	$D_M(2.33)$	5738	5750^{+83}_{-51}
A_{100}^{PS}	253	263^{+70}_{-70}	D_{1420}	815.4	814^{+13}_{-13}	$f\sigma_8(0.15)$	0.511	$0.491^{+0.057}_{-0.052}$
A_{143}^{PS}	49.1	49^{+20}_{-20}	D_{2000}	230.40	$229.7^{+4.7}_{-4.6}$	$\sigma_8(0.15)$	1.015	$0.90^{+0.15}_{-0.22}$
$A_{143 \times 217}^{PS}$	47.5	43^{+20}_{-20}	$n_{s,0.002}$	0.9647	$0.963^{+0.015}_{-0.015}$	$f\sigma_8(0.38)$	0.648	$0.57^{+0.11}_{-0.13}$
A_{217}^{PS}	119.3	115^{+30}_{-30}	Y_P	0.245335	$0.24530^{+0.00022}_{-0.00027}$	$\sigma_8(0.38)$	0.908	$0.80^{+0.13}_{-0.20}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246661	$0.24663^{+0.00022}_{-0.00027}$	$f\sigma_8(0.51)$	0.680	$0.59^{+0.12}_{-0.16}$
A_{100}^{dustTT}	8.88	$8.9^{+4.8}_{-4.7}$	$10^5 D/H$	2.614	$2.63^{+0.11}_{-0.10}$	$\sigma_8(0.51)$	0.849	$0.75^{+0.12}_{-0.19}$
A_{143}^{dustTT}	10.76	$10.7^{+4.6}_{-4.6}$	Age/Gyr	13.451	$13.59^{+0.41}_{-0.21}$	$f\sigma_8(0.61)$	0.685	$0.59^{+0.12}_{-0.17}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.2^{+8.3}_{-8.6}$	z_*	1090.13	$1090.2^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	0.805	$0.71^{+0.11}_{-0.18}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	r_*	144.48	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.401	$0.357^{+0.052}_{-0.088}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	1.04108	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.401	$0.360^{+0.049}_{-0.079}$
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.878	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	29.7	31^{+8}_{-7}
H_0	99.9	> 60.9	z_{drag}	1059.63	$1059.5^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-5}
Ω_Λ	0.857	$0.792^{+0.071}_{-0.18}$	r_{drag}	147.19	$147.2^{+1.3}_{-1.2}$	f_{2000}^{217}	107.21	$107.9^{+5.0}_{-4.9}$
Ω_m	0.143	$0.208^{+0.18}_{-0.071}$	k_D	0.14065	$0.1406^{+0.0014}_{-0.0013}$	χ_{simall}^2	395.73	$396.8 (\nu: 1.2)$
$\Omega_m h^2$	0.1431	$0.1433^{+0.0051}_{-0.0051}$	$100\theta_D$	0.16095	$0.16104^{+0.00069}_{-0.00067}$	χ_{lowl}^2	22.64	$23.2 (\nu: 0.7)$
$\Omega_m h^3$	0.1430	$0.122^{+0.025}_{-0.035}$	z_{eq}	3405	3408^{+120}_{-120}	χ_{plik}^2	756.6	$770.0 (\nu: 14.7)$
σ_8	1.077	$0.96^{+0.15}_{-0.22}$	k_{eq}	0.010392	$0.01040^{+0.00037}_{-0.00037}$	χ_{prior}^2	1.3	$7.2 (\nu: 6.6)$
S_8	0.744	$0.787^{+0.10}_{-0.074}$	$100\theta_{eq}$	0.8124	$0.812^{+0.023}_{-0.022}$	χ_{CMB}^2	1175.0	$1190.0 (\nu: 16.0)$

Best-fit $\chi_{eff}^2 = 1176.30$; $\bar{\chi}_{eff}^2 = 1197.21$; $R - 1 = 0.00888$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.73 commander_dx12_v3.2_29: 22.64 plik_rd12_HM_v22_TT: 756.63

18.2 base_w_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02227	$0.02221^{+0.00055}_{-0.00054}$	$\sigma_8 \Omega_m^{0.25}$	0.6517	$0.635^{+0.033}_{-0.042}$	$D_M(0.15)$	479	543^{+100}_{-70}
$\Omega_c h^2$	0.11880	$0.1193^{+0.0044}_{-0.0040}$	$\sigma_8/h^{0.5}$	1.062	$1.034^{+0.050}_{-0.070}$	$H(0.38)$	84.97	$84.4^{+2.1}_{-3.8}$
$100\theta_{MC}$	1.04098	$1.0409^{+0.0011}_{-0.0012}$	$r_{drag}h$	147.4	126^{+20}_{-40}	$D_M(0.38)$	1280	1378^{+200}_{-100}
τ	0.0519	$0.051^{+0.020}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.500	$2.482^{+0.072}_{-0.083}$	$H(0.51)$	87.18	$88.5^{+1.7}_{-2.4}$
w_0	-1.93	$-1.54^{+0.72}_{-0.48}$	z_{re}	7.37	$7.3^{+1.9}_{-2.5}$	$D_M(0.51)$	1734	1829^{+200}_{-100}
$\ln(10^{10} A_s)$	3.0353	$3.034^{+0.038}_{-0.042}$	$10^9 A_s$	2.081	$2.079^{+0.081}_{-0.086}$	$H(0.61)$	90.51	$92.7^{+3.0}_{-2.9}$
n_s	0.9676	$0.965^{+0.013}_{-0.013}$	$10^9 A_s e^{-2\tau}$	1.8757	$1.878^{+0.029}_{-0.027}$	$D_M(0.61)$	2072	2161^{+240}_{-120}
y_{cal}	1.0000	$1.0002^{+0.0062}_{-0.0062}$	D_{40}	1217.1	1223^{+37}_{-32}	$H(2.33)$	229.5	$232^{+10}_{-3.9}$
A_{217}^{CIB}	48.5	48^{+20}_{-20}	D_{220}	5718	5718^{+110}_{-100}	$D_M(2.33)$	5729	5743^{+81}_{-47}
$\xi^{tSZ \times CIB}$	0.32	—	D_{810}	2533.5	2533^{+35}_{-34}	$f\sigma_8(0.15)$	0.4978	$0.482^{+0.037}_{-0.035}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.1	814^{+14}_{-13}	$\sigma_8(0.15)$	1.001	$0.89^{+0.13}_{-0.19}$
A_{100}^{PS}	253	263^{+70}_{-70}	D_{2000}	230.24	$229.7^{+4.9}_{-4.6}$	$f\sigma_8(0.38)$	0.632	$0.564^{+0.088}_{-0.11}$
A_{143}^{PS}	48.2	48^{+20}_{-20}	$n_{s,0.002}$	0.9676	$0.965^{+0.013}_{-0.013}$	$\sigma_8(0.38)$	0.898	$0.80^{+0.12}_{-0.18}$
$A_{143 \times 217}^{PS}$	46.0	43^{+20}_{-20}	Y_P	0.245357	$0.24533^{+0.00021}_{-0.00026}$	$f\sigma_8(0.51)$	0.664	$0.58^{+0.11}_{-0.14}$
A_{217}^{PS}	118.6	115^{+30}_{-30}	Y_P^{BBN}	0.246683	$0.24665^{+0.00021}_{-0.00026}$	$\sigma_8(0.51)$	0.839	$0.75^{+0.11}_{-0.17}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.604	$2.62^{+0.11}_{-0.10}$	$f\sigma_8(0.61)$	0.671	$0.58^{+0.11}_{-0.15}$
A_{100}^{dustTT}	8.97	$9.0^{+4.8}_{-4.8}$	Age/Gyr	13.437	$13.58^{+0.39}_{-0.21}$	$\sigma_8(0.61)$	0.797	$0.71^{+0.10}_{-0.16}$
A_{143}^{dustTT}	10.84	$10.7^{+4.7}_{-4.5}$	z_*	1089.93	$1090.07^{+0.93}_{-0.90}$	$f\sigma_8(2.33)$	0.397	$0.356^{+0.048}_{-0.080}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.2}_{-8.4}$	r_*	144.82	$144.73^{+0.95}_{-1.0}$	$\sigma_8(2.33)$	0.398	$0.359^{+0.045}_{-0.071}$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$100\theta_*$	1.04117	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{143}	29.8	31^{+8}_{-8}
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.909	$13.901^{+0.087}_{-0.093}$	$f_{2000}^{143 \times 217}$	32.7	33^{+5}_{-5}
c_{217}	0.99825	$0.9983^{+0.0017}_{-0.0016}$	z_{drag}	1059.63	$1059.5^{+1.1}_{-1.1}$	f_{2000}^{217}	107.17	$107.8^{+4.9}_{-4.8}$
H_0	99.9	> 62.2	r_{drag}	147.52	$147.45^{+0.99}_{-1.0}$	$\chi_{lensing}^2$	8.41	$9.0 (\nu: 0.7)$
Ω_Λ	0.858	$0.796^{+0.069}_{-0.17}$	k_D	0.14034	$0.1404^{+0.0012}_{-0.0012}$	χ_{small}^2	395.65	$396.6 (\nu: 0.9)$
Ω_m	0.142	$0.204^{+0.17}_{-0.069}$	$100\theta_D$	0.16094	$0.16101^{+0.00066}_{-0.00064}$	χ_{lowl}^2	22.16	$22.74 (\nu: 0.4)$
$\Omega_m h^2$	0.14172	$0.1422^{+0.0041}_{-0.0038}$	z_{eq}	3371	3382^{+99}_{-91}	χ_{plik}^2	757.7	$770.3 (\nu: 13.9)$
$\Omega_m h^3$	0.1416	$0.121^{+0.023}_{-0.033}$	k_{eq}	0.010289	$0.01032^{+0.00030}_{-0.00028}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.8)$
σ_8	1.062	$0.95^{+0.13}_{-0.19}$	$100\theta_{eq}$	0.8187	$0.816^{+0.017}_{-0.018}$	χ_{CMB}^2	1183.9	$1198.7 (\nu: 15.7)$
S_8	0.730	$0.774^{+0.095}_{-0.068}$	$100\theta_{s,eq}$	0.4523	$0.4512^{+0.0090}_{-0.0095}$			
$\sigma_8 \Omega_m^{0.5}$	0.4000	$0.424^{+0.052}_{-0.037}$	$H(0.15)$	89.2	$82.3^{+8.3}_{-13}$			

Best-fit $\chi_{eff}^2 = 1185.20$; $\bar{\chi}_{eff}^2 = 1205.98$; $R - 1 = 0.01136$
 χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.41 small_100x143_offlike5_EE_Aplanck_B: 395.65 commander_dx12_v3.2.29: 22.16 plik_rd12_HM.v22.TT: 757.66

18.3 base_w_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02212^{+0.00055}_{-0.00053}$	$\sigma_8 \Omega_m^{0.25}$	0.6270	$0.626^{+0.035}_{-0.035}$	$D_M(0.15)$	601.1	602^{+28}_{-25}
$\Omega_c h^2$	0.1206	$0.1206^{+0.0049}_{-0.0051}$	$\sigma_8/h^{0.5}$	1.019	$1.017^{+0.050}_{-0.050}$	$H(0.38)$	83.57	$83.5^{+1.4}_{-1.4}$
$100\theta_{MC}$	1.04079	$1.0408^{+0.0012}_{-0.0011}$	$r_{drag}h$	108.4	$108.4^{+6.3}_{-6.3}$	$D_M(0.38)$	1467.9	1469^{+48}_{-42}
τ	0.0524	$0.051^{+0.022}_{-0.023}$	$\langle d^2 \rangle^{1/2}$	2.482	$2.48^{+0.11}_{-0.11}$	$H(0.51)$	89.24	$89.2^{+1.4}_{-1.4}$
w_0	-1.225	$-1.23^{+0.17}_{-0.17}$	z_{re}	7.51	$7.4^{+2.2}_{-2.4}$	$D_M(0.51)$	1919.5	1921^{+51}_{-46}
$\ln(10^{10} A_s)$	3.0411	$3.038^{+0.045}_{-0.048}$	$10^9 A_s$	2.093	$2.087^{+0.096}_{-0.098}$	$H(0.61)$	94.25	$94.2^{+1.5}_{-1.5}$
n_s	0.9638	$0.963^{+0.016}_{-0.015}$	$10^9 A_s e^{-2\tau}$	1.8846	$1.884^{+0.033}_{-0.031}$	$D_M(0.61)$	2246.5	2248^{+51}_{-48}
y_{cal}	1.0003	$1.0003^{+0.0060}_{-0.0057}$	D_{40}	1229.2	1231^{+40}_{-38}	$H(2.33)$	234.03	$234.0^{+3.0}_{-2.9}$
A_{217}^{CIB}	48.5	48^{+20}_{-20}	D_{220}	5711	5712^{+110}_{-86}	$D_M(2.33)$	5758.2	5760^{+37}_{-39}
$\xi^{tSZ \times CIB}$	0.35	—	D_{810}	2537.2	2535^{+32}_{-32}	$f\sigma_8(0.15)$	0.4756	$0.475^{+0.035}_{-0.036}$
A_{143}^{tSZ}	7.0	—	D_{1420}	815.2	814^{+13}_{-13}	$\sigma_8(0.15)$	0.812	$0.811^{+0.052}_{-0.055}$
A_{100}^{PS}	254	262^{+70}_{-70}	D_{2000}	230.06	$229.5^{+4.4}_{-4.7}$	$f\sigma_8(0.38)$	0.5164	$0.516^{+0.046}_{-0.044}$
A_{143}^{PS}	49.6	49^{+20}_{-20}	$n_{s,0.002}$	0.9638	$0.963^{+0.016}_{-0.015}$	$\sigma_8(0.38)$	0.7213	$0.720^{+0.045}_{-0.048}$
$A_{143 \times 217}^{PS}$	47.6	44^{+20}_{-20}	Y_P	0.245307	$0.24529^{+0.00022}_{-0.00025}$	$f\sigma_8(0.51)$	0.5212	$0.521^{+0.048}_{-0.047}$
A_{217}^{PS}	119.6	115^{+30}_{-20}	Y_P^{BBN}	0.246633	$0.24661^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	0.6747	$0.673^{+0.042}_{-0.044}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.627	$2.63^{+0.10}_{-0.10}$	$f\sigma_8(0.61)$	0.5185	$0.518^{+0.046}_{-0.047}$
A_{100}^{dustTT}	8.90	$8.9^{+4.6}_{-4.7}$	Age/Gyr	13.705	$13.711^{+0.092}_{-0.087}$	$\sigma_8(0.61)$	0.6415	$0.640^{+0.039}_{-0.041}$
A_{143}^{dustTT}	10.82	$10.8^{+4.6}_{-5.0}$	z_*	1090.25	$1090.3^{+1.0}_{-0.96}$	$f\sigma_8(2.33)$	0.3232	$0.323^{+0.018}_{-0.020}$
$A_{143 \times 217}^{dustTT}$	19.3	$18.3^{+8.3}_{-8.7}$	r_*	144.44	$144.5^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	0.3286	$0.328^{+0.016}_{-0.017}$
A_{217}^{dustTT}	94.4	93^{+20}_{-20}	$100\theta_*$	1.04100	$1.0410^{+0.0012}_{-0.0010}$	f_{2000}^{143}	30.2	31^{+7}_{-8}
c_{100}	0.99967	$0.9996^{+0.0017}_{-0.0015}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.88^{+0.11}_{-0.10}$	$f_{2000}^{143 \times 217}$	33.1	34^{+5}_{-5}
c_{217}	0.99824	$0.9983^{+0.0017}_{-0.0016}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$	f_{2000}^{217}	107.55	$108.1^{+4.6}_{-5.2}$
H_0	73.68	$73.7^{+4.2}_{-4.2}$	r_{drag}	147.17	$147.2^{+1.2}_{-1.1}$	χ_{simall}^2	395.82	$396.8 (\nu: 1.4)$
Ω_Λ	0.7358	$0.735^{+0.030}_{-0.035}$	k_D	0.14062	$0.1405^{+0.0013}_{-0.0012}$	χ_{lowl}^2	23.23	$23.5 (\nu: 0.7)$
Ω_m	0.2642	$0.265^{+0.035}_{-0.030}$	$100\theta_D$	0.16102	$0.16107^{+0.00062}_{-0.00062}$	χ_{plik}^2	757.8	$770.5 (\nu: 14.3)$
$\Omega_m h^2$	0.14340	$0.1434^{+0.0047}_{-0.0049}$	z_{eq}	3412	3411^{+110}_{-120}	$\chi_{H073p45}^2$	0.02	$1.0 (\nu: 1.0)$
$\Omega_m h^3$	0.1057	$0.1056^{+0.0071}_{-0.0072}$	k_{eq}	0.010412	$0.01041^{+0.00034}_{-0.00036}$	χ_{prior}^2	1.3	$7.2 (\nu: 6.5)$
σ_8	0.875	$0.873^{+0.055}_{-0.058}$	$100\theta_{eq}$	0.8110	$0.811^{+0.023}_{-0.020}$	χ_{CMB}^2	1176.8	$1190.8 (\nu: 15.4)$
S_8	0.821	$0.820^{+0.056}_{-0.055}$	$100\theta_{s,eq}$	0.4483	$0.448^{+0.012}_{-0.010}$			
$\sigma_8 \Omega_m^{0.5}$	0.4495	$0.449^{+0.030}_{-0.030}$	$H(0.15)$	76.27	$76.2^{+2.4}_{-2.6}$			

Best-fit $\chi_{\text{eff}}^2 = 1178.12$; $\bar{\chi}_{\text{eff}}^2 = 1198.92$; $R - 1 = 0.05017$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.82 commander_dx12_v3.2_29: 23.23 plik_rd12_HM_v22_TT: 757.77 Hubble - H073p45: 0.02

18.4 base_w_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02216^{+0.00057}_{-0.00057}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.431^{+0.055}_{-0.040}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.011}$
$\Omega_{\mathrm{c}} h^2$	$0.1204^{+0.0053}_{-0.0052}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.644^{+0.049}_{-0.059}$	$H(0.15)$	$81.8^{+8.3}_{-14}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$\sigma_8/h^{0.5}$	$1.046^{+0.071}_{-0.093}$	$D_{\mathrm{M}}(0.15)$	546^{+200}_{-70}
τ	$0.053^{+0.018}_{-0.012}$	$r_{\mathrm{drag}} h$	125^{+20}_{-40}	$H(0.38)$	$84.0^{+2.5}_{-3.8}$
w_0	$-1.56^{+0.79}_{-0.53}$	$\langle d^2 \rangle^{1/2}$	$2.51^{+0.11}_{-0.13}$	$D_{\mathrm{M}}(0.38)$	1385^{+200}_{-100}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.041}_{-0.028}$	z_{re}	< 9.28	$H(0.51)$	$88.1^{+2.2}_{-3.0}$
n_{s}	$0.963^{+0.015}_{-0.014}$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.087}_{-0.059}$	$D_{\mathrm{M}}(0.51)$	1839^{+300}_{-100}
y_{cal}	$1.0004^{+0.0063}_{-0.0061}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.883^{+0.034}_{-0.033}$	$H(0.61)$	$92.4^{+3.3}_{-3.3}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1230^{+41}_{-38}	$D_{\mathrm{M}}(0.61)$	2171^{+300}_{-100}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5716^{+110}_{-100}	$H(2.33)$	$232^{+10}_{-4.6}$
A_{143}^{tSZ}	—	D_{810}	2535^{+35}_{-33}	$D_{\mathrm{M}}(2.33)$	5750^{+84}_{-51}
A_{100}^{PS}	262^{+70}_{-70}	D_{1420}	814^{+13}_{-12}	$f\sigma_8(0.15)$	$0.492^{+0.057}_{-0.051}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.8^{+4.7}_{-4.5}$	$\sigma_8(0.15)$	$0.90^{+0.15}_{-0.22}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.963^{+0.015}_{-0.014}$	$f\sigma_8(0.38)$	$0.57^{+0.11}_{-0.13}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24530^{+0.00022}_{-0.00027}$	$\sigma_8(0.38)$	$0.80^{+0.13}_{-0.20}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00022}_{-0.00027}$	$f\sigma_8(0.51)$	$0.59^{+0.12}_{-0.16}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.11}_{-0.10}$	$\sigma_8(0.51)$	$0.75^{+0.12}_{-0.19}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.5}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.59^{+0.41}_{-0.21}$	$f\sigma_8(0.61)$	$0.59^{+0.12}_{-0.17}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.3}_{-8.7}$	z_*	$1090.2^{+1.1}_{-1.0}$	$\sigma_8(0.61)$	$0.71^{+0.11}_{-0.18}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	r_*	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	$0.358^{+0.052}_{-0.088}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0012}$	$\sigma_8(2.33)$	$0.361^{+0.049}_{-0.078}$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.11}_{-0.11}$	f_{2000}^{143}	31^{+8}_{-7}
H_0	> 60.9	z_{drag}	$1059.5^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
Ω_{Λ}	$0.792^{+0.071}_{-0.18}$	r_{drag}	$147.2^{+1.3}_{-1.2}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.9}$
Ω_{m}	$0.208^{+0.18}_{-0.071}$	k_{D}	$0.1406^{+0.0013}_{-0.0013}$	χ_{simall}^2	$396.6 (\nu: 1.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1432^{+0.0050}_{-0.0050}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00069}_{-0.00067}$	χ_{lowl}^2	$23.2 (\nu: 0.7)$
$\Omega_{\mathrm{m}} h^3$	$0.122^{+0.024}_{-0.035}$	z_{eq}	3406^{+120}_{-120}	χ_{plik}^2	$769.8 (\nu: 14.6)$
σ_8	$0.96^{+0.15}_{-0.22}$	k_{eq}	$0.01040^{+0.00037}_{-0.00037}$	χ_{prior}^2	$7.2 (\nu: 6.6)$
S_8	$0.787^{+0.10}_{-0.073}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.023}_{-0.022}$	χ_{CMB}^2	$1189.7 (\nu: 15.5)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1196.88$; $R - 1 = 0.00979$

18.5 base_w_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00056}_{-0.00053}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.635^{+0.033}_{-0.042}$	$D_{\mathrm{M}}(0.15)$	544^{+100}_{-70}
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0042}_{-0.0038}$	$\sigma_8/h^{0.5}$	$1.034^{+0.050}_{-0.069}$	$H(0.38)$	$84.5^{+2.1}_{-3.9}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0012}$	$r_{\mathrm{drag}} h$	126^{+20}_{-40}	$D_{\mathrm{M}}(0.38)$	1378^{+200}_{-100}
τ	$0.053^{+0.017}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.483^{+0.072}_{-0.083}$	$H(0.51)$	$88.6^{+1.7}_{-2.3}$
w_0	$-1.53^{+0.71}_{-0.48}$	z_{re}	< 9.03	$D_{\mathrm{M}}(0.51)$	1830^{+200}_{-100}
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.036}_{-0.025}$	$10^9 A_{\mathrm{s}}$	$2.087^{+0.076}_{-0.052}$	$H(0.61)$	$92.8^{+2.9}_{-2.9}$
n_{s}	$0.966^{+0.013}_{-0.013}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.027}$	$D_{\mathrm{M}}(0.61)$	2161^{+240}_{-120}
y_{cal}	$1.0002^{+0.0062}_{-0.0062}$	D_{40}	1223^{+37}_{-32}	$H(2.33)$	$231^{+10}_{-3.9}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5718^{+110}_{-100}	$D_{\mathrm{M}}(2.33)$	5742^{+82}_{-47}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2533^{+35}_{-34}	$f\sigma_8(0.15)$	$0.481^{+0.037}_{-0.035}$
A_{143}^{tSZ}	—	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.89^{+0.13}_{-0.19}$
A_{100}^{PS}	262^{+70}_{-80}	D_{2000}	$229.8^{+4.9}_{-4.5}$	$f\sigma_8(0.38)$	$0.563^{+0.089}_{-0.11}$
A_{143}^{PS}	48^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.966^{+0.013}_{-0.013}$	$\sigma_8(0.38)$	$0.80^{+0.12}_{-0.18}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.24533^{+0.00022}_{-0.00025}$	$f\sigma_8(0.51)$	$0.58^{+0.11}_{-0.14}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	$0.75^{+0.11}_{-0.17}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.10}_{-0.10}$	$f\sigma_8(0.61)$	$0.58^{+0.11}_{-0.15}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.9}_{-4.7}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.58^{+0.39}_{-0.21}$	$\sigma_8(0.61)$	$0.71^{+0.10}_{-0.16}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.5}$	z_*	$1090.04^{+0.91}_{-0.89}$	$f\sigma_8(2.33)$	$0.356^{+0.048}_{-0.080}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.2}_{-8.5}$	r_*	$144.77^{+0.94}_{-0.97}$	$\sigma_8(2.33)$	$0.359^{+0.045}_{-0.072}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-8}
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.905^{+0.085}_{-0.091}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9983^{+0.0017}_{-0.0017}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	f_{2000}^{217}	$107.8^{+4.9}_{-4.8}$
H_0	> 62.1	r_{drag}	$147.49^{+0.96}_{-1.0}$	$\chi_{\mathrm{lensing}}^2$	$9.1 (\nu: 0.7)$
Ω_{Λ}	$0.795^{+0.070}_{-0.17}$	k_{D}	$0.1403^{+0.0012}_{-0.0011}$	χ_{simall}^2	$396.4 (\nu: 0.7)$
Ω_{m}	$0.205^{+0.17}_{-0.070}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00065}_{-0.00064}$	χ_{lowl}^2	$22.70 (\nu: 0.4)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0040}_{-0.0037}$	z_{eq}	3378^{+96}_{-88}	χ_{plik}^2	$770.2 (\nu: 14.2)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.023}_{-0.032}$	k_{eq}	$0.01031^{+0.00029}_{-0.00027}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.95^{+0.13}_{-0.19}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.017}_{-0.018}$	χ_{CMB}^2	$1198.3 (\nu: 15.3)$
S_8	$0.774^{+0.10}_{-0.065}$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0088}_{-0.0091}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.424^{+0.055}_{-0.036}$	$H(0.15)$	$82.2^{+8.3}_{-14}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1205.67; R - 1 = 0.01511$$

18.6 base_w_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02212^{+0.00055}_{-0.00053}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.627^{+0.034}_{-0.036}$	$D_{\mathrm{M}}(0.15)$	602^{+28}_{-25}
$\Omega_{\mathrm{c}}h^2$	$0.1205^{+0.0048}_{-0.0053}$	$\sigma_8/h^{0.5}$	$1.019^{+0.049}_{-0.050}$	$H(0.38)$	$83.5^{+1.4}_{-1.3}$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0012}_{-0.0011}$	$r_{\mathrm{drag}}h$	$108.4^{+6.3}_{-6.3}$	$D_{\mathrm{M}}(0.38)$	1469^{+48}_{-42}
τ	$0.053^{+0.019}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.11}$	$H(0.51)$	$89.2^{+1.3}_{-1.5}$
w_0	$-1.23^{+0.17}_{-0.17}$	z_{re}	< 9.35	$D_{\mathrm{M}}(0.51)$	1921^{+50}_{-47}
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.039}_{-0.030}$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.083}_{-0.062}$	$H(0.61)$	$94.2^{+1.4}_{-1.5}$
n_{s}	$0.963^{+0.016}_{-0.014}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.033}_{-0.031}$	$D_{\mathrm{M}}(0.61)$	2248^{+50}_{-48}
y_{cal}	$1.0003^{+0.0060}_{-0.0057}$	D_{40}	1231^{+40}_{-38}	$H(2.33)$	$234.0^{+2.9}_{-2.9}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5712^{+110}_{-86}	$D_{\mathrm{M}}(2.33)$	5760^{+37}_{-38}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2535^{+33}_{-32}	$f\sigma_8(0.15)$	$0.476^{+0.035}_{-0.038}$
A_{143}^{tSZ}	—	D_{1420}	814^{+13}_{-11}	$\sigma_8(0.15)$	$0.812^{+0.051}_{-0.055}$
A_{100}^{PS}	262^{+70}_{-60}	D_{2000}	$229.6^{+4.4}_{-4.3}$	$f\sigma_8(0.38)$	$0.516^{+0.046}_{-0.045}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.963^{+0.016}_{-0.014}$	$\sigma_8(0.38)$	$0.721^{+0.045}_{-0.049}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	Y_{P}	$0.24529^{+0.00022}_{-0.00025}$	$f\sigma_8(0.51)$	$0.521^{+0.046}_{-0.047}$
A_{217}^{PS}	115^{+30}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24662^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	$0.674^{+0.041}_{-0.044}$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.10}$	$f\sigma_8(0.61)$	$0.518^{+0.046}_{-0.048}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.710^{+0.092}_{-0.088}$	$\sigma_8(0.61)$	$0.641^{+0.038}_{-0.041}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-5.0}$	z_*	$1090.3^{+1.0}_{-0.95}$	$f\sigma_8(2.33)$	$0.323^{+0.018}_{-0.020}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.0}_{-9.2}$	r_*	$144.5^{+1.2}_{-1.1}$	$\sigma_8(2.33)$	$0.328^{+0.016}_{-0.017}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0012}_{-0.0011}$	f_{2000}^{143}	31^{+7}_{-8}
c_{100}	$0.9996^{+0.0017}_{-0.0015}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.10}_{-0.10}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{217}	$0.9983^{+0.0017}_{-0.0016}$	z_{drag}	$1059.4^{+1.1}_{-1.0}$	f_{2000}^{217}	$108.0^{+4.5}_{-5.2}$
H_0	$73.7^{+4.2}_{-4.2}$	r_{drag}	$147.2^{+1.2}_{-1.1}$	χ_{simall}^2	$396.6 (\nu: 1.2)$
Ω_{Λ}	$0.735^{+0.030}_{-0.035}$	k_{D}	$0.1405^{+0.0013}_{-0.0012}$	χ_{lowl}^2	$23.5 (\nu: 0.7)$
Ω_{m}	$0.265^{+0.035}_{-0.030}$	$100\theta_{\mathrm{D}}$	$0.16107^{+0.00059}_{-0.00062}$	χ_{plik}^2	$770.2 (\nu: 14.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1433^{+0.0046}_{-0.0051}$	z_{eq}	3409^{+110}_{-120}	$\chi_{\mathrm{H073p45}}^2$	$1.0 (\nu: 1.0)$
$\Omega_{\mathrm{m}}h^3$	$0.1055^{+0.0070}_{-0.0072}$	k_{eq}	$0.01040^{+0.00033}_{-0.00037}$	χ_{prior}^2	$7.1 (\nu: 6.4)$
σ_8	$0.874^{+0.054}_{-0.058}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.023}_{-0.020}$	χ_{CMB}^2	$1190.3 (\nu: 14.9)$
S_8	$0.820^{+0.055}_{-0.054}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.010}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.030}_{-0.030}$	$H(0.15)$	$76.2^{+2.4}_{-2.6}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1198.47$; $R - 1 = 0.05306$

18.7 base_w_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022434	$0.02239^{+0.00040}_{-0.00037}$	$\Omega_m h^2$	0.14291	$0.1430^{+0.0033}_{-0.0031}$	k_{eq}	0.010376	$0.01038^{+0.00024}_{-0.00023}$
$\Omega_c h^2$	0.11983	$0.1199^{+0.0035}_{-0.0033}$	$\Omega_m h^3$	0.1427	$0.124^{+0.021}_{-0.033}$	$100\theta_{\text{eq}}$	0.8140	$0.814^{+0.014}_{-0.015}$
$100\theta_{\text{MC}}$	1.04097	$1.04094^{+0.00082}_{-0.00080}$	σ_8	1.072	$0.97^{+0.13}_{-0.20}$	$100\theta_{\text{s,eq}}$	0.4497	$0.4495^{+0.0073}_{-0.0076}$
τ	0.0540	$0.054^{+0.021}_{-0.021}$	S_8	0.741	$0.777^{+0.084}_{-0.059}$	$H(0.15)$	89.0	$82.9^{+7.2}_{-13}$
w_0	-1.95	$-1.58^{+0.72}_{-0.45}$	$\sigma_8 \Omega_m^{0.5}$	0.4058	$0.426^{+0.046}_{-0.032}$	$D_{\text{M}}(0.15)$	480	537^{+100}_{-60}
$\ln(10^{10} A_s)$	3.0435	$3.043^{+0.043}_{-0.043}$	$\sigma_8 \Omega_m^{0.25}$	0.6596	$0.643^{+0.035}_{-0.052}$	$H(0.38)$	84.72	$84.5^{+1.7}_{-3.0}$
n_s	0.9667	$0.965^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	1.073	$1.045^{+0.053}_{-0.083}$	$D_{\text{M}}(0.38)$	1284	1368^{+200}_{-100}
y_{cal}	1.0003	$1.0005^{+0.0065}_{-0.0064}$	$r_{\text{drag}} h$	146.9	127^{+20}_{-30}	$H(0.51)$	87.01	$88.4^{+1.8}_{-2.3}$
A_{217}^{CIB}	45.5	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.522	$2.501^{+0.083}_{-0.11}$	$D_{\text{M}}(0.51)$	1739	1820^{+200}_{-100}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.67	—	z_{re}	7.57	$7.6^{+2.0}_{-2.2}$	$H(0.61)$	90.41	$92.5^{+3.1}_{-2.8}$
A_{143}^{tSZ}	7.02	$5.5^{+4.5}_{-4.6}$	$10^9 A_s$	2.098	$2.098^{+0.091}_{-0.088}$	$D_{\text{M}}(0.61)$	2077	2151^{+210}_{-100}
A_{100}^{PS}	248	257^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8831	$1.883^{+0.030}_{-0.030}$	$H(2.33)$	230.4	$231.9^{+8.0}_{-3.2}$
A_{143}^{PS}	49.8	46^{+20}_{-20}	D_{40}	1223.0	1227^{+34}_{-32}	$D_{\text{M}}(2.33)$	5726.0	5735^{+59}_{-34}
$A_{143 \times 217}^{\text{PS}}$	52.9	43^{+20}_{-20}	D_{220}	5734	5735^{+99}_{-98}	$f\sigma_8(0.15)$	0.5064	$0.489^{+0.039}_{-0.043}$
A_{217}^{PS}	122.0	116^{+30}_{-30}	D_{810}	2539.6	2539^{+35}_{-34}	$\sigma_8(0.15)$	1.011	$0.91^{+0.12}_{-0.20}$
A^{kSZ}	0.0	—	D_{1420}	817.8	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.642	$0.576^{+0.088}_{-0.13}$
A_{100}^{dustTT}	8.80	$8.9^{+4.7}_{-4.8}$	D_{2000}	231.54	$231.1^{+4.2}_{-4.0}$	$\sigma_8(0.38)$	0.905	$0.81^{+0.11}_{-0.18}$
A_{143}^{dustTT}	10.97	$10.9^{+4.5}_{-4.6}$	$n_{\text{s},0.002}$	0.9667	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.674	$0.59^{+0.10}_{-0.15}$
$A_{143 \times 217}^{\text{dustTT}}$	20.0	$18.5^{+8.5}_{-8.7}$	Y_{P}	0.245420	$0.24540^{+0.00015}_{-0.00015}$	$\sigma_8(0.51)$	0.846	$0.76^{+0.10}_{-0.17}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246747	$0.24673^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	0.680	$0.60^{+0.11}_{-0.15}$
A_{100}^{dustTE}	0.115	$0.114^{+0.099}_{-0.096}$	$10^5 D/H$	2.574	$2.582^{+0.071}_{-0.071}$	$\sigma_8(0.61)$	0.803	$0.722^{+0.097}_{-0.16}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.074}_{-0.074}$	Age/Gyr	13.427	$13.54^{+0.34}_{-0.16}$	$f\sigma_8(2.33)$	0.400	$0.362^{+0.046}_{-0.080}$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	z_*	1089.82	$1089.89^{+0.70}_{-0.72}$	$\sigma_8(2.33)$	0.400	$0.365^{+0.043}_{-0.071}$
A_{143}^{dustTE}	0.225	$0.23^{+0.14}_{-0.14}$	r_*	144.43	$144.43^{+0.74}_{-0.78}$	f_{2000}^{143}	28.0	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	1.04114	$1.04112^{+0.00081}_{-0.00078}$	$f_{2000}^{143 \times 217}$	31.50	32^{+5}_{-5}
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.70}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.872	$13.873^{+0.069}_{-0.073}$	f_{2000}^{217}	106.10	$106.8^{+4.6}_{-4.6}$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1060.09	$1059.98^{+0.79}_{-0.78}$	χ_{small}^2	395.85	$397.0 (\nu: 1.6)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.06	$147.09^{+0.73}_{-0.76}$	χ_{lowl}^2	22.44	$22.87 (\nu: 0.4)$
H_0	99.9	> 63.9	k_{D}	0.14094	$0.14089^{+0.00084}_{-0.00079}$	χ_{plik}^2	2341.6	$2357.3 (\nu: 16.7)$
Ω_{Λ}	0.857	$0.802^{+0.060}_{-0.16}$	$100\theta_{\text{D}}$	0.160683	$0.16073^{+0.00044}_{-0.00046}$	χ_{prior}^2	1.5	$11.5 (\nu: 10.1)$
Ω_{m}	0.143	$0.198^{+0.16}_{-0.060}$	z_{eq}	3400	3401^{+80}_{-74}	χ_{CMB}^2	2759.9	$2777.1 (\nu: 17.6)$

Best-fit $\chi_{\text{eff}}^2 = 2761.37$; $\bar{\chi}_{\text{eff}}^2 = 2788.65$; $R - 1 = 0.00965$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3.2_29: 22.45 plik_rd12_HM_v22b_TTTEE: 2341.57

18.8 base_w_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022465	$0.02243^{+0.00039}_{-0.00038}$	$\Omega_m h^3$	0.1420	$0.123^{+0.021}_{-0.031}$	$100\theta_{s,eq}$	0.4514	$0.4508^{+0.0065}_{-0.0068}$
$\Omega_c h^2$	0.11907	$0.1193^{+0.0031}_{-0.0030}$	σ_8	1.062	$0.96^{+0.12}_{-0.18}$	$H(0.15)$	89.2	$83.0^{+7.3}_{-12}$
$100\theta_{MC}$	1.04100	$1.04099^{+0.00082}_{-0.00081}$	S_8	0.732	$0.771^{+0.079}_{-0.057}$	$D_M(0.15)$	479	537^{+100}_{-60}
τ	0.0523	$0.052^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4011	$0.422^{+0.043}_{-0.031}$	$H(0.38)$	85.07	$84.7^{+1.6}_{-3.0}$
w_0	-1.92	$-1.57^{+0.66}_{-0.44}$	$\sigma_8 \Omega_m^{0.25}$	0.6528	$0.637^{+0.029}_{-0.042}$	$D_M(0.38)$	1280	1366^{+200}_{-100}
$\ln(10^{10} A_s)$	3.0373	$3.038^{+0.039}_{-0.038}$	$\sigma_8/h^{0.5}$	1.063	$1.037^{+0.045}_{-0.069}$	$H(0.51)$	87.31	$88.6^{+1.6}_{-2.2}$
n_s	0.9683	$0.967^{+0.010}_{-0.011}$	$r_{drag} h$	147.0	127^{+20}_{-30}	$D_M(0.51)$	1733	1816^{+200}_{-100}
y_{cal}	1.0001	$1.0003^{+0.0066}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	2.502	$2.485^{+0.064}_{-0.078}$	$H(0.61)$	90.65	$92.7^{+2.9}_{-2.7}$
A_{217}^{CIB}	46.3	47^{+20}_{-20}	z_{re}	7.37	$7.4^{+1.9}_{-2.1}$	$D_M(0.61)$	2071	2147^{+200}_{-100}
$\xi^{tSZ \times CIB}$	0.57	—	$10^9 A_s$	2.085	$2.087^{+0.083}_{-0.078}$	$H(2.33)$	229.9	$231.5^{+6.8}_{-3.4}$
A_{143}^{tSZ}	7.18	> 0.900	$10^9 A_s e^{-2\tau}$	1.8779	$1.879^{+0.029}_{-0.027}$	$D_M(2.33)$	5721.7	5731^{+56}_{-32}
A_{100}^{PS}	248	257^{+70}_{-70}	D_{40}	1217.3	1223^{+33}_{-29}	$f\sigma_8(0.15)$	0.4987	$0.483^{+0.032}_{-0.035}$
A_{143}^{PS}	48.5	45^{+20}_{-20}	D_{220}	5730	5734^{+98}_{-98}	$\sigma_8(0.15)$	1.002	$0.90^{+0.12}_{-0.18}$
$A_{143 \times 217}^{PS}$	50.3	42^{+20}_{-20}	D_{810}	2536.5	2536^{+35}_{-34}	$f\sigma_8(0.38)$	0.632	$0.569^{+0.084}_{-0.11}$
A_{217}^{PS}	120.5	115^{+20}_{-30}	D_{1420}	817.3	817^{+13}_{-12}	$\sigma_8(0.38)$	0.898	$0.81^{+0.11}_{-0.17}$
A^{kSZ}	0.0	—	D_{2000}	231.36	$230.9^{+4.1}_{-4.2}$	$f\sigma_8(0.51)$	0.664	$0.587^{+0.098}_{-0.13}$
A_{100}^{dustTT}	8.81	$9.0^{+4.7}_{-4.9}$	$n_{s,0.002}$	0.9683	$0.967^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	0.840	$0.75^{+0.10}_{-0.16}$
A_{143}^{dustTT}	11.06	$10.9^{+4.4}_{-4.7}$	Y_P	0.245432	$0.24542^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	0.671	$0.59^{+0.10}_{-0.14}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.4}_{-8.6}$	Y_P^{BBN}	0.246758	$0.24674^{+0.00015}_{-0.00015}$	$\sigma_8(0.61)$	0.797	$0.717^{+0.095}_{-0.15}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	$10^5 D/H$	2.568	$2.576^{+0.071}_{-0.069}$	$f\sigma_8(2.33)$	0.397	$0.360^{+0.045}_{-0.073}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.096}$	Age/Gyr	13.420	$13.54^{+0.32}_{-0.17}$	$\sigma_8(2.33)$	0.398	$0.362^{+0.042}_{-0.066}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.074}_{-0.073}$	z_*	1089.72	$1089.79^{+0.68}_{-0.67}$	f_{2000}^{143}	28.3	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	0.484	$0.48^{+0.22}_{-0.22}$	r_*	144.60	$144.56^{+0.64}_{-0.68}$	$f_{2000}^{143 \times 217}$	31.58	32^{+5}_{-5}
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	1.04118	$1.04117^{+0.00080}_{-0.00080}$	f_{2000}^{217}	106.15	$106.8^{+4.5}_{-4.5}$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.888	$13.885^{+0.061}_{-0.064}$	$\chi^2_{lensing}$	8.68	9.0 ($\nu: 0.6$)
A_{217}^{dustTE}	2.08	$2.07^{+0.70}_{-0.71}$	z_{drag}	1060.09	$1060.02^{+0.79}_{-0.77}$	χ^2_{small}	396	1325 ($\nu: 479409.9$)
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.23	$147.21^{+0.65}_{-0.69}$	χ^2_{lowl}	22.13	22.59 ($\nu: 0.3$)
c_{217}	0.99818	$0.9982^{+0.0017}_{-0.0017}$	k_D	0.14079	$0.14079^{+0.00076}_{-0.00074}$	χ^2_{plik}	2342	1430 ($\nu: 479481.8$)
H_0	99.9	> 65.0	$100\theta_D$	0.160670	$0.16072^{+0.00044}_{-0.00046}$	χ^2_{prior}	1.6	11.6 ($\nu: 10.3$)
Ω_Λ	0.857	$0.803^{+0.060}_{-0.14}$	z_{eq}	3382	3388^{+70}_{-64}	χ^2_{CMB}	2768.9	2786.1 ($\nu: 18.1$)
Ω_m	0.143	$0.197^{+0.14}_{-0.060}$	k_{eq}	0.010323	$0.01034^{+0.00021}_{-0.00020}$			
$\Omega_m h^2$	0.14218	$0.1424^{+0.0029}_{-0.0027}$	$100\theta_{eq}$	0.8172	$0.816^{+0.013}_{-0.013}$			

Best-fit $\chi^2_{eff} = 2770.54$; $\bar{\chi}^2_{eff} = 2797.72$; $R - 1 = 0.01426$
 χ^2_{eff} : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.68 small_100x143_offlike5_EE_Aplanck_B: 395.65 commander_dx12_v3_2_29: 22.13 plik_rd12_HM_v22b_TTTEEE: 2342.46

18.9 base_w_plikHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022388	$0.02236^{+0.00039}_{-0.00035}$	$\Omega_m h^2$	0.14309	$0.1432^{+0.0034}_{-0.0034}$	k_{eq}	0.010389	$0.01040^{+0.00025}_{-0.00025}$
$\Omega_c h^2$	0.12006	$0.1202^{+0.0035}_{-0.0037}$	$\Omega_m h^3$	0.1055	$0.1055^{+0.0064}_{-0.0064}$	$100\theta_{\text{eq}}$	0.8130	$0.812^{+0.016}_{-0.015}$
$100\theta_{\text{MC}}$	1.04093	$1.04092^{+0.00082}_{-0.00077}$	σ_8	0.8704	$0.870^{+0.049}_{-0.048}$	$100\theta_{\text{s,eq}}$	0.4492	$0.4489^{+0.0080}_{-0.0077}$
τ	0.0545	$0.054^{+0.023}_{-0.019}$	S_8	0.8153	$0.816^{+0.041}_{-0.040}$	$H(0.15)$	76.46	$76.4^{+2.4}_{-2.5}$
w_0	-1.209	$-1.21^{+0.15}_{-0.15}$	$\sigma_8 \Omega_m^{0.5}$	0.4465	$0.447^{+0.023}_{-0.022}$	$D_{\text{M}}(0.15)$	600.1	601^{+27}_{-25}
$\ln(10^{10} A_s)$	3.0447	$3.044^{+0.042}_{-0.044}$	$\sigma_8 \Omega_m^{0.25}$	0.6234	$0.624^{+0.026}_{-0.028}$	$H(0.38)$	83.87	$83.8^{+1.1}_{-1.1}$
n_s	0.9662	$0.965^{+0.011}_{-0.012}$	$\sigma_8/h^{0.5}$	1.0136	$1.014^{+0.038}_{-0.040}$	$D_{\text{M}}(0.38)$	1464.1	1466^{+45}_{-41}
y_{cal}	1.0004	$1.0006^{+0.0061}_{-0.0058}$	$r_{\text{drag}} h$	108.4	$108.3^{+6.3}_{-6.2}$	$H(0.51)$	89.56	$89.5^{+1.1}_{-0.95}$
A_{217}^{CIB}	46.7	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.472	$2.476^{+0.075}_{-0.087}$	$D_{\text{M}}(0.51)$	1914.1	1916^{+46}_{-44}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.50	—	z_{re}	7.67	$7.6^{+2.2}_{-2.1}$	$H(0.61)$	94.58	$94.5^{+1.1}_{-1.0}$
A_{143}^{tSZ}	7.1	—	$10^9 A_s$	2.100	$2.099^{+0.090}_{-0.091}$	$D_{\text{M}}(0.61)$	2240.0	2242^{+47}_{-44}
A_{100}^{PS}	250	258^{+70}_{-70}	$10^9 A_s e^{-2\tau}$	1.8835	$1.885^{+0.029}_{-0.028}$	$H(2.33)$	234.02	$234.1^{+2.3}_{-2.1}$
A_{143}^{PS}	48.2	46^{+20}_{-20}	D_{40}	1226.4	1231^{+33}_{-29}	$D_{\text{M}}(2.33)$	5745.8	5748^{+29}_{-27}
$A_{143 \times 217}^{\text{PS}}$	49.0	43^{+20}_{-20}	D_{220}	5728	5734^{+92}_{-92}	$f\sigma_8(0.15)$	0.4714	$0.472^{+0.026}_{-0.026}$
A_{217}^{PS}	120.4	116^{+30}_{-30}	D_{810}	2539.7	2540^{+36}_{-31}	$\sigma_8(0.15)$	0.8083	$0.808^{+0.047}_{-0.045}$
A^{kSZ}	0.0	—	D_{1420}	817.8	817^{+12}_{-12}	$f\sigma_8(0.38)$	0.5116	$0.512^{+0.036}_{-0.035}$
A_{100}^{dustTT}	8.76	$9.0^{+4.3}_{-4.7}$	D_{2000}	231.31	$231.0^{+3.9}_{-4.1}$	$\sigma_8(0.38)$	0.7185	$0.718^{+0.041}_{-0.040}$
A_{143}^{dustTT}	10.92	$11.0^{+4.6}_{-4.8}$	$n_{\text{s},0.002}$	0.9662	$0.965^{+0.011}_{-0.012}$	$f\sigma_8(0.51)$	0.5166	$0.517^{+0.038}_{-0.038}$
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.7^{+7.9}_{-8.5}$	Y_{P}	0.245402	$0.24539^{+0.00015}_{-0.00014}$	$\sigma_8(0.51)$	0.6723	$0.672^{+0.038}_{-0.038}$
A_{217}^{dustTT}	95.1	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246729	$0.24672^{+0.00015}_{-0.00014}$	$f\sigma_8(0.61)$	0.5142	$0.515^{+0.038}_{-0.038}$
A_{100}^{dustTE}	0.114	$0.114^{+0.10}_{-0.088}$	$10^5 D/H$	2.582	$2.587^{+0.066}_{-0.070}$	$\sigma_8(0.61)$	0.6394	$0.639^{+0.035}_{-0.035}$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.070}_{-0.075}$	Age/Gyr	13.681	$13.685^{+0.084}_{-0.079}$	$f\sigma_8(2.33)$	0.3224	$0.322^{+0.017}_{-0.018}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.22}_{-0.23}$	z_*	1089.90	$1089.95^{+0.65}_{-0.80}$	$\sigma_8(2.33)$	0.3282	$0.328^{+0.016}_{-0.015}$
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.15}$	r_*	144.40	$144.38^{+0.77}_{-0.80}$	χ_{small}^2	396	1288 (ν : 476761.4)
$A_{143 \times 217}^{\text{dustTE}}$	0.669	$0.67^{+0.20}_{-0.20}$	$100\theta_*$	1.04111	$1.04110^{+0.00081}_{-0.00077}$	χ_{lowl}^2	22.91	23.25 (ν : 0.4)
A_{217}^{dustTE}	2.10	$2.08^{+0.67}_{-0.63}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.870	$13.868^{+0.072}_{-0.073}$	χ_{plik}^2	2343	1468 (ν : 476859.4)
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.97	$1059.94^{+0.76}_{-0.73}$	χ_{H073p45}^2	0.03	0.97 (ν : 1.0)
c_{217}	0.99818	$0.9982^{+0.0017}_{-0.0015}$	r_{drag}	147.06	$147.04^{+0.72}_{-0.77}$	χ_{prior}^2	1.6	11.6 (ν : 10.4)
H_0	73.73	$73.7^{+4.2}_{-4.1}$	k_{D}	0.14092	$0.14092^{+0.00096}_{-0.00083}$	χ_{CMB}^2	2762.3	2778.8 (ν : 18.3)
Ω_{Λ}	0.7368	$0.736^{+0.029}_{-0.033}$	$100\theta_{\text{D}}$	0.160733	$0.16076^{+0.00042}_{-0.00042}$			
Ω_{m}	0.2632	$0.264^{+0.033}_{-0.029}$	z_{eq}	3404	3408^{+81}_{-82}			

Best-fit $\chi_{\text{eff}}^2 = 2763.89$; $\bar{\chi}_{\text{eff}}^2 = 2791.33$; $R - 1 = 0.07272$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3.2_29: 22.91 plik_rd12_HM_v22b_TTTEEE: 2343.33 Hubble - H073p45: 0.03

18.10 base_w_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00040}_{-0.00037}$	$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0033}_{-0.0031}$	k_{eq}	$0.01038^{+0.00024}_{-0.00022}$
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0035}_{-0.0033}$	$\Omega_{\mathrm{m}}h^3$	$0.124^{+0.021}_{-0.033}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.014}_{-0.015}$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00082}_{-0.00080}$	σ_8	$0.97^{+0.13}_{-0.20}$	$100\theta_{\mathrm{s,eq}}$	$0.4496^{+0.0072}_{-0.0075}$
τ	$0.055^{+0.019}_{-0.013}$	S_8	$0.778^{+0.084}_{-0.058}$	$H(0.15)$	$82.9^{+7.2}_{-13}$
w_0	$-1.58^{+0.71}_{-0.45}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.426^{+0.046}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	537^{+100}_{-60}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.041}_{-0.029}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.643^{+0.035}_{-0.052}$	$H(0.38)$	$84.5^{+1.7}_{-2.9}$
n_{s}	$0.966^{+0.011}_{-0.011}$	$\sigma_8/h^{0.5}$	$1.046^{+0.053}_{-0.083}$	$D_{\mathrm{M}}(0.38)$	1368^{+200}_{-100}
y_{cal}	$1.0005^{+0.0065}_{-0.0064}$	$r_{\mathrm{drag}}h$	127^{+20}_{-30}	$H(0.51)$	$88.4^{+1.8}_{-2.3}$
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.504^{+0.081}_{-0.10}$	$D_{\mathrm{M}}(0.51)$	1819^{+200}_{-100}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 9.48	$H(0.61)$	$92.5^{+3.1}_{-2.8}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.087}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2151^{+210}_{-100}
A_{100}^{PS}	257^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.030}_{-0.029}$	$H(2.33)$	$231.8^{+8.0}_{-3.2}$
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1227^{+34}_{-32}	$D_{\mathrm{M}}(2.33)$	5735^{+58}_{-34}
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{220}	5735^{+99}_{-99}	$f\sigma_8(0.15)$	$0.489^{+0.039}_{-0.043}$
A_{217}^{PS}	116^{+30}_{-30}	D_{810}	2538^{+35}_{-34}	$\sigma_8(0.15)$	$0.91^{+0.12}_{-0.20}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.38)$	$0.577^{+0.088}_{-0.13}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.8}$	D_{2000}	$231.1^{+4.2}_{-4.0}$	$\sigma_8(0.38)$	$0.81^{+0.11}_{-0.18}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.5}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.59^{+0.10}_{-0.14}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.5}_{-8.6}$	Y_{P}	$0.24540^{+0.00015}_{-0.00015}$	$\sigma_8(0.51)$	$0.76^{+0.10}_{-0.17}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	$0.60^{+0.11}_{-0.15}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.099}_{-0.096}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.581^{+0.070}_{-0.071}$	$\sigma_8(0.61)$	$0.723^{+0.097}_{-0.16}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.074}_{-0.073}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.54^{+0.34}_{-0.16}$	$f\sigma_8(2.33)$	$0.362^{+0.045}_{-0.080}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	z_*	$1089.88^{+0.68}_{-0.72}$	$\sigma_8(2.33)$	$0.365^{+0.043}_{-0.071}$
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	r_*	$144.44^{+0.73}_{-0.77}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$100\theta_*$	$1.04113^{+0.00080}_{-0.00078}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.69}_{-0.69}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.874^{+0.069}_{-0.073}$	f_{2000}^{217}	$106.7^{+4.6}_{-4.5}$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	$1059.99^{+0.78}_{-0.74}$	χ_{small}^2	$396.9 (\nu: 1.7)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.09^{+0.73}_{-0.76}$	χ_{lowl}^2	$22.87 (\nu: 0.4)$
H_0	> 64.0	k_{D}	$0.14088^{+0.00084}_{-0.00079}$	χ_{plik}^2	$2357.1 (\nu: 16.5)$
Ω_{Λ}	$0.802^{+0.060}_{-0.16}$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00044}_{-0.00046}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_{m}	$0.198^{+0.16}_{-0.060}$	z_{eq}	3400^{+78}_{-73}	χ_{CMB}^2	$2776.9 (\nu: 17.2)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2788.38; R - 1 = 0.01060$$

18.11 base_w_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02243^{+0.00039}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.123^{+0.022}_{-0.031}$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0064}_{-0.0066}$
$\Omega_{\mathrm{c}}h^2$	$0.1192^{+0.0031}_{-0.0029}$	σ_8	$0.96^{+0.12}_{-0.18}$	$H(0.15)$	$82.9^{+7.4}_{-12}$
$100\theta_{\mathrm{MC}}$	$1.04100^{+0.00081}_{-0.00081}$	S_8	$0.771^{+0.079}_{-0.058}$	$D_{\mathrm{M}}(0.15)$	537^{+100}_{-60}
τ	$0.054^{+0.017}_{-0.012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.422^{+0.043}_{-0.032}$	$H(0.38)$	$84.8^{+1.6}_{-3.0}$
w_0	$-1.56^{+0.66}_{-0.44}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.637^{+0.029}_{-0.042}$	$D_{\mathrm{M}}(0.38)$	1367^{+200}_{-100}
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.037}_{-0.025}$	$\sigma_8/h^{0.5}$	$1.037^{+0.045}_{-0.068}$	$H(0.51)$	$88.7^{+1.6}_{-2.2}$
n_{s}	$0.967^{+0.010}_{-0.011}$	$r_{\mathrm{drag}}h$	127^{+20}_{-30}	$D_{\mathrm{M}}(0.51)$	1817^{+200}_{-100}
y_{cal}	$1.0002^{+0.0067}_{-0.0063}$	$\langle d^2 \rangle^{1/2}$	$2.487^{+0.063}_{-0.075}$	$H(0.61)$	$92.8^{+2.8}_{-2.7}$
A_{217}^{CIB}	46^{+20}_{-20}	z_{re}	< 9.15	$D_{\mathrm{M}}(0.61)$	2148^{+200}_{-100}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.093^{+0.079}_{-0.052}$	$H(2.33)$	$231.5^{+6.8}_{-3.4}$
A_{143}^{tSZ}	> 0.904	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.027}_{-0.026}$	$D_{\mathrm{M}}(2.33)$	5731^{+57}_{-32}
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1223^{+32}_{-28}	$f\sigma_8(0.15)$	$0.483^{+0.032}_{-0.035}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5733^{+97}_{-98}	$\sigma_8(0.15)$	$0.90^{+0.12}_{-0.18}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2536^{+35}_{-34}	$f\sigma_8(0.38)$	$0.568^{+0.085}_{-0.11}$
A_{217}^{PS}	115^{+20}_{-30}	D_{1420}	817^{+13}_{-12}	$\sigma_8(0.38)$	$0.81^{+0.11}_{-0.17}$
A^{kSZ}	—	D_{2000}	$231.0^{+4.1}_{-4.1}$	$f\sigma_8(0.51)$	$0.586^{+0.098}_{-0.13}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.7}_{-4.9}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	$0.75^{+0.10}_{-0.16}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.4}_{-4.6}$	Y_{P}	$0.24542^{+0.00015}_{-0.00015}$	$f\sigma_8(0.61)$	$0.59^{+0.10}_{-0.14}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.2}_{-8.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00015}_{-0.00015}$	$\sigma_8(0.61)$	$0.716^{+0.096}_{-0.15}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.574^{+0.071}_{-0.069}$	$f\sigma_8(2.33)$	$0.359^{+0.045}_{-0.073}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.096}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.54^{+0.32}_{-0.17}$	$\sigma_8(2.33)$	$0.362^{+0.042}_{-0.066}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.074}_{-0.073}$	z_*	$1089.78^{+0.66}_{-0.65}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.58^{+0.62}_{-0.68}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-4}
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.04118^{+0.00080}_{-0.00080}$	f_{2000}^{217}	$106.7^{+4.6}_{-4.4}$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.059}_{-0.064}$	$\chi_{\mathrm{lensing}}^2$	$9.0 (\nu: 0.6)$
$A_{217}^{\mathrm{dustTE}}$	$2.07^{+0.70}_{-0.71}$	z_{drag}	$1060.03^{+0.82}_{-0.74}$	χ_{simall}^2	$1339 (\nu: 480033.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.22^{+0.63}_{-0.69}$	χ_{lowl}^2	$22.58 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0017}_{-0.0017}$	k_{D}	$0.14077^{+0.00076}_{-0.00074}$	χ_{plik}^2	$1416 (\nu: 480047.8)$
H_0	> 64.9	$100\theta_{\mathrm{D}}$	$0.16071^{+0.00043}_{-0.00046}$	χ_{prior}^2	$11.6 (\nu: 10.1)$
Ω_{Λ}	$0.802^{+0.061}_{-0.14}$	z_{eq}	3385^{+69}_{-64}	χ_{CMB}^2	$2785.8 (\nu: 17.6)$
Ω_{m}	$0.198^{+0.14}_{-0.061}$	k_{eq}	$0.01033^{+0.00021}_{-0.00020}$		
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0029}_{-0.0027}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.013}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2797.43; R - 1 = 0.01516$$

18.12 base_w_plikHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02236^{+0.00039}_{-0.00035}$	$\Omega_m h^3$	$0.1055^{+0.0064}_{-0.0064}$	$100\theta_{s,eq}$	$0.4490^{+0.0085}_{-0.0077}$
$\Omega_c h^2$	$0.1202^{+0.0035}_{-0.0040}$	σ_8	$0.872^{+0.048}_{-0.048}$	$H(0.15)$	$76.4^{+2.4}_{-2.5}$
$100\theta_{MC}$	$1.04092^{+0.00082}_{-0.00078}$	S_8	$0.817^{+0.042}_{-0.034}$	$D_M(0.15)$	601^{+27}_{-25}
τ	$0.055^{+0.019}_{-0.015}$	$\sigma_8 \Omega_m^{0.5}$	$0.448^{+0.023}_{-0.019}$	$H(0.38)$	$83.8^{+1.1}_{-1.1}$
w_0	$-1.21^{+0.15}_{-0.15}$	$\sigma_8 \Omega_m^{0.25}$	$0.625^{+0.026}_{-0.027}$	$D_M(0.38)$	1466^{+45}_{-41}
$\ln(10^{10} A_s)$	$3.047^{+0.039}_{-0.029}$	$\sigma_8/h^{0.5}$	$1.015^{+0.038}_{-0.039}$	$H(0.51)$	$89.5^{+1.1}_{-1.0}$
n_s	$0.965^{+0.011}_{-0.012}$	$r_{drag} h$	$108.4^{+6.3}_{-6.2}$	$D_M(0.51)$	1916^{+46}_{-43}
y_{cal}	$1.0006^{+0.0069}_{-0.0057}$	$\langle d^2 \rangle^{1/2}$	$2.479^{+0.074}_{-0.071}$	$H(0.61)$	$94.5^{+1.1}_{-1.0}$
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.46	$D_M(0.61)$	2242^{+47}_{-43}
$\xi^{tSZ \times CIB}$	—	$10^9 A_s$	$2.105^{+0.081}_{-0.065}$	$H(2.33)$	$234.1^{+2.4}_{-2.1}$
A_{143}^{tSZ}	> 0.900	$10^9 A_s e^{-2\tau}$	$1.884^{+0.029}_{-0.028}$	$D_M(2.33)$	5748^{+27}_{-28}
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1231^{+33}_{-29}	$f\sigma_8(0.15)$	$0.473^{+0.026}_{-0.025}$
A_{143}^{PS}	46^{+20}_{-20}	D_{220}	5733^{+93}_{-91}	$\sigma_8(0.15)$	$0.809^{+0.046}_{-0.046}$
$A_{143 \times 217}^{PS}$	43^{+20}_{-20}	D_{810}	2539^{+36}_{-30}	$f\sigma_8(0.38)$	$0.513^{+0.036}_{-0.035}$
A_{217}^{PS}	116^{+30}_{-30}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.719^{+0.040}_{-0.041}$
A^{kSZ}	—	D_{2000}	$231.0^{+3.9}_{-4.3}$	$f\sigma_8(0.51)$	$0.518^{+0.038}_{-0.039}$
A_{100}^{dustTT}	$9.0^{+4.2}_{-4.7}$	$n_{s,0.002}$	$0.965^{+0.011}_{-0.012}$	$\sigma_8(0.51)$	$0.673^{+0.037}_{-0.038}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.7}$	Y_P	$0.24539^{+0.00015}_{-0.00014}$	$f\sigma_8(0.61)$	$0.515^{+0.038}_{-0.038}$
$A_{143 \times 217}^{dustTT}$	$18.7^{+8.1}_{-8.6}$	Y_P^{BBN}	$0.24672^{+0.00015}_{-0.00014}$	$\sigma_8(0.61)$	$0.640^{+0.035}_{-0.035}$
A_{217}^{dustTT}	94^{+20}_{-20}	$10^5 D/H$	$2.587^{+0.066}_{-0.070}$	$f\sigma_8(2.33)$	$0.323^{+0.017}_{-0.017}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.088}$	Age/Gyr	$13.685^{+0.084}_{-0.079}$	$\sigma_8(2.33)$	$0.328^{+0.015}_{-0.015}$
$A_{100 \times 143}^{dustTE}$	$0.134^{+0.071}_{-0.074}$	z_*	$1089.95^{+0.65}_{-0.83}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.23}_{-0.23}$	r_*	$144.38^{+0.81}_{-0.80}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-4}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.15}$	$100\theta_*$	$1.04110^{+0.00081}_{-0.00077}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.4}$
$A_{143 \times 217}^{dustTE}$	$0.66^{+0.21}_{-0.20}$	$D_M(z_*)/\text{Gpc}$	$13.868^{+0.071}_{-0.073}$	χ_{simall}^2	$1305 (\nu: 478113.6)$
A_{217}^{dustTE}	$2.08^{+0.66}_{-0.66}$	z_{drag}	$1059.94^{+0.80}_{-0.73}$	χ_{lowl}^2	$23.28 (\nu: 0.4)$
c_{100}	$0.9997^{+0.0017}_{-0.0016}$	r_{drag}	$147.05^{+0.72}_{-0.77}$	χ_{plik}^2	$1450 (\nu: 478081.3)$
c_{217}	$0.9982^{+0.0017}_{-0.0015}$	k_D	$0.14091^{+0.00097}_{-0.00083}$	$\chi_{H073p45}^2$	$0.97 (\nu: 1.0)$
H_0	$73.7^{+4.2}_{-4.2}$	$100\theta_D$	$0.16076^{+0.00042}_{-0.00042}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_Λ	$0.736^{+0.029}_{-0.033}$	z_{eq}	3407^{+83}_{-86}	χ_{CMB}^2	$2778.4 (\nu: 18.1)$
Ω_m	$0.264^{+0.033}_{-0.029}$	k_{eq}	$0.01040^{+0.00025}_{-0.00026}$		
$\Omega_m h^2$	$0.1432^{+0.0035}_{-0.0036}$	$100\theta_{eq}$	$0.812^{+0.017}_{-0.015}$		

$$\bar{\chi}_{\text{eff}}^2 = 2791.00; R - 1 = 0.07585$$

18.13 base_w_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02217^{+0.00058}_{-0.00055}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4063	$0.430^{+0.054}_{-0.040}$ (−0.0 σ)	$H(0.15)$	88.7	$81.6^{+8.5}_{-14}$ (−0.0 σ)
$\Omega_c h^2$	0.1200	$0.1202^{+0.0052}_{-0.0051}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.660	$0.641^{+0.047}_{-0.059}$ (−0.1 σ)	$D_M(0.15)$	481	548^{+200}_{-70} (+0.0 σ)
$100\theta_{MC}$	1.04096	$1.0409^{+0.0012}_{-0.0012}$ (+0.2 σ)	$\sigma_8/h^{0.5}$	1.073	$1.042^{+0.070}_{-0.095}$ (−0.1 σ)	$H(0.38)$	84.46	$84.1^{+2.5}_{-3.8}$ (+0.1 σ)
τ	0.0524	$0.052^{+0.022}_{-0.023}$ (+0.1 σ)	$r_{\text{drag}} h$	146.8	125^{+20}_{-40} (−0.0 σ)	$D_M(0.38)$	1288	1388^{+200}_{-100} (+0.0 σ)
w_0	−1.96	$−1.54^{+0.78}_{-0.54}$ (+0.1 σ)	$\langle d^2 \rangle^{1/2}$	2.520	$2.50^{+0.11}_{-0.13}$ (−0.1 σ)	$H(0.51)$	86.77	$88.2^{+2.1}_{-3.0}$ (+0.1 σ)
$\ln(10^{10} A_s)$	3.0381	$3.039^{+0.043}_{-0.045}$ (−0.0 σ)	z_{re}	7.45	$7.5^{+2.1}_{-2.5}$ (+0.1 σ)	$D_M(0.51)$	1744	1841^{+300}_{-100} (+0.0 σ)
n_s	0.9653	$0.964^{+0.014}_{-0.014}$ (+0.2 σ)	$10^9 A_s$	2.087	$2.088^{+0.092}_{-0.093}$ (−0.0 σ)	$H(0.61)$	90.19	$92.5^{+3.2}_{-3.4}$ (+0.1 σ)
y_{cal}	1.0001	$1.0004^{+0.0062}_{-0.0063}$ (+0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8790	$1.881^{+0.034}_{-0.034}$ (−0.2 σ)	$D_M(0.61)$	2083	2173^{+200}_{-100} (+0.0 σ)
A_{100}^{PS}	235	241^{+60}_{-70} (−0.7 σ)	D_{40}	1221.3	1226^{+40}_{-38} (−0.3 σ)	$H(2.33)$	230.3	$232^{+10}_{-4.6}$ (−0.0 σ)
A_{143}^{PS}	42.9	40^{+20}_{-20} (−1.0 σ)	D_{220}	5707	5707^{+100}_{-110} (−0.2 σ)	$D_M(2.33)$	5736	5748^{+85}_{-50} (−0.1 σ)
A_{217}^{PS}	101.3	102^{+30}_{-40} (−1.3 σ)	D_{810}	2532.2	2533^{+35}_{-35} (−0.2 σ)	$f\sigma_8(0.15)$	0.508	$0.489^{+0.055}_{-0.050}$ (−0.1 σ)
A_{217}^{CIB}	45.1	40^{+20}_{-20} (−1.1 σ)	D_{1420}	814.0	814^{+13}_{-13} (−0.0 σ)	$\sigma_8(0.15)$	1.010	$0.90^{+0.15}_{-0.22}$ (−0.1 σ)
A_{143}^{tSZ}	6.50	< 8.78 (−0.7 σ)	D_{2000}	229.96	$229.7^{+4.6}_{-4.7}$ (+0.0 σ)	$f\sigma_8(0.38)$	0.644	$0.57^{+0.11}_{-0.13}$ (−0.1 σ)
$r_{143 \times 217}^{\text{PS}}$	0.610	$0.65^{+0.31}_{-0.33}$	$n_{s,0.002}$	0.9653	$0.964^{+0.014}_{-0.014}$ (+0.2 σ)	$\sigma_8(0.38)$	0.904	$0.80^{+0.13}_{-0.20}$ (−0.1 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.84	—	Y_P	0.245335	$0.24531^{+0.00023}_{-0.00026}$ (+0.1 σ)	$f\sigma_8(0.51)$	0.675	$0.59^{+0.12}_{-0.16}$ (−0.1 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.24	—	Y_P^{BBN}	0.246661	$0.24664^{+0.00023}_{-0.00026}$ (+0.1 σ)	$\sigma_8(0.51)$	0.845	$0.75^{+0.12}_{-0.19}$ (−0.1 σ)
A^{kSZ}	0.1	—	$10^5 \text{D}/\text{H}$	2.614	$2.62^{+0.11}_{-0.11}$ (−0.1 σ)	$f\sigma_8(0.61)$	0.681	$0.59^{+0.12}_{-0.17}$ (−0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.49}_{-0.51}$	Age/Gyr	13.449	$13.59^{+0.42}_{-0.21}$ (+0.0 σ)	$\sigma_8(0.61)$	0.802	$0.71^{+0.11}_{-0.18}$ (−0.1 σ)
A_{143}^{dust}	0.991	$0.97^{+0.45}_{-0.45}$	z_*	1090.11	$1090.2^{+1.0}_{-1.0}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.399	$0.356^{+0.053}_{-0.088}$ (−0.0 σ)
A_{217}^{dust}	0.967	$0.97^{+0.27}_{-0.26}$	r_*	144.55	$144.5^{+1.2}_{-1.2}$ (+0.1 σ)	$\sigma_8(2.33)$	0.400	$0.359^{+0.049}_{-0.078}$ (−0.0 σ)
$A_{143 \times 217}^{\text{dust}}$	0.993	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	1.04116	$1.0411^{+0.0012}_{-0.0012}$ (+0.2 σ)	f_{2000}^{143}	30.5	30^{+8}_{-8} (−0.1 σ)
c_{100}	0.99763	$0.9975^{+0.0027}_{-0.0027}$ (−3.4 σ)	$D_M(z_*)/\text{Gpc}$	13.884	$13.88^{+0.11}_{-0.11}$ (+0.1 σ)	f_{2000}^{217}	107.0	$107.3^{+5.2}_{-5.1}$ (−0.3 σ)
c_{217}	1.00138	$1.0011^{+0.0041}_{-0.0040}$ (+4.6 σ)	z_{drag}	1059.59	$1059.5^{+1.2}_{-1.2}$ (+0.1 σ)	$f_{2000}^{143 \times 217}$	32.4	33^{+6}_{-6} (−0.3 σ)
H_0	99.7	> 60.7 (−0.0 σ)	r_{drag}	147.26	$147.3^{+1.2}_{-1.2}$ (+0.1 σ)	χ_{small}^2	395.72	$396.9 (\nu: 1.4)$ (+0.1 σ)
Ω_Λ	0.856	$0.790^{+0.073}_{-0.18}$ (−0.0 σ)	k_D	0.14057	$0.1405^{+0.0013}_{-0.0013}$ (−0.0 σ)	χ_{lowl}^2	22.46	$23.0 (\nu: 0.6)$ (−0.2 σ)
Ω_m	0.144	$0.210^{+0.18}_{-0.073}$ (+0.0 σ)	$100\theta_D$	0.16097	$0.16103^{+0.00069}_{-0.00067}$ (−0.0 σ)	χ_{CamSpec}^2	7048.6	$7062.0 (\nu: 14.0)$
$\Omega_m h^2$	0.14284	$0.1431^{+0.0050}_{-0.0049}$ (−0.1 σ)	z_{eq}	3398	3403^{+120}_{-120} (−0.1 σ)	χ_{prior}^2	2.0	$7.6 (\nu: 5.8)$ (+0.1 σ)
$\Omega_m h^3$	0.1424	$0.121^{+0.025}_{-0.035}$ (−0.1 σ)	k_{eq}	0.010371	$0.01039^{+0.00036}_{-0.00035}$ (−0.1 σ)	χ_{CMB}^2	7466.8	$7481.8 (\nu: 15.0)$ (+1113.1 σ)
σ_8	1.072	$0.96^{+0.15}_{-0.22}$ (−0.1 σ)	$100\theta_{\text{eq}}$	0.8137	$0.813^{+0.022}_{-0.022}$ (+0.1 σ)			
S_8	0.742	$0.786^{+0.098}_{-0.073}$ (−0.0 σ)	$100\theta_{s,\text{eq}}$	0.4497	$0.449^{+0.011}_{-0.011}$ (+0.1 σ)			

Best-fit $\chi_{\text{eff}}^2 = 7468.79$; $\Delta\chi_{\text{eff}}^2 = 6292.49$; $\bar{\chi}_{\text{eff}}^2 = 7489.40$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6292.20$; $R - 1 = 0.00889$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.72 (Δ -0.01) commander_dx12.v3.2.29: 22.46 (Δ -0.18) CamSpec like_10.7HM: 7048.57

18.14 base_w_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02222^{+0.00055}_{-0.00055} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.424^{+0.051}_{-0.035} \quad (+0.0\sigma)$	$H(0.15)$	$82.2^{+8.2}_{-13} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1193^{+0.0043}_{-0.0040} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.635^{+0.034}_{-0.043} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$544^{+100}_{-70} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.034^{+0.051}_{-0.070} \quad (+0.0\sigma)$	$H(0.38)$	$84.5^{+2.1}_{-3.6} \quad (+0.0\sigma)$
τ	$0.052^{+0.022}_{-0.022} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$126^{+20}_{-30} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1378^{+200}_{-100} \quad (+0.0\sigma)$
w_0	$-1.53^{+0.71}_{-0.49} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.481^{+0.072}_{-0.081} \quad (-0.0\sigma)$	$H(0.51)$	$88.5^{+1.8}_{-2.5} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.035^{+0.041}_{-0.043} \quad (+0.1\sigma)$	z_{re}	$7.4^{+2.1}_{-2.5} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1829^{+200}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.013}_{-0.013} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.081^{+0.086}_{-0.087} \quad (+0.1\sigma)$	$H(0.61)$	$92.7^{+2.9}_{-3.1} \quad (+0.0\sigma)$
y_{cal}	$1.0003^{+0.0061}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.030}_{-0.030} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2161^{+230}_{-120} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1221^{+35}_{-33} \quad (-0.2\sigma)$	$H(2.33)$	$231.5^{+9.1}_{-4.0} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5709^{+100}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5742^{+77}_{-46} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2531^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.482^{+0.039}_{-0.035} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.89^{+0.13}_{-0.19} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.84 \quad (-0.7\sigma)$	D_{2000}	$229.7^{+4.7}_{-4.8} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.563^{+0.090}_{-0.11} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.013}_{-0.013} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.12}_{-0.18} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24533^{+0.00021}_{-0.00026} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.58^{+0.11}_{-0.14} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00021}_{-0.00026} \quad (+0.0\sigma)$	$\sigma_8(0.51)$	$0.75^{+0.11}_{-0.17} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.58^{+0.11}_{-0.15} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.02^{+0.50}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.57^{+0.38}_{-0.20} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.71^{+0.10}_{-0.16} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.45}$	z_*	$1090.05^{+0.94}_{-0.91} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.356^{+0.049}_{-0.079} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.73^{+0.94}_{-0.96} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.359^{+0.046}_{-0.070} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.089}_{-0.089} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.3^{+5.5}_{-5.3} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.5^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$> 62.6 \quad (-0.0\sigma)$	r_{drag}	$147.45^{+0.99}_{-0.98} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.0 \quad (\nu: 0.6) \quad (-0.1\sigma)$
Ω_{Λ}	$0.796^{+0.069}_{-0.16} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0011} \quad (+0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.1) \quad (+0.1\sigma)$
Ω_{m}	$0.204^{+0.16}_{-0.069} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00069}_{-0.00066} \quad (-0.0\sigma)$	χ_{lowl}^2	$22.56 \quad (\nu: 0.4) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0040}_{-0.0037} \quad (-0.0\sigma)$	z_{eq}	$3382^{+97}_{-89} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.1 \quad (\nu: 13.2)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.023}_{-0.032} \quad (-0.0\sigma)$	k_{eq}	$0.01032^{+0.00029}_{-0.00027} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.95^{+0.13}_{-0.19} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.017}_{-0.018} \quad (+0.0\sigma)$	χ_{CMB}^2	$7490.4 \quad (\nu: 14.9) \quad (+1122.7\sigma)$
S_8	$0.774^{+0.094}_{-0.063} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0089}_{-0.0092} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7497.94$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.96$; $R - 1 = 0.01572$

18.15 base_w_CamSpecHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00058}_{-0.00055} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.431^{+0.054}_{-0.040} \quad (-0.0\sigma)$	$H(0.15)$	$81.6^{+8.6}_{-14} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0052}_{-0.0051} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.641^{+0.047}_{-0.060} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$548^{+200}_{-80} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.043^{+0.069}_{-0.095} \quad (-0.1\sigma)$	$H(0.38)$	$84.1^{+2.5}_{-3.9} \quad (+0.1\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$124^{+20}_{-40} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1388^{+200}_{-100} \quad (+0.0\sigma)$
w_0	$-1.53^{+0.78}_{-0.54} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.50^{+0.11}_{-0.13} \quad (-0.2\sigma)$	$H(0.51)$	$88.3^{+2.1}_{-2.9} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.040}_{-0.030} \quad (-0.0\sigma)$	z_{re}	$< 9.39 \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1841^{+300}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.965^{+0.014}_{-0.014} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.086}_{-0.063} \quad (-0.0\sigma)$	$H(0.61)$	$92.6^{+3.2}_{-3.4} \quad (+0.1\sigma)$
y_{cal}	$1.0004^{+0.0062}_{-0.0063} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.033}_{-0.034} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2173^{+200}_{-100} \quad (+0.0\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.8\sigma)$	D_{40}	$1225^{+39}_{-38} \quad (-0.3\sigma)$	$H(2.33)$	$232^{+10}_{-4.6} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+100}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5748^{+86}_{-50} \quad (-0.1\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2533^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.489^{+0.055}_{-0.050} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.0\sigma)$	$\sigma_8(0.15)$	$0.90^{+0.15}_{-0.22} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.7\sigma)$	D_{2000}	$229.8^{+4.6}_{-4.7} \quad (+0.0\sigma)$	$f\sigma_8(0.38)$	$0.57^{+0.11}_{-0.13} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.965^{+0.014}_{-0.014} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.13}_{-0.20} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24531^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.59^{+0.12}_{-0.16} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00023}_{-0.00026} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.75^{+0.12}_{-0.19} \quad (-0.1\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.59^{+0.12}_{-0.17} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.59^{+0.42}_{-0.21} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.71^{+0.11}_{-0.18} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	z_*	$1090.2^{+1.0}_{-1.0} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.356^{+0.053}_{-0.088} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.359^{+0.050}_{-0.078} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.43}_{-0.41}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.11}_{-0.11} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.3}_{-5.2} \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.6\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$> 60.7 \quad (-0.1\sigma)$	r_{drag}	$147.3^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (+0.1\sigma)$
Ω_{Λ}	$0.790^{+0.074}_{-0.18} \quad (-0.0\sigma)$	k_{D}	$0.1405^{+0.0013}_{-0.0013} \quad (-0.1\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 0.6) \quad (-0.3\sigma)$
Ω_{m}	$0.210^{+0.18}_{-0.074} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00069}_{-0.00067} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7061.9 \quad (\nu: 14.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1430^{+0.0049}_{-0.0048} \quad (-0.1\sigma)$	z_{eq}	$3401^{+120}_{-110} \quad (-0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.7) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.025}_{-0.035} \quad (-0.1\sigma)$	k_{eq}	$0.01038^{+0.00036}_{-0.00035} \quad (-0.1\sigma)$	χ_{CMB}^2	$7481.6 \quad (\nu: 14.7) \quad (+1130.9\sigma)$
σ_8	$0.96^{+0.15}_{-0.22} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.022}_{-0.021} \quad (+0.1\sigma)$		
S_8	$0.787^{+0.099}_{-0.073} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.011}_{-0.011} \quad (+0.1\sigma)$		

 $\bar{\chi}_{\mathrm{eff}}^2 = 7489.13; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.25; R - 1 = 0.01149$

18.16 base_w_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00055}_{-0.00055} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.424^{+0.051}_{-0.035} \quad (+0.0\sigma)$	$H(0.15)$	$82.2^{+8.3}_{-13} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0042}_{-0.0038} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.635^{+0.034}_{-0.043} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$544^{+100}_{-70} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.034^{+0.052}_{-0.071} \quad (-0.0\sigma)$	$H(0.38)$	$84.5^{+2.1}_{-3.7} \quad (+0.0\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$125^{+20}_{-30} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1379^{+200}_{-100} \quad (+0.0\sigma)$
w_0	$-1.52^{+0.70}_{-0.49} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.482^{+0.071}_{-0.081} \quad (-0.1\sigma)$	$H(0.51)$	$88.6^{+1.7}_{-2.4} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.038}_{-0.026} \quad (+0.0\sigma)$	z_{re}	$< 9.28 \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1830^{+200}_{-100} \quad (+0.0\sigma)$
n_{s}	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.088^{+0.081}_{-0.055} \quad (+0.0\sigma)$	$H(0.61)$	$92.8^{+2.9}_{-3.0} \quad (+0.0\sigma)$
y_{cal}	$1.0003^{+0.0060}_{-0.0065} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.029}_{-0.030} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2161^{+230}_{-120} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1220^{+34}_{-32} \quad (-0.2\sigma)$	$H(2.33)$	$231.5^{+9.2}_{-3.9} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5709^{+100}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5740^{+79}_{-45} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2531^{+33}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.481^{+0.038}_{-0.035} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.15)$	$0.89^{+0.13}_{-0.19} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.7\sigma)$	D_{2000}	$229.8^{+4.7}_{-4.7} \quad (-0.0\sigma)$	$f\sigma_8(0.38)$	$0.562^{+0.090}_{-0.11} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.12}_{-0.18} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24534^{+0.00021}_{-0.00026} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.58^{+0.11}_{-0.14} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00022}_{-0.00026} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.75^{+0.11}_{-0.17} \quad (-0.0\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.61^{+0.11}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(0.61)$	$0.58^{+0.11}_{-0.14} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.57^{+0.38}_{-0.20} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.71^{+0.10}_{-0.16} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.98^{+0.47}_{-0.45}$	z_*	$1090.02^{+0.93}_{-0.89} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.355^{+0.049}_{-0.079} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.76^{+0.92}_{-0.93} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.359^{+0.046}_{-0.070} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.40}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.087}_{-0.087} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.2^{+5.5}_{-5.3} \quad (-0.3\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.5\sigma)$	z_{drag}	$1059.6^{+1.1}_{-1.2} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-6} \quad (-0.3\sigma)$
H_0	$> 62.5 \quad (-0.0\sigma)$	r_{drag}	$147.48^{+0.98}_{-0.96} \quad (-0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.0 \quad (\nu: 0.6) \quad (-0.1\sigma)$
Ω_{Λ}	$0.795^{+0.070}_{-0.16} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0011}_{-0.0011} \quad (+0.0\sigma)$	χ_{small}^2	$396.6 \quad (\nu: 1.0) \quad (+0.2\sigma)$
Ω_{m}	$0.205^{+0.16}_{-0.070} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00068}_{-0.00066} \quad (-0.0\sigma)$	χ_{lowl}^2	$22.52 \quad (\nu: 0.4) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0039}_{-0.0036} \quad (-0.0\sigma)$	z_{eq}	$3378^{+93}_{-87} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.0 \quad (\nu: 13.3)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.024}_{-0.032} \quad (-0.0\sigma)$	k_{eq}	$0.01031^{+0.00028}_{-0.00027} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.95^{+0.13}_{-0.19} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.017}_{-0.018} \quad (+0.0\sigma)$	χ_{CMB}^2	$7490.1 \quad (\nu: 14.6) \quad (+1136.8\sigma)$
S_8	$0.775^{+0.094}_{-0.064} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0087}_{-0.0090} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7497.68; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.01; R - 1 = 0.02078$$

18.17 base_w_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022361	$0.02233^{+0.00040}_{-0.00040}$ (-0.4σ)	σ_8	1.060	$0.95^{+0.14}_{-0.21}$ (-0.3σ)	$100\theta_{\text{eq}}$	0.8166	$0.816^{+0.015}_{-0.014}$ $(+0.4\sigma)$
$\Omega_c h^2$	0.11924	$0.1194^{+0.0034}_{-0.0035}$ (-0.4σ)	S_8	0.737	$0.776^{+0.081}_{-0.062}$ (-0.1σ)	$100\theta_{\text{s,eq}}$	0.4511	$0.4508^{+0.0079}_{-0.0074}$ $(+0.4\sigma)$
$100\theta_{\text{MC}}$	1.04093	$1.04091^{+0.00079}_{-0.00080}$ (-0.1σ)	$\sigma_8 \Omega_m^{0.5}$	0.4035	$0.425^{+0.044}_{-0.034}$ (-0.1σ)	$H(0.15)$	88.8	$82.1^{+8.2}_{-13}$ (-0.2σ)
τ	0.0528	$0.052^{+0.020}_{-0.022}$ (-0.2σ)	$\sigma_8 \Omega_m^{0.25}$	0.6540	$0.635^{+0.037}_{-0.056}$ (-0.5σ)	$D_{\text{M}}(0.15)$	482	546^{+100}_{-70} $(+0.2\sigma)$
w_0	-1.92	$-1.52^{+0.74}_{-0.49}$ $(+0.2\sigma)$	$\sigma_8/h^{0.5}$	1.065	$1.034^{+0.057}_{-0.089}$ (-0.4σ)	$H(0.38)$	84.89	$84.5^{+1.9}_{-3.7}$ (-0.0σ)
$\ln(10^{10} A_s)$	3.0380	$3.037^{+0.040}_{-0.047}$ (-0.4σ)	$r_{\text{drag}} h$	146.0	125^{+20}_{-30} (-0.2σ)	$D_{\text{M}}(0.38)$	1286	1381^{+200}_{-100} $(+0.2\sigma)$
n_s	0.9676	$0.967^{+0.011}_{-0.011}$ $(+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.507	$2.481^{+0.087}_{-0.12}$ (-0.6σ)	$H(0.51)$	87.21	$88.6^{+1.7}_{-2.3}$ $(+0.2\sigma)$
y_{cal}	1.0002	$1.0003^{+0.0064}_{-0.0062}$ (-0.1σ)	z_{re}	7.45	$7.4^{+2.0}_{-2.5}$ (-0.2σ)	$D_{\text{M}}(0.51)$	1740	1832^{+200}_{-100} $(+0.2\sigma)$
A_{100}^{PS}	230	238^{+60}_{-60} (-0.7σ)	$10^9 A_s$	2.086	$2.085^{+0.085}_{-0.095}$ (-0.4σ)	$H(0.61)$	90.60	$92.8^{+3.0}_{-2.9}$ $(+0.2\sigma)$
A_{143}^{PS}	43.8	39^{+20}_{-20} (-0.9σ)	$10^9 A_s e^{-2\tau}$	1.8772	$1.877^{+0.030}_{-0.030}$ (-0.5σ)	$D_{\text{M}}(0.61)$	2078	2163^{+240}_{-120} $(+0.2\sigma)$
A_{217}^{PS}	105.9	103^{+30}_{-30} (-1.3σ)	D_{40}	1217.6	1221^{+33}_{-33} (-0.5σ)	$H(2.33)$	230.0	$231.8^{+9.9}_{-3.7}$ (-0.0σ)
A_{217}^{CIB}	40.9	39^{+20}_{-20} (-1.1σ)	D_{220}	5719	5719^{+99}_{-98} (-0.4σ)	$D_{\text{M}}(2.33)$	5728	5739^{+76}_{-38} $(+0.2\sigma)$
A_{143}^{tSZ}	6.01	< 8.91 (-0.8σ)	D_{810}	2534.2	2534^{+35}_{-34} (-0.4σ)	$f\sigma_8(0.15)$	0.5003	$0.482^{+0.039}_{-0.044}$ (-0.4σ)
$r_{143 \times 217}^{\text{PS}}$	0.718	$0.66^{+0.30}_{-0.33}$	D_{1420}	815.9	815^{+12}_{-12} (-0.3σ)	$\sigma_8(0.15)$	0.999	$0.89^{+0.14}_{-0.21}$ (-0.3σ)
$r_{143 \times 217}^{\text{CIB}}$	0.69	—	D_{2000}	230.76	$230.4^{+4.1}_{-4.0}$ (-0.4σ)	$f\sigma_8(0.38)$	0.632	$0.562^{+0.093}_{-0.13}$ (-0.3σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.53	—	$n_{\text{s},0.002}$	0.9676	$0.967^{+0.011}_{-0.011}$ $(+0.3\sigma)$	$\sigma_8(0.38)$	0.895	$0.80^{+0.13}_{-0.19}$ (-0.3σ)
A^{kSZ}	0.8	—	Y_{P}	0.245392	$0.24538^{+0.00015}_{-0.00017}$ (-0.4σ)	$f\sigma_8(0.51)$	0.663	$0.58^{+0.11}_{-0.15}$ (-0.3σ)
A_{100}^{dust}	1.00	$1.01^{+0.50}_{-0.51}$	$Y_{\text{P}}^{\text{BBN}}$	0.246719	$0.24670^{+0.00015}_{-0.00017}$ (-0.4σ)	$\sigma_8(0.51)$	0.837	$0.74^{+0.12}_{-0.18}$ (-0.3σ)
A_{143}^{dust}	0.943	$0.96^{+0.46}_{-0.45}$	$10^5 \text{D}/\text{H}$	2.587	$2.593^{+0.076}_{-0.073}$ $(+0.4\sigma)$	$f\sigma_8(0.61)$	0.670	$0.58^{+0.12}_{-0.16}$ (-0.3σ)
A_{217}^{dust}	0.977	$0.98^{+0.27}_{-0.27}$	Age/Gyr	13.437	$13.57^{+0.39}_{-0.19}$ $(+0.3\sigma)$	$\sigma_8(0.61)$	0.794	$0.71^{+0.11}_{-0.17}$ (-0.3σ)
$A_{143 \times 217}^{\text{dust}}$	1.037	$1.03^{+0.42}_{-0.41}$	z_*	1089.86	$1089.92^{+0.70}_{-0.71}$ $(+0.1\sigma)$	$f\sigma_8(2.33)$	0.396	$0.355^{+0.051}_{-0.085}$ (-0.3σ)
c_{100}	0.99782	$0.9975^{+0.0027}_{-0.0027}$ (-3.5σ)	r_*	144.63	$144.62^{+0.81}_{-0.77}$ $(+0.6\sigma)$	$\sigma_8(2.33)$	0.397	$0.358^{+0.048}_{-0.075}$ (-0.3σ)
c_{217}	1.00110	$1.0011^{+0.0042}_{-0.0040}$ $(+4.6\sigma)$	$100\theta_*$	1.04111	$1.04110^{+0.00079}_{-0.00078}$ (-0.1σ)	f_{2000}^{143}	28.9	29^{+8}_{-7} $(+0.1\sigma)$
c_{TE}	0.9959	$0.996^{+0.013}_{-0.013}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.892	$13.891^{+0.076}_{-0.072}$ $(+0.6\sigma)$	f_{2000}^{217}	105.98	$106.6^{+5.0}_{-4.9}$ (-0.1σ)
c_{EE}	0.9919	$0.992^{+0.013}_{-0.012}$	z_{drag}	1059.86	$1059.81^{+0.81}_{-0.90}$ (-0.6σ)	$f_{2000}^{143 \times 217}$	31.5	32^{+5}_{-5} (-0.0σ)
H_0	99.1	> 61.8 (-0.2σ)	r_{drag}	147.30	$147.29^{+0.81}_{-0.78}$ $(+0.7\sigma)$	χ_{simall}^2	395.73	$396.7 (\nu: 1.1)$ (-0.1σ)
Ω_{Λ}	0.855	$0.793^{+0.071}_{-0.17}$ (-0.2σ)	k_{D}	0.14064	$0.14062^{+0.00088}_{-0.00091}$ (-0.8σ)	χ_{lowl}^2	22.18	$22.57 (\nu: 0.3)$ (-0.4σ)
Ω_{m}	0.145	$0.207^{+0.17}_{-0.071}$ $(+0.2\sigma)$	$100\theta_{\text{D}}$	0.160796	$0.16083^{+0.00052}_{-0.00048}$ $(+0.6\sigma)$	χ_{CamSpec}^2	11498.2	$11513.3 (\nu: 15.6)$
$\Omega_{\text{m}} h^2$	0.14224	$0.1424^{+0.0033}_{-0.0034}$ (-0.5σ)	z_{eq}	3384	3387^{+79}_{-80} (-0.5σ)	χ_{prior}^2	1.9	$7.8 (\nu: 5.8)$ (-0.8σ)
$\Omega_{\text{m}} h^3$	0.1409	$0.121^{+0.024}_{-0.034}$ (-0.2σ)	k_{eq}	0.010328	$0.01034^{+0.00024}_{-0.00024}$ (-0.5σ)	χ_{CMB}^2	11916.1	$11932.6 (\nu: 16.5)$ $(+1543.0\sigma)$

Best-fit $\chi_{\text{eff}}^2 = 11918.08$; $\Delta\chi_{\text{eff}}^2 = 9156.71$; $\bar{\chi}_{\text{eff}}^2 = 11940.42$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9151.76$; $R - 1 = 0.01476$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.73 (Δ -0.12) commander_dx12.v3.2.29: 22.18 (Δ -0.27) CamSpec like_10.7HM.1400.unified: 11498.24

18.18 base_w_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02235^{+0.00040}_{-0.00041} \quad (-0.5\sigma)$	S_8	$0.770^{+0.079}_{-0.059} \quad (-0.0\sigma)$	$H(0.15)$	$82.6^{+7.7}_{-12} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0031}_{-0.0030} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.422^{+0.043}_{-0.032} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$541^{+100}_{-70} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00076}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.634^{+0.031}_{-0.042} \quad (-0.2\sigma)$	$H(0.38)$	$84.7^{+1.7}_{-3.0} \quad (-0.1\sigma)$
τ	$0.052^{+0.019}_{-0.022} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.032^{+0.047}_{-0.068} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1372^{+200}_{-100} \quad (+0.1\sigma)$
w_0	$-1.54^{+0.67}_{-0.45} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$126^{+20}_{-30} \quad (-0.1\sigma)$	$H(0.51)$	$88.7^{+1.6}_{-2.1} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.035^{+0.036}_{-0.041} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.476^{+0.066}_{-0.080} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1823^{+200}_{-100} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	z_{re}	$7.3^{+1.9}_{-2.4} \quad (-0.1\sigma)$	$H(0.61)$	$92.8^{+2.9}_{-2.8} \quad (+0.1\sigma)$
y_{cal}	$1.0002^{+0.0062}_{-0.0060} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.080^{+0.076}_{-0.084} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2154^{+210}_{-110} \quad (+0.1\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$H(2.33)$	$231.4^{+7.2}_{-3.7} \quad (-0.0\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1219^{+32}_{-30} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5735^{+57}_{-35} \quad (+0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5719^{+92}_{-96} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.480^{+0.032}_{-0.034} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2532^{+34}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.89^{+0.12}_{-0.18} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.8\sigma)$	D_{1420}	$815^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.563^{+0.086}_{-0.11} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.32}$	D_{2000}	$230.3^{+4.1}_{-3.9} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.11}_{-0.17} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.58^{+0.10}_{-0.13} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.75^{+0.11}_{-0.16} \quad (-0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00018} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.58^{+0.10}_{-0.14} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.48}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.590^{+0.079}_{-0.071} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.710^{+0.099}_{-0.15} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.56^{+0.33}_{-0.17} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.356^{+0.047}_{-0.075} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.87^{+0.68}_{-0.68} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.359^{+0.044}_{-0.066} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.40}$	r_*	$144.68^{+0.71}_{-0.71} \quad (+0.5\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04112^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.6^{+5.1}_{-4.9} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.897^{+0.067}_{-0.066} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.82^{+0.84}_{-0.92} \quad (-0.7\sigma)$	$\chi_{\mathrm{lensing}}^2$	$8.75 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.012}_{-0.012}$	r_{drag}	$147.36^{+0.73}_{-0.73} \quad (+0.6\sigma)$	χ_{small}^2	$396.6 \quad (\nu: 0.8) \quad (-0.9\sigma)$
H_0	$> 64.2 \quad (-0.1\sigma)$	k_{D}	$0.14057^{+0.00083}_{-0.00089} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.42 \quad (\nu: 0.3) \quad (-0.2\sigma)$
Ω_{Λ}	$0.799^{+0.066}_{-0.15} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16082^{+0.00053}_{-0.00048} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.1 \quad (\nu: 14.8)$
Ω_{m}	$0.201^{+0.15}_{-0.066} \quad (+0.1\sigma)$	z_{eq}	$3380^{+72}_{-68} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0030}_{-0.0028} \quad (-0.3\sigma)$	k_{eq}	$0.01032^{+0.00022}_{-0.00021} \quad (-0.3\sigma)$	χ_{CMB}^2	$11940.9 \quad (\nu: 16.6) \quad (+1522.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.122^{+0.022}_{-0.031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.013} \quad (+0.2\sigma)$		
σ_8	$0.95^{+0.12}_{-0.18} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0067}_{-0.0068} \quad (+0.3\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.65; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.93; R - 1 = 0.02333$$

18.19 base_w_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00035}_{-0.00041} \quad (-0.3\sigma)$	S_8	$0.809^{+0.039}_{-0.039} \quad (-0.4\sigma)$	$H(0.15)$	$76.4^{+2.5}_{-2.4} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0034}_{-0.0035} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.443^{+0.021}_{-0.021} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$601^{+27}_{-26} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00089}_{-0.00083} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.619^{+0.026}_{-0.027} \quad (-0.5\sigma)$	$H(0.38)$	$83.8^{+1.0}_{-1.0} \quad (+0.1\sigma)$
τ	$0.052^{+0.018}_{-0.024} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.007^{+0.038}_{-0.041} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1466^{+44}_{-42} \quad (+0.0\sigma)$
w_0	$-1.20^{+0.15}_{-0.14} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$108.3^{+6.4}_{-6.1} \quad (-0.0\sigma)$	$H(0.51)$	$89.56^{+0.90}_{-1.0} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.035}_{-0.042} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.460^{+0.075}_{-0.085} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1916^{+47}_{-45} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	z_{re}	$7.4^{+1.8}_{-2.6} \quad (-0.2\sigma)$	$H(0.61)$	$94.59^{+0.97}_{-1.1} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0068}_{-0.0060} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.086^{+0.074}_{-0.086} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2242^{+46}_{-45} \quad (+0.0\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.030}_{-0.034} \quad (-0.5\sigma)$	$H(2.33)$	$233.8^{+2.2}_{-2.2} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+30}_{-20} \quad (-0.9\sigma)$	D_{40}	$1225^{+29}_{-31} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5749^{+29}_{-24} \quad (+0.1\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5721^{+90}_{-96} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.467^{+0.025}_{-0.026} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2535^{+33}_{-32} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.802^{+0.046}_{-0.045} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.69 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-11} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.507^{+0.036}_{-0.034} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.32}$	D_{2000}	$230.4^{+4.0}_{-3.8} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.713^{+0.040}_{-0.040} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.512^{+0.037}_{-0.036} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00013}_{-0.00018} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.667^{+0.037}_{-0.037} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00013}_{-0.00018} \quad (-0.3\sigma)$	$f\sigma_8(0.61)$	$0.509^{+0.038}_{-0.036} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.00^{+0.43}_{-0.49}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.596^{+0.079}_{-0.064} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.634^{+0.035}_{-0.034} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.40}_{-0.43}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.693^{+0.087}_{-0.080} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.320^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.29}$	z_*	$1089.96^{+0.73}_{-0.61} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.326^{+0.015}_{-0.015} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.43}$	r_*	$144.57^{+0.85}_{-0.83} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0025}_{-0.0026} \quad (-3.4\sigma)$	$100\theta_*$	$1.04108^{+0.00087}_{-0.00082} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-5.2} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0038}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.081}_{-0.078} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.013}$	z_{drag}	$1059.78^{+0.72}_{-0.84} \quad (-0.5\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 0.9) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.011}_{-0.012}$	r_{drag}	$147.25^{+0.81}_{-0.84} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.85 \quad (\nu: 0.4) \quad (-0.4\sigma)$
H_0	$73.5^{+4.3}_{-4.1} \quad (-0.1\sigma)$	k_{D}	$0.14066^{+0.00098}_{-0.00099} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.7 \quad (\nu: 14.2)$
Ω_{Λ}	$0.736^{+0.030}_{-0.032} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00046}_{-0.00044} \quad (+0.5\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$1.0 \quad (\nu: 1.0) \quad (+0.0\sigma)$
Ω_{m}	$0.264^{+0.032}_{-0.030} \quad (-0.0\sigma)$	z_{eq}	$3392^{+81}_{-81} \quad (-0.5\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0034}_{-0.0034} \quad (-0.5\sigma)$	k_{eq}	$0.01035^{+0.00025}_{-0.00025} \quad (-0.5\sigma)$	χ_{CMB}^2	$11933.2 \quad (\nu: 15.1) \quad (+1514.5\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1049^{+0.0064}_{-0.0065} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.015} \quad (+0.5\sigma)$		
σ_8	$0.863^{+0.048}_{-0.048} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0080}_{-0.0076} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11941.94; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.61; R - 1 = 0.08175$$

18.20 base_w_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00040}_{-0.00040} \quad (-0.4\sigma)$	σ_8	$0.95^{+0.14}_{-0.21} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.015}_{-0.014} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1194^{+0.0034}_{-0.0035} \quad (-0.4\sigma)$	S_8	$0.777^{+0.081}_{-0.061} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0079}_{-0.0073} \quad (+0.4\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04092^{+0.00078}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.426^{+0.044}_{-0.034} \quad (-0.0\sigma)$	$H(0.15)$	$82.0^{+8.3}_{-14} \quad (-0.2\sigma)$
τ	$0.054^{+0.017}_{-0.012} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.636^{+0.037}_{-0.056} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$546^{+100}_{-70} \quad (+0.2\sigma)$
w_0	$-1.52^{+0.74}_{-0.49} \quad (+0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.035^{+0.056}_{-0.090} \quad (-0.4\sigma)$	$H(0.38)$	$84.5^{+1.9}_{-3.8} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.038}_{-0.028} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$125^{+20}_{-40} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1381^{+200}_{-100} \quad (+0.2\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.484^{+0.086}_{-0.12} \quad (-0.6\sigma)$	$H(0.51)$	$88.6^{+1.7}_{-2.3} \quad (+0.2\sigma)$
y_{cal}	$1.0003^{+0.0064}_{-0.0062} \quad (-0.1\sigma)$	z_{re}	$< 9.22 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1833^{+200}_{-100} \quad (+0.2\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.080}_{-0.057} \quad (-0.4\sigma)$	$H(0.61)$	$92.8^{+3.0}_{-2.9} \quad (+0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.9\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.030} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2164^{+240}_{-120} \quad (+0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1221^{+33}_{-32} \quad (-0.4\sigma)$	$H(2.33)$	$231.8^{+8.4}_{-4.2} \quad (-0.0\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{220}	$5719^{+97}_{-99} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5738^{+78}_{-37} \quad (+0.2\sigma)$
A_{143}^{tSZ}	$< 8.90 \quad (-0.8\sigma)$	D_{810}	$2533^{+35}_{-34} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.482^{+0.039}_{-0.045} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.33}$	D_{1420}	$815^{+12}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.89^{+0.14}_{-0.21} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.4^{+4.1}_{-4.0} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.563^{+0.094}_{-0.13} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.13}_{-0.19} \quad (-0.3\sigma)$
A^{kSZ}	—	Y_{P}	$0.24538^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.58^{+0.11}_{-0.15} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.52}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.74^{+0.12}_{-0.18} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.076}_{-0.072} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.58^{+0.12}_{-0.16} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.57^{+0.39}_{-0.19} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.71^{+0.11}_{-0.17} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_*	$1089.91^{+0.68}_{-0.71} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.355^{+0.052}_{-0.085} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_*	$144.62^{+0.82}_{-0.76} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.358^{+0.048}_{-0.076} \quad (-0.3\sigma)$
c_{217}	$1.0010^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	$100\theta_*$	$1.04111^{+0.00078}_{-0.00078} \quad (-0.1\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.891^{+0.076}_{-0.072} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.5^{+5.0}_{-4.8} \quad (-0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	z_{drag}	$1059.82^{+0.80}_{-0.87} \quad (-0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.1\sigma)$
H_0	$> 61.7 \quad (-0.2\sigma)$	r_{drag}	$147.30^{+0.82}_{-0.78} \quad (+0.7\sigma)$	χ_{small}^2	$396.6 \quad (\nu: 1.0) \quad (-0.2\sigma)$
Ω_{Λ}	$0.793^{+0.072}_{-0.17} \quad (-0.2\sigma)$	k_{D}	$0.14063^{+0.00089}_{-0.00093} \quad (-0.8\sigma)$	χ_{lowl}^2	$22.57 \quad (\nu: 0.3) \quad (-0.3\sigma)$
Ω_{m}	$0.207^{+0.17}_{-0.072} \quad (+0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16082^{+0.00051}_{-0.00047} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.1 \quad (\nu: 15.4)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0032}_{-0.0034} \quad (-0.5\sigma)$	z_{eq}	$3386^{+77}_{-80} \quad (-0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.024}_{-0.034} \quad (-0.2\sigma)$	k_{eq}	$0.01034^{+0.00024}_{-0.00024} \quad (-0.5\sigma)$	χ_{CMB}^2	$11932.3 \quad (\nu: 16.0) \quad (+1562.6\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11940.09; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.71; R - 1 = 0.01385$$

18.21 base_w_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02236^{+0.00039}_{-0.00041} \quad (-0.5\sigma)$	S_8	$0.771^{+0.079}_{-0.060} \quad (-0.0\sigma)$	$H(0.15)$	$82.5^{+7.9}_{-12} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0030}_{-0.0030} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.422^{+0.043}_{-0.033} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$542^{+100}_{-70} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00078}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.634^{+0.030}_{-0.042} \quad (-0.2\sigma)$	$H(0.38)$	$84.7^{+1.7}_{-3.0} \quad (-0.1\sigma)$
τ	$0.053^{+0.016}_{-0.011} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.032^{+0.047}_{-0.069} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1374^{+200}_{-100} \quad (+0.1\sigma)$
w_0	$-1.53^{+0.66}_{-0.45} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$126^{+20}_{-30} \quad (-0.1\sigma)$	$H(0.51)$	$88.7^{+1.5}_{-2.1} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.034}_{-0.025} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.478^{+0.065}_{-0.080} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1824^{+200}_{-100} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	z_{re}	$< 9.01 \quad (-0.1\sigma)$	$H(0.61)$	$92.9^{+2.9}_{-2.8} \quad (+0.1\sigma)$
y_{cal}	$1.0002^{+0.0063}_{-0.0060} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.086^{+0.071}_{-0.052} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2155^{+210}_{-110} \quad (+0.1\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$H(2.33)$	$231.4^{+7.3}_{-3.7} \quad (-0.0\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1219^{+31}_{-30} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5735^{+58}_{-35} \quad (+0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5719^{+91}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.480^{+0.032}_{-0.034} \quad (-0.2\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2532^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.89^{+0.13}_{-0.18} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 9.00 \quad (-0.8\sigma)$	D_{1420}	$815^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.562^{+0.086}_{-0.11} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.32}$	D_{2000}	$230.3^{+4.2}_{-3.9} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.80^{+0.12}_{-0.17} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.58^{+0.10}_{-0.13} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24539^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.75^{+0.11}_{-0.16} \quad (-0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.58^{+0.11}_{-0.14} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.47}_{-0.51}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.588^{+0.078}_{-0.070} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.71^{+0.10}_{-0.15} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.56^{+0.33}_{-0.17} \quad (+0.2\sigma)$	$f\sigma_8(2.33)$	$0.356^{+0.048}_{-0.075} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1089.85^{+0.67}_{-0.68} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.359^{+0.045}_{-0.067} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.40}$	r_*	$144.70^{+0.71}_{-0.69} \quad (+0.5\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04113^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.5^{+5.1}_{-4.9} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0041} \quad (+4.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.898^{+0.066}_{-0.066} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.83^{+0.82}_{-0.89} \quad (-0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$8.76 \quad (\nu: 0.4) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	r_{drag}	$147.37^{+0.74}_{-0.72} \quad (+0.6\sigma)$	χ_{small}^2	$396.4 \quad (\nu: 0.7) \quad (-1.0\sigma)$
H_0	$> 64.1 \quad (-0.1\sigma)$	k_{D}	$0.14056^{+0.00083}_{-0.00088} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.41 \quad (\nu: 0.3) \quad (-0.2\sigma)$
Ω_{Λ}	$0.797^{+0.067}_{-0.15} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00053}_{-0.00048} \quad (+0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.0 \quad (\nu: 14.8)$
Ω_{m}	$0.203^{+0.15}_{-0.067} \quad (+0.1\sigma)$	z_{eq}	$3378^{+67}_{-67} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0028} \quad (-0.3\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00020} \quad (-0.3\sigma)$	χ_{CMB}^2	$11940.6 \quad (\nu: 16.2) \quad (+1542.3\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.121^{+0.022}_{-0.031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.013} \quad (+0.2\sigma)$		
σ_8	$0.95^{+0.13}_{-0.18} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0066}_{-0.0064} \quad (+0.2\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11948.34$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.91$; $R - 1 = 0.02464$

18.22 **base_w_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00035}_{-0.00039} \quad (-0.3\sigma)$	S_8	$0.810^{+0.038}_{-0.040} \quad (-0.5\sigma)$	$H(0.15)$	$76.3^{+2.5}_{-2.4} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0034}_{-0.0037} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.444^{+0.021}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$602^{+27}_{-26} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04090^{+0.00089}_{-0.00086} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.619^{+0.026}_{-0.026} \quad (-0.5\sigma)$	$H(0.38)$	$83.9^{+1.0}_{-0.93} \quad (+0.1\sigma)$
τ	$0.054^{+0.016}_{-0.013} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$1.008^{+0.038}_{-0.036} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1466^{+44}_{-43} \quad (+0.0\sigma)$
w_0	$-1.20^{+0.15}_{-0.15} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$108.3^{+6.5}_{-6.0} \quad (-0.0\sigma)$	$H(0.51)$	$89.58^{+0.90}_{-0.92} \quad (+0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.032}_{-0.028} \quad (-0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.462^{+0.075}_{-0.079} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	$1916^{+46}_{-46} \quad (+0.0\sigma)$
n_{s}	$0.966^{+0.010}_{-0.0097} \quad (+0.3\sigma)$	z_{re}	$< 9.15 \quad (-0.2\sigma)$	$H(0.61)$	$94.60^{+0.96}_{-1.1} \quad (+0.2\sigma)$
y_{cal}	$1.0006^{+0.0067}_{-0.0060} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.068}_{-0.058} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2242^{+45}_{-46} \quad (+0.0\sigma)$
A_{100}^{PS}	$238^{+60}_{-60} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.030}_{-0.034} \quad (-0.5\sigma)$	$H(2.33)$	$233.8^{+2.1}_{-2.3} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+30}_{-20} \quad (-0.9\sigma)$	D_{40}	$1225^{+29}_{-30} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5749^{+26}_{-24} \quad (+0.1\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5722^{+85}_{-98} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.468^{+0.026}_{-0.026} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2535^{+34}_{-32} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.802^{+0.045}_{-0.043} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.65 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.507^{+0.036}_{-0.031} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.30}_{-0.33}$	D_{2000}	$230.4^{+4.0}_{-3.8} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.713^{+0.040}_{-0.038} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.0097} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.512^{+0.037}_{-0.034} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00013}_{-0.00017} \quad (-0.3\sigma)$	$\sigma_8(0.51)$	$0.668^{+0.037}_{-0.035} \quad (-0.4\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00013}_{-0.00017} \quad (-0.3\sigma)$	$f\sigma_8(0.61)$	$0.509^{+0.038}_{-0.035} \quad (-0.4\sigma)$
A_{100}^{dust}	$0.995^{+0.43}_{-0.48}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.595^{+0.074}_{-0.063} \quad (+0.3\sigma)$	$\sigma_8(0.61)$	$0.635^{+0.035}_{-0.033} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.44}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.693^{+0.085}_{-0.081} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.320^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.29}$	z_*	$1089.95^{+0.61}_{-0.61} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.326^{+0.015}_{-0.014} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	r_*	$144.58^{+0.84}_{-0.83} \quad (+0.6\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0025}_{-0.0025} \quad (-3.4\sigma)$	$100\theta_*$	$1.04109^{+0.00086}_{-0.00085} \quad (-0.1\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-5.4} \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0037}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.080}_{-0.075} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+6}_{-5} \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.79^{+0.72}_{-0.85} \quad (-0.5\sigma)$	χ_{small}^2	$396.6 \quad (\nu: 0.8) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.011}_{-0.012}$	r_{drag}	$147.26^{+0.80}_{-0.82} \quad (+0.7\sigma)$	χ_{lowl}^2	$22.86 \quad (\nu: 0.3) \quad (-0.5\sigma)$
H_0	$73.5^{+4.4}_{-4.1} \quad (-0.1\sigma)$	k_{D}	$0.14065^{+0.00098}_{-0.00098} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.4 \quad (\nu: 14.3)$
Ω_{Λ}	$0.736^{+0.030}_{-0.032} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00046}_{-0.00046} \quad (+0.5\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$1.0 \quad (\nu: 1.0) \quad (+0.0\sigma)$
Ω_{m}	$0.264^{+0.032}_{-0.030} \quad (+0.0\sigma)$	z_{eq}	$3391^{+77}_{-84} \quad (-0.5\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.0) \quad (-0.9\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0032}_{-0.0035} \quad (-0.5\sigma)$	k_{eq}	$0.01035^{+0.00024}_{-0.00026} \quad (-0.5\sigma)$	χ_{CMB}^2	$11932.9 \quad (\nu: 14.7) \quad (+1520.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.1048^{+0.0065}_{-0.0064} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.015} \quad (+0.5\sigma)$		
σ_8	$0.864^{+0.048}_{-0.045} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4504^{+0.0082}_{-0.0075} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11941.58; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.58; R - 1 = 0.09840$$

18.23 base_w_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02217^{+0.00054}_{-0.00052}$	$\sigma_8/h^{0.5}$	0.990	$0.992^{+0.050}_{-0.053}$	$D_M(0.38)$	1524.8	1522^{+42}_{-42}
$\Omega_c h^2$	0.11961	$0.1197^{+0.0046}_{-0.0045}$	$r_{\text{drag}} h$	100.5	$100.9^{+6.0}_{-5.0}$	$H(0.51)$	89.54	$89.50^{+0.90}_{-1.0}$
$100\theta_{\text{MC}}$	1.04092	$1.0409^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.441	$2.45^{+0.10}_{-0.11}$	$D_M(0.51)$	1977.2	1974^{+43}_{-43}
τ	0.0528	$0.053^{+0.023}_{-0.021}$	z_{re}	7.56	$7.6^{+2.2}_{-2.3}$	$H(0.61)$	95.09	$95.0^{+1.1}_{-1.3}$
w_0	-1.027	$-1.04^{+0.16}_{-0.19}$	$10^9 A_s$	2.090	$2.091^{+0.098}_{-0.091}$	$D_M(0.61)$	2302.2	2299^{+43}_{-43}
$\ln(10^{10} A_s)$	3.0400	$3.040^{+0.046}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8811	$1.880^{+0.034}_{-0.033}$	$H(2.33)$	235.70	$235.6^{+2.0}_{-2.0}$
n_s	0.9655	$0.965^{+0.013}_{-0.013}$	D_{40}	1227.4	1228^{+36}_{-34}	$D_M(2.33)$	5768.2	5768^{+31}_{-31}
y_{cal}	1.0006	$1.0005^{+0.0066}_{-0.0064}$	D_{220}	5717	5716^{+100}_{-100}	$f\sigma_8(0.15)$	0.4594	$0.461^{+0.034}_{-0.033}$
A_{217}^{CIB}	49.6	48^{+20}_{-20}	D_{810}	2537.6	2536^{+36}_{-36}	$\sigma_8(0.15)$	0.755	$0.759^{+0.059}_{-0.056}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.21	—	D_{1420}	815.8	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4799	$0.483^{+0.047}_{-0.043}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.04	$229.8^{+4.5}_{-4.5}$	$\sigma_8(0.38)$	0.669	$0.673^{+0.052}_{-0.049}$
A_{100}^{PS}	257	263^{+70}_{-70}	$n_{s,0.002}$	0.9655	$0.965^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	0.4791	$0.482^{+0.050}_{-0.045}$
A_{143}^{PS}	48.2	49^{+20}_{-20}	Y_{P}	0.245315	$0.24531^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	0.6263	$0.629^{+0.048}_{-0.045}$
$A_{143 \times 217}^{\text{PS}}$	43.9	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246641	$0.24664^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.4743	$0.477^{+0.050}_{-0.045}$
A_{217}^{PS}	117.7	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.623	$2.62^{+0.10}_{-0.098}$	$\sigma_8(0.61)$	0.5959	$0.599^{+0.045}_{-0.043}$
A^{kSZ}	0.1	—	Age/Gyr	13.799	$13.794^{+0.092}_{-0.087}$	$f\sigma_8(2.33)$	0.3004	$0.302^{+0.022}_{-0.021}$
A_{100}^{dustTT}	8.86	$9.0^{+4.7}_{-4.7}$	z_*	1090.13	$1090.15^{+0.91}_{-0.90}$	$\sigma_8(2.33)$	0.3090	$0.310^{+0.018}_{-0.018}$
A_{143}^{dustTT}	10.82	$10.7^{+4.6}_{-4.6}$	r_*	144.68	$144.7^{+1.1}_{-1.1}$	f_{2000}^{143}	30.7	31^{+7}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.3^{+8.3}_{-8.5}$	$100\theta_*$	1.04113	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.4	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.897	$13.90^{+0.10}_{-0.10}$	f_{2000}^{217}	107.87	$108.0^{+4.9}_{-5.0}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.2}$	χ_{small}^2	395.86	$397.0 (\nu: 1.6)$
c_{217}	0.99829	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.42	$147.4^{+1.1}_{-1.1}$	χ_{lowl}^2	23.15	$23.3 (\nu: 0.5)$
H_0	68.14	$68.5^{+4.3}_{-3.6}$	k_{D}	0.14037	$0.1404^{+0.0012}_{-0.0012}$	χ_{plik}^2	759.1	$771.5 (\nu: 15.6)$
Ω_{Λ}	0.6933	$0.696^{+0.032}_{-0.031}$	$100\theta_{\text{D}}$	0.16105	$0.16105^{+0.00068}_{-0.00065}$	$\chi_{6\text{DF}}^2$	0.002	$0.13 (\nu: 0.0)$
Ω_{m}	0.3067	$0.304^{+0.031}_{-0.032}$	z_{eq}	3388	3390^{+100}_{-100}	χ_{MGS}^2	1.54	$1.9 (\nu: 0.5)$
$\Omega_{\text{m}} h^2$	0.14243	$0.1425^{+0.0044}_{-0.0043}$	k_{eq}	0.010341	$0.01035^{+0.00032}_{-0.00032}$	χ_{DR12BAO}^2	4.36	$5.2 (\nu: 1.2)$
$\Omega_{\text{m}} h^3$	0.0971	$0.0976^{+0.0080}_{-0.0068}$	$100\theta_{\text{eq}}$	0.8153	$0.815^{+0.020}_{-0.019}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.9)$
σ_8	0.817	$0.821^{+0.063}_{-0.060}$	$100\theta_{s,\text{eq}}$	0.4506	$0.450^{+0.010}_{-0.0098}$	χ_{BAO}^2	5.90	$7.2 (\nu: 1.8)$
S_8	0.8260	$0.826^{+0.044}_{-0.046}$	$H(0.15)$	73.14	$73.3^{+2.3}_{-2.1}$	χ_{CMB}^2	1178.1	$1191.8 (\nu: 15.4)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4524	$0.452^{+0.024}_{-0.025}$	$D_M(0.15)$	637.7	636^{+26}_{-28}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6079	$0.609^{+0.035}_{-0.037}$	$H(0.38)$	82.94	$82.96^{+0.91}_{-0.84}$			

Best-fit $\chi_{\text{eff}}^2 = 1185.52$; $\bar{\chi}_{\text{eff}}^2 = 1206.32$; $R - 1 = 0.00799$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 4.36 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2.29: 23.15 plik_rd12_HM_v22.TT: 759.14

18.24 base_w_plikHM_TT_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.02217^{+0.00051}_{-0.00053}$	$\sigma_8/h^{0.5}$	0.9908	$0.992^{+0.035}_{-0.035}$	$D_M(0.38)$	1523.4	1521^{+41}_{-41}
$\Omega_c h^2$	0.11959	$0.1197^{+0.0034}_{-0.0035}$	$r_{\text{drag}} h$	100.6	$101.0^{+5.6}_{-4.9}$	$H(0.51)$	89.55	$89.52^{+0.75}_{-0.85}$
$100\theta_{\text{MC}}$	1.04086	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.445^{+0.068}_{-0.068}$	$D_M(0.51)$	1975.7	1973^{+43}_{-42}
τ	0.0542	$0.053^{+0.022}_{-0.020}$	z_{re}	7.70	$7.6^{+2.1}_{-2.2}$	$H(0.61)$	95.09	$95.03^{+0.87}_{-1.0}$
w_0	-1.031	$-1.04^{+0.13}_{-0.16}$	$10^9 A_s$	2.096	$2.092^{+0.088}_{-0.079}$	$D_M(0.61)$	2300.6	2298^{+43}_{-43}
$\ln(10^{10} A_s)$	3.0425	$3.041^{+0.041}_{-0.038}$	$10^9 A_s e^{-2\tau}$	1.8805	$1.880^{+0.028}_{-0.029}$	$H(2.33)$	235.66	$235.6^{+2.0}_{-2.0}$
n_s	0.9655	$0.965^{+0.012}_{-0.011}$	D_{40}	1227.6	1229^{+32}_{-30}	$D_M(2.33)$	5767.3	5768^{+31}_{-29}
y_{cal}	1.0003	$1.0005^{+0.0064}_{-0.0063}$	D_{220}	5719	5718^{+100}_{-100}	$f\sigma_8(0.15)$	0.4600	$0.461^{+0.024}_{-0.023}$
A_{217}^{CIB}	48.6	48^{+20}_{-20}	D_{810}	2536.8	2536^{+34}_{-35}	$\sigma_8(0.15)$	0.7568	$0.759^{+0.045}_{-0.041}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.32	—	D_{1420}	815.6	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4809	$0.483^{+0.035}_{-0.031}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.08	$229.8^{+4.3}_{-4.5}$	$\sigma_8(0.38)$	0.6709	$0.673^{+0.040}_{-0.036}$
A_{100}^{PS}	254	263^{+70}_{-70}	$n_{s,0.002}$	0.9655	$0.965^{+0.012}_{-0.011}$	$f\sigma_8(0.51)$	0.4802	$0.482^{+0.037}_{-0.032}$
A_{143}^{PS}	49.2	49^{+20}_{-20}	Y_{P}	0.245328	$0.24531^{+0.00020}_{-0.00025}$	$\sigma_8(0.51)$	0.6278	$0.630^{+0.037}_{-0.033}$
$A_{143 \times 217}^{\text{PS}}$	46.9	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246654	$0.24664^{+0.00020}_{-0.00025}$	$f\sigma_8(0.61)$	0.4754	$0.477^{+0.038}_{-0.033}$
A_{217}^{PS}	119.5	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.617	$2.62^{+0.10}_{-0.094}$	$\sigma_8(0.61)$	0.5973	$0.599^{+0.035}_{-0.032}$
A^{kSZ}	0.0	—	Age/Gyr	13.796	$13.793^{+0.091}_{-0.085}$	$f\sigma_8(2.33)$	0.3012	$0.302^{+0.017}_{-0.016}$
A_{100}^{dustTT}	8.88	$8.9^{+5.0}_{-4.9}$	z_*	1090.09	$1090.14^{+0.82}_{-0.79}$	$\sigma_8(2.33)$	0.3097	$0.310^{+0.015}_{-0.013}$
A_{143}^{dustTT}	10.80	$10.7^{+4.7}_{-4.3}$	r_*	144.66	$144.67^{+0.86}_{-0.84}$	f_{2000}^{143}	30.2	31^{+8}_{-8}
$A_{143 \times 217}^{\text{dustTT}}$	19.4	$18.3^{+7.9}_{-8.4}$	$100\theta_*$	1.04106	$1.0411^{+0.0010}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.896	$13.896^{+0.082}_{-0.080}$	f_{2000}^{217}	107.58	$108.0^{+5.0}_{-4.9}$
c_{100}	0.99966	$0.9996^{+0.0015}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.2}$	χ_{lensing}^2	8.73	$9.35 (\nu: 0.4)$
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.39	$147.40^{+0.92}_{-0.89}$	χ_{small}^2	396.05	$397.0 (\nu: 1.5)$
H_0	68.25	$68.5^{+3.9}_{-3.4}$	k_{D}	0.14043	$0.1404^{+0.0012}_{-0.0011}$	χ_{lowl}^2	23.21	$23.32 (\nu: 0.4)$
Ω_{Λ}	0.6943	$0.696^{+0.031}_{-0.031}$	$100\theta_{\text{D}}$	0.16099	$0.16104^{+0.00071}_{-0.00067}$	χ_{plik}^2	759.0	$770.9 (\nu: 14.0)$
Ω_{m}	0.3057	$0.304^{+0.031}_{-0.031}$	z_{eq}	3388	3389^{+78}_{-81}	$\chi_{6\text{DF}}^2$	0.000	$0.13 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14244	$0.1425^{+0.0033}_{-0.0034}$	k_{eq}	0.010342	$0.01034^{+0.00024}_{-0.00025}$	χ_{MGS}^2	1.61	$1.92 (\nu: 0.5)$
$\Omega_{\text{m}} h^3$	0.0972	$0.0977^{+0.0067}_{-0.0058}$	$100\theta_{\text{eq}}$	0.8152	$0.815^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	4.33	$5.1 (\nu: 1.0)$
σ_8	0.8186	$0.821^{+0.047}_{-0.043}$	$100\theta_{\text{s,eq}}$	0.4505	$0.4505^{+0.0079}_{-0.0074}$	χ_{prior}^2	1.3	$7.2 (\nu: 6.6)$
S_8	0.8264	$0.825^{+0.031}_{-0.031}$	$H(0.15)$	73.21	$73.4^{+2.2}_{-2.1}$	χ_{CMB}^2	1187.0	$1200.6 (\nu: 15.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4526	$0.452^{+0.017}_{-0.017}$	$D_M(0.15)$	636.9	635^{+26}_{-26}	χ_{BAO}^2	5.94	$7.2 (\nu: 1.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6087	$0.609^{+0.024}_{-0.024}$	$H(0.38)$	82.97	$82.98^{+0.87}_{-0.85}$			

Best-fit $\chi_{\text{eff}}^2 = 1194.29$; $\bar{\chi}_{\text{eff}}^2 = 1214.98$; $R - 1 = 0.01126$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 4.33 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.73 small_100x143.offlike5_EE_Aplanck_B: 396.05 commander_dx12.v3.2.29: 23.21 plik_rd12_HM.v22_TT: 759.05

18.25 base_w_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00053}_{-0.00053}$	$\sigma_8/h^{0.5}$	$0.992^{+0.050}_{-0.053}$	$D_{\mathrm{M}}(0.38)$	1522^{+42}_{-42}
$\Omega_{\mathrm{c}} h^2$	$0.1197^{+0.0046}_{-0.0045}$	$r_{\mathrm{drag}} h$	$100.9^{+6.0}_{-5.1}$	$H(0.51)$	$89.51^{+0.90}_{-1.0}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.45^{+0.10}_{-0.10}$	$D_{\mathrm{M}}(0.51)$	1974^{+44}_{-43}
τ	$0.054^{+0.020}_{-0.013}$	z_{re}	< 9.56	$H(0.61)$	$95.0^{+1.0}_{-1.3}$
w_0	$-1.04^{+0.16}_{-0.19}$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.095}_{-0.064}$	$D_{\mathrm{M}}(0.61)$	2299^{+43}_{-42}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.044}_{-0.031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.034}_{-0.033}$	$H(2.33)$	$235.6^{+2.0}_{-2.0}$
n_{s}	$0.965^{+0.013}_{-0.013}$	D_{40}	1229^{+36}_{-34}	$D_{\mathrm{M}}(2.33)$	5768^{+31}_{-30}
y_{cal}	$1.0005^{+0.0065}_{-0.0064}$	D_{220}	5716^{+100}_{-100}	$f\sigma_8(0.15)$	$0.461^{+0.034}_{-0.033}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-36}	$\sigma_8(0.15)$	$0.759^{+0.059}_{-0.056}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.483^{+0.047}_{-0.043}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	$0.673^{+0.052}_{-0.049}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	$0.482^{+0.050}_{-0.045}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	$0.630^{+0.048}_{-0.045}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.478^{+0.050}_{-0.045}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.10}_{-0.097}$	$\sigma_8(0.61)$	$0.599^{+0.045}_{-0.042}$
A^{kSZ}	—	Age/Gyr	$13.794^{+0.092}_{-0.086}$	$f\sigma_8(2.33)$	$0.302^{+0.022}_{-0.021}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	z_*	$1090.14^{+0.91}_{-0.89}$	$\sigma_8(2.33)$	$0.311^{+0.018}_{-0.018}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	r_*	$144.7^{+1.1}_{-1.1}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.3}_{-8.5}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.90^{+0.10}_{-0.10}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.2}$	χ_{simall}^2	$396.9 (\nu: 1.7)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.4^{+1.1}_{-1.1}$	χ_{lowl}^2	$23.3 (\nu: 0.5)$
H_0	$68.5^{+4.3}_{-3.6}$	k_{D}	$0.1404^{+0.0013}_{-0.0012}$	χ_{plik}^2	$771.3 (\nu: 15.5)$
Ω_{Λ}	$0.696^{+0.032}_{-0.031}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00069}_{-0.00066}$	$\chi_{6\mathrm{DF}}^2$	$0.13 (\nu: 0.0)$
Ω_{m}	$0.304^{+0.031}_{-0.032}$	z_{eq}	3389^{+110}_{-100}	χ_{MGS}^2	$1.88 (\nu: 0.5)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0044}_{-0.0043}$	k_{eq}	$0.01034^{+0.00032}_{-0.00032}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 (\nu: 1.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0976^{+0.0080}_{-0.0069}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.020}_{-0.019}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.821^{+0.062}_{-0.060}$	$100\theta_{\mathrm{s,eq}}$	$0.450^{+0.010}_{-0.0099}$	χ_{BAO}^2	$7.2 (\nu: 1.8)$
S_8	$0.827^{+0.044}_{-0.045}$	$H(0.15)$	$73.3^{+2.3}_{-2.1}$	χ_{CMB}^2	$1191.6 (\nu: 15.1)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.024}_{-0.025}$	$D_{\mathrm{M}}(0.15)$	636^{+26}_{-28}		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.035}_{-0.036}$	$H(0.38)$	$82.96^{+0.91}_{-0.84}$		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.07$; $R - 1 = 0.00764$

18.26 base_w_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02218^{+0.00051}_{-0.00053}$	$\sigma_8/h^{0.5}$	$0.992^{+0.035}_{-0.035}$	$D_M(0.38)$	1521^{+41}_{-41}
$\Omega_c h^2$	$0.1196^{+0.0034}_{-0.0034}$	$r_{\text{drag}} h$	$101.0^{+5.6}_{-4.9}$	$H(0.51)$	$89.54^{+0.74}_{-0.85}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0010}_{-0.0010}$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.068}_{-0.068}$	$D_M(0.51)$	1973^{+43}_{-42}
τ	$0.055^{+0.019}_{-0.014}$	z_{re}	< 9.45	$H(0.61)$	$95.05^{+0.86}_{-1.0}$
w_0	$-1.04^{+0.13}_{-0.16}$	$10^9 A_s$	$2.097^{+0.084}_{-0.057}$	$D_M(0.61)$	2298^{+43}_{-43}
$\ln(10^{10} A_s)$	$3.043^{+0.039}_{-0.028}$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.027}_{-0.029}$	$H(2.33)$	$235.6^{+2.0}_{-2.0}$
n_s	$0.965^{+0.011}_{-0.011}$	D_{40}	1229^{+33}_{-30}	$D_M(2.33)$	5767^{+30}_{-28}
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	D_{220}	5718^{+100}_{-110}	$f\sigma_8(0.15)$	$0.460^{+0.024}_{-0.023}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+34}_{-35}	$\sigma_8(0.15)$	$0.759^{+0.045}_{-0.041}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.482^{+0.034}_{-0.030}$
A_{143}^{tSZ}	—	D_{2000}	$229.9^{+4.3}_{-4.4}$	$\sigma_8(0.38)$	$0.673^{+0.040}_{-0.036}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\text{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.482^{+0.037}_{-0.032}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00020}_{-0.00025}$	$\sigma_8(0.51)$	$0.630^{+0.038}_{-0.033}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24664^{+0.00020}_{-0.00025}$	$f\sigma_8(0.61)$	$0.477^{+0.037}_{-0.033}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.62^{+0.10}_{-0.093}$	$\sigma_8(0.61)$	$0.599^{+0.035}_{-0.031}$
A^{kSZ}	—	Age/Gyr	$13.793^{+0.092}_{-0.084}$	$f\sigma_8(2.33)$	$0.302^{+0.017}_{-0.016}$
A_{100}^{dustTT}	$8.9^{+5.1}_{-4.9}$	z_*	$1090.12^{+0.81}_{-0.78}$	$\sigma_8(2.33)$	$0.311^{+0.015}_{-0.013}$
A_{143}^{dustTT}	$10.7^{+4.7}_{-4.3}$	r_*	$144.69^{+0.85}_{-0.84}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+7.9}_{-8.4}$	$100\theta_*$	$1.0411^{+0.0010}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.898^{+0.081}_{-0.080}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.9}$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	χ_{lensing}^2	$9.33 (\nu: 0.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.42^{+0.91}_{-0.90}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
H_0	$68.5^{+3.9}_{-3.4}$	k_{D}	$0.1404^{+0.0012}_{-0.0011}$	χ_{lowl}^2	$23.31 (\nu: 0.4)$
Ω_{Λ}	$0.696^{+0.031}_{-0.031}$	$100\theta_{\text{D}}$	$0.16104^{+0.00071}_{-0.00067}$	χ_{plik}^2	$770.9 (\nu: 14.0)$
Ω_{m}	$0.304^{+0.031}_{-0.031}$	z_{eq}	3387^{+77}_{-80}	$\chi_{6\text{DF}}^2$	$0.13 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1424^{+0.0032}_{-0.0034}$	k_{eq}	$0.01034^{+0.00024}_{-0.00024}$	χ_{MGS}^2	$1.91 (\nu: 0.5)$
$\Omega_{\text{m}} h^3$	$0.0975^{+0.0066}_{-0.0057}$	$100\theta_{\text{eq}}$	$0.815^{+0.015}_{-0.014}$	χ_{DR12BAO}^2	$5.1 (\nu: 0.9)$
σ_8	$0.821^{+0.047}_{-0.043}$	$100\theta_{\text{s,eq}}$	$0.4507^{+0.0078}_{-0.0072}$	χ_{prior}^2	$7.2 (\nu: 6.6)$
S_8	$0.826^{+0.031}_{-0.031}$	$H(0.15)$	$73.3^{+2.2}_{-2.1}$	χ_{CMB}^2	$1200.4 (\nu: 15.5)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.452^{+0.017}_{-0.017}$	$D_M(0.15)$	635^{+25}_{-26}	χ_{BAO}^2	$7.1 (\nu: 1.5)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.609^{+0.025}_{-0.024}$	$H(0.38)$	$83.00^{+0.86}_{-0.85}$		

$\bar{\chi}_{\text{eff}}^2 = 1214.74; R - 1 = 0.01087$

18.27 base_w_plikHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022384	$0.02238^{+0.00037}_{-0.00038}$	σ_8	0.823	$0.822^{+0.053}_{-0.048}$	$D_M(0.15)$	634.2	634^{+26}_{-27}
$\Omega_c h^2$	0.11994	$0.1199^{+0.0032}_{-0.0032}$	S_8	0.8281	$0.827^{+0.033}_{-0.033}$	$H(0.38)$	83.12	$83.11^{+0.80}_{-0.79}$
$100\theta_{MC}$	1.04092	$1.04095^{+0.00080}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.453^{+0.018}_{-0.018}$	$D_M(0.38)$	1518.4	1519^{+41}_{-43}
τ	0.0544	$0.055^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6110	$0.610^{+0.027}_{-0.027}$	$H(0.51)$	89.66	$89.66^{+0.66}_{-0.75}$
w_0	-1.041	$-1.04^{+0.14}_{-0.16}$	$\sigma_8/h^{0.5}$	0.9936	$0.993^{+0.040}_{-0.039}$	$D_M(0.51)$	1970.1	1970^{+43}_{-44}
$\ln(10^{10} A_s)$	3.0443	$3.044^{+0.043}_{-0.042}$	$r_{drag} h$	100.9	$101.0^{+5.9}_{-5.0}$	$H(0.61)$	95.18	$95.18^{+0.77}_{-0.98}$
n_s	0.9663	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.449	$2.449^{+0.078}_{-0.081}$	$D_M(0.61)$	2294.7	2295^{+43}_{-43}
y_{cal}	1.0003	$1.0006^{+0.0064}_{-0.0066}$	z_{re}	7.68	$7.7^{+2.1}_{-2.2}$	$H(2.33)$	235.93	$236.0^{+1.8}_{-1.9}$
A_{217}^{CIB}	46.4	47^{+20}_{-20}	$10^9 A_s$	2.099	$2.100^{+0.091}_{-0.086}$	$D_M(2.33)$	5758.7	5759^{+24}_{-23}
$\xi^{tSZ \times CIB}$	0.56	—	$10^9 A_s e^{-2\tau}$	1.8829	$1.883^{+0.029}_{-0.031}$	$f\sigma_8(0.15)$	0.4618	$0.461^{+0.025}_{-0.024}$
A_{143}^{tSZ}	7.1	—	D_{40}	1227.5	1230^{+32}_{-32}	$\sigma_8(0.15)$	0.7610	$0.760^{+0.051}_{-0.046}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5729	5734^{+100}_{-100}	$f\sigma_8(0.38)$	0.4838	$0.483^{+0.037}_{-0.033}$
A_{143}^{PS}	49.5	46^{+20}_{-20}	D_{810}	2540.0	2539^{+35}_{-36}	$\sigma_8(0.38)$	0.6747	$0.674^{+0.046}_{-0.041}$
$A_{143 \times 217}^{PS}$	50.8	42^{+20}_{-20}	D_{1420}	818.0	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4833	$0.483^{+0.040}_{-0.035}$
A_{217}^{PS}	121.1	115^{+30}_{-30}	D_{2000}	231.23	$231.0^{+4.1}_{-4.1}$	$\sigma_8(0.51)$	0.6313	$0.631^{+0.042}_{-0.038}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9663	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	0.4786	$0.478^{+0.041}_{-0.036}$
A_{100}^{dustTT}	8.81	$8.9^{+4.8}_{-4.7}$	Y_P	0.245401	$0.24540^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.6006	$0.600^{+0.040}_{-0.036}$
A_{143}^{dustTT}	11.04	$10.9^{+4.5}_{-4.4}$	Y_P^{BBN}	0.246728	$0.24673^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	0.3028	$0.303^{+0.020}_{-0.018}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.6^{+8.6}_{-8.4}$	$10^5 D/H$	2.583	$2.584^{+0.072}_{-0.067}$	$\sigma_8(2.33)$	0.3112	$0.311^{+0.017}_{-0.015}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.771	$13.772^{+0.081}_{-0.080}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.115^{+0.098}_{-0.096}$	z_*	1089.90	$1089.89^{+0.69}_{-0.64}$	$f_{2000}^{143 \times 217}$	31.98	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.136	$0.135^{+0.077}_{-0.073}$	r_*	144.44	$144.46^{+0.72}_{-0.71}$	f_{2000}^{217}	106.51	$107.0^{+4.5}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04110	$1.04113^{+0.00080}_{-0.00077}$	χ_{small}^2	396.06	$397.1 (\nu: 1.8)$
A_{143}^{dustTE}	0.227	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.873	$13.875^{+0.068}_{-0.067}$	χ_{lowl}^2	23.12	$23.35 (\nu: 0.4)$
$A_{143 \times 217}^{dustTE}$	0.666	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.97	$1059.96^{+0.78}_{-0.79}$	χ_{plik}^2	2344.5	$2359.4 (\nu: 17.6)$
A_{217}^{dustTE}	2.09	$2.08^{+0.70}_{-0.70}$	r_{drag}	147.09	$147.11^{+0.72}_{-0.70}$	χ_{6DF}^2	0.001	$0.13 (\nu: 0.0)$
c_{100}	0.99970	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14088	$0.14086^{+0.00079}_{-0.00079}$	χ_{MGS}^2	1.75	$1.89 (\nu: 0.5)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160740	$0.16075^{+0.00046}_{-0.00045}$	$\chi_{DR12BAO}^2$	4.40	$5.2 (\nu: 0.9)$
H_0	68.61	$68.6^{+4.1}_{-3.5}$	z_{eq}	3401	3399^{+72}_{-72}	χ_{prior}^2	1.7	$11.5 (\nu: 10.1)$
Ω_Λ	0.6963	$0.696^{+0.032}_{-0.031}$	k_{eq}	0.010381	$0.01038^{+0.00022}_{-0.00022}$	χ_{BAO}^2	6.15	$7.2 (\nu: 1.5)$
Ω_m	0.3037	$0.304^{+0.031}_{-0.032}$	$100\theta_{eq}$	0.8135	$0.814^{+0.014}_{-0.013}$	χ_{CMB}^2	2763.7	$2779.9 (\nu: 17.5)$
$\Omega_m h^2$	0.14297	$0.1429^{+0.0030}_{-0.0030}$	$100\theta_{s,eq}$	0.4495	$0.4497^{+0.0071}_{-0.0069}$			
$\Omega_m h^3$	0.0981	$0.0981^{+0.0070}_{-0.0060}$	$H(0.15)$	73.46	$73.5^{+2.3}_{-2.1}$			

Best-fit $\chi_{\text{eff}}^2 = 2771.48$; $\bar{\chi}_{\text{eff}}^2 = 2798.61$; $R - 1 = 0.00736$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 4.40 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.12 plik_rd12_HM_v22b_TTTEEE: 2344.49

18.28 base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022391	$0.02239^{+0.00037}_{-0.00038}$	σ_8	0.8220	$0.821^{+0.043}_{-0.039}$	$D_M(0.15)$	634.3	634^{+24}_{-27}
$\Omega_c h^2$	0.11983	$0.1198^{+0.0028}_{-0.0028}$	S_8	0.8271	$0.826^{+0.027}_{-0.027}$	$H(0.38)$	83.14	$83.14^{+0.79}_{-0.78}$
$100\theta_{MC}$	1.04094	$1.04095^{+0.00080}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4530	$0.452^{+0.015}_{-0.015}$	$D_M(0.38)$	1518.5	1518^{+40}_{-42}
τ	0.0545	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6102	$0.609^{+0.021}_{-0.020}$	$H(0.51)$	89.69	$89.69^{+0.60}_{-0.67}$
w_0	-1.038	$-1.04^{+0.12}_{-0.15}$	$\sigma_8/h^{0.5}$	0.9926	$0.991^{+0.031}_{-0.030}$	$D_M(0.51)$	1970.0	1970^{+42}_{-43}
$\ln(10^{10} A_s)$	3.0448	$3.044^{+0.040}_{-0.037}$	$r_{drag} h$	100.9	$101.0^{+5.7}_{-4.8}$	$H(0.61)$	95.21	$95.21^{+0.69}_{-0.87}$
n_s	0.9662	$0.966^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.447^{+0.061}_{-0.061}$	$D_M(0.61)$	2294.5	2294^{+41}_{-42}
y_{cal}	1.0006	$1.0006^{+0.0064}_{-0.0064}$	z_{re}	7.68	$7.7^{+2.0}_{-2.0}$	$H(2.33)$	235.90	$235.9^{+1.8}_{-1.8}$
A_{217}^{CIB}	46.4	47^{+20}_{-20}	$10^9 A_s$	2.100	$2.099^{+0.086}_{-0.077}$	$D_M(2.33)$	5758.1	5758^{+24}_{-23}
$\xi^{tSZ \times CIB}$	0.58	—	$10^9 A_s e^{-2\tau}$	1.8837	$1.882^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	0.4611	$0.460^{+0.020}_{-0.019}$
A_{143}^{tSZ}	7.1	—	D_{40}	1228.7	1230^{+29}_{-29}	$\sigma_8(0.15)$	0.7601	$0.759^{+0.042}_{-0.037}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5735	5736^{+100}_{-100}	$f\sigma_8(0.38)$	0.4829	$0.482^{+0.030}_{-0.026}$
A_{143}^{PS}	50.1	46^{+20}_{-20}	D_{810}	2541.3	2539^{+34}_{-35}	$\sigma_8(0.38)$	0.6739	$0.673^{+0.037}_{-0.034}$
$A_{143 \times 217}^{PS}$	51.5	42^{+20}_{-20}	D_{1420}	818.4	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4824	$0.482^{+0.033}_{-0.029}$
A_{217}^{PS}	121.4	115^{+20}_{-30}	D_{2000}	231.32	$231.0^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	0.6306	$0.630^{+0.035}_{-0.031}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9662	$0.966^{+0.010}_{-0.011}$	$f\sigma_8(0.61)$	0.4777	$0.477^{+0.033}_{-0.029}$
A_{100}^{dustTT}	8.80	$8.9^{+4.8}_{-4.6}$	Y_P	0.245404	$0.24540^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5999	$0.599^{+0.032}_{-0.030}$
A_{143}^{dustTT}	11.00	$10.9^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246730	$0.24673^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	0.3025	$0.302^{+0.016}_{-0.015}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.4}_{-8.4}$	$10^5 D/H$	2.582	$2.582^{+0.071}_{-0.067}$	$\sigma_8(2.33)$	0.3109	$0.311^{+0.014}_{-0.013}$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	Age/Gyr	13.771	$13.771^{+0.079}_{-0.078}$	f_{2000}^{143}	28.9	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.097}$	z_*	1089.88	$1089.87^{+0.63}_{-0.60}$	$f_{2000}^{143 \times 217}$	32.09	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.078}_{-0.074}$	r_*	144.46	$144.48^{+0.63}_{-0.64}$	f_{2000}^{217}	106.64	$107.0^{+4.5}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	1.04112	$1.04113^{+0.00080}_{-0.00077}$	$\chi^2_{lensing}$	8.75	$9.16 (\nu: 0.2)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.877^{+0.060}_{-0.060}$	χ^2_{small}	396	$226 (\nu: 17328.9)$
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.21}_{-0.21}$	z_{drag}	1059.97	$1059.97^{+0.76}_{-0.80}$	χ^2_{lowl}	23	$194 (\nu: 17321.2)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.72}$	r_{drag}	147.11	$147.13^{+0.65}_{-0.64}$	χ^2_{plik}	2344.6	$2359.2 (\nu: 16.6)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14086	$0.14084^{+0.00077}_{-0.00075}$	χ^2_{6DF}	0.00	$0.9 (\nu: 0.6)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160737	$0.16074^{+0.00047}_{-0.00045}$	χ^2_{MGS}	1.75	$1.1 (\nu: 0.7)$
H_0	68.58	$68.6^{+3.9}_{-3.3}$	z_{eq}	3399	3397^{+63}_{-62}	$\chi^2_{DR12BAO}$	4.32	$5.1 (\nu: 0.8)$
Ω_Λ	0.6962	$0.696^{+0.032}_{-0.030}$	k_{eq}	0.010373	$0.01037^{+0.00019}_{-0.00019}$	χ^2_{prior}	1.6	$11.5 (\nu: 9.9)$
Ω_m	0.3038	$0.304^{+0.030}_{-0.032}$	$100\theta_{eq}$	0.8140	$0.814^{+0.012}_{-0.012}$	χ^2_{CMB}	2772.5	$2788.7 (\nu: 17.5)$
$\Omega_m h^2$	0.14286	$0.1428^{+0.0027}_{-0.0026}$	$100\theta_{s,eq}$	0.4497	$0.4499^{+0.0061}_{-0.0060}$	χ^2_{BAO}	6.07	$7.1 (\nu: 1.3)$
$\Omega_m h^3$	0.0980	$0.0980^{+0.0063}_{-0.0053}$	$H(0.15)$	73.46	$73.5^{+2.3}_{-2.0}$			

Best-fit $\chi^2_{eff} = 2780.22$; $\bar{\chi}^2_{eff} = 2807.23$; $R - 1 = 0.01456$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 4.32 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.75 small_100x143.offlike5_EE_Aplanck_B: 396.04 commander_dx12.v3.2.29: 23.15 plik_rd12_HM_v22b_TTTEEE: 2344.57

18.29 base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00037}_{-0.00038}$	σ_8	$0.823^{+0.054}_{-0.048}$	$D_M(0.15)$	634^{+26}_{-27}
$\Omega_c h^2$	$0.1198^{+0.0032}_{-0.0032}$	S_8	$0.828^{+0.033}_{-0.033}$	$H(0.38)$	$83.12^{+0.80}_{-0.78}$
$100\theta_{MC}$	$1.04095^{+0.00080}_{-0.00078}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.018}_{-0.018}$	$D_M(0.38)$	1519^{+41}_{-43}
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.611^{+0.027}_{-0.027}$	$H(0.51)$	$89.67^{+0.66}_{-0.75}$
w_0	$-1.04^{+0.14}_{-0.16}$	$\sigma_8/h^{0.5}$	$0.993^{+0.040}_{-0.039}$	$D_M(0.51)$	1970^{+43}_{-44}
$\ln(10^{10} A_s)$	$3.046^{+0.042}_{-0.031}$	$r_{\text{drag}} h$	$100.9^{+5.8}_{-5.0}$	$H(0.61)$	$95.19^{+0.77}_{-0.99}$
n_s	$0.966^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.077}_{-0.081}$	$D_M(0.61)$	2295^{+43}_{-43}
y_{cal}	$1.0006^{+0.0064}_{-0.0067}$	z_{re}	< 9.54	$H(2.33)$	$235.9^{+1.8}_{-1.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.089}_{-0.065}$	$D_M(2.33)$	5759^{+24}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.883^{+0.029}_{-0.031}$	$f\sigma_8(0.15)$	$0.462^{+0.025}_{-0.024}$
A_{143}^{tSZ}	$5.5^{+4.2}_{-4.9}$	D_{40}	1230^{+32}_{-32}	$\sigma_8(0.15)$	$0.761^{+0.051}_{-0.046}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5734^{+100}_{-100}	$f\sigma_8(0.38)$	$0.483^{+0.037}_{-0.033}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+34}_{-36}	$\sigma_8(0.38)$	$0.675^{+0.046}_{-0.041}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.483^{+0.040}_{-0.036}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.0^{+4.1}_{-4.1}$	$\sigma_8(0.51)$	$0.631^{+0.042}_{-0.038}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.478^{+0.041}_{-0.036}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	Y_P	$0.24540^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.600^{+0.040}_{-0.036}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.4}$	Y_P^{BBN}	$0.24673^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	$0.303^{+0.020}_{-0.018}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.6}_{-8.4}$	10^5D/H	$2.583^{+0.072}_{-0.067}$	$\sigma_8(2.33)$	$0.311^{+0.017}_{-0.015}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.772^{+0.082}_{-0.080}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.115^{+0.098}_{-0.096}$	z_*	$1089.89^{+0.69}_{-0.64}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.077}_{-0.072}$	r_*	$144.46^{+0.72}_{-0.70}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04114^{+0.00080}_{-0.00077}$	χ_{simall}^2	$397.1 (\nu: 1.9)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.875^{+0.068}_{-0.067}$	χ_{lowl}^2	$23.36 (\nu: 0.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.96^{+0.77}_{-0.79}$	χ_{plik}^2	$2359.2 (\nu: 17.5)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.70}$	r_{drag}	$147.12^{+0.72}_{-0.70}$	$\chi_{6\text{DF}}^2$	$0.13 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14085^{+0.00078}_{-0.00079}$	χ_{MGS}^2	$1.88 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16075^{+0.00046}_{-0.00045}$	χ_{DR12BAO}^2	$5.1 (\nu: 0.9)$
H_0	$68.6^{+4.1}_{-3.5}$	z_{eq}	3399^{+73}_{-72}	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_Λ	$0.696^{+0.032}_{-0.030}$	k_{eq}	$0.01037^{+0.00022}_{-0.00022}$	χ_{BAO}^2	$7.2 (\nu: 1.4)$
Ω_m	$0.304^{+0.030}_{-0.032}$	$100\theta_{\text{eq}}$	$0.814^{+0.014}_{-0.013}$	χ_{CMB}^2	$2779.7 (\nu: 17.1)$
$\Omega_m h^2$	$0.1429^{+0.0031}_{-0.0030}$	$100\theta_{s,\text{eq}}$	$0.4497^{+0.0071}_{-0.0069}$		
$\Omega_m h^3$	$0.0980^{+0.0070}_{-0.0059}$	$H(0.15)$	$73.5^{+2.3}_{-2.1}$		

$$\bar{\chi}_{\text{eff}}^2 = 2798.36; R - 1 = 0.00833$$

18.30 base_w_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00037}_{-0.00037}$	σ_8	$0.821^{+0.043}_{-0.039}$	$D_{\mathrm{M}}(0.15)$	634^{+24}_{-27}
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0028}_{-0.0028}$	S_8	$0.826^{+0.027}_{-0.027}$	$H(0.38)$	$83.14^{+0.79}_{-0.78}$
$100\theta_{\mathrm{MC}}$	$1.04096^{+0.00080}_{-0.00079}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.38)$	1519^{+39}_{-42}
τ	$0.055^{+0.018}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.021}_{-0.020}$	$H(0.51)$	$89.70^{+0.60}_{-0.66}$
w_0	$-1.04^{+0.12}_{-0.14}$	$\sigma_8/h^{0.5}$	$0.991^{+0.031}_{-0.030}$	$D_{\mathrm{M}}(0.51)$	1970^{+41}_{-43}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.039}_{-0.029}$	$r_{\mathrm{drag}}h$	$100.9^{+5.7}_{-4.8}$	$H(0.61)$	$95.22^{+0.68}_{-0.84}$
n_{s}	$0.966^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.060}_{-0.060}$	$D_{\mathrm{M}}(0.61)$	2295^{+41}_{-42}
y_{cal}	$1.0006^{+0.0064}_{-0.0064}$	z_{re}	< 9.44	$H(2.33)$	$235.9^{+1.8}_{-1.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.103^{+0.084}_{-0.060}$	$D_{\mathrm{M}}(2.33)$	5758^{+24}_{-23}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	$0.460^{+0.020}_{-0.019}$
A_{143}^{tSZ}	—	D_{40}	1230^{+30}_{-29}	$\sigma_8(0.15)$	$0.759^{+0.041}_{-0.038}$
A_{100}^{PS}	259^{+70}_{-70}	D_{220}	5736^{+99}_{-100}	$f\sigma_8(0.38)$	$0.482^{+0.030}_{-0.027}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+34}_{-35}	$\sigma_8(0.38)$	$0.673^{+0.037}_{-0.034}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.482^{+0.032}_{-0.029}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.0^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	$0.630^{+0.034}_{-0.032}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.011}$	$f\sigma_8(0.61)$	$0.477^{+0.033}_{-0.029}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.6}$	Y_{P}	$0.24540^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	$0.599^{+0.032}_{-0.030}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.5}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.302^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.3}_{-8.4}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.581^{+0.071}_{-0.067}$	$\sigma_8(2.33)$	$0.311^{+0.014}_{-0.013}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.771^{+0.079}_{-0.078}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.10}_{-0.096}$	z_*	$1089.86^{+0.63}_{-0.59}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.078}_{-0.074}$	r_*	$144.49^{+0.62}_{-0.63}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.5}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.21}$	$100\theta_*$	$1.04114^{+0.00080}_{-0.00077}$	$\chi_{\mathrm{lensing}}^2$	$9.15 (\nu: 0.2)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.878^{+0.059}_{-0.060}$	χ_{simall}^2	$227 (\nu: 17317.2)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1059.98^{+0.76}_{-0.81}$	χ_{lowl}^2	$193 (\nu: 17309.2)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.69}_{-0.70}$	r_{drag}	$147.14^{+0.64}_{-0.63}$	χ_{plik}^2	$2359.1 (\nu: 16.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14084^{+0.00076}_{-0.00074}$	$\chi_{6\mathrm{DF}}^2$	$0.9 (\nu: 0.6)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00047}_{-0.00045}$	χ_{MGS}^2	$1.1 (\nu: 0.7)$
H_0	$68.6^{+3.9}_{-3.3}$	z_{eq}	3396^{+62}_{-62}	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 (\nu: 0.8)$
Ω_{Λ}	$0.696^{+0.031}_{-0.030}$	k_{eq}	$0.01036^{+0.00019}_{-0.00019}$	χ_{prior}^2	$11.5 (\nu: 9.8)$
Ω_{m}	$0.304^{+0.030}_{-0.031}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.012}$	χ_{CMB}^2	$2788.5 (\nu: 17.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0026}_{-0.0026}$	$100\theta_{\mathrm{s,eq}}$	$0.4500^{+0.0060}_{-0.0059}$	χ_{BAO}^2	$7.0 (\nu: 1.3)$
$\Omega_{\mathrm{m}}h^3$	$0.0979^{+0.0061}_{-0.0053}$	$H(0.15)$	$73.5^{+2.3}_{-2.0}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.01; R - 1 = 0.01536$$

18.31 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022331	$0.02232^{+0.00039}_{-0.00040} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4490	$0.449^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	83.11	$83.08^{+0.83}_{-0.80} \quad (-0.1\sigma)$
$\Omega_c h^2$	0.11915	$0.1193^{+0.0033}_{-0.0033} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6039	$0.605^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$D_M(0.38)$	1522.4	$1522^{+42}_{-46} \quad (+0.2\sigma)$
$100\theta_{MC}$	1.04092	$1.04092^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9835	$0.984^{+0.042}_{-0.040} \quad (-0.5\sigma)$	$H(0.51)$	89.72	$89.68^{+0.66}_{-0.74} \quad (+0.1\sigma)$
τ	0.0534	$0.053^{+0.022}_{-0.021} \quad (-0.2\sigma)$	$r_{drag}h$	100.5	$100.6^{+6.2}_{-4.9} \quad (-0.2\sigma)$	$D_M(0.51)$	1973.9	$1974^{+44}_{-47} \quad (+0.2\sigma)$
w_0	-1.019	$-1.02^{+0.13}_{-0.17} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.430	$2.431^{+0.085}_{-0.083} \quad (-0.6\sigma)$	$H(0.61)$	95.27	$95.22^{+0.77}_{-0.99} \quad (+0.1\sigma)$
$\ln(10^{10} A_s)$	3.0385	$3.038^{+0.044}_{-0.043} \quad (-0.4\sigma)$	z_{re}	7.58	$7.5^{+2.1}_{-2.3} \quad (-0.2\sigma)$	$D_M(0.61)$	2298.3	$2298^{+44}_{-47} \quad (+0.2\sigma)$
n_s	0.9669	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_s$	2.087	$2.087^{+0.094}_{-0.088} \quad (-0.4\sigma)$	$H(2.33)$	235.67	$235.7^{+1.9}_{-1.9} \quad (-0.3\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0068}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8758	$1.877^{+0.031}_{-0.029} \quad (-0.5\sigma)$	$D_M(2.33)$	5761.2	$5762^{+24}_{-24} \quad (+0.4\sigma)$
A_{100}^{PS}	241	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.2	$1224^{+33}_{-31} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4555	$0.456^{+0.027}_{-0.024} \quad (-0.5\sigma)$
A_{143}^{PS}	42.1	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5719	$5719^{+110}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7510	$0.752^{+0.053}_{-0.045} \quad (-0.4\sigma)$
A_{217}^{PS}	102.2	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	2533.6	$2535^{+38}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4759	$0.477^{+0.039}_{-0.032} \quad (-0.5\sigma)$
A_{217}^{CIB}	39.1	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	815.6	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6660	$0.667^{+0.048}_{-0.041} \quad (-0.4\sigma)$
A_{143}^{tSZ}	3.40	$< 8.84 \quad (-0.8\sigma)$	D_{2000}	230.26	$230.3^{+4.3}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4752	$0.476^{+0.041}_{-0.035} \quad (-0.4\sigma)$
$r_{143 \times 217}^{PS}$	0.669	$0.66^{+0.31}_{-0.33}$	$n_{s,0.002}$	0.9669	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	0.6233	$0.624^{+0.044}_{-0.038} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.61	—	Y_P	0.245380	$0.24537^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	0.4705	$0.472^{+0.042}_{-0.035} \quad (-0.4\sigma)$
$\xi^{tSZ \times CIB}$	0.69	—	Y_P^{BBN}	0.246706	$0.24670^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.5931	$0.594^{+0.041}_{-0.035} \quad (-0.4\sigma)$
A^{kSZ}	5.2	—	$10^5 D/H$	2.593	$2.596^{+0.076}_{-0.071} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	0.2992	$0.300^{+0.021}_{-0.018} \quad (-0.4\sigma)$
A_{100}^{dust}	1.02	$1.01^{+0.52}_{-0.50}$	Age/Gyr	13.786	$13.786^{+0.084}_{-0.086} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3080	$0.308^{+0.018}_{-0.015} \quad (-0.4\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.45}_{-0.46}$	z_*	1089.89	$1089.92^{+0.68}_{-0.68} \quad (+0.1\sigma)$	f_{2000}^{143}	29.9	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.983	$0.97^{+0.27}_{-0.26}$	r_*	144.68	$144.66^{+0.78}_{-0.75} \quad (+0.7\sigma)$	f_{2000}^{217}	106.82	$106.8^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.024	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	1.04111	$1.04111^{+0.00078}_{-0.00079} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99750	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.897	$13.895^{+0.073}_{-0.070} \quad (+0.8\sigma)$	χ_{small}^2	395.90	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	1.00129	$1.0011^{+0.0039}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	1059.78	$1059.76^{+0.86}_{-0.86} \quad (-0.6\sigma)$	χ_{lowl}^2	22.84	$22.91 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{TE}	0.9965	$0.997^{+0.013}_{-0.012}$	r_{drag}	147.36	$147.35^{+0.79}_{-0.77} \quad (+0.8\sigma)$	χ_{CamSpec}^2	11499.9	$11514.7 \quad (\nu: 16.5)$
c_{EE}	0.9920	$0.992^{+0.013}_{-0.013}$	k_D	0.14055	$0.14056^{+0.00090}_{-0.00088} \quad (-1.0\sigma)$	χ_{6DF}^2	0.001	$0.13 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	68.20	$68.3^{+4.3}_{-3.4} \quad (-0.2\sigma)$	$100\theta_D$	0.16084	$0.16085^{+0.00051}_{-0.00049} \quad (+0.6\sigma)$	χ_{MGS}^2	1.61	$1.78 \quad (\nu: 0.5) \quad (-0.1\sigma)$
Ω_Λ	0.6944	$0.695^{+0.034}_{-0.032} \quad (-0.1\sigma)$	z_{eq}	3381	$3383^{+75}_{-74} \quad (-0.6\sigma)$	$\chi_{DR12BAO}^2$	4.04	$4.9 \quad (\nu: 1.0) \quad (-0.2\sigma)$
Ω_m	0.3056	$0.305^{+0.032}_{-0.034} \quad (+0.1\sigma)$	k_{eq}	0.010319	$0.01033^{+0.00023}_{-0.00023} \quad (-0.6\sigma)$	χ_{prior}^2	2.4	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.14213	$0.1422^{+0.0032}_{-0.0031} \quad (-0.6\sigma)$	$100\theta_{eq}$	0.8170	$0.817^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{BAO}^2	5.65	$6.9 \quad (\nu: 1.5) \quad (-0.2\sigma)$
$\Omega_m h^3$	0.0969	$0.0971^{+0.0072}_{-0.0060} \quad (-0.4\sigma)$	$100\theta_{s,eq}$	0.4513	$0.4512^{+0.0073}_{-0.0072} \quad (+0.5\sigma)$	χ_{CMB}^2	11918.6	$11934.5 \quad (\nu: 16.6) \quad (+1548.0\sigma)$
σ_8	0.812	$0.814^{+0.055}_{-0.048} \quad (-0.5\sigma)$	$H(0.15)$	73.25	$73.3^{+2.5}_{-2.1} \quad (-0.2\sigma)$			
S_8	0.8198	$0.820^{+0.035}_{-0.033} \quad (-0.5\sigma)$	$D_M(0.15)$	636.9	$637^{+26}_{-29} \quad (+0.2\sigma)$			

Best-fit $\chi_{\text{eff}}^2 = 11926.60$; $\Delta\chi_{\text{eff}}^2 = 9155.12$; $\bar{\chi}_{\text{eff}}^2 = 11949.21$; $\Delta\bar{\chi}_{\text{eff}}^2 = 9150.61$; $R - 1 = 0.01464$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.61 (Δ -0.14) DR12BAO: 4.04 (Δ -0.36) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.90 (Δ -0.16) commander_dx12_v3_2_29: 22.84 (Δ -0.28) CamSpec like_10.7HM_1400_unified: 11499.85

18.32 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00037}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.09^{+0.82}_{-0.79} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1194^{+0.0029}_{-0.0029} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1520^{+41}_{-45} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00079}_{-0.00082} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$H(0.51)$	$89.66^{+0.62}_{-0.65} \quad (-0.1\sigma)$
τ	$0.054^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.8^{+6.1}_{-4.9} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+43}_{-47} \quad (+0.1\sigma)$
w_0	$-1.03^{+0.13}_{-0.16} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.062}_{-0.061} \quad (-0.4\sigma)$	$H(0.61)$	$95.18^{+0.69}_{-0.84} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.042}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$7.6^{+2.0}_{-2.1} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2297^{+43}_{-46} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.089}_{-0.076} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+2.0}_{-1.9} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0068}_{-0.0067} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.029}_{-0.028} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-24} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1226^{+30}_{-28} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.020}_{-0.019} \quad (-0.3\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+100}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.045}_{-0.038} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+36}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.480^{+0.031}_{-0.027} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.670^{+0.040}_{-0.034} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.94 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.3}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.479^{+0.033}_{-0.029} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.627^{+0.038}_{-0.032} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.035}_{-0.030} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.597^{+0.036}_{-0.030} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.596^{+0.075}_{-0.068} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.301^{+0.018}_{-0.015} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.783^{+0.081}_{-0.084} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.310^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	z_*	$1089.94^{+0.64}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.62^{+0.66}_{-0.66} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00078}_{-0.00082} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.064}_{-0.064} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.26 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0042} \quad (+4.7\sigma)$	z_{drag}	$1059.77^{+0.85}_{-0.86} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.9\sigma)$
c_{TE}	$0.997^{+0.012}_{-0.012}$	r_{drag}	$147.31^{+0.70}_{-0.69} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.05 \quad (\nu: 0.3) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.013}$	k_{D}	$0.14060^{+0.00084}_{-0.00085} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 15.4)$
H_0	$68.5^{+4.2}_{-3.4} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00052}_{-0.00048} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.13 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_{Λ}	$0.696^{+0.034}_{-0.032} \quad (-0.0\sigma)$	z_{eq}	$3387^{+65}_{-65} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.87 \quad (\nu: 0.5) \quad (+0.7\sigma)$
Ω_{m}	$0.304^{+0.032}_{-0.034} \quad (+0.0\sigma)$	k_{eq}	$0.01034^{+0.00020}_{-0.00020} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.0 \quad (\nu: 0.9) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0027}_{-0.0027} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0975^{+0.0068}_{-0.0055} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4508^{+0.0064}_{-0.0062} \quad (+0.4\sigma)$	χ_{CMB}^2	$11943.2 \quad (\nu: 16.8) \quad (+1549.6\sigma)$
σ_8	$0.817^{+0.046}_{-0.039} \quad (-0.2\sigma)$	$H(0.15)$	$73.4^{+2.4}_{-2.1} \quad (-0.1\sigma)$	χ_{BAO}^2	$7.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+25}_{-29} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.08; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.84; R - 1 = 0.01812$$

18.33 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00039}_{-0.00038} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.09^{+0.84}_{-0.79} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0033}_{-0.0033} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+42}_{-46} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00078}_{-0.00081} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.042}_{-0.039} \quad (-0.5\sigma)$	$H(0.51)$	$89.68^{+0.66}_{-0.72} \quad (+0.1\sigma)$
τ	$0.054^{+0.019}_{-0.012} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.6^{+6.3}_{-4.9} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1974^{+44}_{-48} \quad (+0.2\sigma)$
w_0	$-1.02^{+0.14}_{-0.17} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.084}_{-0.078} \quad (-0.6\sigma)$	$H(0.61)$	$95.23^{+0.76}_{-0.99} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.029} \quad (-0.4\sigma)$	z_{re}	$< 9.42 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2298^{+44}_{-47} \quad (+0.2\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.088}_{-0.061} \quad (-0.4\sigma)$	$H(2.33)$	$235.7^{+1.9}_{-1.9} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.031}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-24} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1224^{+33}_{-31} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.026}_{-0.024} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5719^{+110}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.753^{+0.053}_{-0.045} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+38}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.039}_{-0.033} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.668^{+0.047}_{-0.040} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.89 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.3}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.042}_{-0.035} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.625^{+0.044}_{-0.037} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00015}_{-0.00016} \quad (-0.4\sigma)$	$f\sigma_8(0.61)$	$0.472^{+0.043}_{-0.035} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.595^{+0.041}_{-0.035} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.595^{+0.073}_{-0.070} \quad (+0.4\sigma)$	$f\sigma_8(2.33)$	$0.300^{+0.021}_{-0.018} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.084}_{-0.087} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.309^{+0.018}_{-0.015} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	z_*	$1089.91^{+0.67}_{-0.67} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.67^{+0.78}_{-0.75} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-5.0} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	$100\theta_*$	$1.04112^{+0.00078}_{-0.00080} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.073}_{-0.069} \quad (+0.8\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	$1059.77^{+0.85}_{-0.83} \quad (-0.6\sigma)$	χ_{lowl}^2	$22.93 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.35^{+0.79}_{-0.76} \quad (+0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.5 \quad (\nu: 16.3)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14056^{+0.00088}_{-0.00088} \quad (-1.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.13 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$68.3^{+4.4}_{-3.4} \quad (-0.2\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ_{MGS}^2	$1.78 \quad (\nu: 0.5) \quad (-0.1\sigma)$
Ω_{Λ}	$0.695^{+0.034}_{-0.032} \quad (-0.1\sigma)$	z_{eq}	$3382^{+75}_{-75} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 1.0) \quad (-0.2\sigma)$
Ω_{m}	$0.305^{+0.032}_{-0.034} \quad (+0.1\sigma)$	k_{eq}	$0.01032^{+0.00023}_{-0.00023} \quad (-0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0031}_{-0.0031} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{BAO}^2	$6.8 \quad (\nu: 1.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0971^{+0.0074}_{-0.0060} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0074}_{-0.0072} \quad (+0.5\sigma)$	χ_{CMB}^2	$11934.2 \quad (\nu: 16.2) \quad (+1563.9\sigma)$
σ_8	$0.815^{+0.055}_{-0.047} \quad (-0.4\sigma)$	$H(0.15)$	$73.3^{+2.5}_{-2.1} \quad (-0.2\sigma)$		
S_8	$0.821^{+0.034}_{-0.033} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+26}_{-30} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.94; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.58; R - 1 = 0.01259$$

18.34 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00037}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.10^{+0.82}_{-0.78} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1194^{+0.0028}_{-0.0028} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1521^{+41}_{-45} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00078}_{-0.00083} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.032}_{-0.030} \quad (-0.3\sigma)$	$H(0.51)$	$89.67^{+0.62}_{-0.65} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.8^{+6.1}_{-4.9} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1972^{+44}_{-46} \quad (+0.1\sigma)$
w_0	$-1.03^{+0.13}_{-0.16} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.062}_{-0.060} \quad (-0.4\sigma)$	$H(0.61)$	$95.20^{+0.68}_{-0.86} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.041}_{-0.028} \quad (-0.2\sigma)$	z_{re}	$< 9.45 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2297^{+43}_{-46} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.087}_{-0.058} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+2.0}_{-1.9} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0068}_{-0.0067} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.029}_{-0.028} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+23}_{-24} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1226^{+30}_{-27} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.020}_{-0.019} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5722^{+100}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.046}_{-0.038} \quad (-0.2\sigma)$
A_{217}^{PS}	$103^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2535^{+36}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.031}_{-0.027} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.670^{+0.041}_{-0.034} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.3}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.479^{+0.034}_{-0.029} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.627^{+0.038}_{-0.032} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.035}_{-0.030} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.597^{+0.036}_{-0.030} \quad (-0.2\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.596^{+0.071}_{-0.067} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.301^{+0.018}_{-0.015} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.783^{+0.081}_{-0.084} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.310^{+0.015}_{-0.013} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.46}$	z_*	$1089.93^{+0.62}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	r_*	$144.63^{+0.65}_{-0.65} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$100\theta_*$	$1.04110^{+0.00078}_{-0.00082} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.063}_{-0.062} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.22 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0042} \quad (+4.7\sigma)$	z_{drag}	$1059.77^{+0.81}_{-0.83} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.9\sigma)$
c_{TE}	$0.997^{+0.012}_{-0.012}$	r_{drag}	$147.32^{+0.69}_{-0.68} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.04 \quad (\nu: 0.3) \quad (-0.9\sigma)$
c_{EE}	$0.992^{+0.014}_{-0.013}$	k_{D}	$0.14059^{+0.00083}_{-0.00085} \quad (-0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.4)$
H_0	$68.4^{+4.2}_{-3.4} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00051}_{-0.00047} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.13 \quad (\nu: 0.0) \quad (-0.7\sigma)$
Ω_{Λ}	$0.696^{+0.033}_{-0.032} \quad (-0.0\sigma)$	z_{eq}	$3386^{+64}_{-64} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.86 \quad (\nu: 0.5) \quad (+0.7\sigma)$
Ω_{m}	$0.304^{+0.032}_{-0.033} \quad (+0.0\sigma)$	k_{eq}	$0.01033^{+0.00020}_{-0.00019} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 0.9) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0027}_{-0.0027} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.1) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0974^{+0.0069}_{-0.0055} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0063}_{-0.0061} \quad (+0.4\sigma)$	χ_{CMB}^2	$11943.0 \quad (\nu: 16.6) \quad (+1560.6\sigma)$
σ_8	$0.817^{+0.047}_{-0.039} \quad (-0.2\sigma)$	$H(0.15)$	$73.4^{+2.4}_{-2.1} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.9 \quad (\nu: 1.5) \quad (-0.1\sigma)$
S_8	$0.823^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$636^{+25}_{-28} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11957.86; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.85; R - 1 = 0.01772$$

18.35 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02218^{+0.00051}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6142	$0.613^{+0.030}_{-0.029}$	$D_M(0.38)$	1507.0	1507^{+28}_{-27}
$\Omega_c h^2$	0.12001	$0.1199^{+0.0040}_{-0.0041}$	$\sigma_8/h^{0.5}$	0.9991	$0.998^{+0.043}_{-0.042}$	$H(0.51)$	89.51	$89.51^{+0.89}_{-0.94}$
$100\theta_{MC}$	1.04091	$1.0409^{+0.0011}_{-0.0011}$	$r_{drag}h$	102.71	$102.7^{+3.5}_{-3.4}$	$D_M(0.51)$	1958.9	1959^{+30}_{-30}
τ	0.0527	$0.053^{+0.023}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.454^{+0.091}_{-0.086}$	$H(0.61)$	94.90	$94.90^{+0.95}_{-1.0}$
w_0	-1.085	$-1.08^{+0.11}_{-0.12}$	z_{re}	7.55	$7.5^{+2.2}_{-2.3}$	$D_M(0.61)$	2284.3	2285^{+32}_{-31}
$\ln(10^{10} A_s)$	3.0406	$3.040^{+0.046}_{-0.043}$	$10^9 A_s$	2.092	$2.090^{+0.097}_{-0.089}$	$H(2.33)$	235.20	$235.2^{+2.0}_{-1.9}$
n_s	0.9652	$0.965^{+0.012}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8824	$1.881^{+0.033}_{-0.031}$	$D_M(2.33)$	5763.0	5764^{+31}_{-30}
α_{JLA}	0.1420	$0.142^{+0.017}_{-0.017}$	D_{40}	1227.4	1229^{+36}_{-34}	$f\sigma_8(0.15)$	0.4646	$0.464^{+0.030}_{-0.028}$
β_{JLA}	3.116	$3.12^{+0.22}_{-0.21}$	D_{220}	5715	5717^{+110}_{-100}	$\sigma_8(0.15)$	0.7723	$0.771^{+0.041}_{-0.038}$
y_{cal}	1.0004	$1.0004^{+0.0067}_{-0.0064}$	D_{810}	2537.8	2536^{+37}_{-35}	$f\sigma_8(0.38)$	0.4908	$0.490^{+0.035}_{-0.032}$
A_{217}^{CIB}	49.1	48^{+20}_{-20}	D_{1420}	816.0	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6850	$0.684^{+0.036}_{-0.033}$
$\xi^{tSZ \times CIB}$	0.25	—	D_{2000}	230.24	$229.9^{+4.7}_{-4.5}$	$f\sigma_8(0.51)$	0.4916	$0.491^{+0.035}_{-0.033}$
A_{143}^{tSZ}	7.0	—	$n_{s,0.002}$	0.9652	$0.965^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	0.6409	$0.640^{+0.033}_{-0.030}$
A_{100}^{PS}	255	263^{+70}_{-70}	Y_P	0.245323	$0.24532^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4874	$0.487^{+0.035}_{-0.032}$
A_{143}^{PS}	48.1	49^{+20}_{-20}	Y_P^{BBN}	0.246649	$0.24664^{+0.00020}_{-0.00024}$	$\sigma_8(0.61)$	0.6097	$0.609^{+0.030}_{-0.028}$
$A_{143 \times 217}^{PS}$	44.8	43^{+20}_{-20}	$10^5 D/H$	2.619	$2.621^{+0.098}_{-0.093}$	$f\sigma_8(2.33)$	0.3074	$0.307^{+0.014}_{-0.014}$
A_{217}^{PS}	118.4	115^{+30}_{-30}	Age/Gyr	13.766	$13.768^{+0.074}_{-0.072}$	$\sigma_8(2.33)$	0.3150	$0.315^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	z_*	1090.14	$1090.15^{+0.84}_{-0.82}$	f_{2000}^{143}	30.2	31^{+8}_{-7}
A_{100}^{dustTT}	8.92	$8.9^{+4.7}_{-4.7}$	r_*	144.56	$144.60^{+0.99}_{-0.98}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{143}^{dustTT}	10.76	$10.7^{+4.6}_{-4.6}$	$100\theta_*$	1.04112	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	107.53	$107.9^{+4.8}_{-4.9}$
$A_{143 \times 217}^{dustTT}$	19.1	$18.3^{+8.4}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.889^{+0.094}_{-0.093}$	χ_{small}^2	395.87	$396.9 (\nu: 1.5)$
A_{217}^{dustTT}	94.2	93^{+20}_{-20}	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$	χ_{lowl}^2	23.12	$23.3 (\nu: 0.5)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.29	$147.3^{+1.0}_{-1.0}$	χ_{plik}^2	758.6	$771.0 (\nu: 14.4)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	k_D	0.14052	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{H073p45}^2$	5.0	$5.4 (\nu: 3.2)$
H_0	69.73	$69.7^{+2.4}_{-2.3}$	$100\theta_D$	0.16100	$0.16102^{+0.00067}_{-0.00065}$	χ_{JLA}^2	696.6	$699.0 (\nu: 3.5)$
Ω_Λ	0.7063	$0.706^{+0.020}_{-0.021}$	z_{eq}	3398	3396^{+93}_{-93}	χ_{6DF}^2	0.118	$0.17 (\nu: 0.0)$
Ω_m	0.2937	$0.294^{+0.021}_{-0.020}$	k_{eq}	0.010371	$0.01036^{+0.00028}_{-0.00028}$	χ_{MGS}^2	2.67	$2.73 (\nu: 0.3)$
$\Omega_m h^2$	0.14284	$0.1427^{+0.0039}_{-0.0039}$	$100\theta_{eq}$	0.8135	$0.814^{+0.018}_{-0.017}$	$\chi_{DR12BAO}^2$	4.52	$5.1 (\nu: 0.5)$
$\Omega_m h^3$	0.09961	$0.0995^{+0.0048}_{-0.0046}$	$100\theta_{s,eq}$	0.4496	$0.4499^{+0.0091}_{-0.0087}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.8)$
σ_8	0.8343	$0.833^{+0.044}_{-0.041}$	$H(0.15)$	74.08	$74.1^{+1.4}_{-1.4}$	χ_{BAO}^2	7.31	$8.0 (\nu: 1.3)$
S_8	0.8256	$0.824^{+0.043}_{-0.041}$	$D_M(0.15)$	626.5	627^{+17}_{-16}	χ_{CMB}^2	1177.6	$1191.3 (\nu: 14.5)$
$\sigma_8 \Omega_m^{0.5}$	0.4522	$0.451^{+0.023}_{-0.022}$	$H(0.38)$	83.18	$83.17^{+0.88}_{-0.89}$			

Best-fit $\chi_{\text{eff}}^2 = 1887.89$; $\bar{\chi}_{\text{eff}}^2 = 1910.92$; $R - 1 = 0.00727$
 χ_{eff}^2 : BAO - 6DF: 0.12 MGS: 2.67 DR12BAO: 4.52 CMB - small-100x143.offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2.29: 23.12 plik_rd12_HM_v22.TT: 758.61
Hubble - H073p45: 5.01 SN - JLA December_2013: 696.56

18.36 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02220^{+0.00050}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6129	$0.612^{+0.021}_{-0.021}$	$D_M(0.38)$	1506.3	1507^{+28}_{-27}
$\Omega_c h^2$	0.11977	$0.1197^{+0.0032}_{-0.0033}$	$\sigma_8/h^{0.5}$	0.9973	$0.996^{+0.030}_{-0.030}$	$H(0.51)$	89.55	$89.54^{+0.76}_{-0.83}$
$100\theta_{MC}$	1.04085	$1.0409^{+0.0011}_{-0.0011}$	$r_{drag}h$	102.79	$102.7^{+3.4}_{-3.4}$	$D_M(0.51)$	1958.0	1959^{+31}_{-30}
τ	0.0529	$0.052^{+0.022}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.451	$2.450^{+0.063}_{-0.064}$	$H(0.61)$	94.93	$94.93^{+0.84}_{-0.89}$
w_0	-1.083	$-1.081^{+0.099}_{-0.10}$	z_{re}	7.55	$7.5^{+2.1}_{-2.2}$	$D_M(0.61)$	2283.2	2284^{+31}_{-30}
$\ln(10^{10} A_s)$	3.0404	$3.039^{+0.040}_{-0.040}$	$10^9 A_s$	2.091	$2.089^{+0.086}_{-0.081}$	$H(2.33)$	235.07	$235.1^{+1.8}_{-1.8}$
n_s	0.9656	$0.965^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8815	$1.880^{+0.028}_{-0.028}$	$D_M(2.33)$	5762.6	5763^{+30}_{-28}
y_{cal}	1.0005	$1.0004^{+0.0066}_{-0.0062}$	D_{40}	1226.7	1229^{+31}_{-31}	$f\sigma_8(0.15)$	0.4632	$0.463^{+0.021}_{-0.021}$
α_{JLA}	0.1421	$0.142^{+0.017}_{-0.017}$	D_{220}	5717	5719^{+110}_{-100}	$\sigma_8(0.15)$	0.7711	$0.770^{+0.031}_{-0.030}$
β_{JLA}	3.113	$3.12^{+0.22}_{-0.22}$	D_{810}	2537.7	2536^{+35}_{-34}	$f\sigma_8(0.38)$	0.4895	$0.489^{+0.026}_{-0.025}$
A_{217}^{CIB}	48.3	48^{+20}_{-20}	D_{1420}	816.1	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6842	$0.683^{+0.027}_{-0.027}$
$\xi^{tSZ \times CIB}$	0.37	—	D_{2000}	230.26	$229.8^{+4.6}_{-4.6}$	$f\sigma_8(0.51)$	0.4904	$0.489^{+0.027}_{-0.026}$
A_{143}^{tSZ}	7.1	—	$n_{s,0.002}$	0.9656	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	0.6402	$0.639^{+0.025}_{-0.025}$
A_{100}^{PS}	253	263^{+70}_{-70}	Y_P	0.245330	$0.24532^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4863	$0.485^{+0.027}_{-0.026}$
A_{143}^{PS}	49.7	49^{+20}_{-20}	Y_P^{BBN}	0.246656	$0.24665^{+0.00020}_{-0.00024}$	$\sigma_8(0.61)$	0.6090	$0.608^{+0.023}_{-0.023}$
$A_{143 \times 217}^{PS}$	48.0	43^{+20}_{-20}	$10^5 D/H$	2.616	$2.619^{+0.098}_{-0.092}$	$f\sigma_8(2.33)$	0.3071	$0.307^{+0.011}_{-0.011}$
A_{217}^{PS}	119.7	115^{+30}_{-30}	Age/Gyr	13.765	$13.767^{+0.074}_{-0.071}$	$\sigma_8(2.33)$	0.3147	$0.314^{+0.010}_{-0.0098}$
A^{kSZ}	0.0	—	z_*	1090.10	$1090.12^{+0.80}_{-0.76}$	f_{2000}^{143}	30.1	31^{+7}_{-8}
A_{100}^{dustTT}	8.84	$8.9^{+4.7}_{-4.7}$	r_*	144.61	$144.63^{+0.83}_{-0.79}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{143}^{dustTT}	10.75	$10.7^{+4.5}_{-4.5}$	$100\theta_*$	1.04106	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	107.47	$107.9^{+4.7}_{-4.9}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.2}_{-8.7}$	$D_M(z_*)/\text{Gpc}$	13.891	$13.892^{+0.080}_{-0.077}$	$\chi^2_{lensing}$	8.72	$9.22 (\nu: 0.3)$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ^2_{small}	395.86	$396.8 (\nu: 1.3)$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.33	$147.36^{+0.90}_{-0.85}$	χ^2_{lowl}	23.06	$23.27 (\nu: 0.4)$
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	k_D	0.14049	$0.1405^{+0.0011}_{-0.0011}$	χ^2_{plik}	758.8	$770.9 (\nu: 13.7)$
H_0	69.77	$69.7^{+2.4}_{-2.4}$	$100\theta_D$	0.16098	$0.16101^{+0.00067}_{-0.00066}$	$\chi^2_{H073p45}$	4.9	$5.4 (\nu: 3.1)$
Ω_Λ	0.7070	$0.707^{+0.020}_{-0.021}$	z_{eq}	3393	3392^{+74}_{-76}	χ^2_{JLA}	696.6	$698.9 (\nu: 3.3)$
Ω_m	0.2930	$0.293^{+0.021}_{-0.020}$	k_{eq}	0.010355	$0.01035^{+0.00023}_{-0.00023}$	χ^2_{6DF}	0.131	$0.18 (\nu: 0.0)$
$\Omega_m h^2$	0.14262	$0.1426^{+0.0031}_{-0.0032}$	$100\theta_{eq}$	0.8145	$0.815^{+0.014}_{-0.014}$	χ^2_{MGS}	2.76	$2.77 (\nu: 0.3)$
$\Omega_m h^3$	0.09951	$0.0994^{+0.0043}_{-0.0042}$	$100\theta_{s,eq}$	0.4501	$0.4502^{+0.0074}_{-0.0070}$	$\chi^2_{DR12BAO}$	4.50	$4.96 (\nu: 0.4)$
σ_8	0.8330	$0.832^{+0.033}_{-0.032}$	$H(0.15)$	74.12	$74.1^{+1.5}_{-1.5}$	χ^2_{prior}	1.3	$7.2 (\nu: 6.5)$
S_8	0.8232	$0.822^{+0.031}_{-0.030}$	$D_M(0.15)$	626.2	627^{+17}_{-16}	χ^2_{CMB}	1186.4	$1200.3 (\nu: 14.8)$
$\sigma_8 \Omega_m^{0.5}$	0.4509	$0.450^{+0.017}_{-0.017}$	$H(0.38)$	83.22	$83.21^{+0.81}_{-0.81}$	χ^2_{BAO}	7.38	$7.9 (\nu: 1.3)$

Best-fit $\chi^2_{eff} = 1896.64$; $\bar{\chi}^2_{eff} = 1919.63$; $R - 1 = 0.00916$
 χ^2_{eff} : BAO - 6DF: 0.13 MGS: 2.76 DR12BAO: 4.50 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.72 small_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3_2_29: 23.05 plik_rd12_HM_v22_TT: 758.81 Hubble - H073p45: 4.92 SN - JLA December_2013: 696.55

18.37 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00051}_{-0.00050}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(0.38)$	1507^{+28}_{-27}
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0040}_{-0.0040}$	$\sigma_8/h^{0.5}$	$0.999^{+0.043}_{-0.042}$	$H(0.51)$	$89.52^{+0.88}_{-0.93}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}}h$	$102.7^{+3.5}_{-3.4}$	$D_{\mathrm{M}}(0.51)$	1959^{+31}_{-29}
τ	$0.054^{+0.019}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.456^{+0.090}_{-0.087}$	$H(0.61)$	$94.91^{+0.95}_{-1.0}$
w_0	$-1.08^{+0.11}_{-0.12}$	z_{re}	< 9.51	$D_{\mathrm{M}}(0.61)$	2285^{+31}_{-30}
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.044}_{-0.029}$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.093}_{-0.061}$	$H(2.33)$	$235.2^{+2.1}_{-1.9}$
n_{s}	$0.965^{+0.012}_{-0.012}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.881^{+0.034}_{-0.031}$	$D_{\mathrm{M}}(2.33)$	5763^{+31}_{-30}
α_{JLA}	$0.142^{+0.017}_{-0.017}$	D_{40}	1229^{+37}_{-34}	$f\sigma_8(0.15)$	$0.464^{+0.029}_{-0.028}$
β_{JLA}	$3.12^{+0.22}_{-0.21}$	D_{220}	5717^{+110}_{-110}	$\sigma_8(0.15)$	$0.772^{+0.041}_{-0.038}$
y_{cal}	$1.0004^{+0.0068}_{-0.0064}$	D_{810}	2536^{+37}_{-35}	$f\sigma_8(0.38)$	$0.490^{+0.035}_{-0.033}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.685^{+0.035}_{-0.033}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{2000}	$229.9^{+4.8}_{-4.5}$	$f\sigma_8(0.51)$	$0.491^{+0.036}_{-0.033}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	$0.641^{+0.032}_{-0.030}$
A_{100}^{PS}	262^{+70}_{-70}	Y_{P}	$0.24532^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.487^{+0.035}_{-0.033}$
A_{143}^{PS}	48^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00020}_{-0.00024}$	$\sigma_8(0.61)$	$0.609^{+0.030}_{-0.028}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.620^{+0.098}_{-0.093}$	$f\sigma_8(2.33)$	$0.307^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.767^{+0.074}_{-0.071}$	$\sigma_8(2.33)$	$0.315^{+0.012}_{-0.011}$
A^{kSZ}	—	z_*	$1090.14^{+0.84}_{-0.82}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	r_*	$144.61^{+0.98}_{-0.98}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.9}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.3^{+8.4}_{-8.7}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.094}_{-0.093}$	χ_{simall}^2	$396.8\ (\nu: 1.5)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{lowl}^2	$23.3\ (\nu: 0.5)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.3^{+1.0}_{-1.0}$	χ_{plik}^2	$770.9\ (\nu: 14.2)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{\mathrm{H073p45}}^2$	$5.4\ (\nu: 3.2)$
H_0	$69.7^{+2.4}_{-2.3}$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00066}_{-0.00065}$	χ_{JLA}^2	$698.9\ (\nu: 3.5)$
Ω_{Λ}	$0.706^{+0.020}_{-0.021}$	z_{eq}	3395^{+94}_{-92}	$\chi_{6\mathrm{DF}}^2$	$0.17\ (\nu: 0.0)$
Ω_{m}	$0.294^{+0.021}_{-0.020}$	k_{eq}	$0.01036^{+0.00029}_{-0.00028}$	χ_{MGS}^2	$2.74\ (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0039}_{-0.0039}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.018}_{-0.017}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.1\ (\nu: 0.5)$
$\Omega_{\mathrm{m}}h^3$	$0.0995^{+0.0049}_{-0.0046}$	$100\theta_{\mathrm{s,eq}}$	$0.4500^{+0.0090}_{-0.0088}$	χ_{prior}^2	$7.3\ (\nu: 6.8)$
σ_8	$0.834^{+0.044}_{-0.041}$	$H(0.15)$	$74.1^{+1.4}_{-1.5}$	χ_{BAO}^2	$8.0\ (\nu: 1.3)$
S_8	$0.825^{+0.042}_{-0.041}$	$D_{\mathrm{M}}(0.15)$	627^{+17}_{-16}	χ_{CMB}^2	$1191.0\ (\nu: 14.2)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.023}_{-0.023}$	$H(0.38)$	$83.19^{+0.88}_{-0.89}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1910.63; R - 1 = 0.00797$$

18.38 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02220^{+0.00051}_{-0.00050}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1507^{+28}_{-27}
$\Omega_{\mathrm{c}}h^2$	$0.1196^{+0.0032}_{-0.0032}$	$\sigma_8/h^{0.5}$	$0.996^{+0.030}_{-0.030}$	$H(0.51)$	$89.56^{+0.75}_{-0.81}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}}h$	$102.7^{+3.4}_{-3.4}$	$D_{\mathrm{M}}(0.51)$	1959^{+31}_{-29}
τ	$0.054^{+0.019}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.063}_{-0.063}$	$H(0.61)$	$94.95^{+0.82}_{-0.87}$
w_0	$-1.079^{+0.098}_{-0.10}$	z_{re}	< 9.39	$D_{\mathrm{M}}(0.61)$	2284^{+31}_{-29}
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.038}_{-0.027}$	$10^9 A_{\mathrm{s}}$	$2.094^{+0.081}_{-0.056}$	$H(2.33)$	$235.1^{+1.8}_{-1.7}$
n_{s}	$0.965^{+0.011}_{-0.011}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.028}_{-0.028}$	$D_{\mathrm{M}}(2.33)$	5762^{+30}_{-28}
y_{cal}	$1.0004^{+0.0066}_{-0.0062}$	D_{40}	1228^{+32}_{-31}	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
α_{JLA}	$0.142^{+0.017}_{-0.017}$	D_{220}	5719^{+110}_{-110}	$\sigma_8(0.15)$	$0.770^{+0.031}_{-0.031}$
β_{JLA}	$3.12^{+0.22}_{-0.22}$	D_{810}	2535^{+35}_{-35}	$f\sigma_8(0.38)$	$0.489^{+0.026}_{-0.025}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.683^{+0.027}_{-0.027}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{2000}	$229.9^{+4.5}_{-4.6}$	$f\sigma_8(0.51)$	$0.489^{+0.027}_{-0.026}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.639^{+0.025}_{-0.025}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24532^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.485^{+0.027}_{-0.026}$
A_{143}^{PS}	48^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00024}$	$\sigma_8(0.61)$	$0.608^{+0.023}_{-0.023}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.618^{+0.097}_{-0.092}$	$f\sigma_8(2.33)$	$0.307^{+0.012}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.767^{+0.075}_{-0.070}$	$\sigma_8(2.33)$	$0.314^{+0.010}_{-0.0095}$
A^{kSZ}	—	z_*	$1090.10^{+0.79}_{-0.75}$	f_{2000}^{143}	31^{+7}_{-8}
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.7}$	r_*	$144.65^{+0.83}_{-0.79}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-4.5}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$107.9^{+4.7}_{-4.9}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.3^{+8.3}_{-8.8}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.894^{+0.079}_{-0.076}$	$\chi_{\mathrm{lensing}}^2$	$9.20 (\nu: 0.3)$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.7 (\nu: 1.3)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.38^{+0.90}_{-0.85}$	χ_{lowl}^2	$23.26 (\nu: 0.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1404^{+0.0011}_{-0.0011}$	χ_{plik}^2	$770.8 (\nu: 13.7)$
H_0	$69.7^{+2.4}_{-2.4}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00068}_{-0.00067}$	$\chi_{\mathrm{H073p45}}^2$	$5.4 (\nu: 3.1)$
Ω_{Λ}	$0.707^{+0.020}_{-0.021}$	z_{eq}	3389^{+74}_{-75}	χ_{JLA}^2	$698.8 (\nu: 3.3)$
Ω_{m}	$0.293^{+0.021}_{-0.020}$	k_{eq}	$0.01035^{+0.00022}_{-0.00023}$	$\chi_{6\mathrm{DF}}^2$	$0.18 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1425^{+0.0031}_{-0.0031}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.013}$	χ_{MGS}^2	$2.78 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.0993^{+0.0043}_{-0.0042}$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0073}_{-0.0069}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.92 (\nu: 0.4)$
σ_8	$0.832^{+0.033}_{-0.032}$	$H(0.15)$	$74.1^{+1.4}_{-1.5}$	χ_{prior}^2	$7.2 (\nu: 6.5)$
S_8	$0.822^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	627^{+17}_{-16}	χ_{CMB}^2	$1200.0 (\nu: 14.5)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.017}_{-0.017}$	$H(0.38)$	$83.23^{+0.79}_{-0.81}$	χ_{BAO}^2	$7.9 (\nu: 1.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1919.34; R - 1 = 0.00910$$

18.39 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022407	$0.02239^{+0.00037}_{-0.00036}$	$\Omega_m h^3$	0.10004	$0.0999^{+0.0043}_{-0.0041}$	$D_M(0.15)$	624.9	625^{+16}_{-16}
$\Omega_c h^2$	0.12001	$0.1199^{+0.0032}_{-0.0030}$	σ_8	0.8358	$0.834^{+0.036}_{-0.037}$	$H(0.38)$	83.37	$83.34^{+0.74}_{-0.74}$
$100\theta_{MC}$	1.04097	$1.04095^{+0.00081}_{-0.00079}$	S_8	0.8254	$0.824^{+0.035}_{-0.033}$	$D_M(0.38)$	1503.3	1504^{+27}_{-27}
τ	0.0545	$0.054^{+0.022}_{-0.021}$	$\sigma_8 \Omega_m^{0.5}$	0.4521	$0.452^{+0.019}_{-0.018}$	$H(0.51)$	89.69	$89.67^{+0.72}_{-0.74}$
w_0	-1.084	$-1.082^{+0.094}_{-0.10}$	$\sigma_8 \Omega_m^{0.25}$	0.6147	$0.614^{+0.024}_{-0.024}$	$D_M(0.51)$	1954.2	1955^{+29}_{-29}
$\ln(10^{10} A_s)$	3.0450	$3.045^{+0.044}_{-0.042}$	$\sigma_8/h^{0.5}$	0.9995	$0.998^{+0.035}_{-0.035}$	$H(0.61)$	95.08	$95.07^{+0.78}_{-0.82}$
n_s	0.9667	$0.965^{+0.010}_{-0.011}$	$r_{drag} h$	102.83	$102.8^{+3.5}_{-3.3}$	$D_M(0.61)$	2279.0	2280^{+29}_{-30}
α_{JLA}	0.1420	$0.142^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.456^{+0.073}_{-0.077}$	$H(2.33)$	235.42	$235.4^{+1.6}_{-1.6}$
β_{JLA}	3.117	$3.12^{+0.21}_{-0.21}$	z_{re}	7.68	$7.6^{+2.1}_{-2.2}$	$D_M(2.33)$	5753.2	5754^{+24}_{-24}
y_{cal}	1.0005	$1.0007^{+0.0065}_{-0.0066}$	$10^9 A_s$	2.101	$2.100^{+0.095}_{-0.086}$	$f\sigma_8(0.15)$	0.4646	$0.464^{+0.023}_{-0.022}$
A_{217}^{CIB}	45.4	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8842	$1.884^{+0.029}_{-0.031}$	$\sigma_8(0.15)$	0.7737	$0.772^{+0.033}_{-0.035}$
$\xi^{tSZ \times CIB}$	0.72	—	D_{40}	1227.0	1230^{+32}_{-32}	$f\sigma_8(0.38)$	0.4911	$0.490^{+0.028}_{-0.027}$
A_{143}^{tSZ}	7.07	$5.5^{+4.4}_{-4.6}$	D_{220}	5731	5737^{+100}_{-100}	$\sigma_8(0.38)$	0.6865	$0.685^{+0.029}_{-0.030}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{810}	2541.6	2540^{+35}_{-35}	$f\sigma_8(0.51)$	0.4920	$0.491^{+0.029}_{-0.028}$
A_{143}^{PS}	51.2	46^{+20}_{-20}	D_{1420}	818.8	818^{+12}_{-13}	$\sigma_8(0.51)$	0.6423	$0.641^{+0.027}_{-0.028}$
$A_{143 \times 217}^{PS}$	54.7	43^{+20}_{-20}	D_{2000}	231.56	$231.1^{+4.0}_{-4.1}$	$f\sigma_8(0.61)$	0.4879	$0.487^{+0.028}_{-0.028}$
A_{217}^{PS}	122.7	115^{+30}_{-30}	$n_{s,0.002}$	0.9667	$0.965^{+0.010}_{-0.011}$	$\sigma_8(0.61)$	0.6110	$0.610^{+0.025}_{-0.026}$
A^{kSZ}	0.0	—	Y_P	0.245410	$0.24540^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.3082	$0.308^{+0.012}_{-0.013}$
A_{100}^{dustTT}	8.80	$8.9^{+4.7}_{-4.7}$	Y_P^{BBN}	0.246736	$0.24673^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	0.3158	$0.315^{+0.011}_{-0.011}$
A_{143}^{dustTT}	11.08	$10.9^{+4.5}_{-4.5}$	$10^5 D/H$	2.579	$2.582^{+0.069}_{-0.066}$	f_{2000}^{143}	28.4	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	20.3	$18.6^{+8.2}_{-8.5}$	Age/Gyr	13.743	$13.747^{+0.060}_{-0.058}$	$f_{2000}^{143 \times 217}$	31.79	32^{+5}_{-5}
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	z_*	1089.87	$1089.89^{+0.62}_{-0.65}$	f_{2000}^{217}	106.31	$106.9^{+4.7}_{-4.6}$
A_{100}^{dustTE}	0.114	$0.115^{+0.099}_{-0.095}$	r_*	144.40	$144.43^{+0.69}_{-0.73}$	χ_{small}^2	396.06	397.1 (ν : 1.9)
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.076}_{-0.079}$	$100\theta_*$	1.04115	$1.04113^{+0.00081}_{-0.00078}$	χ_{lowl}^2	23.01	23.29 (ν : 0.4)
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.869	$13.873^{+0.064}_{-0.068}$	χ_{plik}^2	2344.3	2358.9 (ν : 17.3)
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	z_{drag}	1060.01	$1059.97^{+0.76}_{-0.77}$	$\chi_{H073p45}^2$	4.5	5.0 (ν : 3.1)
$A_{143 \times 217}^{dustTE}$	0.665	$0.67^{+0.21}_{-0.21}$	r_{drag}	147.05	$147.09^{+0.69}_{-0.73}$	χ_{JLA}^2	696.6	698.9 (ν : 3.3)
A_{217}^{dustTE}	2.09	$2.08^{+0.70}_{-0.67}$	k_D	0.14094	$0.14088^{+0.00082}_{-0.00076}$	χ_{6DF}^2	0.135	0.18 (ν : 0.0)
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160715	$0.16074^{+0.00044}_{-0.00044}$	χ_{MGS}^2	2.76	2.77 (ν : 0.3)
c_{217}	0.99817	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3403	3401^{+72}_{-68}	$\chi_{DR12BAO}^2$	4.54	4.98 (ν : 0.4)
H_0	69.93	$69.9^{+2.4}_{-2.3}$	k_{eq}	0.010387	$0.01038^{+0.00022}_{-0.00021}$	χ_{prior}^2	1.6	11.6 (ν : 10.2)
Ω_Λ	0.7074	$0.707^{+0.019}_{-0.021}$	$100\theta_{eq}$	0.8132	$0.814^{+0.013}_{-0.013}$	χ_{BAO}^2	7.44	7.9 (ν : 1.3)
Ω_m	0.2926	$0.293^{+0.021}_{-0.019}$	$100\theta_{s,eq}$	0.4493	$0.4495^{+0.0067}_{-0.0069}$	χ_{CMB}^2	2763.3	2779.3 (ν : 17.3)
$\Omega_m h^2$	0.14306	$0.1430^{+0.0030}_{-0.0029}$	$H(0.15)$	74.27	$74.2^{+1.5}_{-1.4}$			

Best-fit $\chi_{eff}^2 = 3473.47$; $\bar{\chi}_{eff}^2 = 3502.78$; $R - 1 = 0.01464$
 χ_{eff}^2 : BAO - 6DF: 0.14 MGS: 2.76 DR12BAO: 4.54 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.01 plik_rd12_HM_v22b_TTTEEE: 2344.29 Hubble - H073p45: 4.50 SN - JLA December_2013: 696.62

18.40 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022427	$0.02240^{+0.00036}_{-0.00035}$	$\Omega_m h^3$	0.09975	$0.0998^{+0.0039}_{-0.0038}$	$D_M(0.15)$	625.2	625^{+16}_{-16}
$\Omega_c h^2$	0.11970	$0.1197^{+0.0026}_{-0.0027}$	σ_8	0.8329	$0.832^{+0.030}_{-0.031}$	$H(0.38)$	83.41	$83.38^{+0.72}_{-0.71}$
$100\theta_{MC}$	1.04096	$1.04096^{+0.00077}_{-0.00078}$	S_8	0.8225	$0.822^{+0.028}_{-0.027}$	$D_M(0.38)$	1503.4	1504^{+27}_{-28}
τ	0.0545	$0.054^{+0.022}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4505	$0.450^{+0.015}_{-0.015}$	$H(0.51)$	89.75	$89.71^{+0.69}_{-0.65}$
w_0	-1.078	$-1.079^{+0.091}_{-0.093}$	$\sigma_8 \Omega_m^{0.25}$	0.6126	$0.612^{+0.019}_{-0.018}$	$D_M(0.51)$	1954.1	1955^{+29}_{-30}
$\ln(10^{10} A_s)$	3.0454	$3.043^{+0.042}_{-0.037}$	$\sigma_8/h^{0.5}$	0.9965	$0.996^{+0.027}_{-0.027}$	$H(0.61)$	95.14	$95.10^{+0.73}_{-0.75}$
n_s	0.9666	$0.9657^{+0.0098}_{-0.0095}$	$r_{drag} h$	102.77	$102.8^{+3.6}_{-3.3}$	$D_M(0.61)$	2278.6	2279^{+30}_{-30}
y_{cal}	1.0009	$1.0006^{+0.0064}_{-0.0067}$	$\langle d^2 \rangle^{1/2}$	2.452	$2.452^{+0.058}_{-0.057}$	$H(2.33)$	235.32	$235.3^{+1.5}_{-1.5}$
α_{JLA}	0.1420	$0.142^{+0.018}_{-0.017}$	z_{re}	7.68	$7.6^{+2.1}_{-2.1}$	$D_M(2.33)$	5752.3	5754^{+23}_{-24}
β_{JLA}	3.115	$3.12^{+0.20}_{-0.21}$	$10^9 A_s$	2.102	$2.097^{+0.089}_{-0.077}$	$f\sigma_8(0.15)$	0.4625	$0.462^{+0.018}_{-0.018}$
A_{217}^{CIB}	46.3	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8846	$1.883^{+0.028}_{-0.030}$	$\sigma_8(0.15)$	0.7711	$0.771^{+0.028}_{-0.029}$
$\xi^{tSZ \times CIB}$	0.58	—	D_{40}	1228.6	1229^{+29}_{-29}	$f\sigma_8(0.38)$	0.4887	$0.489^{+0.023}_{-0.022}$
A_{143}^{tSZ}	7.13	$5.5^{+4.4}_{-4.4}$	D_{220}	5742	5737^{+98}_{-100}	$\sigma_8(0.38)$	0.6843	$0.684^{+0.025}_{-0.026}$
A_{100}^{PS}	249	257^{+70}_{-70}	D_{810}	2543.1	2539^{+34}_{-35}	$f\sigma_8(0.51)$	0.4896	$0.489^{+0.024}_{-0.023}$
A_{143}^{PS}	49.4	46^{+20}_{-20}	D_{1420}	819.1	817^{+12}_{-13}	$\sigma_8(0.51)$	0.6404	$0.640^{+0.023}_{-0.024}$
$A_{143 \times 217}^{PS}$	51.2	42^{+20}_{-20}	D_{2000}	231.63	$231.0^{+3.9}_{-4.2}$	$f\sigma_8(0.61)$	0.4856	$0.485^{+0.024}_{-0.024}$
A_{217}^{PS}	121.3	115^{+30}_{-30}	$n_{s,0.002}$	0.9666	$0.9657^{+0.0098}_{-0.0095}$	$\sigma_8(0.61)$	0.6092	$0.609^{+0.022}_{-0.023}$
A^{kSZ}	0.0	—	Y_P	0.245418	$0.24541^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3073	$0.307^{+0.011}_{-0.011}$
A_{100}^{dustTT}	8.80	$8.9^{+4.6}_{-4.8}$	Y_P^{BBN}	0.246744	$0.24673^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	0.3151	$0.3148^{+0.0098}_{-0.010}$
A_{143}^{dustTT}	11.03	$10.9^{+4.5}_{-4.8}$	$10^5 D/H$	2.575	$2.580^{+0.066}_{-0.064}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.2}_{-8.6}$	Age/Gyr	13.743	$13.746^{+0.061}_{-0.057}$	$f_{2000}^{143 \times 217}$	31.86	32^{+5}_{-5}
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	z_*	1089.82	$1089.86^{+0.58}_{-0.62}$	f_{2000}^{217}	106.52	$106.9^{+4.9}_{-4.5}$
A_{100}^{dustTE}	0.113	$0.114^{+0.10}_{-0.093}$	r_*	144.46	$144.47^{+0.61}_{-0.63}$	$\chi^2_{lensing}$	8.71	$9.10 (\nu: 0.2)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.075}_{-0.076}$	$100\theta_*$	1.04114	$1.04114^{+0.00075}_{-0.00078}$	χ^2_{small}	396.06	$397.0 (\nu: 1.5)$
$A_{100 \times 217}^{dustTE}$	0.483	$0.48^{+0.21}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.876	$13.876^{+0.057}_{-0.060}$	χ^2_{lowl}	23.04	$23.21 (\nu: 0.3)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.13}$	z_{drag}	1060.05	$1059.99^{+0.75}_{-0.74}$	χ^2_{plik}	2344.2	$2358.8 (\nu: 17.0)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.20}_{-0.20}$	r_{drag}	147.11	$147.13^{+0.62}_{-0.65}$	$\chi^2_{H073p45}$	4.7	$5.0 (\nu: 3.0)$
A_{217}^{dustTE}	2.08	$2.09^{+0.71}_{-0.66}$	k_D	0.14089	$0.14085^{+0.00077}_{-0.00070}$	χ^2_{JLA}	696.4	$698.8 (\nu: 3.1)$
c_{100}	0.99973	$0.9997^{+0.0015}_{-0.0016}$	$100\theta_D$	0.160696	$0.16073^{+0.00044}_{-0.00044}$	χ^2_{6DF}	0.133	$0.19 (\nu: 0.0)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3396	3397^{+59}_{-60}	χ^2_{MGS}	2.76	$2.81 (\nu: 0.3)$
H_0	69.86	$69.9^{+2.4}_{-2.2}$	k_{eq}	0.010366	$0.01037^{+0.00018}_{-0.00018}$	$\chi^2_{DR12BAO}$	4.45	$4.91 (\nu: 0.4)$
Ω_Λ	0.7075	$0.707^{+0.020}_{-0.020}$	$100\theta_{eq}$	0.8145	$0.814^{+0.012}_{-0.011}$	χ^2_{prior}	1.7	$11.6 (\nu: 10.0)$
Ω_m	0.2925	$0.293^{+0.020}_{-0.020}$	$100\theta_{s,eq}$	0.4500	$0.4499^{+0.0060}_{-0.0057}$	χ^2_{CMB}	2772.0	$2788.1 (\nu: 17.7)$
$\Omega_m h^2$	0.14277	$0.1428^{+0.0025}_{-0.0025}$	$H(0.15)$	74.26	$74.2^{+1.5}_{-1.4}$	χ^2_{BAO}	7.34	$7.9 (\nu: 1.3)$

Best-fit $\chi^2_{eff} = 3482.22$; $\bar{\chi}^2_{eff} = 3511.42$; $R - 1 = 0.02202$
 χ^2_{eff} : BAO - 6DF: 0.13 MGS: 2.76 DR12BAO: 4.45 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.71 small_100x143.offlike5_EE_Aplanck_B: 396.06 comman-
der_dx12.v3.2.29: 23.04 plik_rd12_HM_v22b_TTTEEE: 2344.24 Hubble - H073p45: 4.67 SN - JLA December_2013: 696.43

18.41 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00037}_{-0.00036}$	$\Omega_{\mathrm{m}}h^3$	$0.0999^{+0.0043}_{-0.0041}$	$D_{\mathrm{M}}(0.15)$	625^{+16}_{-16}
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0032}_{-0.0031}$	σ_8	$0.835^{+0.035}_{-0.037}$	$H(0.38)$	$83.34^{+0.74}_{-0.74}$
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00081}_{-0.00079}$	S_8	$0.825^{+0.035}_{-0.033}$	$D_{\mathrm{M}}(0.38)$	1504^{+27}_{-27}
τ	$0.056^{+0.020}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.019}_{-0.018}$	$H(0.51)$	$89.68^{+0.72}_{-0.74}$
w_0	$-1.081^{+0.094}_{-0.10}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.024}_{-0.023}$	$D_{\mathrm{M}}(0.51)$	1955^{+29}_{-29}
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.043}_{-0.030}$	$\sigma_8/h^{0.5}$	$0.999^{+0.035}_{-0.034}$	$H(0.61)$	$95.07^{+0.77}_{-0.81}$
n_{s}	$0.965^{+0.010}_{-0.010}$	$r_{\mathrm{drag}}h$	$102.8^{+3.5}_{-3.4}$	$D_{\mathrm{M}}(0.61)$	2280^{+30}_{-30}
α_{JLA}	$0.142^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.459^{+0.072}_{-0.073}$	$H(2.33)$	$235.4^{+1.6}_{-1.6}$
β_{JLA}	$3.12^{+0.21}_{-0.21}$	z_{re}	< 9.62	$D_{\mathrm{M}}(2.33)$	5754^{+24}_{-24}
y_{cal}	$1.0007^{+0.0065}_{-0.0066}$	$10^9 A_{\mathrm{s}}$	$2.105^{+0.091}_{-0.063}$	$f\sigma_8(0.15)$	$0.464^{+0.023}_{-0.022}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.029}_{-0.031}$	$\sigma_8(0.15)$	$0.773^{+0.033}_{-0.034}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1230^{+32}_{-32}	$f\sigma_8(0.38)$	$0.490^{+0.028}_{-0.027}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.5}$	D_{220}	5736^{+99}_{-100}	$\sigma_8(0.38)$	$0.686^{+0.029}_{-0.030}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2540^{+35}_{-35}	$f\sigma_8(0.51)$	$0.491^{+0.028}_{-0.028}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.642^{+0.027}_{-0.027}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$231.1^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	$0.487^{+0.028}_{-0.028}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.965^{+0.010}_{-0.010}$	$\sigma_8(0.61)$	$0.610^{+0.025}_{-0.026}$
A^{kSZ}	—	Y_{P}	$0.24540^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.308^{+0.012}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.316^{+0.011}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.582^{+0.069}_{-0.066}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.746^{+0.060}_{-0.058}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.89^{+0.62}_{-0.65}$	f_{2000}^{217}	$106.9^{+4.7}_{-4.6}$
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.098}_{-0.096}$	r_*	$144.44^{+0.69}_{-0.73}$	χ_{simall}^2	$397.1 (\nu: 2.0)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.079}$	$100\theta_*$	$1.04113^{+0.00079}_{-0.00078}$	χ_{lowl}^2	$23.31 (\nu: 0.4)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.873^{+0.065}_{-0.067}$	χ_{plik}^2	$2358.7 (\nu: 17.2)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.98^{+0.75}_{-0.77}$	$\chi_{\mathrm{H073p45}}^2$	$5.0 (\nu: 3.1)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.09^{+0.69}_{-0.74}$	χ_{JLA}^2	$698.9 (\nu: 3.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.70}_{-0.67}$	k_{D}	$0.14088^{+0.00082}_{-0.00076}$	$\chi_{6\mathrm{DF}}^2$	$0.18 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00044}_{-0.00044}$	χ_{MGS}^2	$2.78 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3401^{+73}_{-69}	$\chi_{\mathrm{DR12BAO}}^2$	$4.97 (\nu: 0.4)$
H_0	$69.9^{+2.4}_{-2.3}$	k_{eq}	$0.01038^{+0.00022}_{-0.00021}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
Ω_{Λ}	$0.707^{+0.019}_{-0.021}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.013}_{-0.013}$	χ_{BAO}^2	$7.9 (\nu: 1.3)$
Ω_{m}	$0.293^{+0.021}_{-0.019}$	$100\theta_{\mathrm{s,eq}}$	$0.4496^{+0.0067}_{-0.0069}$	χ_{CMB}^2	$2779.1 (\nu: 17.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0030}_{-0.0029}$	$H(0.15)$	$74.2^{+1.5}_{-1.4}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3502.55; R - 1 = 0.01555$$

18.42 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00035}_{-0.00036}$	$\Omega_m h^3$	$0.0997^{+0.0038}_{-0.0038}$	$D_M(0.15)$	625^{+16}_{-16}
$\Omega_c h^2$	$0.1197^{+0.0026}_{-0.0027}$	σ_8	$0.833^{+0.030}_{-0.031}$	$H(0.38)$	$83.39^{+0.71}_{-0.71}$
$100\theta_{MC}$	$1.04097^{+0.00075}_{-0.00079}$	S_8	$0.822^{+0.027}_{-0.028}$	$D_M(0.38)$	1504^{+27}_{-28}
τ	$0.055^{+0.020}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.450^{+0.015}_{-0.015}$	$H(0.51)$	$89.72^{+0.68}_{-0.64}$
w_0	$-1.078^{+0.090}_{-0.088}$	$\sigma_8 \Omega_m^{0.25}$	$0.612^{+0.019}_{-0.018}$	$D_M(0.51)$	1955^{+29}_{-30}
$\ln(10^{10} A_s)$	$3.045^{+0.040}_{-0.027}$	$\sigma_8/h^{0.5}$	$0.996^{+0.027}_{-0.027}$	$H(0.61)$	$95.12^{+0.73}_{-0.72}$
n_s	$0.9658^{+0.0097}_{-0.0095}$	$r_{drag} h$	$102.8^{+3.6}_{-3.3}$	$D_M(0.61)$	2279^{+30}_{-30}
y_{cal}	$1.0006^{+0.0065}_{-0.0068}$	$\langle d^2 \rangle^{1/2}$	$2.453^{+0.057}_{-0.055}$	$H(2.33)$	$235.3^{+1.5}_{-1.5}$
α_{JLA}	$0.142^{+0.018}_{-0.017}$	z_{re}	< 9.55	$D_M(2.33)$	5753^{+23}_{-23}
β_{JLA}	$3.12^{+0.20}_{-0.21}$	$10^9 A_s$	$2.101^{+0.085}_{-0.056}$	$f\sigma_8(0.15)$	$0.462^{+0.018}_{-0.018}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.882^{+0.027}_{-0.029}$	$\sigma_8(0.15)$	$0.771^{+0.028}_{-0.030}$
$\xi^{tSZ \times CIB}$	—	D_{40}	1229^{+29}_{-29}	$f\sigma_8(0.38)$	$0.489^{+0.023}_{-0.022}$
A_{143}^{tSZ}	$5.6^{+4.4}_{-4.4}$	D_{220}	5736^{+99}_{-100}	$\sigma_8(0.38)$	$0.684^{+0.025}_{-0.026}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2539^{+34}_{-35}	$f\sigma_8(0.51)$	$0.490^{+0.024}_{-0.024}$
A_{143}^{PS}	45^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.51)$	$0.640^{+0.023}_{-0.024}$
$A_{143 \times 217}^{PS}$	42^{+20}_{-20}	D_{2000}	$231.0^{+3.9}_{-4.2}$	$f\sigma_8(0.61)$	$0.485^{+0.024}_{-0.024}$
A_{217}^{PS}	115^{+20}_{-30}	$n_{s,0.002}$	$0.9658^{+0.0097}_{-0.0095}$	$\sigma_8(0.61)$	$0.609^{+0.022}_{-0.023}$
A^{kSZ}	—	Y_P	$0.24541^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.307^{+0.011}_{-0.011}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.8}$	Y_{P}^{BBN}	$0.24673^{+0.00013}_{-0.00015}$	$\sigma_8(2.33)$	$0.3150^{+0.0096}_{-0.010}$
A_{143}^{dustTT}	$10.9^{+4.5}_{-4.9}$	$10^5 D/H$	$2.580^{+0.067}_{-0.064}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	$18.6^{+8.1}_{-8.6}$	Age/Gyr	$13.746^{+0.061}_{-0.057}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.85^{+0.59}_{-0.61}$	f_{2000}^{217}	$106.9^{+4.8}_{-4.5}$
A_{100}^{dustTE}	$0.114^{+0.10}_{-0.093}$	r_*	$144.48^{+0.61}_{-0.63}$	$\chi^2_{lensing}$	$9.09 (\nu: 0.2)$
$A_{100 \times 143}^{dustTE}$	$0.135^{+0.076}_{-0.076}$	$100\theta_*$	$1.04115^{+0.00074}_{-0.00077}$	χ^2_{simall}	$396.9 (\nu: 1.6)$
$A_{100 \times 217}^{dustTE}$	$0.48^{+0.21}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.877^{+0.058}_{-0.060}$	χ^2_{lowl}	$23.21 (\nu: 0.3)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.13}$	z_{drag}	$1059.99^{+0.74}_{-0.75}$	χ^2_{plik}	$2358.7 (\nu: 16.7)$
$A_{143 \times 217}^{dustTE}$	$0.67^{+0.20}_{-0.21}$	r_{drag}	$147.13^{+0.61}_{-0.65}$	$\chi^2_{H073p45}$	$5.0 (\nu: 3.0)$
A_{217}^{dustTE}	$2.09^{+0.71}_{-0.66}$	k_D	$0.14085^{+0.00077}_{-0.00071}$	χ^2_{JLA}	$698.8 (\nu: 3.1)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16073^{+0.00045}_{-0.00044}$	χ^2_{6DF}	$0.19 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3396^{+58}_{-60}	χ^2_{MGS}	$2.81 (\nu: 0.3)$
H_0	$69.9^{+2.4}_{-2.3}$	k_{eq}	$0.01036^{+0.00018}_{-0.00018}$	$\chi^2_{DR12BAO}$	$4.89 (\nu: 0.4)$
Ω_Λ	$0.707^{+0.020}_{-0.021}$	$100\theta_{eq}$	$0.815^{+0.012}_{-0.011}$	χ^2_{prior}	$11.6 (\nu: 10.0)$
Ω_m	$0.293^{+0.021}_{-0.020}$	$100\theta_{s,eq}$	$0.4500^{+0.0059}_{-0.0055}$	χ^2_{CMB}	$2787.9 (\nu: 17.3)$
$\Omega_m h^2$	$0.1428^{+0.0024}_{-0.0025}$	$H(0.15)$	$74.2^{+1.5}_{-1.4}$	χ^2_{BAO}	$7.9 (\nu: 1.3)$

$$\bar{\chi}^2_{eff} = 3511.18; R - 1 = 0.02300$$

18.43 base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02218^{+0.00053}_{-0.00051}$	$\sigma_8/h^{0.5}$	0.9902	$0.989^{+0.041}_{-0.042}$	$D_M(0.38)$	1524.9	1525^{+27}_{-27}
$\Omega_c h^2$	0.11970	$0.1195^{+0.0039}_{-0.0040}$	$r_{\text{drag}} h$	100.43	$100.5^{+3.2}_{-3.0}$	$H(0.51)$	89.53	$89.55^{+0.86}_{-0.86}$
$100\theta_{\text{MC}}$	1.04089	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.441^{+0.089}_{-0.089}$	$D_M(0.51)$	1977.4	1977^{+30}_{-30}
τ	0.0527	$0.053^{+0.022}_{-0.023}$	z_{re}	7.54	$7.6^{+2.1}_{-2.6}$	$H(0.61)$	95.08	$95.10^{+0.87}_{-0.90}$
w_0	-1.029	$-1.027^{+0.094}_{-0.095}$	$10^9 A_s$	2.090	$2.091^{+0.097}_{-0.097}$	$D_M(0.61)$	2302.4	2302^{+31}_{-32}
$\ln(10^{10} A_s)$	3.0399	$3.040^{+0.045}_{-0.047}$	$10^9 A_s e^{-2\tau}$	1.8813	$1.880^{+0.031}_{-0.031}$	$H(2.33)$	235.75	$235.7^{+2.0}_{-1.9}$
n_s	0.9654	$0.965^{+0.012}_{-0.012}$	D_{40}	1227.5	1228^{+35}_{-34}	$D_M(2.33)$	5768.3	5768^{+32}_{-33}
y_{cal}	1.0005	$1.0005^{+0.0063}_{-0.0064}$	D_{220}	5717	5719^{+100}_{-100}	$f\sigma_8(0.15)$	0.4599	$0.459^{+0.028}_{-0.027}$
A_{217}^{CIB}	49.7	48^{+20}_{-20}	D_{810}	2537.7	2536^{+35}_{-34}	$\sigma_8(0.15)$	0.7556	$0.754^{+0.036}_{-0.037}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.17	—	D_{1420}	815.9	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4805	$0.479^{+0.030}_{-0.031}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.10	$229.8^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	0.6698	$0.669^{+0.031}_{-0.032}$
A_{100}^{PS}	257	263^{+70}_{-70}	$n_{s,0.002}$	0.9654	$0.965^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.4796	$0.479^{+0.030}_{-0.031}$
A_{143}^{PS}	47.0	49^{+20}_{-20}	Y_{P}	0.245319	$0.24531^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	0.6267	$0.626^{+0.028}_{-0.029}$
$A_{143 \times 217}^{\text{PS}}$	42.9	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246646	$0.24664^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.4748	$0.474^{+0.030}_{-0.030}$
A_{217}^{PS}	117.5	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.621	$2.62^{+0.10}_{-0.097}$	$\sigma_8(0.61)$	0.5962	$0.595^{+0.026}_{-0.028}$
A^{kSZ}	0.0	—	Age/Gyr	13.798	$13.799^{+0.073}_{-0.077}$	$f\sigma_8(2.33)$	0.3006	$0.300^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.84	$8.9^{+4.7}_{-4.8}$	z_*	1090.13	$1090.12^{+0.84}_{-0.85}$	$\sigma_8(2.33)$	0.3091	$0.309^{+0.011}_{-0.012}$
A_{143}^{dustTT}	10.75	$10.7^{+4.7}_{-4.5}$	r_*	144.65	$144.71^{+0.98}_{-0.97}$	f_{2000}^{143}	30.4	31^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.0	$18.3^{+8.4}_{-8.5}$	$100\theta_*$	1.04109	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.2	33^{+5}_{-5}
A_{217}^{dustTT}	94.1	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.894	$13.899^{+0.093}_{-0.092}$	f_{2000}^{217}	107.71	$108.0^{+4.9}_{-4.9}$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.2}$	χ_{small}^2	395.85	$397.0 (\nu: 1.6)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.38	$147.4^{+1.0}_{-1.0}$	χ_{lowl}^2	23.15	$23.3 (\nu: 0.5)$
H_0	68.15	$68.2^{+2.2}_{-2.1}$	k_{D}	0.14042	$0.1403^{+0.0012}_{-0.0012}$	χ_{plik}^2	759.1	$771.6 (\nu: 14.8)$
Ω_{Λ}	0.6931	$0.694^{+0.020}_{-0.021}$	$100\theta_{\text{D}}$	0.16102	$0.16105^{+0.00068}_{-0.00066}$	χ_{JLA}^2	1034.71	$1035.4 (\nu: 0.5)$
Ω_{m}	0.3069	$0.306^{+0.021}_{-0.020}$	z_{eq}	3391	3386^{+91}_{-91}	$\chi_{6\text{DF}}^2$	0.002	$0.049 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	0.14253	$0.1423^{+0.0038}_{-0.0038}$	k_{eq}	0.010348	$0.01033^{+0.00028}_{-0.00028}$	χ_{MGS}^2	1.54	$1.64 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	0.09713	$0.0970^{+0.0041}_{-0.0042}$	$100\theta_{\text{eq}}$	0.8148	$0.816^{+0.017}_{-0.016}$	χ_{DR12BAO}^2	4.45	$4.9 (\nu: 1.1)$
σ_8	0.8174	$0.816^{+0.039}_{-0.040}$	$100\theta_{s,\text{eq}}$	0.4503	$0.4508^{+0.0090}_{-0.0086}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.7)$
S_8	0.8267	$0.825^{+0.043}_{-0.042}$	$H(0.15)$	73.13	$73.2^{+1.4}_{-1.4}$	χ_{BAO}^2	6.00	$6.6 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4528	$0.452^{+0.024}_{-0.023}$	$D_M(0.15)$	637.7	638^{+16}_{-16}	χ_{CMB}^2	1178.1	$1191.9 (\nu: 14.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6084	$0.607^{+0.029}_{-0.029}$	$H(0.38)$	82.93	$82.95^{+0.92}_{-0.89}$			

Best-fit $\chi_{\text{eff}}^2 = 2220.25$; $\bar{\chi}_{\text{eff}}^2 = 2241.16$; $R - 1 = 0.00635$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 4.45 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.85 commander_dx12_v3_2_29: 23.15 plik_rd12_HM_v22_TT: 759.09
SN - JLA Pantheon18: 1034.71

18.44 base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02218^{+0.00051}_{-0.00050}$	$\sigma_8 \Omega_m^{0.25}$	0.6081	$0.608^{+0.020}_{-0.021}$	$D_M(0.15)$	637.6	637^{+16}_{-16}
$\Omega_c h^2$	0.11964	$0.1195^{+0.0032}_{-0.0033}$	$\sigma_8/h^{0.5}$	0.9897	$0.990^{+0.029}_{-0.030}$	$H(0.38)$	82.97	$82.96^{+0.88}_{-0.82}$
$100\theta_{MC}$	1.04097	$1.0409^{+0.0011}_{-0.0011}$	$r_{drag}h$	100.44	$100.6^{+3.1}_{-3.1}$	$D_M(0.38)$	1524.4	1524^{+27}_{-27}
τ	0.0529	$0.054^{+0.021}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.442	$2.443^{+0.062}_{-0.062}$	$H(0.51)$	89.57	$89.55^{+0.80}_{-0.78}$
w_0	-1.027	$-1.029^{+0.083}_{-0.086}$	z_{re}	7.57	$7.6^{+2.0}_{-2.2}$	$D_M(0.51)$	1976.6	1977^{+30}_{-30}
$\ln(10^{10} A_s)$	3.0408	$3.041^{+0.040}_{-0.039}$	$10^9 A_s$	2.092	$2.093^{+0.086}_{-0.081}$	$H(0.61)$	95.12	$95.09^{+0.81}_{-0.81}$
n_s	0.9656	$0.965^{+0.011}_{-0.011}$	$10^9 A_s e^{-2\tau}$	1.8819	$1.880^{+0.027}_{-0.027}$	$D_M(0.61)$	2301.5	2301^{+31}_{-31}
y_{cal}	1.0007	$1.0006^{+0.0064}_{-0.0063}$	D_{40}	1227.9	1229^{+31}_{-30}	$H(2.33)$	235.77	$235.7^{+1.8}_{-1.7}$
A_{217}^{CIB}	49.4	48^{+20}_{-20}	D_{220}	5721	5721^{+110}_{-100}	$D_M(2.33)$	5766.4	5768^{+31}_{-32}
$\xi^{tSZ \times CIB}$	0.23	—	D_{810}	2538.9	2536^{+34}_{-34}	$f\sigma_8(0.15)$	0.4595	$0.459^{+0.020}_{-0.020}$
A_{143}^{tSZ}	7.0	—	D_{1420}	816.4	815^{+13}_{-13}	$\sigma_8(0.15)$	0.7553	$0.756^{+0.027}_{-0.029}$
A_{100}^{PS}	258	263^{+70}_{-70}	D_{2000}	230.30	$229.8^{+4.6}_{-4.4}$	$f\sigma_8(0.38)$	0.4800	$0.480^{+0.023}_{-0.023}$
A_{143}^{PS}	48.0	49^{+20}_{-20}	$n_{s,0.002}$	0.9656	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.38)$	0.6696	$0.670^{+0.024}_{-0.025}$
$A_{143 \times 217}^{PS}$	44.2	43^{+20}_{-20}	Y_P	0.245328	$0.24531^{+0.00020}_{-0.00024}$	$f\sigma_8(0.51)$	0.4792	$0.479^{+0.024}_{-0.024}$
A_{217}^{PS}	118.1	115^{+30}_{-30}	Y_P^{BBN}	0.246654	$0.24664^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6265	$0.627^{+0.023}_{-0.023}$
A^{kSZ}	0.0	—	$10^5 D/H$	2.617	$2.622^{+0.097}_{-0.093}$	$f\sigma_8(0.61)$	0.4744	$0.475^{+0.023}_{-0.024}$
A_{100}^{dustTT}	8.81	$8.9^{+4.8}_{-4.8}$	Age/Gyr	13.795	$13.798^{+0.073}_{-0.077}$	$\sigma_8(0.61)$	0.5961	$0.596^{+0.021}_{-0.022}$
A_{143}^{dustTT}	10.80	$10.7^{+4.6}_{-4.5}$	z_*	1090.10	$1090.12^{+0.79}_{-0.80}$	$f\sigma_8(2.33)$	0.3005	$0.301^{+0.011}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.3^{+8.3}_{-8.6}$	r_*	144.65	$144.69^{+0.82}_{-0.81}$	$\sigma_8(2.33)$	0.3091	$0.3092^{+0.0092}_{-0.0094}$
A_{217}^{dustTT}	94.3	93^{+20}_{-20}	$100\theta_*$	1.04116	$1.0411^{+0.0011}_{-0.0011}$	$\chi^2_{lensing}$	8.77	$9.26 (\nu: 0.3)$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.893	$13.898^{+0.079}_{-0.077}$	χ^2_{small}	395.89	$397.0 (\nu: 1.4)$
c_{217}	0.99823	$0.9982^{+0.0016}_{-0.0016}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.2}$	χ^2_{lowl}	23.14	$23.35 (\nu: 0.4)$
H_0	68.16	$68.2^{+2.1}_{-2.1}$	r_{drag}	147.37	$147.42^{+0.87}_{-0.88}$	χ^2_{plik}	759.3	$771.2 (\nu: 13.6)$
Ω_Λ	0.6933	$0.694^{+0.019}_{-0.020}$	k_D	0.14045	$0.1404^{+0.0011}_{-0.0011}$	χ^2_{JLA}	1034.71	$1035.40 (\nu: 0.5)$
Ω_m	0.3067	$0.306^{+0.020}_{-0.019}$	$100\theta_D$	0.16100	$0.16104^{+0.00068}_{-0.00065}$	χ^2_{6DF}	0.002	$0.048 (\nu: 0.0)$
$\Omega_m h^2$	0.14249	$0.1424^{+0.0031}_{-0.0032}$	z_{eq}	3390	3387^{+74}_{-76}	χ^2_{MGS}	1.54	$1.66 (\nu: 0.2)$
$\Omega_m h^3$	0.09712	$0.0971^{+0.0037}_{-0.0037}$	k_{eq}	0.010346	$0.01034^{+0.00023}_{-0.00023}$	$\chi^2_{DR12BAO}$	4.36	$4.8 (\nu: 0.8)$
σ_8	0.8171	$0.817^{+0.029}_{-0.031}$	$100\theta_{eq}$	0.8151	$0.816^{+0.014}_{-0.013}$	χ^2_{prior}	1.4	$7.3 (\nu: 6.8)$
S_8	0.8262	$0.825^{+0.032}_{-0.032}$	$100\theta_{s,eq}$	0.4505	$0.4507^{+0.0073}_{-0.0069}$	χ^2_{CMB}	1187.1	$1200.8 (\nu: 14.8)$
$\sigma_8 \Omega_m^{0.5}$	0.4525	$0.452^{+0.017}_{-0.017}$	$H(0.15)$	73.16	$73.2^{+1.4}_{-1.4}$	χ^2_{BAO}	5.90	$6.5 (\nu: 0.6)$

Best-fit $\chi^2_{eff} = 2229.02$; $\bar{\chi}^2_{eff} = 2249.95$; $R - 1 = 0.00823$
 χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.54 DR12BAO: 4.36 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143_offlike5_EE_Aplanck_B: 395.89 comman-
der_dx12_v3_2_29: 23.14 plik_rd12_HM_v22_TT: 759.25 SN - JLA Pantheon18: 1034.71

18.45 base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02218^{+0.00053}_{-0.00051}$	$\sigma_8/h^{0.5}$	$0.990^{+0.040}_{-0.040}$	$D_{\mathrm{M}}(0.38)$	1524^{+27}_{-27}
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0039}_{-0.0039}$	$r_{\mathrm{drag}} h$	$100.5^{+3.2}_{-3.0}$	$H(0.51)$	$89.56^{+0.85}_{-0.86}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.088}_{-0.082}$	$D_{\mathrm{M}}(0.51)$	1977^{+29}_{-30}
τ	$0.055^{+0.019}_{-0.013}$	z_{re}	< 9.47	$H(0.61)$	$95.11^{+0.87}_{-0.90}$
w_0	$-1.026^{+0.094}_{-0.095}$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.093}_{-0.062}$	$D_{\mathrm{M}}(0.61)$	2302^{+31}_{-32}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.043}_{-0.030}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.031}_{-0.030}$	$H(2.33)$	$235.7^{+2.0}_{-1.9}$
n_{s}	$0.965^{+0.012}_{-0.012}$	D_{40}	1228^{+35}_{-34}	$D_{\mathrm{M}}(2.33)$	5768^{+31}_{-33}
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	D_{220}	5719^{+100}_{-100}	$f\sigma_8(0.15)$	$0.459^{+0.028}_{-0.027}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+34}_{-34}	$\sigma_8(0.15)$	$0.755^{+0.036}_{-0.036}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.480^{+0.031}_{-0.031}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.670^{+0.031}_{-0.031}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.479^{+0.030}_{-0.031}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00021}_{-0.00024}$	$\sigma_8(0.51)$	$0.627^{+0.028}_{-0.029}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00021}_{-0.00024}$	$f\sigma_8(0.61)$	$0.474^{+0.030}_{-0.030}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.622^{+0.099}_{-0.097}$	$\sigma_8(0.61)$	$0.596^{+0.026}_{-0.027}$
A^{kSZ}	—	Age/Gyr	$13.799^{+0.073}_{-0.076}$	$f\sigma_8(2.33)$	$0.301^{+0.013}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.8}$	z_*	$1090.11^{+0.84}_{-0.84}$	$\sigma_8(2.33)$	$0.309^{+0.011}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.5}$	r_*	$144.72^{+0.97}_{-0.97}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.3}_{-8.6}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.092}_{-0.092}$	f_{2000}^{217}	$108.0^{+4.8}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.2}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.4^{+1.0}_{-1.0}$	χ_{lowl}^2	$23.3 (\nu: 0.5)$
H_0	$68.2^{+2.2}_{-2.1}$	k_{D}	$0.1403^{+0.0012}_{-0.0012}$	χ_{plik}^2	$771.4 (\nu: 14.5)$
Ω_{Λ}	$0.694^{+0.020}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00067}_{-0.00065}$	χ_{JLA}^2	$1035.42 (\nu: 0.5)$
Ω_{m}	$0.306^{+0.020}_{-0.020}$	z_{eq}	3385^{+91}_{-90}	$\chi_{6\mathrm{DF}}^2$	$0.049 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0038}_{-0.0038}$	k_{eq}	$0.01033^{+0.00028}_{-0.00027}$	χ_{MGS}^2	$1.65 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0970^{+0.0041}_{-0.0042}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.017}_{-0.017}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.0)$
σ_8	$0.817^{+0.038}_{-0.040}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0089}_{-0.0086}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
S_8	$0.825^{+0.043}_{-0.041}$	$H(0.15)$	$73.2^{+1.4}_{-1.4}$	χ_{BAO}^2	$6.5 (\nu: 0.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.024}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	638^{+16}_{-16}	χ_{CMB}^2	$1191.6 (\nu: 14.4)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.028}_{-0.028}$	$H(0.38)$	$82.96^{+0.92}_{-0.88}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2240.85; R - 1 = 0.00444$$

18.46 base_w_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00051}_{-0.00050}$	$\sigma_8/h^{0.5}$	$0.990^{+0.029}_{-0.030}$	$D_{\mathrm{M}}(0.38)$	1524^{+27}_{-27}
$\Omega_{\mathrm{c}}h^2$	$0.1195^{+0.0032}_{-0.0032}$	$r_{\mathrm{drag}}h$	$100.6^{+3.1}_{-3.0}$	$H(0.51)$	$89.56^{+0.80}_{-0.75}$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.444^{+0.061}_{-0.062}$	$D_{\mathrm{M}}(0.51)$	1976^{+29}_{-30}
τ	$0.055^{+0.019}_{-0.013}$	z_{re}	< 9.42	$H(0.61)$	$95.11^{+0.80}_{-0.79}$
w_0	$-1.028^{+0.082}_{-0.086}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.083}_{-0.057}$	$D_{\mathrm{M}}(0.61)$	2301^{+30}_{-31}
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.028}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.027}_{-0.027}$	$H(2.33)$	$235.6^{+1.8}_{-1.7}$
n_{s}	$0.965^{+0.011}_{-0.011}$	D_{40}	1229^{+31}_{-30}	$D_{\mathrm{M}}(2.33)$	5768^{+30}_{-32}
y_{cal}	$1.0006^{+0.0064}_{-0.0064}$	D_{220}	5721^{+110}_{-100}	$f\sigma_8(0.15)$	$0.459^{+0.020}_{-0.020}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+34}_{-34}	$\sigma_8(0.15)$	$0.756^{+0.028}_{-0.029}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.480^{+0.023}_{-0.023}$
A_{143}^{tSZ}	—	D_{2000}	$229.8^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.670^{+0.024}_{-0.025}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	$0.479^{+0.024}_{-0.024}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24532^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.627^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.475^{+0.023}_{-0.024}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \mathrm{D}/\mathrm{H}$	$2.621^{+0.097}_{-0.093}$	$\sigma_8(0.61)$	$0.597^{+0.021}_{-0.022}$
A^{kSZ}	—	Age/Gyr	$13.798^{+0.073}_{-0.077}$	$f\sigma_8(2.33)$	$0.301^{+0.011}_{-0.011}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.8}$	z_*	$1090.11^{+0.78}_{-0.79}$	$\sigma_8(2.33)$	$0.3094^{+0.0091}_{-0.0092}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.5}$	r_*	$144.71^{+0.81}_{-0.80}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.1}_{-8.6}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.078}_{-0.076}$	f_{2000}^{217}	$108.0^{+4.8}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	$\chi_{\mathrm{lensing}}^2$	$9.24 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.44^{+0.86}_{-0.88}$	χ_{simall}^2	$396.9 (\nu: 1.5)$
H_0	$68.2^{+2.1}_{-2.1}$	k_{D}	$0.1404^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.34 (\nu: 0.4)$
Ω_{Λ}	$0.694^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00067}_{-0.00065}$	χ_{plik}^2	$771.1 (\nu: 13.5)$
Ω_{m}	$0.306^{+0.020}_{-0.019}$	z_{eq}	3385^{+74}_{-75}	χ_{JLA}^2	$1035.38 (\nu: 0.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0031}_{-0.0032}$	k_{eq}	$0.01033^{+0.00022}_{-0.00023}$	$\chi_{6\mathrm{DF}}^2$	$0.047 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^3$	$0.0970^{+0.0037}_{-0.0037}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013}$	χ_{MGS}^2	$1.67 (\nu: 0.2)$
σ_8	$0.818^{+0.030}_{-0.030}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0073}_{-0.0069}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 0.7)$
S_8	$0.826^{+0.032}_{-0.032}$	$H(0.15)$	$73.2^{+1.4}_{-1.4}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.018}$	$D_{\mathrm{M}}(0.15)$	637^{+16}_{-15}	χ_{CMB}^2	$1200.6 (\nu: 14.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.020}_{-0.021}$	$H(0.38)$	$82.97^{+0.87}_{-0.79}$	χ_{BAO}^2	$6.5 (\nu: 0.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2249.69; R - 1 = 0.00980$$

18.47 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022402	$0.02239^{+0.00036}_{-0.00036}$	σ_8	0.8195	$0.819^{+0.033}_{-0.035}$	$D_M(0.15)$	635.7	636^{+16}_{-15}
$\Omega_c h^2$	0.11974	$0.1197^{+0.0031}_{-0.0031}$	S_8	0.8269	$0.827^{+0.035}_{-0.034}$	$H(0.38)$	83.12	$83.09^{+0.72}_{-0.72}$
$100\theta_{MC}$	1.04094	$1.04096^{+0.00078}_{-0.00078}$	$\sigma_8 \Omega_m^{0.5}$	0.4529	$0.453^{+0.019}_{-0.019}$	$D_M(0.38)$	1520.7	1522^{+26}_{-26}
τ	0.0545	$0.055^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6092	$0.609^{+0.023}_{-0.024}$	$H(0.51)$	89.71	$89.69^{+0.65}_{-0.67}$
w_0	-1.030	$-1.028^{+0.085}_{-0.085}$	$\sigma_8/h^{0.5}$	0.9911	$0.991^{+0.033}_{-0.035}$	$D_M(0.51)$	1972.2	1973^{+28}_{-28}
$\ln(10^{10} A_s)$	3.0451	$3.045^{+0.045}_{-0.041}$	$r_{drag} h$	100.60	$100.5^{+3.1}_{-3.1}$	$H(0.61)$	95.25	$95.25^{+0.68}_{-0.70}$
n_s	0.9664	$0.966^{+0.011}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.446^{+0.073}_{-0.076}$	$D_M(0.61)$	2296.6	2298^{+29}_{-28}
y_{cal}	1.0009	$1.0006^{+0.0063}_{-0.0061}$	z_{re}	7.68	$7.7^{+2.1}_{-2.2}$	$H(2.33)$	235.98	$236.0^{+1.6}_{-1.6}$
A_{217}^{CIB}	47.2	47^{+20}_{-20}	$10^9 A_s$	2.101	$2.101^{+0.097}_{-0.085}$	$D_M(2.33)$	5758.2	5759^{+23}_{-23}
$\xi^{tSZ \times CIB}$	0.42	—	$10^9 A_s e^{-2\tau}$	1.8844	$1.882^{+0.028}_{-0.029}$	$f\sigma_8(0.15)$	0.4602	$0.460^{+0.021}_{-0.022}$
A_{143}^{tSZ}	7.25	> 0.917	D_{40}	1229.0	1229^{+31}_{-31}	$\sigma_8(0.15)$	0.7577	$0.757^{+0.030}_{-0.033}$
A_{100}^{PS}	250	258^{+70}_{-70}	D_{220}	5739	5734^{+98}_{-100}	$f\sigma_8(0.38)$	0.4812	$0.481^{+0.025}_{-0.026}$
A_{143}^{PS}	47.2	46^{+20}_{-20}	D_{810}	2542.6	2539^{+33}_{-34}	$\sigma_8(0.38)$	0.6718	$0.671^{+0.027}_{-0.029}$
$A_{143 \times 217}^{PS}$	47.4	42^{+20}_{-20}	D_{1420}	818.9	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4805	$0.480^{+0.025}_{-0.026}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	D_{2000}	231.47	$231.0^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	0.6286	$0.628^{+0.025}_{-0.027}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9664	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.61)$	0.4758	$0.475^{+0.025}_{-0.026}$
A_{100}^{dustTT}	8.82	$8.9^{+4.6}_{-4.7}$	Y_P	0.245408	$0.24540^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	0.5981	$0.597^{+0.023}_{-0.025}$
A_{143}^{dustTT}	10.97	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	0.246735	$0.24673^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.3016	$0.301^{+0.012}_{-0.013}$
$A_{143 \times 217}^{dustTT}$	19.7	$18.6^{+8.3}_{-8.4}$	$10^5 D/H$	2.580	$2.582^{+0.068}_{-0.065}$	$\sigma_8(2.33)$	0.3102	$0.310^{+0.010}_{-0.011}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	Age/Gyr	13.774	$13.777^{+0.059}_{-0.057}$	f_{2000}^{143}	28.8	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.097}_{-0.095}$	z_*	1089.86	$1089.87^{+0.64}_{-0.62}$	$f_{2000}^{143 \times 217}$	31.96	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.076}_{-0.075}$	r_*	144.47	$144.49^{+0.69}_{-0.68}$	f_{2000}^{217}	106.67	$106.9^{+4.6}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04112	$1.04114^{+0.00077}_{-0.00076}$	χ_{small}^2	396.1	$397.2 (\nu: 2.0)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.878^{+0.066}_{-0.064}$	χ_{lowl}^2	23.11	$23.27 (\nu: 0.4)$
$A_{143 \times 217}^{dustTE}$	0.665	$0.67^{+0.21}_{-0.21}$	z_{drag}	1060.01	$1059.96^{+0.73}_{-0.75}$	χ_{plik}^2	2344.5	$2359.3 (\nu: 16.8)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.68}$	r_{drag}	147.12	$147.14^{+0.69}_{-0.68}$	χ_{JLA}^2	1034.74	$1035.39 (\nu: 0.5)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14086	$0.14083^{+0.00077}_{-0.00078}$	χ_{6DF}^2	0.000	$0.048 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160727	$0.16075^{+0.00044}_{-0.00042}$	χ_{MGS}^2	1.61	$1.64 (\nu: 0.2)$
H_0	68.38	$68.3^{+2.1}_{-2.1}$	z_{eq}	3397	3396^{+69}_{-68}	$\chi_{DR12BAO}^2$	4.35	$4.8 (\nu: 0.7)$
Ω_Λ	0.6946	$0.694^{+0.019}_{-0.020}$	k_{eq}	0.010367	$0.01037^{+0.00021}_{-0.00021}$	χ_{prior}^2	1.9	$11.5 (\nu: 10.1)$
Ω_m	0.3054	$0.306^{+0.020}_{-0.019}$	$100\theta_{eq}$	0.8144	$0.814^{+0.013}_{-0.013}$	χ_{BAO}^2	5.96	$6.5 (\nu: 0.5)$
$\Omega_m h^2$	0.14279	$0.1428^{+0.0029}_{-0.0029}$	$100\theta_{s,eq}$	0.4499	$0.4500^{+0.0067}_{-0.0066}$	χ_{CMB}^2	2763.7	$2779.8 (\nu: 16.7)$
$\Omega_m h^3$	0.09763	$0.0975^{+0.0037}_{-0.0037}$	$H(0.15)$	73.34	$73.3^{+1.4}_{-1.3}$			

Best-fit $\chi_{eff}^2 = 3806.25$; $\bar{\chi}_{eff}^2 = 3833.20$; $R - 1 = 0.00703$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.61 DR12BAO: 4.35 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.11 plik_rd12_HM_v22b_TTTEEE: 2344.51 SN - JLA Pantheon18: 1034.74

18.48 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022416	$0.02240^{+0.00036}_{-0.00036}$	$\Omega_m h^3$	0.09767	$0.0975^{+0.0035}_{-0.0035}$	$100\theta_{s,eq}$	0.4501	$0.4501^{+0.0059}_{-0.0057}$
$\Omega_c h^2$	0.11965	$0.1197^{+0.0026}_{-0.0027}$	σ_8	0.8197	$0.818^{+0.027}_{-0.028}$	$H(0.15)$	73.40	$73.3^{+1.3}_{-1.3}$
$100\theta_{MC}$	1.04098	$1.04096^{+0.00075}_{-0.00075}$	S_8	0.8260	$0.826^{+0.027}_{-0.028}$	$D_M(0.15)$	635.2	636^{+15}_{-15}
τ	0.0551	$0.055^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4524	$0.452^{+0.015}_{-0.015}$	$H(0.38)$	83.16	$83.11^{+0.69}_{-0.67}$
w_0	-1.030	$-1.028^{+0.080}_{-0.082}$	$\sigma_8 \Omega_m^{0.25}$	0.6090	$0.608^{+0.018}_{-0.018}$	$D_M(0.38)$	1519.6	1521^{+25}_{-26}
$\ln(10^{10} A_s)$	3.0459	$3.045^{+0.039}_{-0.037}$	$\sigma_8/h^{0.5}$	0.9908	$0.990^{+0.026}_{-0.027}$	$H(0.51)$	89.74	$89.71^{+0.62}_{-0.62}$
n_s	0.9668	$0.966^{+0.010}_{-0.0097}$	$r_{drag} h$	100.70	$100.6^{+3.2}_{-3.0}$	$D_M(0.51)$	1970.9	1973^{+27}_{-28}
y_{cal}	1.0007	$1.0006^{+0.0062}_{-0.0061}$	$\langle d^2 \rangle^{1/2}$	2.445	$2.445^{+0.055}_{-0.058}$	$H(0.61)$	95.28	$95.26^{+0.63}_{-0.65}$
A_{217}^{CIB}	46.6	47^{+20}_{-20}	z_{re}	7.75	$7.7^{+1.9}_{-2.1}$	$D_M(0.61)$	2295.2	2297^{+28}_{-28}
$\xi^{tSZ \times CIB}$	0.56	—	$10^9 A_s$	2.103	$2.101^{+0.083}_{-0.077}$	$H(2.33)$	235.93	$236.0^{+1.5}_{-1.5}$
A_{143}^{tSZ}	7.1	—	$10^9 A_s e^{-2\tau}$	1.8833	$1.882^{+0.026}_{-0.027}$	$D_M(2.33)$	5756.9	5758^{+22}_{-23}
A_{100}^{PS}	249	258^{+70}_{-70}	D_{40}	1227.8	1229^{+29}_{-29}	$f\sigma_8(0.15)$	0.4598	$0.460^{+0.017}_{-0.017}$
A_{143}^{PS}	49.4	46^{+20}_{-20}	D_{220}	5737	5735^{+97}_{-97}	$\sigma_8(0.15)$	0.7579	$0.757^{+0.026}_{-0.027}$
$A_{143 \times 217}^{PS}$	50.9	42^{+20}_{-20}	D_{810}	2541.8	2539^{+33}_{-33}	$f\sigma_8(0.38)$	0.4810	$0.480^{+0.020}_{-0.021}$
A_{217}^{PS}	120.9	115^{+30}_{-30}	D_{1420}	818.8	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6721	$0.671^{+0.023}_{-0.024}$
A^{kSZ}	0.0	—	D_{2000}	231.49	$231.0^{+4.0}_{-4.1}$	$f\sigma_8(0.51)$	0.4804	$0.480^{+0.021}_{-0.022}$
A_{100}^{dustTT}	8.82	$8.9^{+4.6}_{-4.9}$	$n_{s,0.002}$	0.9668	$0.966^{+0.010}_{-0.0097}$	$\sigma_8(0.51)$	0.6289	$0.628^{+0.021}_{-0.022}$
A_{143}^{dustTT}	11.04	$10.9^{+4.6}_{-4.4}$	Y_P	0.245413	$0.24540^{+0.00013}_{-0.00015}$	$f\sigma_8(0.61)$	0.4758	$0.475^{+0.021}_{-0.022}$
$A_{143 \times 217}^{dustTT}$	20.0	$18.6^{+8.3}_{-8.6}$	Y_P^{BBN}	0.246740	$0.24673^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.5984	$0.597^{+0.020}_{-0.021}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	$10^5 D/H$	2.577	$2.581^{+0.068}_{-0.064}$	$f\sigma_8(2.33)$	0.3018	$0.301^{+0.010}_{-0.011}$
A_{100}^{dustTE}	0.114	$0.114^{+0.096}_{-0.093}$	Age/Gyr	13.771	$13.776^{+0.057}_{-0.057}$	$\sigma_8(2.33)$	0.3104	$0.3098^{+0.0091}_{-0.0092}$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.075}_{-0.077}$	z_*	1089.83	$1089.86^{+0.59}_{-0.60}$	$\chi_{lensing}^2$	8.72	$9.13 (\nu: 0.2)$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.23}_{-0.22}$	r_*	144.49	$144.50^{+0.62}_{-0.60}$	χ_{small}^2	396.20	$397.1 (\nu: 1.6)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	1.04116	$1.04114^{+0.00075}_{-0.00074}$	χ_{lowl}^2	23.06	$23.27 (\nu: 0.3)$
$A_{143 \times 217}^{dustTE}$	0.663	$0.66^{+0.21}_{-0.21}$	$D_M(z_*)/\text{Gpc}$	13.878	$13.879^{+0.059}_{-0.057}$	χ_{plik}^2	2344.7	$2359.1 (\nu: 15.8)$
A_{217}^{dustTE}	2.08	$2.08^{+0.70}_{-0.68}$	z_{drag}	1060.01	$1059.97^{+0.72}_{-0.76}$	χ_{JLA}^2	1034.76	$1035.36 (\nu: 0.4)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.13	$147.15^{+0.62}_{-0.61}$	χ_{6DF}^2	0.000	$0.046 (\nu: 0.0)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0015}$	k_D	0.14086	$0.14082^{+0.00072}_{-0.00073}$	χ_{MGS}^2	1.68	$1.67 (\nu: 0.2)$
H_0	68.44	$68.3^{+2.1}_{-2.1}$	$100\theta_D$	0.160717	$0.16074^{+0.00044}_{-0.00042}$	$\chi_{DR12BAO}^2$	4.23	$4.7 (\nu: 0.5)$
Ω_Λ	0.6953	$0.694^{+0.019}_{-0.020}$	z_{eq}	3395	3395^{+60}_{-61}	χ_{prior}^2	1.7	$11.6 (\nu: 10.2)$
Ω_m	0.3047	$0.306^{+0.020}_{-0.019}$	k_{eq}	0.010361	$0.01036^{+0.00018}_{-0.00018}$	χ_{CMB}^2	2772.6	$2788.6 (\nu: 16.5)$
$\Omega_m h^2$	0.14271	$0.1427^{+0.0025}_{-0.0025}$	$100\theta_{eq}$	0.8148	$0.815^{+0.012}_{-0.011}$	χ_{BAO}^2	5.91	$6.45 (\nu: 0.4)$

Best-fit $\chi_{eff}^2 = 3814.98$; $\bar{\chi}_{eff}^2 = 3841.96$; $R - 1 = 0.01118$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.68 DR12BAO: 4.23 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.72 small_100x143_offlike5_EE_Aplanck_B: 396.20 comman-
der_dx12.v3.2.29: 23.06 plik_rd12_HM_v22b_TTTEEE: 2344.67 SN - JLA Pantheon18: 1034.76

18.49 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02239^{+0.00036}_{-0.00036}$	σ_8	$0.819^{+0.032}_{-0.034}$	$D_M(0.15)$	636^{+16}_{-15}
$\Omega_c h^2$	$0.1197^{+0.0031}_{-0.0031}$	S_8	$0.827^{+0.034}_{-0.034}$	$H(0.38)$	$83.10^{+0.72}_{-0.73}$
$100\theta_{MC}$	$1.04096^{+0.00078}_{-0.00077}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.019}_{-0.018}$	$D_M(0.38)$	1522^{+26}_{-26}
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.022}_{-0.023}$	$H(0.51)$	$89.70^{+0.65}_{-0.68}$
w_0	$-1.028^{+0.084}_{-0.086}$	$\sigma_8/h^{0.5}$	$0.991^{+0.033}_{-0.034}$	$D_M(0.51)$	1973^{+28}_{-28}
$\ln(10^{10} A_s)$	$3.047^{+0.044}_{-0.030}$	$r_{\text{drag}} h$	$100.5^{+3.1}_{-3.1}$	$H(0.61)$	$95.25^{+0.67}_{-0.71}$
n_s	$0.966^{+0.011}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.071}_{-0.073}$	$D_M(0.61)$	2298^{+29}_{-28}
y_{cal}	$1.0006^{+0.0063}_{-0.0061}$	z_{re}	< 9.60	$H(2.33)$	$236.0^{+1.6}_{-1.5}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.105^{+0.094}_{-0.063}$	$D_M(2.33)$	5759^{+23}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.028}_{-0.029}$	$f\sigma_8(0.15)$	$0.460^{+0.021}_{-0.022}$
A_{143}^{tSZ}	> 0.922	D_{40}	1229^{+31}_{-32}	$\sigma_8(0.15)$	$0.757^{+0.030}_{-0.031}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5734^{+98}_{-100}	$f\sigma_8(0.38)$	$0.481^{+0.025}_{-0.025}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+33}_{-33}	$\sigma_8(0.38)$	$0.672^{+0.026}_{-0.028}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.480^{+0.025}_{-0.026}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.0^{+4.0}_{-4.1}$	$\sigma_8(0.51)$	$0.628^{+0.024}_{-0.025}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.011}_{-0.010}$	$f\sigma_8(0.61)$	$0.476^{+0.025}_{-0.026}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	Y_P	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.598^{+0.023}_{-0.024}$
A_{143}^{dustTT}	$10.9^{+4.7}_{-4.5}$	Y_P^{BBN}	$0.24673^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.301^{+0.011}_{-0.012}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.2}_{-8.3}$	10^5D/H	$2.582^{+0.069}_{-0.065}$	$\sigma_8(2.33)$	$0.310^{+0.010}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.776^{+0.059}_{-0.057}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.095}$	z_*	$1089.87^{+0.64}_{-0.62}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.075}$	r_*	$144.49^{+0.69}_{-0.68}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.5}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04114^{+0.00076}_{-0.00076}$	χ_{simall}^2	$397.2 (\nu: 2.0)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.878^{+0.066}_{-0.064}$	χ_{lowl}^2	$23.28 (\nu: 0.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.96^{+0.73}_{-0.76}$	χ_{plik}^2	$2359.1 (\nu: 16.6)$
A_{217}^{dustTE}	$2.08^{+0.68}_{-0.68}$	r_{drag}	$147.14^{+0.69}_{-0.68}$	χ_{JLA}^2	$1035.39 (\nu: 0.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14083^{+0.00077}_{-0.00077}$	$\chi_{6\text{DF}}^2$	$0.047 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16075^{+0.00044}_{-0.00042}$	χ_{MGS}^2	$1.64 (\nu: 0.2)$
H_0	$68.3^{+2.1}_{-2.1}$	z_{eq}	3396^{+69}_{-68}	χ_{DR12BAO}^2	$4.8 (\nu: 0.7)$
Ω_Λ	$0.694^{+0.019}_{-0.020}$	k_{eq}	$0.01036^{+0.00021}_{-0.00021}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_m	$0.306^{+0.020}_{-0.019}$	$100\theta_{\text{eq}}$	$0.815^{+0.013}_{-0.013}$	χ_{BAO}^2	$6.5 (\nu: 0.5)$
$\Omega_m h^2$	$0.1428^{+0.0029}_{-0.0029}$	$100\theta_{s,\text{eq}}$	$0.4500^{+0.0067}_{-0.0067}$	χ_{CMB}^2	$2779.6 (\nu: 16.3)$
$\Omega_m h^3$	$0.0975^{+0.0037}_{-0.0037}$	$H(0.15)$	$73.3^{+1.4}_{-1.3}$		

$$\bar{\chi}_{\text{eff}}^2 = 3832.98; R - 1 = 0.00746$$

18.50 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02240^{+0.00036}_{-0.00036}$	σ_8	$0.819^{+0.027}_{-0.028}$	$D_M(0.15)$	636^{+15}_{-15}
$\Omega_c h^2$	$0.1196^{+0.0026}_{-0.0027}$	S_8	$0.826^{+0.027}_{-0.027}$	$H(0.38)$	$83.12^{+0.68}_{-0.68}$
$100\theta_{MC}$	$1.04097^{+0.00075}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	$0.453^{+0.015}_{-0.015}$	$D_M(0.38)$	1521^{+25}_{-26}
τ	$0.056^{+0.018}_{-0.014}$	$\sigma_8 \Omega_m^{0.25}$	$0.609^{+0.018}_{-0.018}$	$H(0.51)$	$89.72^{+0.61}_{-0.61}$
w_0	$-1.027^{+0.079}_{-0.082}$	$\sigma_8/h^{0.5}$	$0.990^{+0.025}_{-0.027}$	$D_M(0.51)$	1973^{+27}_{-28}
$\ln(10^{10} A_s)$	$3.046^{+0.038}_{-0.028}$	$r_{\text{drag}} h$	$100.6^{+3.2}_{-3.0}$	$H(0.61)$	$95.27^{+0.62}_{-0.65}$
n_s	$0.966^{+0.010}_{-0.0096}$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.055}_{-0.057}$	$D_M(0.61)$	2297^{+28}_{-28}
y_{cal}	$1.0006^{+0.0063}_{-0.0061}$	z_{re}	< 9.44	$H(2.33)$	$236.0^{+1.5}_{-1.4}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.080}_{-0.058}$	$D_M(2.33)$	5758^{+22}_{-23}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.882^{+0.026}_{-0.027}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.017}$
A_{143}^{tSZ}	—	D_{40}	1229^{+29}_{-29}	$\sigma_8(0.15)$	$0.757^{+0.026}_{-0.026}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5735^{+98}_{-97}	$f\sigma_8(0.38)$	$0.481^{+0.020}_{-0.021}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-32}	$\sigma_8(0.38)$	$0.671^{+0.023}_{-0.024}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.480^{+0.021}_{-0.022}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.0^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	$0.628^{+0.021}_{-0.022}$
A^{kSZ}	—	$n_{s,0.002}$	$0.966^{+0.010}_{-0.0096}$	$f\sigma_8(0.61)$	$0.475^{+0.021}_{-0.022}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.8}$	Y_P	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.598^{+0.020}_{-0.020}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.4}$	Y_P^{BBN}	$0.24673^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.301^{+0.010}_{-0.010}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.3}_{-8.6}$	$10^5 D/H$	$2.581^{+0.068}_{-0.064}$	$\sigma_8(2.33)$	$0.3100^{+0.0089}_{-0.0091}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.775^{+0.057}_{-0.057}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.094}$	z_*	$1089.85^{+0.60}_{-0.60}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.077}$	r_*	$144.51^{+0.61}_{-0.58}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.6}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.23}_{-0.22}$	$100\theta_*$	$1.04115^{+0.00075}_{-0.00074}$	χ_{lensing}^2	$9.11 (\nu: 0.2)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.879^{+0.058}_{-0.056}$	χ_{simall}^2	$397.1 (\nu: 1.7)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.21}$	z_{drag}	$1059.98^{+0.72}_{-0.77}$	χ_{lowl}^2	$23.27 (\nu: 0.3)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.68}$	r_{drag}	$147.16^{+0.62}_{-0.61}$	χ_{plik}^2	$2359.0 (\nu: 15.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14082^{+0.00072}_{-0.00073}$	χ_{JLA}^2	$1035.36 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16074^{+0.00045}_{-0.00042}$	$\chi_{6\text{DF}}^2$	$0.046 (\nu: 0.0)$
H_0	$68.3^{+2.1}_{-2.1}$	z_{eq}	3394^{+58}_{-60}	χ_{MGS}^2	$1.67 (\nu: 0.2)$
Ω_Λ	$0.694^{+0.019}_{-0.020}$	k_{eq}	$0.01036^{+0.00018}_{-0.00018}$	χ_{DR12BAO}^2	$4.7 (\nu: 0.5)$
Ω_m	$0.306^{+0.020}_{-0.019}$	$100\theta_{\text{eq}}$	$0.815^{+0.011}_{-0.011}$	χ_{prior}^2	$11.6 (\nu: 10.2)$
$\Omega_m h^2$	$0.1427^{+0.0024}_{-0.0025}$	$100\theta_{s,\text{eq}}$	$0.4502^{+0.0059}_{-0.0056}$	χ_{CMB}^2	$2788.4 (\nu: 16.3)$
$\Omega_m h^3$	$0.0975^{+0.0036}_{-0.0035}$	$H(0.15)$	$73.3^{+1.3}_{-1.3}$	χ_{BAO}^2	$6.42 (\nu: 0.4)$

$$\bar{\chi}_{\text{eff}}^2 = 3841.79; R - 1 = 0.01215$$

18.51 base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02219^{+0.00054}_{-0.00052}$ (+0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6135	$0.606^{+0.028}_{-0.029}$ (−0.1 σ)	$H(0.38)$	82.86	$82.98^{+0.89}_{-0.87}$ (+0.1 σ)
$\Omega_c h^2$	0.12025	$0.1194^{+0.0039}_{-0.0039}$ (−0.0 σ)	$\sigma_8/h^{0.5}$	0.9976	$0.987^{+0.040}_{-0.041}$ (−0.1 σ)	$D_M(0.38)$	1525.4	1524^{+27}_{-27} (−0.0 σ)
$100\theta_{MC}$	1.04092	$1.0410^{+0.0011}_{-0.0011}$ (+0.1 σ)	$r_{drag}h$	100.43	$100.5^{+3.1}_{-3.0}$ (−0.0 σ)	$H(0.51)$	89.45	$89.59^{+0.85}_{-0.88}$ (+0.1 σ)
τ	0.0540	$0.053^{+0.022}_{-0.021}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.460	$2.436^{+0.087}_{-0.089}$ (−0.1 σ)	$D_M(0.51)$	1978.3	1977^{+30}_{-30} (−0.0 σ)
w_0	−1.037	$−1.024^{+0.093}_{-0.097}$ (+0.1 σ)	z_{re}	7.69	$7.6^{+2.1}_{-2.3}$ (+0.0 σ)	$H(0.61)$	94.99	$95.14^{+0.89}_{-0.91}$ (+0.1 σ)
$\ln(10^{10} A_s)$	3.0460	$3.039^{+0.044}_{-0.044}$ (−0.1 σ)	$10^9 A_s$	2.103	$2.088^{+0.095}_{-0.090}$ (−0.1 σ)	$D_M(0.61)$	2303.6	2301^{+31}_{-31} (−0.0 σ)
n_s	0.9637	$0.966^{+0.012}_{-0.012}$ (+0.2 σ)	$10^9 A_s e^{-2\tau}$	1.8880	$1.877^{+0.032}_{-0.032}$ (−0.2 σ)	$H(2.33)$	235.96	$235.7^{+1.9}_{-1.9}$ (+0.0 σ)
y_{cal}	1.0023	$1.0005^{+0.0065}_{-0.0065}$ (−0.0 σ)	D_{40}	1234.6	1225^{+35}_{-34} (−0.3 σ)	$D_M(2.33)$	5769.7	5767^{+31}_{-31} (−0.1 σ)
A_{100}^{PS}	245	243^{+60}_{-70} (−0.7 σ)	D_{220}	5730	5709^{+110}_{-100} (−0.2 σ)	$f\sigma_8(0.15)$	0.4646	$0.458^{+0.028}_{-0.027}$ (−0.1 σ)
A_{143}^{PS}	39	41^{+20}_{-20} (−1.0 σ)	D_{810}	2543.3	2533^{+36}_{-36} (−0.2 σ)	$\sigma_8(0.15)$	0.7614	$0.753^{+0.036}_{-0.037}$ (−0.1 σ)
A_{217}^{PS}	99.3	101^{+30}_{-40} (−1.4 σ)	D_{1420}	817.0	815^{+13}_{-13} (−0.1 σ)	$f\sigma_8(0.38)$	0.4855	$0.478^{+0.031}_{-0.030}$ (−0.1 σ)
A_{217}^{CIB}	45.0	41^{+20}_{-20} (−1.0 σ)	D_{2000}	230.42	$229.7^{+4.7}_{-4.6}$ (−0.0 σ)	$\sigma_8(0.38)$	0.6747	$0.668^{+0.031}_{-0.032}$ (−0.1 σ)
A_{143}^{tSZ}	5.17	< 8.74 (−0.7 σ)	$n_{s,0.002}$	0.9637	$0.966^{+0.012}_{-0.012}$ (+0.2 σ)	$f\sigma_8(0.51)$	0.4845	$0.478^{+0.031}_{-0.031}$ (−0.1 σ)
$r_{143 \times 217}^{PS}$	0.560	$0.65^{+0.32}_{-0.32}$	Y_P	0.245306	$0.24532^{+0.00021}_{-0.00025}$ (+0.1 σ)	$\sigma_8(0.51)$	0.6311	$0.625^{+0.028}_{-0.029}$ (−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.70	—	Y_P^{BBN}	0.246632	$0.24665^{+0.00021}_{-0.00025}$ (+0.1 σ)	$f\sigma_8(0.61)$	0.4796	$0.473^{+0.030}_{-0.030}$ (−0.1 σ)
$\xi^{tSZ \times CIB}$	0.00	—	$10^5 D/H$	2.627	$2.62^{+0.10}_{-0.098}$ (−0.1 σ)	$\sigma_8(0.61)$	0.6003	$0.595^{+0.026}_{-0.027}$ (−0.1 σ)
A^{kSZ}	2.3	—	Age/Gyr	13.798	$13.797^{+0.074}_{-0.072}$ (−0.1 σ)	$f\sigma_8(2.33)$	0.3026	$0.300^{+0.013}_{-0.013}$ (−0.1 σ)
A_{100}^{dust}	1.03	$1.01^{+0.51}_{-0.51}$	z_*	1090.22	$1090.10^{+0.86}_{-0.85}$ (−0.1 σ)	$\sigma_8(2.33)$	0.3109	$0.309^{+0.011}_{-0.012}$ (−0.1 σ)
A_{143}^{dust}	0.987	$0.98^{+0.45}_{-0.45}$	r_*	144.53	$144.72^{+0.95}_{-0.95}$ (+0.0 σ)	f_{2000}^{143}	31.3	31^{+8}_{-8} (−0.1 σ)
A_{217}^{dust}	0.965	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	1.04113	$1.0412^{+0.0011}_{-0.0011}$ (+0.1 σ)	f_{2000}^{217}	108.1	$107.5^{+5.2}_{-5.2}$ (−0.3 σ)
$A_{143 \times 217}^{dust}$	1.017	$1.03^{+0.42}_{-0.42}$	$D_M(z_*)/\text{Gpc}$	13.883	$13.899^{+0.091}_{-0.091}$ (−0.0 σ)	$f_{2000}^{143 \times 217}$	33.2	33^{+6}_{-5} (−0.3 σ)
c_{100}	0.99756	$0.9975^{+0.0028}_{-0.0027}$ (−3.5 σ)	z_{drag}	1059.44	$1059.5^{+1.1}_{-1.2}$ (+0.1 σ)	χ_{simall}^2	396.06	$396.9 (\nu: 1.5)$ (−0.0 σ)
c_{217}	1.00140	$1.0012^{+0.0041}_{-0.0040}$ (+4.7 σ)	r_{drag}	147.27	$147.4^{+1.0}_{-1.0}$ (−0.0 σ)	χ_{lowl}^2	23.45	$23.05 (\nu: 0.5)$ (−0.2 σ)
H_0	68.19	$68.1^{+2.1}_{-2.1}$ (−0.0 σ)	k_D	0.14051	$0.1404^{+0.0012}_{-0.0012}$ (+0.0 σ)	$\chi_{CamSpec}^2$	7049.7	$7063.4 (\nu: 14.7)$
Ω_Λ	0.6924	$0.693^{+0.020}_{-0.020}$ (−0.0 σ)	$100\theta_D$	0.16106	$0.16104^{+0.00068}_{-0.00066}$ (−0.0 σ)	χ_{JLA}^2	1034.75	$1035.42 (\nu: 0.5)$ (−0.0 σ)
Ω_m	0.3076	$0.307^{+0.020}_{-0.020}$ (+0.0 σ)	z_{eq}	3403	3384^{+91}_{-90} (−0.0 σ)	χ_{6DF}^2	0.004	$0.049 (\nu: 0.0)$ (−0.0 σ)
$\Omega_m h^2$	0.14304	$0.1423^{+0.0038}_{-0.0038}$ (−0.0 σ)	k_{eq}	0.010386	$0.01033^{+0.00028}_{-0.00027}$ (−0.0 σ)	χ_{MGS}^2	1.47	$1.64 (\nu: 0.2)$ (−0.0 σ)
$\Omega_m h^3$	0.09754	$0.0969^{+0.0041}_{-0.0042}$ (−0.0 σ)	$100\theta_{eq}$	0.8126	$0.816^{+0.017}_{-0.016}$ (+0.0 σ)	$\chi_{DR12BAO}^2$	4.86	$4.8 (\nu: 1.0)$ (−0.1 σ)
σ_8	0.8238	$0.815^{+0.039}_{-0.039}$ (−0.1 σ)	$100\theta_{s,eq}$	0.4492	$0.4510^{+0.0088}_{-0.0085}$ (+0.0 σ)	χ_{prior}^2	3.0	$7.7 (\nu: 6.1)$ (+0.1 σ)
S_8	0.8342	$0.824^{+0.042}_{-0.042}$ (−0.1 σ)	$H(0.15)$	73.11	$73.2^{+1.4}_{-1.4}$ (+0.0 σ)	χ_{BAO}^2	6.33	$6.5 (\nu: 0.8)$ (−0.1 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4569	$0.451^{+0.023}_{-0.023}$ (−0.1 σ)	$D_M(0.15)$	637.6	638^{+16}_{-15} (+0.0 σ)	χ_{CMB}^2	7469.2	$7483.4 (\nu: 14.6)$ (+1152.8 σ)

Best-fit $\chi_{eff}^2 = 8513.28$; $\Delta\chi_{eff}^2 = 6293.04$; $\bar{\chi}_{eff}^2 = 8532.92$; $\Delta\bar{\chi}_{eff}^2 = 6291.76$; $R - 1 = 0.00642$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.47 (Δ -0.07) DR12BAO: 4.86 (Δ 0.40) CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 (Δ 0.21) commander_dx12_v3_2_29: 23.45 (Δ 0.30) CamSpec like_10.7HM: 7049.66 SN - JLA Pantheon18: 1034.75 (Δ 0.03)

18.52 base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00052}_{-0.00052} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.029}_{-0.030} \quad (-0.0\sigma)$	$H(0.51)$	$89.56^{+0.76}_{-0.76} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0032}_{-0.0033} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.1}_{-3.0} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1976^{+29}_{-29} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.062}_{-0.063} \quad (-0.1\sigma)$	$H(0.61)$	$95.11^{+0.78}_{-0.80} \quad (+0.1\sigma)$
τ	$0.054^{+0.021}_{-0.019} \quad (+0.1\sigma)$	z_{re}	$7.7^{+2.0}_{-2.0} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2301^{+30}_{-30} \quad (-0.0\sigma)$
w_0	$-1.028^{+0.083}_{-0.088} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.086}_{-0.078} \quad (-0.0\sigma)$	$H(2.33)$	$235.7^{+1.7}_{-1.8} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.040}_{-0.038} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+30}_{-30} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	D_{40}	$1227^{+32}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.020}_{-0.020} \quad (-0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5712^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.755^{+0.028}_{-0.028} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+70}_{-70} \quad (-0.7\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.480^{+0.023}_{-0.023} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.670^{+0.025}_{-0.025} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{2000}	$229.8^{+4.7}_{-4.5} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.479^{+0.024}_{-0.023} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.627^{+0.023}_{-0.023} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.7\sigma)$	Y_{P}	$0.24532^{+0.00020}_{-0.00025} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.024}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00025} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.596^{+0.021}_{-0.022} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.10}_{-0.094} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.301^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.073}_{-0.071} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3092^{+0.0094}_{-0.0093} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.11^{+0.79}_{-0.79} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	r_*	$144.68^{+0.80}_{-0.78} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.45}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.077}_{-0.075} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.34 \quad (\nu: 0.3) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	z_{drag}	$1059.5^{+1.1}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.40^{+0.85}_{-0.82} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.17 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1404^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.8 \quad (\nu: 13.2)$
H_0	$68.2^{+2.1}_{-2.0} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00069}_{-0.00064} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.38 \quad (\nu: 0.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.019}_{-0.020} \quad (-0.0\sigma)$	z_{eq}	$3388^{+74}_{-75} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.306^{+0.020}_{-0.019} \quad (+0.0\sigma)$	k_{eq}	$0.01034^{+0.00023}_{-0.00023} \quad (+0.0\sigma)$	χ_{MGS}^2	$1.65 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0031}_{-0.0031} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.014} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 0.7) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0971^{+0.0038}_{-0.0037} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4506^{+0.0073}_{-0.0070} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
σ_8	$0.817^{+0.030}_{-0.030} \quad (-0.0\sigma)$	$H(0.15)$	$73.2^{+1.4}_{-1.3} \quad (-0.0\sigma)$	χ_{CMB}^2	$7492.3 \quad (\nu: 14.3) \quad (+1154.5\sigma)$
S_8	$0.826^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-15} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 0.6) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.38)$	$82.97^{+0.82}_{-0.79} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.020}_{-0.021} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+26}_{-26} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8541.75; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.80; R - 1 = 0.00879$$

18.53 base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02220^{+0.00054}_{-0.00052} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.607^{+0.028}_{-0.028} \quad (-0.1\sigma)$	$H(0.38)$	$82.99^{+0.89}_{-0.87} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1194^{+0.0039}_{-0.0039} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.988^{+0.040}_{-0.040} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+27}_{-27} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.1}_{-3.0} \quad (-0.0\sigma)$	$H(0.51)$	$89.59^{+0.85}_{-0.87} \quad (+0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.085}_{-0.086} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1977^{+29}_{-30} \quad (-0.0\sigma)$
w_0	$-1.024^{+0.094}_{-0.096} \quad (+0.1\sigma)$	z_{re}	$< 9.48 \quad (-0.0\sigma)$	$H(0.61)$	$95.14^{+0.89}_{-0.90} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.042}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.090}_{-0.063} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2301^{+31}_{-31} \quad (-0.0\sigma)$
n_{s}	$0.966^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.032}_{-0.031} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+1.9}_{-1.9} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	D_{40}	$1225^{+35}_{-34} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+31}_{-31} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5709^{+110}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.027}_{-0.027} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2533^{+35}_{-36} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.754^{+0.035}_{-0.036} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (-0.1\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.030}_{-0.030} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$229.7^{+4.8}_{-4.6} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.669^{+0.030}_{-0.032} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.7\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.012} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.030}_{-0.030} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	Y_{P}	$0.24532^{+0.00021}_{-0.00025} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.626^{+0.028}_{-0.029} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00021}_{-0.00025} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.473^{+0.030}_{-0.030} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.10}_{-0.098} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.595^{+0.026}_{-0.027} \quad (-0.1\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.797^{+0.073}_{-0.073} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.300^{+0.013}_{-0.013} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	z_*	$1090.09^{+0.86}_{-0.85} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.309^{+0.011}_{-0.011} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.45}$	r_*	$144.72^{+0.95}_{-0.94} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.2}_{-5.2} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.090}_{-0.090} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.0\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.45^{+0.99}_{-0.99} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.07 \quad (\nu: 0.5) \quad (-0.2\sigma)$
H_0	$68.1^{+2.1}_{-2.1} \quad (-0.0\sigma)$	k_{D}	$0.1404^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.2 \quad (\nu: 14.5)$
Ω_{Λ}	$0.694^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00068}_{-0.00066} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.42 \quad (\nu: 0.5) \quad (-0.0\sigma)$
Ω_{m}	$0.306^{+0.020}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	$3384^{+90}_{-90} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.049 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0038}_{-0.0037} \quad (-0.0\sigma)$	k_{eq}	$0.01033^{+0.00027}_{-0.00027} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.64 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0969^{+0.0041}_{-0.0042} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.017}_{-0.016} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.0) \quad (-0.0\sigma)$
σ_8	$0.816^{+0.039}_{-0.039} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0088}_{-0.0084} \quad (+0.0\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
S_8	$0.824^{+0.042}_{-0.041} \quad (-0.1\sigma)$	$H(0.15)$	$73.2^{+1.4}_{-1.3} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.023}_{-0.023} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$638^{+15}_{-15} \quad (+0.0\sigma)$	χ_{CMB}^2	$7483.1 \quad (\nu: 14.2) \quad (+1173.7\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 8532.67$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.82$; $R - 1 = 0.00753$

18.54 base_w_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02220^{+0.00052}_{-0.00052} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.029}_{-0.029} \quad (-0.0\sigma)$	$H(0.51)$	$89.57^{+0.75}_{-0.74} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0031}_{-0.0032} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.2}_{-3.0} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1976^{+28}_{-29} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.443^{+0.062}_{-0.063} \quad (-0.1\sigma)$	$H(0.61)$	$95.12^{+0.78}_{-0.78} \quad (+0.0\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (+0.0\sigma)$	z_{re}	$< 9.43 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2301^{+29}_{-30} \quad (-0.0\sigma)$
w_0	$-1.027^{+0.083}_{-0.087} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.083}_{-0.058} \quad (-0.1\sigma)$	$H(2.33)$	$235.7^{+1.7}_{-1.8} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.028} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+30}_{-30} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	D_{40}	$1226^{+31}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.020}_{-0.020} \quad (+0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5711^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.028}_{-0.028} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+70}_{-70} \quad (-0.7\sigma)$	D_{810}	$2534^{+35}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.480^{+0.023}_{-0.023} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.670^{+0.024}_{-0.025} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{2000}	$229.8^{+4.7}_{-4.5} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.479^{+0.024}_{-0.023} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.627^{+0.023}_{-0.023} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.74 \quad (-0.7\sigma)$	Y_{P}	$0.24532^{+0.00020}_{-0.00025} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.475^{+0.024}_{-0.023} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00025} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.596^{+0.021}_{-0.021} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.62^{+0.10}_{-0.095} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.301^{+0.011}_{-0.011} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.796^{+0.072}_{-0.072} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3094^{+0.0093}_{-0.0091} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.10^{+0.79}_{-0.79} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	r_*	$144.69^{+0.80}_{-0.76} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.4^{+5.3}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.46}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.897^{+0.077}_{-0.073} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.30 \quad (\nu: 0.3) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	z_{drag}	$1059.5^{+1.2}_{-1.2} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.41^{+0.85}_{-0.82} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.16 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1404^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.8 \quad (\nu: 13.2)$
H_0	$68.2^{+2.1}_{-2.0} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00069}_{-0.00065} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.37 \quad (\nu: 0.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.019}_{-0.019} \quad (-0.0\sigma)$	z_{eq}	$3387^{+72}_{-74} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.306^{+0.019}_{-0.019} \quad (+0.0\sigma)$	k_{eq}	$0.01034^{+0.00022}_{-0.00023} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.65 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0030}_{-0.0031} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 0.7) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0971^{+0.0038}_{-0.0037} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0072}_{-0.0068} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
σ_8	$0.817^{+0.030}_{-0.030} \quad (-0.0\sigma)$	$H(0.15)$	$73.2^{+1.4}_{-1.3} \quad (-0.0\sigma)$	χ_{CMB}^2	$7492.2 \quad (\nu: 14.1) \quad (+1165.7\sigma)$
S_8	$0.826^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-15} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.5 \quad (\nu: 0.6) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.38)$	$82.98^{+0.82}_{-0.79} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.020}_{-0.021} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1524^{+26}_{-26} \quad (+0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 8541.57$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.89$; $R - 1 = 0.00916$

18.55 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022333	$0.02232^{+0.00038}_{-0.00039} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4496	$0.449^{+0.019}_{-0.019} \quad (-0.5\sigma)$	$H(0.38)$	83.09	$83.09^{+0.75}_{-0.70} \quad (-0.0\sigma)$
$\Omega_c h^2$	0.11922	$0.1192^{+0.0030}_{-0.0030} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.604^{+0.025}_{-0.024} \quad (-0.5\sigma)$	$D_M(0.38)$	1523.4	$1523^{+25}_{-25} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04096	$1.04093^{+0.00080}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9839	$0.984^{+0.035}_{-0.036} \quad (-0.5\sigma)$	$H(0.51)$	89.72	$89.70^{+0.66}_{-0.66} \quad (+0.0\sigma)$
τ	0.0533	$0.053^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$r_{drag} h$	100.36	$100.5^{+3.1}_{-3.0} \quad (-0.0\sigma)$	$D_M(0.51)$	1975.0	$1974^{+28}_{-28} \quad (+0.1\sigma)$
w_0	-1.017	$-1.020^{+0.086}_{-0.087} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.430	$2.431^{+0.075}_{-0.077} \quad (-0.5\sigma)$	$H(0.61)$	95.28	$95.25^{+0.69}_{-0.71} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0390	$3.039^{+0.044}_{-0.044} \quad (-0.4\sigma)$	z_{re}	7.57	$7.5^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$D_M(0.61)$	2299.3	$2299^{+28}_{-29} \quad (+0.1\sigma)$
n_s	0.9672	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s$	2.088	$2.088^{+0.094}_{-0.090} \quad (-0.4\sigma)$	$H(2.33)$	235.76	$235.7^{+1.5}_{-1.6} \quad (-0.5\sigma)$
y_{cal}	1.0005	$1.0005^{+0.0065}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8774	$1.877^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_M(2.33)$	5761.0	$5762^{+23}_{-24} \quad (+0.3\sigma)$
A_{100}^{PS}	234	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1223.3	$1224^{+31}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4558	$0.456^{+0.023}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{PS}	39.1	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5721^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	0.7508	$0.751^{+0.034}_{-0.034} \quad (-0.5\sigma)$
A_{217}^{PS}	102.1	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	2535.6	$2535^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4759	$0.476^{+0.027}_{-0.026} \quad (-0.5\sigma)$
A_{217}^{CIB}	44.4	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	816.4	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6657	$0.666^{+0.030}_{-0.030} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.56	$< 8.87 \quad (-0.8\sigma)$	D_{2000}	230.53	$230.3^{+4.1}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4751	$0.476^{+0.027}_{-0.027} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	0.597	$0.66^{+0.31}_{-0.33}$	$n_{s,0.002}$	0.9672	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6231	$0.623^{+0.027}_{-0.027} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.76	—	Y_P	0.245381	$0.24537^{+0.00014}_{-0.00017} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	0.4704	$0.471^{+0.027}_{-0.027} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	0.08	—	Y_P^{BBN}	0.246707	$0.24670^{+0.00014}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	0.5929	$0.593^{+0.026}_{-0.026} \quad (-0.4\sigma)$
A^{kSZ}	0.1	—	$10^5 D/H$	2.592	$2.595^{+0.074}_{-0.069} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.2990	$0.299^{+0.013}_{-0.013} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	Age/Gyr	13.786	$13.787^{+0.060}_{-0.060} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	0.3079	$0.308^{+0.011}_{-0.011} \quad (-0.4\sigma)$
A_{143}^{dust}	0.966	$0.96^{+0.46}_{-0.45}$	z_*	1089.90	$1089.91^{+0.65}_{-0.65} \quad (+0.2\sigma)$	f_{2000}^{143}	29.9	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.967	$0.97^{+0.27}_{-0.27}$	r_*	144.66	$144.67^{+0.72}_{-0.70} \quad (+0.7\sigma)$	f_{2000}^{217}	106.72	$106.8^{+5.0}_{-4.8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	1.04115	$1.04112^{+0.00080}_{-0.00078} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.0	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{100}	0.99766	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.894	$13.896^{+0.069}_{-0.067} \quad (+0.7\sigma)$	χ_{small}^2	395.88	$396.9 (\nu: 1.3) \quad (-0.1\sigma)$
c_{217}	1.00123	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	1059.78	$1059.77^{+0.81}_{-0.83} \quad (-0.7\sigma)$	χ_{lowl}^2	22.80	$22.94 (\nu: 0.4) \quad (-0.4\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.013}$	r_{drag}	147.34	$147.35^{+0.75}_{-0.73} \quad (+0.8\sigma)$	$\chi_{CamSpec}^2$	11499.9	$11514.5 (\nu: 16.0)$
c_{EE}	0.9922	$0.992^{+0.013}_{-0.012}$	k_D	0.14058	$0.14055^{+0.00083}_{-0.00087} \quad (-0.9\sigma)$	χ_{JLA}^2	1034.72	$1035.39 (\nu: 0.4) \quad (+0.0\sigma)$
H_0	68.11	$68.2^{+2.1}_{-2.0} \quad (-0.2\sigma)$	$100\theta_D$	0.160841	$0.16085^{+0.00049}_{-0.00048} \quad (+0.6\sigma)$	χ_{6DF}^2	0.002	$0.048 (\nu: 0.0) \quad (+0.0\sigma)$
Ω_Λ	0.6935	$0.694^{+0.019}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	3383	$3382^{+69}_{-69} \quad (-0.5\sigma)$	χ_{MGS}^2	1.54	$1.66 (\nu: 0.2) \quad (+0.0\sigma)$
Ω_m	0.3065	$0.306^{+0.019}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	0.010324	$0.01032^{+0.00021}_{-0.00021} \quad (-0.5\sigma)$	$\chi_{DR12BAO}^2$	4.10	$4.6 (\nu: 0.6) \quad (-0.2\sigma)$
$\Omega_m h^2$	0.14219	$0.1422^{+0.0029}_{-0.0029} \quad (-0.5\sigma)$	$100\theta_{eq}$	0.8167	$0.817^{+0.013}_{-0.013} \quad (+0.5\sigma)$	χ_{prior}^2	2.2	$7.8 (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^3$	0.09685	$0.0969^{+0.0039}_{-0.0038} \quad (-0.4\sigma)$	$100\theta_{s,eq}$	0.4512	$0.4512^{+0.0068}_{-0.0066} \quad (+0.5\sigma)$	χ_{BAO}^2	5.64	$6.26 (\nu: 0.5) \quad (-0.3\sigma)$
σ_8	0.8120	$0.813^{+0.036}_{-0.036} \quad (-0.5\sigma)$	$H(0.15)$	73.20	$73.2^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	11918.5	$11934.4 (\nu: 16.2) \quad (+1584.2\sigma)$
S_8	0.8208	$0.820^{+0.035}_{-0.034} \quad (-0.5\sigma)$	$D_M(0.15)$	637.5	$637^{+15}_{-15} \quad (+0.1\sigma)$			

Best-fit $\chi_{eff}^2 = 12961.06$; $\Delta\chi_{eff}^2 = 9154.81$; $\bar{\chi}_{eff}^2 = 12983.86$; $\Delta\bar{\chi}_{eff}^2 = 9150.66$; $R - 1 = 0.00833$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.54 (Δ -0.07) DR12BAO: 4.10 (Δ -0.25) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ -0.18) commander_dx12_v3_2_29: 22.80 (Δ -0.31) CamSpec like_10.7HM_1400_unified: 11499.86 SN - JLA Pantheon18: 1034.72 (Δ -0.02)

18.56 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02232^{+0.00038}_{-0.00038} \quad (-0.6\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.07^{+0.72}_{-0.66} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1194^{+0.0026}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.606^{+0.018}_{-0.019} \quad (-0.3\sigma)$	$D_M(0.38)$	$1522^{+25}_{-25} \quad (+0.1\sigma)$
$100\theta_{MC}$	$1.04091^{+0.00078}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.51)$	$89.68^{+0.62}_{-0.59} \quad (-0.1\sigma)$
τ	$0.054^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$r_{drag} h$	$100.5^{+3.1}_{-2.9} \quad (-0.0\sigma)$	$D_M(0.51)$	$1974^{+27}_{-28} \quad (+0.1\sigma)$
w_0	$-1.024^{+0.076}_{-0.081} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.058}_{-0.058} \quad (-0.4\sigma)$	$H(0.61)$	$95.22^{+0.62}_{-0.65} \quad (-0.1\sigma)$
$\ln(10^{10} A_s)$	$3.041^{+0.040}_{-0.037} \quad (-0.2\sigma)$	z_{re}	$7.6^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$D_M(0.61)$	$2299^{+28}_{-29} \quad (+0.1\sigma)$
n_s	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_s$	$2.094^{+0.086}_{-0.077} \quad (-0.2\sigma)$	$H(2.33)$	$235.7^{+1.4}_{-1.5} \quad (-0.4\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.878^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_M(2.33)$	$5762^{+23}_{-23} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1226^{+30}_{-29} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.754^{+0.027}_{-0.026} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.021}_{-0.021} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.668^{+0.024}_{-0.024} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.1}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.022}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{PS}$	$0.66^{+0.32}_{-0.34}$	$n_{s,0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.625^{+0.022}_{-0.022} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	—	Y_P	$0.24537^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.473^{+0.022}_{-0.021} \quad (-0.3\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P^{BBN}	$0.24670^{+0.00014}_{-0.00017} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.595^{+0.021}_{-0.021} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 D/H$	$2.595^{+0.073}_{-0.069} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.300^{+0.010}_{-0.010} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	Age/Gyr	$13.786^{+0.060}_{-0.059} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3089^{+0.0093}_{-0.0092} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.48}$	z_*	$1089.93^{+0.61}_{-0.61} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.63^{+0.66}_{-0.63} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+5.1}_{-4.8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	$1.02^{+0.42}_{-0.41}$	$100\theta_*$	$1.04110^{+0.00078}_{-0.00076} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/Gpc$	$13.892^{+0.063}_{-0.060} \quad (+0.6\sigma)$	$\chi_{lensing}^2$	$9.24 \quad (\nu: 0.3) \quad (+0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0041} \quad (+4.8\sigma)$	z_{drag}	$1059.77^{+0.81}_{-0.83} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	r_{drag}	$147.32^{+0.69}_{-0.66} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.07 \quad (\nu: 0.3) \quad (-0.2\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_D	$0.14059^{+0.00079}_{-0.00083} \quad (-0.8\sigma)$	$\chi_{CamSpec}^2$	$11514.1 \quad (\nu: 14.9)$
H_0	$68.2^{+2.2}_{-2.0} \quad (-0.1\sigma)$	$100\theta_D$	$0.16085^{+0.00050}_{-0.00047} \quad (+0.6\sigma)$	χ_{JLA}^2	$1035.35 \quad (\nu: 0.4) \quad (-0.0\sigma)$
Ω_Λ	$0.694^{+0.019}_{-0.019} \quad (-0.0\sigma)$	z_{eq}	$3386^{+60}_{-62} \quad (-0.4\sigma)$	χ_{6DF}^2	$0.047 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	$0.306^{+0.019}_{-0.019} \quad (+0.0\sigma)$	k_{eq}	$0.01033^{+0.00018}_{-0.00019} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.67 \quad (\nu: 0.2) \quad (+0.0\sigma)$
$\Omega_m h^2$	$0.1423^{+0.0025}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{eq}$	$0.816^{+0.012}_{-0.011} \quad (+0.3\sigma)$	$\chi_{DR12BAO}^2$	$4.60 \quad (\nu: 0.5) \quad (-0.1\sigma)$
$\Omega_m h^3$	$0.0971^{+0.0035}_{-0.0034} \quad (-0.3\sigma)$	$100\theta_{s,eq}$	$0.4509^{+0.0061}_{-0.0057} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	$0.815^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$H(0.15)$	$73.3^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.3 \quad (\nu: 16.1) \quad (+1592.3\sigma)$
S_8	$0.823^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_M(0.15)$	$637^{+15}_{-15} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.32 \quad (\nu: 0.4) \quad (-0.1\sigma)$

$$\bar{\chi}_{eff}^2 = 12992.76; \Delta\bar{\chi}_{eff}^2 = 9150.80; R - 1 = 0.01319$$

18.57 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.09^{+0.75}_{-0.70} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0031}_{-0.0030} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.024}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1523^{+25}_{-25} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00081}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.035}_{-0.034} \quad (-0.5\sigma)$	$H(0.51)$	$89.71^{+0.66}_{-0.66} \quad (+0.0\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.1}_{-3.0} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1974^{+28}_{-28} \quad (+0.1\sigma)$
w_0	$-1.020^{+0.086}_{-0.087} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.073}_{-0.071} \quad (-0.5\sigma)$	$H(0.61)$	$95.26^{+0.68}_{-0.71} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.042}_{-0.030} \quad (-0.4\sigma)$	z_{re}	$< 9.39 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2299^{+28}_{-29} \quad (+0.1\sigma)$
n_{s}	$0.967^{+0.010}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.090}_{-0.061} \quad (-0.4\sigma)$	$H(2.33)$	$235.7^{+1.5}_{-1.6} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5761^{+23}_{-24} \quad (+0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1224^{+31}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.022}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5721^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.752^{+0.033}_{-0.033} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.477^{+0.027}_{-0.025} \quad (-0.5\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.667^{+0.029}_{-0.028} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.1}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.027}_{-0.026} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.624^{+0.027}_{-0.026} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.027}_{-0.026} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.594^{+0.025}_{-0.025} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.594^{+0.072}_{-0.070} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.300^{+0.012}_{-0.012} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.787^{+0.059}_{-0.060} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.308^{+0.011}_{-0.010} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.90^{+0.65}_{-0.64} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.67^{+0.74}_{-0.70} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-4.8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	$100\theta_*$	$1.04112^{+0.00080}_{-0.00078} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.070}_{-0.066} \quad (+0.7\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	z_{drag}	$1059.78^{+0.80}_{-0.84} \quad (-0.6\sigma)$	χ_{lowl}^2	$22.96 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.36^{+0.75}_{-0.73} \quad (+0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.4 \quad (\nu: 15.9)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14056^{+0.00082}_{-0.00087} \quad (-0.9\sigma)$	χ_{JLA}^2	$1035.39 \quad (\nu: 0.4) \quad (+0.0\sigma)$
H_0	$68.2^{+2.1}_{-2.0} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16085^{+0.00048}_{-0.00048} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{Λ}	$0.694^{+0.019}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	$3382^{+69}_{-69} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.67 \quad (\nu: 0.2) \quad (+0.0\sigma)$
Ω_{m}	$0.306^{+0.019}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	$0.01032^{+0.00021}_{-0.00021} \quad (-0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0029}_{-0.0029} \quad (-0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.013} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0969^{+0.0039}_{-0.0039} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4513^{+0.0068}_{-0.0066} \quad (+0.5\sigma)$	χ_{BAO}^2	$6.25 \quad (\nu: 0.5) \quad (-0.3\sigma)$
σ_8	$0.814^{+0.035}_{-0.035} \quad (-0.4\sigma)$	$H(0.15)$	$73.2^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11934.1 \quad (\nu: 15.9) \quad (+1601.9\sigma)$
S_8	$0.821^{+0.035}_{-0.033} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-15} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12983.61; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.63; R - 1 = 0.00895$$

18.58 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00038}_{-0.00037} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.38)$	$83.08^{+0.72}_{-0.65} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1193^{+0.0026}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.018}_{-0.019} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1522^{+25}_{-25} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00078}_{-0.00077} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.987^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$H(0.51)$	$89.68^{+0.61}_{-0.59} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.1}_{-2.9} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1974^{+27}_{-28} \quad (+0.1\sigma)$
w_0	$-1.023^{+0.075}_{-0.079} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.057}_{-0.057} \quad (-0.4\sigma)$	$H(0.61)$	$95.23^{+0.62}_{-0.65} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.028} \quad (-0.3\sigma)$	z_{re}	$< 9.35 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2299^{+28}_{-29} \quad (+0.1\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.083}_{-0.058} \quad (-0.3\sigma)$	$H(2.33)$	$235.7^{+1.5}_{-1.5} \quad (-0.4\sigma)$
y_{cal}	$1.0006^{+0.0066}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+22}_{-23} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1226^{+30}_{-29} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.018} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5724^{+100}_{-100} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.754^{+0.027}_{-0.026} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.021}_{-0.020} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.669^{+0.024}_{-0.023} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.1}_{-4.3} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.021}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.626^{+0.022}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24537^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(0.61)$	$0.473^{+0.021}_{-0.021} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00014}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.595^{+0.021}_{-0.020} \quad (-0.3\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.595^{+0.071}_{-0.069} \quad (+0.6\sigma)$	$f\sigma_8(2.33)$	$0.300^{+0.010}_{-0.010} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.786^{+0.059}_{-0.059} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3090^{+0.0092}_{-0.0089} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.48}$	z_*	$1089.92^{+0.60}_{-0.61} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	r_*	$144.64^{+0.66}_{-0.63} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.8^{+5.1}_{-4.8} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.41}$	$100\theta_*$	$1.04110^{+0.00078}_{-0.00077} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9976^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.063}_{-0.059} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.20 \quad (\nu: 0.2) \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0042} \quad (+4.8\sigma)$	z_{drag}	$1059.78^{+0.80}_{-0.84} \quad (-0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.3) \quad (-0.1\sigma)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	r_{drag}	$147.32^{+0.69}_{-0.65} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.07 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14059^{+0.00078}_{-0.00083} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 14.9)$
H_0	$68.2^{+2.2}_{-2.0} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00048}_{-0.00047} \quad (+0.6\sigma)$	χ_{JLA}^2	$1035.35 \quad (\nu: 0.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.019}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	$3385^{+60}_{-62} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.047 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.306^{+0.019}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	$0.01033^{+0.00018}_{-0.00019} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.68 \quad (\nu: 0.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0025}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.012}_{-0.011} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.58 \quad (\nu: 0.5) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0971^{+0.0035}_{-0.0033} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0061}_{-0.0056} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
σ_8	$0.816^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$H(0.15)$	$73.3^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11943.1 \quad (\nu: 15.9) \quad (+1604.5\sigma)$
S_8	$0.823^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$637^{+15}_{-15} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.30 \quad (\nu: 0.4) \quad (-0.1\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12992.59; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.80; R - 1 = 0.01370$$

18.59 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02220^{+0.00051}_{-0.00051}$	$\sigma_8/h^{0.5}$	0.9958	$0.994^{+0.040}_{-0.039}$	$D_M(0.38)$	1511.7	1512^{+25}_{-24}
$\Omega_c h^2$	0.11980	$0.1197^{+0.0040}_{-0.0039}$	$r_{\text{drag}} h$	102.07	$102.1^{+2.8}_{-2.9}$	$H(0.51)$	89.55	$89.57^{+0.88}_{-0.91}$
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.450	$2.448^{+0.087}_{-0.086}$	$D_M(0.51)$	1963.6	1964^{+28}_{-27}
τ	0.0531	$0.053^{+0.023}_{-0.022}$	z_{re}	7.58	$7.5^{+2.2}_{-2.4}$	$H(0.61)$	94.98	$95.00^{+0.90}_{-0.92}$
w_0	-1.067	$-1.064^{+0.088}_{-0.089}$	$10^9 A_s$	2.092	$2.091^{+0.097}_{-0.090}$	$D_M(0.61)$	2288.8	2289^{+30}_{-29}
$\ln(10^{10} A_s)$	3.0408	$3.040^{+0.046}_{-0.044}$	$10^9 A_s e^{-2\tau}$	1.8814	$1.881^{+0.031}_{-0.031}$	$H(2.33)$	235.31	$235.3^{+2.0}_{-2.0}$
n_s	0.9656	$0.965^{+0.012}_{-0.012}$	D_{40}	1226.7	1229^{+34}_{-35}	$D_M(2.33)$	5763.7	5764^{+31}_{-31}
y_{cal}	1.0004	$1.0005^{+0.0064}_{-0.0064}$	D_{220}	5716	5721^{+100}_{-100}	$f\sigma_8(0.15)$	0.4626	$0.461^{+0.027}_{-0.026}$
A_{217}^{CIB}	48.5	48^{+20}_{-20}	D_{810}	2537.5	2537^{+35}_{-36}	$\sigma_8(0.15)$	0.7670	$0.765^{+0.034}_{-0.034}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.34	—	D_{1420}	816.0	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4872	$0.486^{+0.030}_{-0.029}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.24	$230.0^{+4.6}_{-4.4}$	$\sigma_8(0.38)$	0.6803	$0.679^{+0.030}_{-0.030}$
A_{100}^{PS}	254	262^{+70}_{-70}	$n_{s,0.002}$	0.9656	$0.965^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.4875	$0.486^{+0.030}_{-0.029}$
A_{143}^{PS}	49.3	48^{+20}_{-20}	Y_{P}	0.245328	$0.24532^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6365	$0.635^{+0.027}_{-0.027}$
$A_{143 \times 217}^{\text{PS}}$	47.2	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246655	$0.24665^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4832	$0.482^{+0.029}_{-0.029}$
A_{217}^{PS}	119.5	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.617	$2.618^{+0.098}_{-0.093}$	$\sigma_8(0.61)$	0.6055	$0.604^{+0.025}_{-0.025}$
A^{kSZ}	0.0	—	Age/Gyr	13.774	$13.775^{+0.071}_{-0.069}$	$f\sigma_8(2.33)$	0.3054	$0.305^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.92	$8.9^{+4.7}_{-4.7}$	z_*	1090.11	$1090.11^{+0.84}_{-0.81}$	$\sigma_8(2.33)$	0.3132	$0.313^{+0.011}_{-0.011}$
A_{143}^{dustTT}	10.83	$10.7^{+4.5}_{-4.6}$	r_*	144.61	$144.65^{+0.96}_{-0.94}$	f_{2000}^{143}	30.1	31^{+8}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.5	$18.3^{+8.4}_{-8.4}$	$100\theta_*$	1.04110	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.890	$13.894^{+0.092}_{-0.089}$	f_{2000}^{217}	107.53	$107.9^{+4.8}_{-4.7}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ_{small}^2	395.89	$397.0 (\nu: 1.6)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.33	$147.4^{+1.0}_{-0.98}$	χ_{lowl}^2	23.08	$23.28 (\nu: 0.5)$
H_0	69.28	$69.3^{+1.9}_{-1.9}$	k_{D}	0.14049	$0.1404^{+0.0012}_{-0.0012}$	χ_{plik}^2	758.8	$771.1 (\nu: 14.2)$
Ω_{Λ}	0.7028	$0.703^{+0.017}_{-0.019}$	$100\theta_{\text{D}}$	0.16099	$0.16101^{+0.00065}_{-0.00065}$	χ_{H073p45}^2	6.3	$6.6 (\nu: 2.7)$
Ω_{m}	0.2972	$0.297^{+0.019}_{-0.017}$	z_{eq}	3394	3390^{+92}_{-89}	χ_{JLA}^2	1036.11	$1036.6 (\nu: 1.8)$
$\Omega_{\text{m}} h^2$	0.14265	$0.1425^{+0.0038}_{-0.0037}$	k_{eq}	0.010358	$0.01035^{+0.00028}_{-0.00027}$	$\chi_{6\text{DF}}^2$	0.056	$0.098 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	0.09884	$0.0987^{+0.0038}_{-0.0039}$	$100\theta_{\text{eq}}$	0.8144	$0.815^{+0.017}_{-0.017}$	χ_{MGS}^2	2.35	$2.41 (\nu: 0.2)$
σ_8	0.8289	$0.827^{+0.038}_{-0.037}$	$100\theta_{\text{s,eq}}$	0.4501	$0.4504^{+0.0088}_{-0.0086}$	χ_{DR12BAO}^2	4.30	$4.78 (\nu: 0.5)$
S_8	0.8250	$0.823^{+0.043}_{-0.041}$	$H(0.15)$	73.83	$73.8^{+1.3}_{-1.3}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4519	$0.451^{+0.023}_{-0.023}$	$D_M(0.15)$	629.6	630^{+14}_{-14}	χ_{BAO}^2	6.70	$7.3 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6120	$0.611^{+0.028}_{-0.027}$	$H(0.38)$	83.14	$83.15^{+0.91}_{-0.91}$	χ_{CMB}^2	1177.8	$1191.4 (\nu: 14.5)$

Best-fit $\chi_{\text{eff}}^2 = 2228.28$; $\bar{\chi}_{\text{eff}}^2 = 2249.11$; $R - 1 = 0.00515$
 χ_{eff}^2 : BAO - 6DF: 0.06 MGS: 2.35 DR12BAO: 4.30 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.89 commander_dx12_v3.2.29: 23.08 plik_rd12_HM_v22.TT: 758.84
Hubble - H073p45: 6.30 SN - JLA Pantheon18: 1036.11

18.60 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02221^{+0.00051}_{-0.00050}$	$\sigma_8/h^{0.5}$	0.9924	$0.993^{+0.029}_{-0.029}$	$D_M(0.38)$	1510.7	1511^{+26}_{-24}
$\Omega_c h^2$	0.11947	$0.1196^{+0.0033}_{-0.0032}$	$r_{\text{drag}} h$	102.15	$102.1^{+2.8}_{-2.9}$	$H(0.51)$	89.62	$89.58^{+0.78}_{-0.80}$
$100\theta_{\text{MC}}$	1.04093	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.444	$2.447^{+0.062}_{-0.061}$	$D_M(0.51)$	1962.3	1963^{+28}_{-27}
τ	0.0529	$0.053^{+0.021}_{-0.020}$	z_{re}	7.55	$7.6^{+2.0}_{-2.2}$	$H(0.61)$	95.05	$95.02^{+0.80}_{-0.84}$
w_0	-1.063	$-1.064^{+0.080}_{-0.081}$	$10^9 A_s$	2.090	$2.092^{+0.085}_{-0.079}$	$D_M(0.61)$	2287.2	2288^{+30}_{-28}
$\ln(10^{10} A_s)$	3.0398	$3.040^{+0.040}_{-0.038}$	$10^9 A_s e^{-2\tau}$	1.8801	$1.880^{+0.029}_{-0.028}$	$H(2.33)$	235.16	$235.2^{+1.7}_{-1.7}$
n_s	0.9657	$0.965^{+0.011}_{-0.011}$	D_{40}	1226.9	1229^{+31}_{-30}	$D_M(2.33)$	5762.1	5763^{+30}_{-30}
y_{cal}	1.0005	$1.0005^{+0.0063}_{-0.0065}$	D_{220}	5721	5722^{+100}_{-100}	$f\sigma_8(0.15)$	0.4602	$0.461^{+0.020}_{-0.020}$
A_{217}^{CIB}	50.3	48^{+20}_{-20}	D_{810}	2537.0	2536^{+35}_{-34}	$\sigma_8(0.15)$	0.7646	$0.765^{+0.027}_{-0.027}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.09	—	D_{1420}	815.8	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4847	$0.485^{+0.023}_{-0.023}$
A_{143}^{tSZ}	7.2	—	D_{2000}	230.14	$229.9^{+4.6}_{-4.4}$	$\sigma_8(0.38)$	0.6783	$0.679^{+0.023}_{-0.024}$
A_{100}^{PS}	256	263^{+70}_{-70}	$n_{s,0.002}$	0.9657	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4852	$0.486^{+0.023}_{-0.023}$
A_{143}^{PS}	45.4	48^{+20}_{-20}	Y_{P}	0.245336	$0.24533^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6348	$0.635^{+0.021}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	40.4	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246662	$0.24665^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4810	$0.482^{+0.023}_{-0.023}$
A_{217}^{PS}	116.4	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	2.613	$2.616^{+0.098}_{-0.092}$	$\sigma_8(0.61)$	0.6039	$0.604^{+0.020}_{-0.021}$
A^{kSZ}	0.0	—	Age/Gyr	13.772	$13.774^{+0.071}_{-0.067}$	$f\sigma_8(2.33)$	0.3046	$0.3047^{+0.0098}_{-0.010}$
A_{100}^{dustTT}	8.84	$8.9^{+4.8}_{-4.5}$	z_*	1090.06	$1090.09^{+0.81}_{-0.76}$	$\sigma_8(2.33)$	0.3126	$0.3127^{+0.0089}_{-0.0087}$
A_{143}^{dustTT}	10.79	$10.7^{+4.4}_{-4.6}$	r_*	144.68	$144.66^{+0.82}_{-0.80}$	χ_{lensing}^2	8.67	$9.19 (\nu: 0.3)$
$A_{143 \times 217}^{\text{dustTT}}$	18.9	$18.3^{+8.1}_{-8.3}$	$100\theta_*$	1.04113	$1.0411^{+0.0011}_{-0.0011}$	χ_{small}^2	395.85	$396.9 (\nu: 1.4)$
A_{217}^{dustTT}	93.7	94^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.896	$13.895^{+0.078}_{-0.077}$	χ_{lowl}^2	23.07	$23.27 (\nu: 0.4)$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ_{plik}^2	758.9	$770.9 (\nu: 13.1)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.40	$147.38^{+0.88}_{-0.85}$	χ_{H073p45}^2	6.2	$6.5 (\nu: 2.6)$
H_0	69.31	$69.3^{+1.9}_{-1.9}$	k_{D}	0.14044	$0.1404^{+0.0011}_{-0.0011}$	χ_{JLA}^2	1036.03	$1036.6 (\nu: 1.7)$
Ω_{Λ}	0.7037	$0.703^{+0.017}_{-0.019}$	$100\theta_{\text{D}}$	0.16098	$0.16100^{+0.00065}_{-0.00064}$	$\chi_{6\text{DF}}^2$	0.067	$0.10 (\nu: 0.0)$
Ω_{m}	0.2963	$0.297^{+0.019}_{-0.017}$	z_{eq}	3386	3388^{+75}_{-75}	χ_{MGS}^2	2.43	$2.44 (\nu: 0.2)$
$\Omega_{\text{m}} h^2$	0.14234	$0.1424^{+0.0032}_{-0.0031}$	k_{eq}	0.010335	$0.01034^{+0.00023}_{-0.00023}$	χ_{DR12BAO}^2	4.18	$4.66 (\nu: 0.3)$
$\Omega_{\text{m}} h^3$	0.09865	$0.0987^{+0.0034}_{-0.0035}$	$100\theta_{\text{eq}}$	0.8158	$0.815^{+0.014}_{-0.014}$	χ_{prior}^2	1.5	$7.2 (\nu: 6.6)$
σ_8	0.8261	$0.827^{+0.029}_{-0.029}$	$100\theta_{s,\text{eq}}$	0.4508	$0.4506^{+0.0072}_{-0.0071}$	χ_{CMB}^2	1186.5	$1200.2 (\nu: 14.2)$
S_8	0.8211	$0.822^{+0.031}_{-0.031}$	$H(0.15)$	73.88	$73.8^{+1.3}_{-1.3}$	χ_{BAO}^2	6.68	$7.2 (\nu: 0.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4497	$0.450^{+0.017}_{-0.017}$	$D_M(0.15)$	629.3	630^{+15}_{-13}			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6095	$0.610^{+0.020}_{-0.020}$	$H(0.38)$	83.21	$83.17^{+0.81}_{-0.83}$			

Best-fit $\chi_{\text{eff}}^2 = 2237.00$; $\bar{\chi}_{\text{eff}}^2 = 2257.74$; $R - 1 = 0.00918$

χ_{eff}^2 : BAO - 6DF: 0.07 MGS: 2.43 DR12BAO: 4.18 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.68 small_100x143.offlike5_EE_Aplanck_B: 395.85 commander_dx12.v3.2.29: 23.07 plik_rd12_HM.v22_TT: 758.91 Hubble - H073p45: 6.23 SN - JLA Pantheon18: 1036.03

18.61 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02221^{+0.00050}_{-0.00051}$	$\sigma_8/h^{0.5}$	$0.995^{+0.039}_{-0.038}$	$D_M(0.38)$	1512^{+25}_{-24}
$\Omega_c h^2$	$0.1196^{+0.0039}_{-0.0039}$	$r_{\text{drag}} h$	$102.1^{+2.8}_{-2.9}$	$H(0.51)$	$89.58^{+0.88}_{-0.89}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.085}_{-0.082}$	$D_M(0.51)$	1964^{+28}_{-27}
τ	$0.054^{+0.019}_{-0.013}$	z_{re}	< 9.53	$H(0.61)$	$95.01^{+0.90}_{-0.91}$
w_0	$-1.064^{+0.088}_{-0.089}$	$10^9 A_s$	$2.097^{+0.093}_{-0.062}$	$D_M(0.61)$	2289^{+30}_{-29}
$\ln(10^{10} A_s)$	$3.043^{+0.044}_{-0.030}$	$10^9 A_s e^{-2\tau}$	$1.881^{+0.031}_{-0.031}$	$H(2.33)$	$235.3^{+2.0}_{-2.0}$
n_s	$0.965^{+0.012}_{-0.012}$	D_{40}	1229^{+34}_{-34}	$D_M(2.33)$	5763^{+31}_{-31}
y_{cal}	$1.0005^{+0.0063}_{-0.0065}$	D_{220}	5721^{+100}_{-100}	$f\sigma_8(0.15)$	$0.462^{+0.027}_{-0.026}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+35}_{-36}	$\sigma_8(0.15)$	$0.766^{+0.034}_{-0.034}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.486^{+0.030}_{-0.029}$
A_{143}^{tSZ}	$5.2^{+4.5}_{-4.7}$	D_{2000}	$230.0^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.680^{+0.029}_{-0.029}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{s,0.002}$	$0.965^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.487^{+0.030}_{-0.029}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.24533^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.636^{+0.027}_{-0.026}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24665^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.482^{+0.029}_{-0.029}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.617^{+0.099}_{-0.092}$	$\sigma_8(0.61)$	$0.605^{+0.025}_{-0.025}$
A^{kSZ}	—	Age/Gyr	$13.774^{+0.071}_{-0.069}$	$f\sigma_8(2.33)$	$0.305^{+0.012}_{-0.012}$
A_{100}^{dustTT}	$9.0^{+4.7}_{-4.7}$	z_*	$1090.09^{+0.84}_{-0.80}$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.010}$
A_{143}^{dustTT}	$10.7^{+4.5}_{-4.6}$	r_*	$144.66^{+0.97}_{-0.93}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.4}_{-8.4}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	$13.894^{+0.092}_{-0.088}$	f_{2000}^{217}	$107.8^{+4.9}_{-4.7}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.4^{+1.0}_{-0.97}$	χ_{lowl}^2	$23.29 (\nu: 0.5)$
H_0	$69.3^{+1.9}_{-2.0}$	k_{D}	$0.1404^{+0.0012}_{-0.0012}$	χ_{plik}^2	$770.9 (\nu: 14.0)$
Ω_{Λ}	$0.703^{+0.017}_{-0.019}$	$100\theta_{\text{D}}$	$0.16100^{+0.00065}_{-0.00064}$	χ_{H073p45}^2	$6.6 (\nu: 2.7)$
Ω_{m}	$0.297^{+0.019}_{-0.017}$	z_{eq}	3389^{+90}_{-90}	χ_{JLA}^2	$1036.6 (\nu: 1.8)$
$\Omega_{\text{m}} h^2$	$0.1425^{+0.0038}_{-0.0037}$	k_{eq}	$0.01034^{+0.00027}_{-0.00027}$	$\chi_{6\text{DF}}^2$	$0.099 (\nu: 0.0)$
$\Omega_{\text{m}} h^3$	$0.0987^{+0.0038}_{-0.0039}$	$100\theta_{\text{eq}}$	$0.815^{+0.017}_{-0.016}$	χ_{MGS}^2	$2.42 (\nu: 0.2)$
σ_8	$0.828^{+0.037}_{-0.036}$	$100\theta_{\text{s,eq}}$	$0.4505^{+0.0088}_{-0.0084}$	χ_{DR12BAO}^2	$4.76 (\nu: 0.5)$
S_8	$0.824^{+0.042}_{-0.041}$	$H(0.15)$	$73.8^{+1.3}_{-1.3}$	χ_{prior}^2	$7.3 (\nu: 6.6)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.451^{+0.023}_{-0.023}$	$D_M(0.15)$	630^{+14}_{-14}	χ_{BAO}^2	$7.3 (\nu: 0.7)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.611^{+0.028}_{-0.027}$	$H(0.38)$	$83.16^{+0.92}_{-0.91}$	χ_{CMB}^2	$1191.1 (\nu: 14.1)$

$$\bar{\chi}_{\text{eff}}^2 = 2248.83; R - 1 = 0.00554$$

18.62 base_w_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02222^{+0.00050}_{-0.00051}$	$r_{\text{drag}} h$	$102.1^{+2.8}_{-2.9}$	$D_M(0.51)$	1963^{+29}_{-26}
$\Omega_c h^2$	$0.1195^{+0.0031}_{-0.0032}$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.062}_{-0.059}$	$H(0.61)$	$95.04^{+0.79}_{-0.80}$
$100\theta_{\text{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	z_{re}	< 9.44	$D_M(0.61)$	2288^{+30}_{-28}
τ	$0.054^{+0.019}_{-0.013}$	$10^9 A_s$	$2.096^{+0.082}_{-0.056}$	$H(2.33)$	$235.2^{+1.7}_{-1.7}$
w_0	$-1.062^{+0.080}_{-0.079}$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.029}_{-0.028}$	$D_M(2.33)$	5763^{+31}_{-29}
$\ln(10^{10} A_s)$	$3.043^{+0.039}_{-0.027}$	D_{40}	1228^{+31}_{-30}	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020}$
n_s	$0.965^{+0.010}_{-0.011}$	D_{220}	5722^{+100}_{-100}	$\sigma_8(0.15)$	$0.765^{+0.027}_{-0.027}$
y_{cal}	$1.0005^{+0.0063}_{-0.0066}$	D_{810}	2536^{+35}_{-35}	$f\sigma_8(0.38)$	$0.485^{+0.023}_{-0.022}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.679^{+0.023}_{-0.024}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{2000}	$230.0^{+4.6}_{-4.4}$	$f\sigma_8(0.51)$	$0.486^{+0.023}_{-0.023}$
A_{143}^{tSZ}	—	$n_{\text{s},0.002}$	$0.965^{+0.010}_{-0.011}$	$\sigma_8(0.51)$	$0.635^{+0.021}_{-0.022}$
A_{100}^{PS}	262^{+70}_{-70}	Y_{P}	$0.24533^{+0.00019}_{-0.00024}$	$f\sigma_8(0.61)$	$0.482^{+0.023}_{-0.023}$
A_{143}^{PS}	48^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24666^{+0.00019}_{-0.00024}$	$\sigma_8(0.61)$	$0.604^{+0.020}_{-0.020}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$10^5 D/H$	$2.615^{+0.098}_{-0.091}$	$f\sigma_8(2.33)$	$0.3049^{+0.0098}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.773^{+0.071}_{-0.067}$	$\sigma_8(2.33)$	$0.3129^{+0.0087}_{-0.0085}$
A^{kSZ}	—	z_*	$1090.07^{+0.78}_{-0.75}$	f_{2000}^{143}	31^{+7}_{-7}
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.5}$	r_*	$144.68^{+0.82}_{-0.78}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{143}^{dustTT}	$10.7^{+4.4}_{-4.6}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.6}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.2}_{-8.3}$	$D_M(z_*)/\text{Gpc}$	$13.896^{+0.078}_{-0.076}$	χ_{lensing}^2	$9.17 (\nu: 0.3)$
A_{217}^{dustTT}	94^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.40^{+0.87}_{-0.82}$	χ_{lowl}^2	$23.26 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1404^{+0.0011}_{-0.0011}$	χ_{plik}^2	$770.7 (\nu: 13.0)$
H_0	$69.3^{+1.9}_{-2.0}$	$100\theta_{\text{D}}$	$0.16099^{+0.00065}_{-0.00064}$	χ_{H073p45}^2	$6.5 (\nu: 2.6)$
Ω_{Λ}	$0.703^{+0.017}_{-0.019}$	z_{eq}	3386^{+72}_{-74}	χ_{JLA}^2	$1036.5 (\nu: 1.6)$
Ω_{m}	$0.297^{+0.019}_{-0.017}$	k_{eq}	$0.01034^{+0.00022}_{-0.00022}$	$\chi_{6\text{DF}}^2$	$0.10 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1424^{+0.0030}_{-0.0031}$	$100\theta_{\text{eq}}$	$0.816^{+0.014}_{-0.013}$	χ_{MGS}^2	$2.46 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	$0.0986^{+0.0034}_{-0.0034}$	$100\theta_{\text{s,eq}}$	$0.4508^{+0.0071}_{-0.0068}$	χ_{DR12BAO}^2	$4.63 (\nu: 0.3)$
σ_8	$0.827^{+0.029}_{-0.029}$	$H(0.15)$	$73.8^{+1.3}_{-1.3}$	χ_{prior}^2	$7.2 (\nu: 6.6)$
S_8	$0.822^{+0.031}_{-0.030}$	$D_M(0.15)$	630^{+15}_{-13}	χ_{CMB}^2	$1200.0 (\nu: 13.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.450^{+0.017}_{-0.017}$	$H(0.38)$	$83.19^{+0.81}_{-0.82}$	χ_{BAO}^2	$7.2 (\nu: 0.6)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.610^{+0.020}_{-0.020}$	$D_M(0.38)$	1511^{+26}_{-24}		
$\sigma_8/h^{0.5}$	$0.994^{+0.029}_{-0.029}$	$H(0.51)$	$89.60^{+0.77}_{-0.76}$		

$$\bar{\chi}_{\text{eff}}^2 = 2257.48; R - 1 = 0.01061$$

18.63 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022427	$0.02240^{+0.00036}_{-0.00035}$	σ_8	0.8277	$0.828^{+0.033}_{-0.032}$	$D_M(0.15)$	628.7	629^{+14}_{-14}
$\Omega_c h^2$	0.11971	$0.1198^{+0.0030}_{-0.0030}$	S_8	0.8233	$0.824^{+0.033}_{-0.033}$	$H(0.38)$	83.33	$83.29^{+0.72}_{-0.70}$
$100\theta_{MC}$	1.04099	$1.04097^{+0.00077}_{-0.00077}$	$\sigma_8 \Omega_m^{0.5}$	0.4510	$0.451^{+0.018}_{-0.018}$	$D_M(0.38)$	1509.1	1510^{+23}_{-23}
τ	0.0546	$0.055^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6109	$0.612^{+0.023}_{-0.023}$	$H(0.51)$	89.75	$89.71^{+0.67}_{-0.68}$
w_0	-1.061	$-1.063^{+0.078}_{-0.081}$	$\sigma_8/h^{0.5}$	0.9939	$0.995^{+0.034}_{-0.034}$	$D_M(0.51)$	1959.9	1961^{+25}_{-25}
$\ln(10^{10} A_s)$	3.0442	$3.045^{+0.045}_{-0.042}$	$r_{drag} h$	102.02	$102.0^{+2.9}_{-2.8}$	$H(0.61)$	95.20	$95.16^{+0.70}_{-0.71}$
n_s	0.9666	$0.966^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.451^{+0.076}_{-0.074}$	$D_M(0.61)$	2284.3	2285^{+26}_{-26}
y_{cal}	1.0003	$1.0006^{+0.0062}_{-0.0063}$	z_{re}	7.68	$7.7^{+2.1}_{-2.2}$	$H(2.33)$	235.55	$235.6^{+1.5}_{-1.5}$
A_{217}^{CIB}	47.0	47^{+20}_{-20}	$10^9 A_s$	2.099	$2.101^{+0.096}_{-0.087}$	$D_M(2.33)$	5753.4	5755^{+22}_{-23}
$\xi^{tSZ \times CIB}$	0.52	—	$10^9 A_s e^{-2\tau}$	1.8821	$1.882^{+0.029}_{-0.029}$	$f\sigma_8(0.15)$	0.4613	$0.462^{+0.022}_{-0.021}$
A_{143}^{tSZ}	7.14	$5.5^{+4.4}_{-4.5}$	D_{40}	1227.2	1229^{+32}_{-31}	$\sigma_8(0.15)$	0.7659	$0.767^{+0.031}_{-0.030}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{220}	5734	5735^{+100}_{-100}	$f\sigma_8(0.38)$	0.4856	$0.486^{+0.025}_{-0.025}$
A_{143}^{PS}	48.8	45^{+20}_{-20}	D_{810}	2539.9	2539^{+34}_{-34}	$\sigma_8(0.38)$	0.6795	$0.680^{+0.027}_{-0.026}$
$A_{143 \times 217}^{PS}$	49.7	42^{+20}_{-20}	D_{1420}	818.2	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4860	$0.487^{+0.026}_{-0.025}$
A_{217}^{PS}	120.0	115^{+30}_{-30}	D_{2000}	231.33	$231.1^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	0.6359	$0.636^{+0.025}_{-0.024}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9666	$0.966^{+0.010}_{-0.011}$	$f\sigma_8(0.61)$	0.4818	$0.482^{+0.025}_{-0.025}$
A_{100}^{dustTT}	8.85	$8.9^{+4.7}_{-4.7}$	Y_P	0.245418	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.6050	$0.605^{+0.023}_{-0.022}$
A_{143}^{dustTT}	11.02	$10.9^{+4.6}_{-4.7}$	Y_P^{BBN}	0.246745	$0.24673^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3052	$0.305^{+0.012}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.4}_{-8.7}$	$10^5 D/H$	2.575	$2.580^{+0.067}_{-0.064}$	$\sigma_8(2.33)$	0.3132	$0.313^{+0.010}_{-0.0097}$
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	Age/Gyr	13.752	$13.755^{+0.053}_{-0.053}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.095}$	z_*	1089.82	$1089.86^{+0.61}_{-0.62}$	$f_{2000}^{143 \times 217}$	31.94	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.134	$0.135^{+0.077}_{-0.075}$	r_*	144.46	$144.47^{+0.67}_{-0.66}$	f_{2000}^{217}	106.43	$106.9^{+4.5}_{-4.5}$
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04117	$1.04115^{+0.00076}_{-0.00076}$	χ_{small}^2	396.06	$397.2 (\nu: 2.0)$
A_{143}^{dustTE}	0.224	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.875	$13.876^{+0.064}_{-0.062}$	χ_{lowl}^2	23.05	$23.25 (\nu: 0.4)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.66^{+0.21}_{-0.21}$	z_{drag}	1060.05	$1059.99^{+0.74}_{-0.75}$	χ_{plik}^2	2344.5	$2359.1 (\nu: 17.0)$
A_{217}^{dustTE}	2.09	$2.08^{+0.69}_{-0.69}$	r_{drag}	147.10	$147.12^{+0.68}_{-0.68}$	$\chi_{H073p45}^2$	6.1	$6.3 (\nu: 2.5)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14090	$0.14086^{+0.00079}_{-0.00078}$	χ_{JLA}^2	1035.90	$1036.5 (\nu: 1.8)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160700	$0.16073^{+0.00045}_{-0.00043}$	χ_{6DF}^2	0.055	$0.09 (\nu: 0.0)$
H_0	69.35	$69.4^{+2.0}_{-1.9}$	z_{eq}	3397	3398^{+67}_{-67}	χ_{MGS}^2	2.35	$2.40 (\nu: 0.2)$
Ω_Λ	0.7031	$0.703^{+0.017}_{-0.018}$	k_{eq}	0.010367	$0.01037^{+0.00020}_{-0.00020}$	$\chi_{DR12BAO}^2$	4.21	$4.65 (\nu: 0.3)$
Ω_m	0.2969	$0.297^{+0.018}_{-0.017}$	$100\theta_{eq}$	0.8145	$0.814^{+0.013}_{-0.012}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.2)$
$\Omega_m h^2$	0.14278	$0.1428^{+0.0028}_{-0.0028}$	$100\theta_{s,eq}$	0.4500	$0.4499^{+0.0066}_{-0.0064}$	χ_{BAO}^2	6.61	$7.1 (\nu: 0.6)$
$\Omega_m h^3$	0.09902	$0.0991^{+0.0035}_{-0.0034}$	$H(0.15)$	73.95	$73.9^{+1.2}_{-1.2}$	χ_{CMB}^2	2763.6	$2779.5 (\nu: 16.6)$

Best-fit $\chi_{eff}^2 = 3813.86$; $\bar{\chi}_{eff}^2 = 3841.02$; $R - 1 = 0.00783$

χ_{eff}^2 : BAO - 6DF: 0.06 MGS: 2.35 DR12BAO: 4.21 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3_2_29: 23.05 plik_rd12_HM_v22b_TTTEEE: 2344.47 Hubble - H073p45: 6.09 SN - JLA Pantheon18: 1035.90

18.64 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022427	$0.02241^{+0.00035}_{-0.00035}$	σ_8	0.8281	$0.827^{+0.027}_{-0.026}$	$D_M(0.15)$	628.7	629^{+14}_{-13}
$\Omega_c h^2$	0.11967	$0.1197^{+0.0027}_{-0.0027}$	S_8	0.8237	$0.823^{+0.027}_{-0.027}$	$H(0.38)$	83.33	$83.32^{+0.69}_{-0.67}$
$100\theta_{MC}$	1.04098	$1.04098^{+0.00077}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	0.4512	$0.451^{+0.015}_{-0.015}$	$D_M(0.38)$	1509.1	1509^{+24}_{-23}
τ	0.0552	$0.055^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.25}$	0.6112	$0.611^{+0.018}_{-0.018}$	$H(0.51)$	89.75	$89.74^{+0.61}_{-0.61}$
w_0	-1.060	$-1.061^{+0.075}_{-0.078}$	$\sigma_8/h^{0.5}$	0.9944	$0.993^{+0.026}_{-0.026}$	$D_M(0.51)$	1959.9	1960^{+26}_{-25}
$\ln(10^{10} A_s)$	3.0457	$3.044^{+0.040}_{-0.037}$	$r_{drag} h$	102.02	$102.1^{+2.8}_{-2.8}$	$H(0.61)$	95.20	$95.18^{+0.64}_{-0.63}$
n_s	0.9667	$0.9660^{+0.0096}_{-0.0099}$	$\langle d^2 \rangle^{1/2}$	2.449	$2.448^{+0.057}_{-0.056}$	$D_M(0.61)$	2284.3	2285^{+27}_{-26}
y_{cal}	1.0005	$1.0006^{+0.0062}_{-0.0063}$	z_{re}	7.75	$7.7^{+2.0}_{-2.0}$	$H(2.33)$	235.53	$235.5^{+1.5}_{-1.4}$
A_{217}^{CIB}	46.6	47^{+20}_{-20}	$10^9 A_s$	2.103	$2.099^{+0.085}_{-0.077}$	$D_M(2.33)$	5753.5	5754^{+21}_{-22}
$\xi^{tSZ \times CIB}$	0.52	—	$10^9 A_s e^{-2\tau}$	1.8827	$1.882^{+0.027}_{-0.027}$	$f\sigma_8(0.15)$	0.4614	$0.461^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.19	$5.5^{+4.5}_{-4.5}$	D_{40}	1227.5	1229^{+29}_{-28}	$\sigma_8(0.15)$	0.7664	$0.766^{+0.026}_{-0.025}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{220}	5736	5736^{+100}_{-99}	$f\sigma_8(0.38)$	0.4858	$0.485^{+0.020}_{-0.020}$
A_{143}^{PS}	48.4	45^{+20}_{-20}	D_{810}	2540.8	2539^{+33}_{-34}	$\sigma_8(0.38)$	0.6799	$0.679^{+0.023}_{-0.022}$
$A_{143 \times 217}^{PS}$	49.5	42^{+20}_{-20}	D_{1420}	818.5	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4862	$0.486^{+0.021}_{-0.020}$
A_{217}^{PS}	120.6	115^{+30}_{-30}	D_{2000}	231.43	$231.1^{+3.9}_{-4.0}$	$\sigma_8(0.51)$	0.6362	$0.636^{+0.021}_{-0.020}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9667	$0.9660^{+0.0096}_{-0.0099}$	$f\sigma_8(0.61)$	0.4820	$0.482^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.82	$8.9^{+4.7}_{-4.6}$	Y_P	0.245418	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	0.6053	$0.605^{+0.020}_{-0.019}$
A_{143}^{dustTT}	10.97	$10.9^{+4.7}_{-4.6}$	Y_P^{BBN}	0.246745	$0.24674^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	0.3053	$0.3050^{+0.0099}_{-0.0095}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.3}_{-8.5}$	$10^5 D/H$	2.575	$2.579^{+0.067}_{-0.063}$	$\sigma_8(2.33)$	0.3134	$0.3131^{+0.0089}_{-0.0083}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	Age/Gyr	13.752	$13.754^{+0.054}_{-0.052}$	$\chi^2_{lensing}$	8.70	$9.09 (\nu: 0.2)$
A_{100}^{dustTE}	0.114	$0.114^{+0.096}_{-0.098}$	z_*	1089.82	$1089.84^{+0.58}_{-0.59}$	χ^2_{small}	396.19	$397.0 (\nu: 1.5)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.078}_{-0.074}$	r_*	144.47	$144.49^{+0.62}_{-0.60}$	χ^2_{lowl}	23.05	$23.20 (\nu: 0.3)$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04116	$1.04116^{+0.00076}_{-0.00074}$	χ^2_{plik}	2344.4	$2359.1 (\nu: 16.3)$
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.876	$13.878^{+0.058}_{-0.057}$	$\chi^2_{H073p45}$	6.1	$6.3 (\nu: 2.5)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.21}_{-0.21}$	z_{drag}	1060.05	$1060.00^{+0.73}_{-0.76}$	χ^2_{JLA}	1035.89	$1036.5 (\nu: 1.7)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.67}$	r_{drag}	147.11	$147.14^{+0.62}_{-0.61}$	χ^2_{6DF}	0.055	$0.097 (\nu: 0.0)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0015}$	k_D	0.14089	$0.14085^{+0.00074}_{-0.00073}$	χ^2_{MGS}	2.35	$2.42 (\nu: 0.2)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160699	$0.16072^{+0.00045}_{-0.00043}$	$\chi^2_{DR12BAO}$	4.20	$4.58 (\nu: 0.2)$
H_0	69.35	$69.4^{+1.9}_{-1.9}$	z_{eq}	3396	3395^{+60}_{-60}	χ^2_{prior}	1.6	$11.6 (\nu: 10.2)$
Ω_Λ	0.7032	$0.703^{+0.017}_{-0.018}$	k_{eq}	0.010364	$0.01036^{+0.00018}_{-0.00018}$	χ^2_{CMB}	2772.3	$2788.3 (\nu: 16.7)$
Ω_m	0.2968	$0.297^{+0.018}_{-0.017}$	$100\theta_{eq}$	0.8147	$0.815^{+0.011}_{-0.011}$	χ^2_{BAO}	6.60	$7.1 (\nu: 0.6)$
$\Omega_m h^2$	0.14274	$0.1427^{+0.0025}_{-0.0025}$	$100\theta_{s,eq}$	0.4501	$0.4501^{+0.0058}_{-0.0057}$			
$\Omega_m h^3$	0.09899	$0.0990^{+0.0033}_{-0.0032}$	$H(0.15)$	73.95	$74.0^{+1.2}_{-1.2}$			

Best-fit $\chi^2_{eff} = 3822.55$; $\bar{\chi}^2_{eff} = 3849.70$; $R - 1 = 0.00999$

χ^2_{eff} : BAO - 6DF: 0.06 MGS: 2.35 DR12BAO: 4.20 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.70 small_100x143_offlike5_EE_Aplanck_B: 396.19 commander_dx12.v3.2.29: 23.05 plik_rd12_HM_v22b_TTTEEE: 2344.38 Hubble - H073p45: 6.10 SN - JLA Pantheon18: 1035.89

18.65 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00036}_{-0.00035}$	σ_8	$0.829^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	629^{+14}_{-14}
$\Omega_{\mathrm{c}}h^2$	$0.1198^{+0.0030}_{-0.0030}$	S_8	$0.825^{+0.033}_{-0.033}$	$H(0.38)$	$83.30^{+0.71}_{-0.70}$
$100\theta_{\mathrm{MC}}$	$1.04097^{+0.00077}_{-0.00077}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1510^{+24}_{-23}
τ	$0.056^{+0.020}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.023}_{-0.022}$	$H(0.51)$	$89.72^{+0.67}_{-0.68}$
w_0	$-1.062^{+0.078}_{-0.080}$	$\sigma_8/h^{0.5}$	$0.996^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.51)$	1961^{+26}_{-25}
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.044}_{-0.030}$	$r_{\mathrm{drag}}h$	$102.0^{+2.9}_{-2.8}$	$H(0.61)$	$95.16^{+0.69}_{-0.71}$
n_{s}	$0.966^{+0.010}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.453^{+0.074}_{-0.071}$	$D_{\mathrm{M}}(0.61)$	2285^{+27}_{-26}
y_{cal}	$1.0006^{+0.0062}_{-0.0063}$	z_{re}	< 9.61	$H(2.33)$	$235.6^{+1.5}_{-1.5}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.105^{+0.094}_{-0.063}$	$D_{\mathrm{M}}(2.33)$	5755^{+22}_{-23}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.029}_{-0.029}$	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.5}$	D_{40}	1229^{+32}_{-31}	$\sigma_8(0.15)$	$0.767^{+0.031}_{-0.029}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5735^{+100}_{-100}	$f\sigma_8(0.38)$	$0.487^{+0.025}_{-0.024}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+35}_{-35}	$\sigma_8(0.38)$	$0.681^{+0.027}_{-0.025}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.487^{+0.025}_{-0.025}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$231.1^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	$0.637^{+0.025}_{-0.024}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.011}$	$f\sigma_8(0.61)$	$0.483^{+0.025}_{-0.024}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$\sigma_8(0.61)$	$0.606^{+0.023}_{-0.022}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.306^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.4}_{-8.7}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.580^{+0.067}_{-0.064}$	$\sigma_8(2.33)$	$0.314^{+0.010}_{-0.0094}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.755^{+0.053}_{-0.053}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.098}_{-0.095}$	z_*	$1089.86^{+0.61}_{-0.62}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.076}_{-0.075}$	r_*	$144.47^{+0.67}_{-0.66}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.5}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04115^{+0.00076}_{-0.00076}$	χ_{simall}^2	$397.1 (\nu: 2.1)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.876^{+0.063}_{-0.062}$	χ_{lowl}^2	$23.26 (\nu: 0.4)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	z_{drag}	$1060.00^{+0.74}_{-0.75}$	χ_{plik}^2	$2358.9 (\nu: 16.7)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.69}$	r_{drag}	$147.12^{+0.68}_{-0.67}$	$\chi_{\mathrm{H073p45}}^2$	$6.3 (\nu: 2.5)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14086^{+0.00078}_{-0.00077}$	χ_{JLA}^2	$1036.5 (\nu: 1.7)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16073^{+0.00045}_{-0.00043}$	$\chi_{6\mathrm{DF}}^2$	$0.09 (\nu: 0.0)$
H_0	$69.3^{+2.0}_{-1.9}$	z_{eq}	3397^{+67}_{-67}	χ_{MGS}^2	$2.40 (\nu: 0.2)$
Ω_{Λ}	$0.703^{+0.017}_{-0.018}$	k_{eq}	$0.01037^{+0.00020}_{-0.00020}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.64 (\nu: 0.3)$
Ω_{m}	$0.297^{+0.018}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.013}_{-0.012}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1428^{+0.0028}_{-0.0028}$	$100\theta_{\mathrm{s,eq}}$	$0.4499^{+0.0065}_{-0.0064}$	χ_{BAO}^2	$7.1 (\nu: 0.6)$
$\Omega_{\mathrm{m}}h^3$	$0.0990^{+0.0034}_{-0.0034}$	$H(0.15)$	$73.9^{+1.2}_{-1.2}$	χ_{CMB}^2	$2779.3 (\nu: 16.2)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3840.79; R - 1 = 0.00674$$

18.66 base_w_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02241^{+0.00035}_{-0.00035}$	S_8	$0.823^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1509^{+24}_{-23}
$\Omega_{\mathrm{c}}h^2$	$0.1196^{+0.0026}_{-0.0026}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015}$	$H(0.51)$	$89.75^{+0.61}_{-0.60}$
$100\theta_{\mathrm{MC}}$	$1.04098^{+0.00077}_{-0.00076}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.51)$	1960^{+26}_{-25}
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8/h^{0.5}$	$0.994^{+0.025}_{-0.025}$	$H(0.61)$	$95.19^{+0.64}_{-0.63}$
w_0	$-1.060^{+0.075}_{-0.076}$	$r_{\mathrm{drag}}h$	$102.1^{+2.8}_{-2.9}$	$D_{\mathrm{M}}(0.61)$	2284^{+27}_{-26}
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.038}_{-0.027}$	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.056}_{-0.055}$	$H(2.33)$	$235.5^{+1.5}_{-1.4}$
n_{s}	$0.9661^{+0.0096}_{-0.0099}$	z_{re}	< 9.42	$D_{\mathrm{M}}(2.33)$	5754^{+21}_{-22}
y_{cal}	$1.0005^{+0.0062}_{-0.0063}$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.082}_{-0.057}$	$f\sigma_8(0.15)$	$0.461^{+0.017}_{-0.016}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.026}_{-0.027}$	$\sigma_8(0.15)$	$0.766^{+0.026}_{-0.024}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1229^{+29}_{-28}	$f\sigma_8(0.38)$	$0.485^{+0.020}_{-0.020}$
A_{143}^{tSZ}	> 1.10	D_{220}	5736^{+100}_{-98}	$\sigma_8(0.38)$	$0.679^{+0.023}_{-0.022}$
A_{100}^{PS}	257^{+70}_{-70}	D_{810}	2539^{+33}_{-34}	$f\sigma_8(0.51)$	$0.486^{+0.021}_{-0.020}$
A_{143}^{PS}	45^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.51)$	$0.636^{+0.021}_{-0.020}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$231.1^{+3.9}_{-4.0}$	$f\sigma_8(0.61)$	$0.482^{+0.020}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.9661^{+0.0096}_{-0.0099}$	$\sigma_8(0.61)$	$0.605^{+0.020}_{-0.019}$
A^{kSZ}	—	Y_{P}	$0.24541^{+0.00013}_{-0.00014}$	$f\sigma_8(2.33)$	$0.3051^{+0.0099}_{-0.0094}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.6}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24674^{+0.00013}_{-0.00014}$	$\sigma_8(2.33)$	$0.3133^{+0.0087}_{-0.0082}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.578^{+0.067}_{-0.063}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.6^{+8.3}_{-8.5}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.754^{+0.054}_{-0.052}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	z_*	$1089.83^{+0.59}_{-0.58}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.5}$
$A_{100}^{\mathrm{dustTE}}$	$0.114^{+0.096}_{-0.097}$	r_*	$144.50^{+0.61}_{-0.59}$	$\chi_{\mathrm{lensing}}^2$	$9.07\ (\nu: 0.2)$
$A_{100\times 143}^{\mathrm{dustTE}}$	$0.135^{+0.077}_{-0.074}$	$100\theta_*$	$1.04116^{+0.00076}_{-0.00075}$	χ_{simall}^2	$396.9\ (\nu: 1.5)$
$A_{100\times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.879^{+0.057}_{-0.056}$	χ_{lowl}^2	$23.20\ (\nu: 0.3)$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1060.01^{+0.73}_{-0.76}$	χ_{plik}^2	$2358.9\ (\nu: 16.1)$
$A_{143\times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.15^{+0.62}_{-0.61}$	$\chi_{\mathrm{H073p45}}^2$	$6.3\ (\nu: 2.5)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.69}_{-0.66}$	k_{D}	$0.14084^{+0.00074}_{-0.00073}$	χ_{JLA}^2	$1036.4\ (\nu: 1.6)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\mathrm{D}}$	$0.16072^{+0.00046}_{-0.00042}$	$\chi_{6\mathrm{DF}}^2$	$0.097\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3394^{+59}_{-60}	χ_{MGS}^2	$2.43\ (\nu: 0.2)$
H_0	$69.4^{+1.9}_{-1.9}$	k_{eq}	$0.01036^{+0.00018}_{-0.00018}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.56\ (\nu: 0.2)$
Ω_{Λ}	$0.703^{+0.017}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.011}_{-0.011}$	χ_{prior}^2	$11.5\ (\nu: 10.1)$
Ω_{m}	$0.297^{+0.018}_{-0.017}$	$100\theta_{\mathrm{s,eq}}$	$0.4502^{+0.0058}_{-0.0056}$	χ_{CMB}^2	$2788.1\ (\nu: 16.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0025}_{-0.0025}$	$H(0.15)$	$74.0^{+1.2}_{-1.2}$	χ_{BAO}^2	$7.1\ (\nu: 0.6)$
$\Omega_{\mathrm{m}}h^3$	$0.0989^{+0.0032}_{-0.0032}$	$D_{\mathrm{M}}(0.15)$	629^{+14}_{-13}		
σ_8	$0.828^{+0.027}_{-0.026}$	$H(0.38)$	$83.32^{+0.68}_{-0.68}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3849.47; R - 1 = 0.00919$$

18.67 base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02220	$0.02222^{+0.00052}_{-0.00050}$	(+0.1 σ)	$\sigma_8/h^{0.5}$	1.0025	$0.993^{+0.040}_{-0.042}$	(−0.1 σ)	$H(0.51)$	89.52	$89.62^{+0.90}_{-0.87}$	(+0.1 σ)
$\Omega_c h^2$	0.12017	$0.1196^{+0.0038}_{-0.0041}$	(−0.1 σ)	$r_{\text{drag}} h$	101.84	$102.1^{+2.8}_{-3.0}$	(+0.0 σ)	$D_M(0.51)$	1965.5	1963^{+28}_{-26}	(−0.1 σ)
$100\theta_{\text{MC}}$	1.04099	$1.0410^{+0.0011}_{-0.0011}$	(+0.2 σ)	$\langle d^2 \rangle^{1/2}$	2.467	$2.444^{+0.085}_{-0.092}$	(−0.1 σ)	$H(0.61)$	94.97	$95.05^{+0.94}_{-0.89}$	(+0.1 σ)
τ	0.0574	$0.054^{+0.023}_{-0.021}$	(+0.1 σ)	z_{re}	8.03	$7.6^{+2.2}_{-2.3}$	(+0.1 σ)	$D_M(0.61)$	2290.7	2288^{+29}_{-28}	(−0.1 σ)
w_0	−1.067	$-1.062^{+0.091}_{-0.091}$	(+0.1 σ)	$10^9 A_s$	2.112	$2.09^{+0.10}_{-0.092}$	(−0.0 σ)	$H(2.33)$	235.56	$235.3^{+1.9}_{-1.9}$	(+0.0 σ)
$\ln(10^{10} A_s)$	3.0502	$3.040^{+0.047}_{-0.045}$	(−0.0 σ)	$10^9 A_s e^{-2\tau}$	1.8828	$1.878^{+0.031}_{-0.032}$	(−0.2 σ)	$D_M(2.33)$	5763.6	5762^{+30}_{-31}	(−0.2 σ)
n_s	0.9645	$0.966^{+0.013}_{-0.012}$	(+0.2 σ)	D_{40}	1230.8	1225^{+35}_{-35}	(−0.3 σ)	$f\sigma_8(0.15)$	0.4665	$0.461^{+0.027}_{-0.028}$	(−0.1 σ)
y_{cal}	1.0010	$1.0005^{+0.0065}_{-0.0064}$	(−0.0 σ)	D_{220}	5717	5711^{+110}_{-100}	(−0.2 σ)	$\sigma_8(0.15)$	0.7713	$0.765^{+0.035}_{-0.036}$	(−0.1 σ)
A_{100}^{PS}	239	241^{+60}_{-60}	(−0.8 σ)	D_{810}	2536.9	2534^{+36}_{-35}	(−0.2 σ)	$f\sigma_8(0.38)$	0.4908	$0.485^{+0.030}_{-0.032}$	(−0.1 σ)
A_{143}^{PS}	42.8	40^{+20}_{-20}	(−1.0 σ)	D_{1420}	815.4	815^{+13}_{-13}	(−0.1 σ)	$\sigma_8(0.38)$	0.6839	$0.678^{+0.030}_{-0.031}$	(−0.0 σ)
A_{217}^{PS}	97.1	101^{+30}_{-30}	(−1.3 σ)	D_{2000}	230.16	$230.0^{+4.7}_{-4.5}$	(+0.0 σ)	$f\sigma_8(0.51)$	0.4909	$0.485^{+0.030}_{-0.032}$	(−0.1 σ)
A_{217}^{CIB}	46.2	41^{+20}_{-20}	(−1.1 σ)	$n_{s,0.002}$	0.9645	$0.966^{+0.013}_{-0.012}$	(+0.2 σ)	$\sigma_8(0.51)$	0.6398	$0.635^{+0.027}_{-0.029}$	(−0.0 σ)
A_{143}^{tSZ}	5.70	< 8.83	(−0.6 σ)	Y_P	0.245327	$0.24533^{+0.00020}_{-0.00023}$	(+0.1 σ)	$f\sigma_8(0.61)$	0.4864	$0.481^{+0.029}_{-0.031}$	(−0.1 σ)
$r_{143 \times 217}^{\text{PS}}$	0.566	$0.65^{+0.31}_{-0.33}$		Y_P^{BBN}	0.246653	$0.24666^{+0.00020}_{-0.00023}$	(+0.1 σ)	$\sigma_8(0.61)$	0.6086	$0.604^{+0.025}_{-0.027}$	(−0.0 σ)
$r_{143 \times 217}^{\text{CIB}}$	0.91	—		10^5D/H	2.617	$2.614^{+0.096}_{-0.095}$	(−0.1 σ)	$f\sigma_8(2.33)$	0.3068	$0.305^{+0.012}_{-0.013}$	(−0.0 σ)
$\xi^{\text{tSZ} \times \text{CIB}}$	0.29	—		Age/Gyr	13.773	$13.771^{+0.068}_{-0.069}$	(−0.1 σ)	$\sigma_8(2.33)$	0.3147	$0.313^{+0.011}_{-0.011}$	(−0.0 σ)
A^{kSZ}	1.7	—		z_*	1090.14	$1090.07^{+0.81}_{-0.86}$	(−0.1 σ)	f_{2000}^{143}	31.1	30^{+8}_{-8}	(−0.2 σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$		r_*	144.51	$144.65^{+0.99}_{-0.91}$	(+0.0 σ)	f_{2000}^{217}	107.4	$107.3^{+5.2}_{-5.2}$	(−0.3 σ)
A_{143}^{dust}	1.003	$0.98^{+0.45}_{-0.45}$		$100\theta_*$	1.04119	$1.0412^{+0.0011}_{-0.0011}$	(+0.2 σ)	$f_{2000}^{143 \times 217}$	32.6	33^{+6}_{-5}	(−0.3 σ)
A_{217}^{dust}	0.954	$0.97^{+0.27}_{-0.26}$		$D_M(z_*)/\text{Gpc}$	13.880	$13.893^{+0.094}_{-0.087}$	(−0.0 σ)	χ_{small}^2	396.83	$397.0 (\nu: 1.7)$	(+0.0 σ)
$A_{143 \times 217}^{\text{dust}}$	0.931	$1.03^{+0.42}_{-0.41}$		z_{drag}	1059.55	$1059.6^{+1.1}_{-1.1}$	(+0.1 σ)	χ_{lowl}^2	23.38	$23.02 (\nu: 0.5)$	(−0.3 σ)
c_{100}	0.99751	$0.9975^{+0.0027}_{-0.0027}$	(−3.4 σ)	r_{drag}	147.23	$147.4^{+1.0}_{-0.96}$	(−0.0 σ)	χ_{CamSpec}^2	7049.3	$7063.1 (\nu: 14.5)$	
c_{217}	1.00152	$1.0012^{+0.0040}_{-0.0041}$	(+4.7 σ)	k_D	0.14059	$0.1405^{+0.0012}_{-0.0012}$	(+0.0 σ)	χ_{H073p45}^2	6.6	$6.6 (\nu: 2.7)$	(−0.0 σ)
H_0	69.17	$69.3^{+1.9}_{-2.0}$	(+0.0 σ)	$100\theta_D$	0.16100	$0.16099^{+0.00067}_{-0.00063}$	(−0.1 σ)	χ_{JLA}^2	1035.92	$1036.5 (\nu: 1.8)$	(−0.0 σ)
Ω_Λ	0.7011	$0.703^{+0.017}_{-0.019}$	(+0.0 σ)	z_{eq}	3402	3388^{+87}_{-94}	(−0.0 σ)	$\chi_{6\text{DF}}^2$	0.036	$0.099 (\nu: 0.0)$	(+0.0 σ)
Ω_m	0.2989	$0.297^{+0.019}_{-0.017}$	(−0.0 σ)	k_{eq}	0.010384	$0.01034^{+0.00027}_{-0.00029}$	(−0.0 σ)	χ_{MGS}^2	2.19	$2.43 (\nu: 0.2)$	(+0.0 σ)
$\Omega_m h^2$	0.14302	$0.1424^{+0.0036}_{-0.0039}$	(−0.0 σ)	$100\theta_{\text{eq}}$	0.8129	$0.815^{+0.018}_{-0.016}$	(+0.1 σ)	χ_{DR12BAO}^2	4.41	$4.71 (\nu: 0.4)$	(−0.1 σ)
$\Omega_m h^3$	0.09893	$0.0987^{+0.0040}_{-0.0041}$	(−0.0 σ)	$100\theta_{s,\text{eq}}$	0.4493	$0.4506^{+0.0094}_{-0.0082}$	(+0.1 σ)	χ_{prior}^2	2.6	$7.6 (\nu: 6.0)$	(+0.1 σ)
σ_8	0.8338	$0.826^{+0.038}_{-0.040}$	(−0.1 σ)	$H(0.15)$	73.74	$73.8^{+1.2}_{-1.3}$	(+0.1 σ)	χ_{BAO}^2	6.64	$7.2 (\nu: 0.7)$	(−0.0 σ)
S_8	0.8322	$0.822^{+0.041}_{-0.044}$	(−0.1 σ)	$D_M(0.15)$	630.5	630^{+14}_{-13}	(−0.0 σ)	χ_{CMB}^2	7469.5	$7483.1 (\nu: 14.6)$	(+1168.0 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4558	$0.450^{+0.023}_{-0.024}$	(−0.1 σ)	$H(0.38)$	83.09	$83.20^{+0.89}_{-0.87}$	(+0.1 σ)				
$\sigma_8 \Omega_m^{0.25}$	0.6165	$0.610^{+0.028}_{-0.029}$	(−0.1 σ)	$D_M(0.38)$	1513.4	1511^{+25}_{-23}	(−0.1 σ)				

Best-fit $\chi_{\text{eff}}^2 = 8521.38$; $\Delta\chi_{\text{eff}}^2 = 6293.10$; $\bar{\chi}_{\text{eff}}^2 = 8541.10$; $\Delta\bar{\chi}_{\text{eff}}^2 = 6291.99$; $R - 1 = 0.00624$
 χ_{eff}^2 : BAO - 6DF: 0.04 (Δ -0.02) MGS: 2.19 (Δ -0.16) DR12BAO: 4.41 (Δ 0.11) CMB - simall_100x143_offlike5_EE_Aplanck.B: 396.83 (Δ 0.94) commander_dx12.v3.2.29: 23.38 (Δ 0.29) CamSpec like_10.7HM: 7049.34 Hubble - H073p45: 6.64 (Δ 0.34) SN - JLA Pantheon18: 1035.92 (Δ -0.19)

18.68 base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00051}_{-0.00049} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.028}_{-0.030} \quad (+0.1\sigma)$	$H(0.51)$	$89.61^{+0.80}_{-0.77} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0032}_{-0.0033} \quad (+0.0\sigma)$	$r_{\mathrm{drag}} h$	$102.1^{+2.9}_{-3.0} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1963^{+28}_{-27} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0012}_{-0.0011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.061}_{-0.064} \quad (-0.0\sigma)$	$H(0.61)$	$95.04^{+0.83}_{-0.79} \quad (+0.1\sigma)$
τ	$0.054^{+0.022}_{-0.020} \quad (+0.1\sigma)$	z_{re}	$7.7^{+2.1}_{-2.1} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2288^{+30}_{-28} \quad (-0.1\sigma)$
w_0	$-1.063^{+0.082}_{-0.082} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.087}_{-0.077} \quad (+0.0\sigma)$	$H(2.33)$	$235.3^{+1.7}_{-1.7} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.038} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.029} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+28}_{-30} \quad (-0.1\sigma)$
n_{s}	$0.966^{+0.012}_{-0.011} \quad (+0.2\sigma)$	D_{40}	$1226^{+32}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020} \quad (+0.0\sigma)$
y_{cal}	$1.0006^{+0.0065}_{-0.0063} \quad (+0.0\sigma)$	D_{220}	$5713^{+110}_{-99} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.766^{+0.027}_{-0.028} \quad (+0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.486^{+0.023}_{-0.023} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$815^{+14}_{-12} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.679^{+0.023}_{-0.024} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.3\sigma)$	D_{2000}	$230.0^{+4.7}_{-4.3} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.486^{+0.023}_{-0.024} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.636^{+0.021}_{-0.022} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.95 \quad (-0.7\sigma)$	Y_{P}	$0.24533^{+0.00019}_{-0.00023} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.482^{+0.023}_{-0.023} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.31}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00020}_{-0.00023} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.605^{+0.020}_{-0.021} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.613^{+0.094}_{-0.092} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.3049^{+0.0099}_{-0.010} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.068}_{-0.069} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3130^{+0.0088}_{-0.0090} \quad (+0.1\sigma)$
A^{kSZ}	—	z_*	$1090.07^{+0.76}_{-0.77} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.50}$	r_*	$144.64^{+0.84}_{-0.78} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.1}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.43}_{-0.44}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.082}_{-0.075} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.25 \quad (\nu: 0.3) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{drag}	$1059.6^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.35^{+0.88}_{-0.84} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.08 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1405^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.7 \quad (\nu: 13.7)$
H_0	$69.3^{+1.9}_{-2.0} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16098^{+0.00066}_{-0.00064} \quad (-0.1\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.5 \quad (\nu: 2.6) \quad (-0.0\sigma)$
Ω_{Λ}	$0.703^{+0.017}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	$3390^{+71}_{-75} \quad (+0.0\sigma)$	χ_{JLA}^2	$1036.6 \quad (\nu: 1.7) \quad (+0.0\sigma)$
Ω_{m}	$0.297^{+0.019}_{-0.017} \quad (-0.0\sigma)$	k_{eq}	$0.01035^{+0.00022}_{-0.00023} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.10 \quad (\nu: 0.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0030}_{-0.0031} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.013} \quad (-0.0\sigma)$	χ_{MGS}^2	$2.45 \quad (\nu: 0.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0987^{+0.0035}_{-0.0036} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0073}_{-0.0068} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.64 \quad (\nu: 0.3) \quad (-0.0\sigma)$
σ_8	$0.827^{+0.029}_{-0.030} \quad (+0.1\sigma)$	$H(0.15)$	$73.9^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
S_8	$0.823^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$629^{+15}_{-13} \quad (-0.0\sigma)$	χ_{CMB}^2	$7492.0 \quad (\nu: 14.8) \quad (+1178.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (+0.0\sigma)$	$H(0.38)$	$83.20^{+0.83}_{-0.79} \quad (+0.1\sigma)$	χ_{BAO}^2	$7.2 \quad (\nu: 0.6) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.020}_{-0.021} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1511^{+25}_{-23} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8549.81; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.07; R - 1 = 0.01112$$

18.69 base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02223^{+0.00052}_{-0.00050} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.039}_{-0.041} \quad (-0.1\sigma)$	$H(0.51)$	$89.62^{+0.90}_{-0.86} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0038}_{-0.0041} \quad (-0.0\sigma)$	$r_{\mathrm{drag}} h$	$102.1^{+2.8}_{-3.0} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1963^{+28}_{-26} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.083}_{-0.087} \quad (-0.1\sigma)$	$H(0.61)$	$95.06^{+0.94}_{-0.88} \quad (+0.1\sigma)$
τ	$0.055^{+0.020}_{-0.013} \quad (+0.1\sigma)$	z_{re}	$< 9.60 \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2288^{+29}_{-28} \quad (-0.1\sigma)$
w_0	$-1.061^{+0.091}_{-0.091} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.096}_{-0.063} \quad (-0.0\sigma)$	$H(2.33)$	$235.3^{+1.9}_{-1.9} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.045}_{-0.031} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.031}_{-0.031} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5761^{+30}_{-31} \quad (-0.2\sigma)$
n_{s}	$0.966^{+0.013}_{-0.012} \quad (+0.2\sigma)$	D_{40}	$1225^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.027}_{-0.028} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5711^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.765^{+0.034}_{-0.036} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.8\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.485^{+0.030}_{-0.031} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.679^{+0.029}_{-0.031} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$230.0^{+4.7}_{-4.5} \quad (+0.0\sigma)$	$f\sigma_8(0.51)$	$0.486^{+0.030}_{-0.032} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.013}_{-0.012} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.635^{+0.027}_{-0.028} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.7\sigma)$	Y_{P}	$0.24533^{+0.00020}_{-0.00024} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.482^{+0.029}_{-0.031} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00020}_{-0.00024} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.605^{+0.025}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.613^{+0.097}_{-0.094} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.305^{+0.012}_{-0.013} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.771^{+0.069}_{-0.068} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.011}_{-0.011} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.06^{+0.81}_{-0.86} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	r_*	$144.66^{+0.98}_{-0.92} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.2^{+5.2}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.093}_{-0.087} \quad (-0.0\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.8) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{drag}	$1059.6^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{lowl}^2	$23.03 \quad (\nu: 0.5) \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.4^{+1.0}_{-0.95} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.9 \quad (\nu: 14.4)$
c_{217}	$1.0012^{+0.0041}_{-0.0041} \quad (+4.6\sigma)$	k_{D}	$0.1405^{+0.0012}_{-0.0012} \quad (+0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.6 \quad (\nu: 2.7) \quad (-0.0\sigma)$
H_0	$69.3^{+1.9}_{-2.0} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00067}_{-0.00062} \quad (-0.1\sigma)$	χ_{JLA}^2	$1036.5 \quad (\nu: 1.8) \quad (-0.0\sigma)$
Ω_{Λ}	$0.703^{+0.017}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	$3388^{+87}_{-94} \quad (-0.0\sigma)$	χ_{6DF}^2	$0.10 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.297^{+0.019}_{-0.017} \quad (-0.0\sigma)$	k_{eq}	$0.01034^{+0.00027}_{-0.00029} \quad (-0.0\sigma)$	χ_{MGS}^2	$2.44 \quad (\nu: 0.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1424^{+0.0037}_{-0.0039} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.018}_{-0.016} \quad (+0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.70 \quad (\nu: 0.4) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0986^{+0.0040}_{-0.0041} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0093}_{-0.0082} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.827^{+0.038}_{-0.039} \quad (-0.1\sigma)$	$H(0.15)$	$73.8^{+1.2}_{-1.3} \quad (+0.0\sigma)$	χ_{BAO}^2	$7.2 \quad (\nu: 0.7) \quad (-0.0\sigma)$
S_8	$0.823^{+0.041}_{-0.042} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$630^{+14}_{-13} \quad (-0.0\sigma)$	χ_{CMB}^2	$7482.9 \quad (\nu: 14.3) \quad (+1185.8\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.022}_{-0.023} \quad (-0.1\sigma)$	$H(0.38)$	$83.20^{+0.90}_{-0.87} \quad (+0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.028}_{-0.029} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1511^{+25}_{-23} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8540.87; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6292.04; R - 1 = 0.00534$$

18.70 base_w_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits		Parameter	99% limits		Parameter	99% limits	
$\Omega_{\mathrm{b}}h^2$	$0.02223^{+0.00050}_{-0.00049}$	$(+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.028}_{-0.029}$	$(+0.0\sigma)$	$H(0.51)$	$89.62^{+0.79}_{-0.76}$	$(+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1195^{+0.0031}_{-0.0032}$	$(+0.0\sigma)$	$r_{\mathrm{drag}}h$	$102.1^{+2.9}_{-3.0}$	$(+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	1963^{+28}_{-27}	(-0.0σ)
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0012}_{-0.0011}$	$(+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.061}_{-0.063}$	(-0.0σ)	$H(0.61)$	$95.06^{+0.82}_{-0.78}$	$(+0.1\sigma)$
τ	$0.055^{+0.019}_{-0.014}$	$(+0.1\sigma)$	z_{re}	< 9.53	$(+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	2287^{+30}_{-28}	(-0.0σ)
w_0	$-1.062^{+0.081}_{-0.081}$	(-0.0σ)	$10^9 A_{\mathrm{s}}$	$2.097^{+0.084}_{-0.059}$	$(+0.0\sigma)$	$H(2.33)$	$235.3^{+1.7}_{-1.7}$	$(+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.028}$	$(+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.029}$	(-0.2σ)	$D_{\mathrm{M}}(2.33)$	5761^{+29}_{-30}	(-0.1σ)
n_{s}	$0.966^{+0.011}_{-0.011}$	$(+0.2\sigma)$	D_{40}	1226^{+32}_{-31}	(-0.2σ)	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020}$	$(+0.0\sigma)$
y_{cal}	$1.0005^{+0.0065}_{-0.0063}$	$(+0.0\sigma)$	D_{220}	5713^{+110}_{-100}	(-0.2σ)	$\sigma_8(0.15)$	$0.766^{+0.027}_{-0.028}$	$(+0.0\sigma)$
A_{100}^{PS}	241^{+60}_{-60}	(-0.7σ)	D_{810}	2534^{+36}_{-35}	(-0.2σ)	$f\sigma_8(0.38)$	$0.486^{+0.023}_{-0.023}$	$(+0.0\sigma)$
A_{143}^{PS}	40^{+20}_{-20}	(-1.0σ)	D_{1420}	815^{+14}_{-13}	(-0.1σ)	$\sigma_8(0.38)$	$0.679^{+0.023}_{-0.024}$	$(+0.0\sigma)$
A_{217}^{PS}	101^{+30}_{-40}	(-1.3σ)	D_{2000}	$230.0^{+4.7}_{-4.3}$	$(+0.0\sigma)$	$f\sigma_8(0.51)$	$0.486^{+0.023}_{-0.023}$	$(+0.0\sigma)$
A_{217}^{CIB}	40^{+20}_{-20}	(-1.1σ)	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$(+0.2\sigma)$	$\sigma_8(0.51)$	$0.636^{+0.021}_{-0.022}$	$(+0.0\sigma)$
A_{143}^{tSZ}	< 8.95	(-0.7σ)	Y_{P}	$0.24534^{+0.00019}_{-0.00023}$	$(+0.1\sigma)$	$f\sigma_8(0.61)$	$0.482^{+0.023}_{-0.023}$	$(+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.31}$		$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24666^{+0.00019}_{-0.00023}$	$(+0.1\sigma)$	$\sigma_8(0.61)$	$0.605^{+0.020}_{-0.021}$	$(+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—		$10^5 \mathrm{D}/\mathrm{H}$	$2.612^{+0.094}_{-0.091}$	(-0.1σ)	$f\sigma_8(2.33)$	$0.3051^{+0.0098}_{-0.010}$	$(+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—		$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.067}_{-0.069}$	(-0.1σ)	$\sigma_8(2.33)$	$0.3131^{+0.0086}_{-0.0088}$	$(+0.1\sigma)$
A^{kSZ}	—		z_*	$1090.06^{+0.76}_{-0.76}$	(-0.1σ)	f_{2000}^{143}	30^{+8}_{-8}	(-0.2σ)
A_{100}^{dust}	$1.01^{+0.51}_{-0.49}$		r_*	$144.65^{+0.83}_{-0.77}$	(-0.1σ)	f_{2000}^{217}	$107.3^{+5.1}_{-5.3}$	(-0.3σ)
A_{143}^{dust}	$0.98^{+0.43}_{-0.44}$		$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$(+0.2\sigma)$	$f_{2000}^{143 \times 217}$	33^{+6}_{-5}	(-0.3σ)
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$		$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.082}_{-0.074}$	(-0.1σ)	$\chi_{\mathrm{lensing}}^2$	$9.22 (\nu: 0.3)$	$(+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$		z_{drag}	$1059.6^{+1.1}_{-1.1}$	$(+0.1\sigma)$	χ_{small}^2	$397.0 (\nu: 1.6)$	$(+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027}$	(-3.4σ)	r_{drag}	$147.37^{+0.88}_{-0.83}$	(-0.1σ)	χ_{lowl}^2	$23.06 (\nu: 0.4)$	(-0.2σ)
c_{217}	$1.0012^{+0.0040}_{-0.0041}$	$(+4.7\sigma)$	k_{D}	$0.1405^{+0.0011}_{-0.0011}$	$(+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.6 (\nu: 13.6)$	
H_0	$69.3^{+1.9}_{-2.0}$	$(+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16098^{+0.00066}_{-0.00063}$	(-0.1σ)	$\chi_{\mathrm{H073p45}}^2$	$6.5 (\nu: 2.6)$	(-0.0σ)
Ω_{Λ}	$0.703^{+0.017}_{-0.019}$	(-0.0σ)	z_{eq}	3388^{+71}_{-74}	$(+0.1\sigma)$	χ_{JLA}^2	$1036.5 (\nu: 1.7)$	$(+0.0\sigma)$
Ω_{m}	$0.297^{+0.019}_{-0.017}$	$(+0.0\sigma)$	k_{eq}	$0.01034^{+0.00022}_{-0.00022}$	$(+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.10 (\nu: 0.0)$	(-0.0σ)
$\Omega_{\mathrm{m}}h^2$	$0.1424^{+0.0030}_{-0.0031}$	$(+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.014}_{-0.013}$	(-0.0σ)	χ_{MGS}^2	$2.46 (\nu: 0.2)$	$(+0.0\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0987^{+0.0035}_{-0.0035}$	$(+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4507^{+0.0072}_{-0.0067}$	(-0.0σ)	$\chi_{\mathrm{DR12BAO}}^2$	$4.61 (\nu: 0.3)$	(-0.0σ)
σ_8	$0.828^{+0.029}_{-0.030}$	$(+0.0\sigma)$	$H(0.15)$	$73.9^{+1.2}_{-1.3}$	$(+0.0\sigma)$	χ_{prior}^2	$7.6 (\nu: 5.8)$	$(+0.1\sigma)$
S_8	$0.823^{+0.031}_{-0.031}$	$(+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	629^{+15}_{-13}	(-0.0σ)	χ_{CMB}^2	$7491.8 (\nu: 14.5)$	$(+1194.8\sigma)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$(+0.0\sigma)$	$H(0.38)$	$83.21^{+0.82}_{-0.79}$	$(+0.1\sigma)$	χ_{BAO}^2	$7.2 (\nu: 0.6)$	(-0.0σ)
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.020}_{-0.020}$	$(+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	1511^{+26}_{-23}	(-0.0σ)			

$$\bar{\chi}_{\mathrm{eff}}^2 = 8549.61; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6292.13; R - 1 = 0.01012$$

18.71 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022344	$0.02233^{+0.00040}_{-0.00038} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4481	$0.448^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	83.30	$83.30^{+0.72}_{-0.72} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.11925	$0.1193^{+0.0030}_{-0.0030} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6069	$0.607^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_M(0.38)$	1510.6	$1510^{+24}_{-24} \quad (+0.1\sigma)$
$100\theta_{MC}$	1.04095	$1.04094^{+0.00079}_{-0.00076} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9883	$0.989^{+0.033}_{-0.033} \quad (-0.5\sigma)$	$H(0.51)$	89.74	$89.72^{+0.68}_{-0.69} \quad (+0.0\sigma)$
τ	0.0531	$0.053^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$r_{drag} h$	101.96	$102.1^{+3.0}_{-2.9} \quad (+0.0\sigma)$	$D_M(0.51)$	1961.6	$1961^{+26}_{-26} \quad (+0.0\sigma)$
w_0	-1.053	$-1.056^{+0.079}_{-0.081} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	2.435	$2.436^{+0.072}_{-0.073} \quad (-0.5\sigma)$	$H(0.61)$	95.19	$95.16^{+0.70}_{-0.72} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0387	$3.038^{+0.044}_{-0.044} \quad (-0.4\sigma)$	z_{re}	7.55	$7.5^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$D_M(0.61)$	2286.0	$2286^{+27}_{-27} \quad (+0.0\sigma)$
n_s	0.9671	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_s$	2.088	$2.087^{+0.093}_{-0.089} \quad (-0.4\sigma)$	$H(2.33)$	235.27	$235.2^{+1.6}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	1.0005	$1.0005^{+0.0063}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_s e^{-2\tau}$	1.8772	$1.877^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_M(2.33)$	5757.0	$5758^{+23}_{-23} \quad (+0.3\sigma)$
A_{100}^{PS}	234	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1222.9	$1224^{+32}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4577	$0.458^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{PS}	39.3	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5720	$5721^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7609	$0.762^{+0.029}_{-0.031} \quad (-0.4\sigma)$
A_{217}^{PS}	102.2	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	2535.2	$2535^{+34}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4816	$0.482^{+0.024}_{-0.024} \quad (-0.4\sigma)$
A_{217}^{CIB}	44.2	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	816.3	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6751	$0.676^{+0.026}_{-0.027} \quad (-0.4\sigma)$
A_{143}^{tSZ}	6.58	$< 8.79 \quad (-0.9\sigma)$	D_{2000}	230.55	$230.4^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4820	$0.483^{+0.025}_{-0.025} \quad (-0.4\sigma)$
$r_{143 \times 217}^{PS}$	0.600	$0.66^{+0.31}_{-0.34}$	$n_{s,0.002}$	0.9671	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	0.6319	$0.632^{+0.024}_{-0.025} \quad (-0.4\sigma)$
$r_{143 \times 217}^{CIB}$	0.78	—	Y_P	0.245385	$0.24538^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	0.4778	$0.478^{+0.024}_{-0.024} \quad (-0.4\sigma)$
$\xi^{tSZ \times CIB}$	0.11	—	Y_P^{BBN}	0.246712	$0.24671^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	0.6012	$0.602^{+0.022}_{-0.023} \quad (-0.4\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.590	$2.593^{+0.072}_{-0.073} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.3033	$0.304^{+0.011}_{-0.012} \quad (-0.4\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	Age/Gyr	13.764	$13.764^{+0.056}_{-0.057} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3116	$0.3118^{+0.0098}_{-0.010} \quad (-0.4\sigma)$
A_{143}^{dust}	0.977	$0.96^{+0.46}_{-0.45}$	z_*	1089.89	$1089.90^{+0.64}_{-0.65} \quad (+0.2\sigma)$	f_{2000}^{143}	29.7	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.971	$0.97^{+0.26}_{-0.27}$	r_*	144.65	$144.65^{+0.68}_{-0.69} \quad (+0.7\sigma)$	f_{2000}^{217}	106.67	$106.7^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.002	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	1.04114	$1.04113^{+0.00078}_{-0.00074} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.0	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99765	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.893	$13.894^{+0.065}_{-0.066} \quad (+0.7\sigma)$	χ_{simall}^2	395.86	$396.9 (\nu: 1.3) \quad (-0.1\sigma)$
c_{217}	1.00129	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	1059.82	$1059.80^{+0.86}_{-0.82} \quad (-0.7\sigma)$	χ_{lowl}^2	22.75	$22.88 (\nu: 0.4) \quad (-0.4\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.012}$	r_{drag}	147.32	$147.33^{+0.71}_{-0.72} \quad (+0.8\sigma)$	$\chi_{CamSpec}^2$	11499.6	$11514.4 (\nu: 15.8)$
c_{EE}	0.9917	$0.992^{+0.013}_{-0.013}$	k_D	0.14061	$0.14059^{+0.00086}_{-0.00084} \quad (-0.9\sigma)$	$\chi_{H073p45}^2$	6.5	$6.5 (\nu: 2.7) \quad (+0.1\sigma)$
H_0	69.21	$69.3^{+2.1}_{-2.0} \quad (-0.1\sigma)$	$100\theta_D$	0.160825	$0.16084^{+0.00049}_{-0.00049} \quad (+0.6\sigma)$	χ_{JLA}^2	1035.62	$1036.4 (\nu: 1.7) \quad (-0.1\sigma)$
Ω_Λ	0.7030	$0.704^{+0.018}_{-0.018} \quad (+0.1\sigma)$	z_{eq}	3384	$3384^{+67}_{-66} \quad (-0.5\sigma)$	χ_{6DF}^2	0.054	$0.10 (\nu: 0.0) \quad (+0.1\sigma)$
Ω_m	0.2970	$0.296^{+0.018}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	0.010327	$0.01033^{+0.00021}_{-0.00020} \quad (-0.5\sigma)$	χ_{MGS}^2	2.35	$2.47 (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_m h^2$	0.14224	$0.1422^{+0.0028}_{-0.0028} \quad (-0.5\sigma)$	$100\theta_{eq}$	0.8166	$0.817^{+0.013}_{-0.013} \quad (+0.5\sigma)$	$\chi_{DR12BAO}^2$	4.05	$4.51 (\nu: 0.3) \quad (-0.2\sigma)$
$\Omega_m h^3$	0.09844	$0.0986^{+0.0035}_{-0.0035} \quad (-0.4\sigma)$	$100\theta_{s,eq}$	0.4511	$0.4511^{+0.0065}_{-0.0064} \quad (+0.5\sigma)$	χ_{prior}^2	2.2	$7.8 (\nu: 5.8) \quad (-0.8\sigma)$
σ_8	0.8222	$0.823^{+0.032}_{-0.033} \quad (-0.4\sigma)$	$H(0.15)$	73.87	$73.9^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{BAO}^2	6.46	$7.1 (\nu: 0.7) \quad (-0.1\sigma)$
S_8	0.8180	$0.818^{+0.034}_{-0.033} \quad (-0.5\sigma)$	$D_M(0.15)$	629.7	$629^{+14}_{-14} \quad (+0.1\sigma)$	χ_{CMB}^2	11918.2	$11934.1 (\nu: 16.1) \quad (+1589.3\sigma)$

Best-fit $\chi_{eff}^2 = 12969.03$; $\Delta\chi_{eff}^2 = 9155.17$; $\bar{\chi}_{eff}^2 = 12991.92$; $\Delta\bar{\chi}_{eff}^2 = 9150.91$; $R - 1 = 0.00648$
 χ_{eff}^2 : BAO - 6DF: 0.05 (Δ -0.00) MGS: 2.35 (Δ 0.00) DR12BAO: 4.05 (Δ -0.15) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.86 (Δ -0.20) commander_dx12_v3_2_29: 22.75 (Δ -0.30) CamSpec like_10.7HM_1400_unified: 11499.61 Hubble - H073p45: 6.54 (Δ 0.44) SN - JLA Pantheon18: 1035.62 (Δ -0.28)

18.72 **base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00038} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.017}_{-0.018} \quad (-0.3\sigma)$	$H(0.51)$	$89.71^{+0.64}_{-0.63} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1193^{+0.0026}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.025}_{-0.026} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1961^{+26}_{-26} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00080}_{-0.00073} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$102.1^{+3.0}_{-2.9} \quad (+0.1\sigma)$	$H(0.61)$	$95.14^{+0.67}_{-0.68} \quad (-0.1\sigma)$
τ	$0.054^{+0.020}_{-0.019} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.056}_{-0.057} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2285^{+27}_{-27} \quad (+0.1\sigma)$
w_0	$-1.059^{+0.075}_{-0.078} \quad (+0.1\sigma)$	z_{re}	$7.6^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	$235.3^{+1.5}_{-1.5} \quad (-0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.040}_{-0.037} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.085}_{-0.076} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+23}_{-23} \quad (+0.4\sigma)$
n_{s}	$0.966^{+0.010}_{-0.011} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.026}_{-0.028} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0063} \quad (+0.0\sigma)$	D_{40}	$1225^{+30}_{-31} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.763^{+0.025}_{-0.026} \quad (-0.2\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5724^{+99}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.020}_{-0.020} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.677^{+0.022}_{-0.023} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.484^{+0.021}_{-0.020} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{2000}	$230.4^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.634^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.9\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.480^{+0.021}_{-0.021} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.603^{+0.020}_{-0.020} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.3042^{+0.0098}_{-0.010} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.593^{+0.073}_{-0.070} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3123^{+0.0087}_{-0.0087} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.763^{+0.056}_{-0.058} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_*	$1089.91^{+0.61}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$144.63^{+0.64}_{-0.63} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	$100\theta_*$	$1.04111^{+0.00079}_{-0.00072} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.13 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.059}_{-0.060} \quad (+0.6\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{100}	$0.9976^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.80^{+0.86}_{-0.82} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.98 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	r_{drag}	$147.31^{+0.66}_{-0.65} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.5)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14061^{+0.00081}_{-0.00081} \quad (-0.8\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.4 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ_{JLA}^2	$1036.5 \quad (\nu: 1.8) \quad (-0.0\sigma)$
H_0	$69.3^{+2.1}_{-2.0} \quad (-0.1\sigma)$	z_{eq}	$3386^{+60}_{-61} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.11 \quad (\nu: 0.0) \quad (+0.1\sigma)$
Ω_{Λ}	$0.704^{+0.017}_{-0.018} \quad (+0.1\sigma)$	k_{eq}	$0.01033^{+0.00018}_{-0.00018} \quad (-0.4\sigma)$	χ_{MGS}^2	$2.48 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_{m}	$0.296^{+0.018}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.012}_{-0.011} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.51 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0025}_{-0.0025} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0059}_{-0.0058} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0987^{+0.0034}_{-0.0033} \quad (-0.3\sigma)$	$H(0.15)$	$73.9^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11942.9 \quad (\nu: 16.7) \quad (+1584.1\sigma)$
σ_8	$0.825^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$629^{+14}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$7.1 \quad (\nu: 0.7) \quad (+0.0\sigma)$
S_8	$0.819^{+0.028}_{-0.026} \quad (-0.3\sigma)$	$H(0.38)$	$83.29^{+0.69}_{-0.68} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1510^{+24}_{-23} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 13000.66; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.96; R - 1 = 0.00726$$

18.73 **base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00040}_{-0.00038} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$H(0.38)$	$83.30^{+0.72}_{-0.72} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1192^{+0.0030}_{-0.0030} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.022}_{-0.022} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1510^{+24}_{-24} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00080}_{-0.00076} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.032}_{-0.032} \quad (-0.5\sigma)$	$H(0.51)$	$89.73^{+0.68}_{-0.70} \quad (+0.0\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$102.1^{+3.0}_{-2.9} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1961^{+27}_{-26} \quad (+0.0\sigma)$
w_0	$-1.056^{+0.078}_{-0.079} \quad (+0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.070}_{-0.071} \quad (-0.5\sigma)$	$H(0.61)$	$95.17^{+0.71}_{-0.71} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.029} \quad (-0.4\sigma)$	z_{re}	$< 9.37 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2286^{+27}_{-27} \quad (+0.0\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.088}_{-0.060} \quad (-0.4\sigma)$	$H(2.33)$	$235.2^{+1.6}_{-1.5} \quad (-0.5\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+23}_{-23} \quad (+0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1224^{+32}_{-32} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5720^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.762^{+0.029}_{-0.030} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+34}_{-35} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.024}_{-0.024} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.677^{+0.025}_{-0.026} \quad (-0.4\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.9\sigma)$	D_{2000}	$230.4^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.483^{+0.024}_{-0.024} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.633^{+0.023}_{-0.024} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.479^{+0.024}_{-0.024} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.602^{+0.022}_{-0.022} \quad (-0.4\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.073}_{-0.073} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.011}_{-0.011} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.764^{+0.056}_{-0.057} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3122^{+0.0094}_{-0.0095} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.90^{+0.65}_{-0.65} \quad (+0.2\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	r_*	$144.66^{+0.68}_{-0.69} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.04113^{+0.00078}_{-0.00075} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.894^{+0.064}_{-0.066} \quad (+0.7\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	z_{drag}	$1059.80^{+0.86}_{-0.82} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.89 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	r_{drag}	$147.33^{+0.70}_{-0.72} \quad (+0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.2 \quad (\nu: 15.7)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14059^{+0.00087}_{-0.00084} \quad (-0.9\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.5 \quad (\nu: 2.7) \quad (+0.1\sigma)$
H_0	$69.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00049}_{-0.00049} \quad (+0.6\sigma)$	χ_{JLA}^2	$1036.4 \quad (\nu: 1.6) \quad (-0.1\sigma)$
Ω_{Λ}	$0.704^{+0.018}_{-0.018} \quad (+0.1\sigma)$	z_{eq}	$3383^{+67}_{-66} \quad (-0.5\sigma)$	χ_{6DF}^2	$0.10 \quad (\nu: 0.0) \quad (+0.1\sigma)$
Ω_{m}	$0.296^{+0.018}_{-0.018} \quad (-0.1\sigma)$	k_{eq}	$0.01033^{+0.00020}_{-0.00020} \quad (-0.5\sigma)$	χ_{MGS}^2	$2.47 \quad (\nu: 0.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1422^{+0.0028}_{-0.0028} \quad (-0.5\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.012} \quad (+0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.50 \quad (\nu: 0.3) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0985^{+0.0035}_{-0.0035} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4512^{+0.0066}_{-0.0064} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
σ_8	$0.824^{+0.031}_{-0.032} \quad (-0.4\sigma)$	$H(0.15)$	$73.9^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{BAO}^2	$7.1 \quad (\nu: 0.7) \quad (-0.1\sigma)$
S_8	$0.819^{+0.034}_{-0.032} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$629^{+14}_{-14} \quad (+0.1\sigma)$	χ_{CMB}^2	$11933.9 \quad (\nu: 15.8) \quad (+1608.7\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 12991.69$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.91$; $R - 1 = 0.00727$

18.74 base_w_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02234^{+0.00040}_{-0.00039} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.017}_{-0.018} \quad (-0.3\sigma)$	$H(0.51)$	$89.72^{+0.64}_{-0.64} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1193^{+0.0026}_{-0.0026} \quad (-0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.991^{+0.025}_{-0.025} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1961^{+26}_{-26} \quad (+0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00080}_{-0.00073} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$102.1^{+3.0}_{-2.9} \quad (+0.1\sigma)$	$H(0.61)$	$95.16^{+0.67}_{-0.67} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.442^{+0.055}_{-0.055} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2285^{+27}_{-27} \quad (+0.1\sigma)$
w_0	$-1.058^{+0.074}_{-0.076} \quad (+0.1\sigma)$	z_{re}	$< 9.33 \quad (-0.1\sigma)$	$H(2.33)$	$235.2^{+1.5}_{-1.5} \quad (-0.5\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.038}_{-0.028} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.082}_{-0.057} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5757^{+23}_{-23} \quad (+0.4\sigma)$
n_{s}	$0.967^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.026}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0006^{+0.0063}_{-0.0063} \quad (+0.0\sigma)$	D_{40}	$1225^{+29}_{-30} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.764^{+0.025}_{-0.025} \quad (-0.2\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5723^{+99}_{-100} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.020}_{-0.020} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+33}_{-35} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.678^{+0.022}_{-0.023} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+12}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.484^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.5^{+4.0}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.634^{+0.020}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.79 \quad (-0.9\sigma)$	$n_{\mathrm{s},0.002}$	$0.967^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.480^{+0.021}_{-0.020} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	Y_{P}	$0.24538^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.603^{+0.019}_{-0.020} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24671^{+0.00015}_{-0.00017} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.3044^{+0.0096}_{-0.0098} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.592^{+0.073}_{-0.071} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3126^{+0.0085}_{-0.0085} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.763^{+0.057}_{-0.057} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.52}$	z_*	$1089.90^{+0.62}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	r_*	$144.64^{+0.63}_{-0.62} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.26}_{-0.27}$	$100\theta_*$	$1.04112^{+0.00079}_{-0.00072} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.09 \quad (\nu: 0.2) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.893^{+0.059}_{-0.059} \quad (+0.6\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.81^{+0.85}_{-0.83} \quad (-0.7\sigma)$	χ_{lowl}^2	$22.97 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	r_{drag}	$147.32^{+0.66}_{-0.65} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.6)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14060^{+0.00081}_{-0.00081} \quad (-0.8\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.4 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16083^{+0.00050}_{-0.00049} \quad (+0.6\sigma)$	χ_{JLA}^2	$1036.4 \quad (\nu: 1.7) \quad (-0.0\sigma)$
H_0	$69.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$	z_{eq}	$3385^{+59}_{-60} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.11 \quad (\nu: 0.0) \quad (+0.1\sigma)$
Ω_{Λ}	$0.704^{+0.017}_{-0.018} \quad (+0.1\sigma)$	k_{eq}	$0.01033^{+0.00018}_{-0.00018} \quad (-0.4\sigma)$	χ_{MGS}^2	$2.48 \quad (\nu: 0.2) \quad (+0.1\sigma)$
Ω_{m}	$0.296^{+0.018}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.50 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1423^{+0.0025}_{-0.0025} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0059}_{-0.0057} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0986^{+0.0034}_{-0.0033} \quad (-0.3\sigma)$	$H(0.15)$	$73.9^{+1.3}_{-1.3} \quad (-0.1\sigma)$	χ_{CMB}^2	$11942.8 \quad (\nu: 16.5) \quad (+1605.1\sigma)$
σ_8	$0.825^{+0.026}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.15)$	$629^{+15}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$7.1 \quad (\nu: 0.7) \quad (+0.0\sigma)$
S_8	$0.820^{+0.028}_{-0.026} \quad (-0.3\sigma)$	$H(0.38)$	$83.30^{+0.69}_{-0.68} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1510^{+24}_{-23} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 13000.46; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.99; R - 1 = 0.00765$$

18.75 base_w_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02216	$0.02215^{+0.00055}_{-0.00057}$	$\sigma_8/h^{0.5}$	1.076	$1.041^{+0.071}_{-0.095}$	$D_M(0.15)$	481	547^{+100}_{-70}
$\Omega_c h^2$	0.1201	$0.1201^{+0.0054}_{-0.0054}$	$r_{\text{drag}} h$	147.3	125^{+20}_{-40}	$H(0.38)$	84.30	$84.1^{+2.5}_{-3.7}$
$100\theta_{\text{MC}}$	1.04087	$1.0408^{+0.0012}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	2.529	$2.50^{+0.11}_{-0.14}$	$D_M(0.38)$	1288	1386^{+200}_{-100}
τ	0.0528	$0.052^{+0.022}_{-0.021}$	z_{re}	7.51	$7.4^{+2.1}_{-2.4}$	$H(0.51)$	86.59	$88.2^{+2.2}_{-3.0}$
w_0	-1.97	$-1.55^{+0.78}_{-0.54}$	$10^9 A_s$	2.089	$2.085^{+0.093}_{-0.089}$	$D_M(0.51)$	1745	1839^{+200}_{-100}
$\ln(10^{10} A_s)$	3.0393	$3.037^{+0.044}_{-0.044}$	$10^9 A_s e^{-2\tau}$	1.8795	$1.879^{+0.036}_{-0.035}$	$H(0.61)$	90.02	$92.5^{+3.3}_{-3.4}$
n_s	0.9632	$0.963^{+0.015}_{-0.015}$	D_{40}	1226.3	1228^{+40}_{-40}	$D_M(0.61)$	2085	2171^{+200}_{-100}
y_{cal}	1.0001	$1.0004^{+0.0066}_{-0.0064}$	D_{220}	5711	5710^{+110}_{-110}	$H(2.33)$	230.4	$232.1^{+9.8}_{-4.7}$
A_{100}^{PS}	250	254^{+70}_{-70}	D_{810}	2530.7	2531^{+36}_{-36}	$D_M(2.33)$	5740	5749^{+81}_{-49}
A_{143}^{tSZ}	6.15	< 8.84	D_{1420}	812.4	812^{+13}_{-13}	$f\sigma_8(0.15)$	0.510	$0.488^{+0.056}_{-0.052}$
A^{kSZ}	0.4	—	D_{2000}	229.29	$229.2^{+4.5}_{-4.6}$	$\sigma_8(0.15)$	1.014	$0.90^{+0.15}_{-0.21}$
A_{100}^{dust}	1.00	$1.01^{+0.51}_{-0.50}$	$n_{\text{s},0.002}$	0.9632	$0.963^{+0.015}_{-0.015}$	$f\sigma_8(0.38)$	0.647	$0.57^{+0.11}_{-0.13}$
A_{143}^{power}	11.7	$10.2^{+6.2}_{-5.5}$	Y_{P}	0.245310	$0.24530^{+0.00022}_{-0.00027}$	$\sigma_8(0.38)$	0.908	$0.80^{+0.13}_{-0.20}$
A_{217}^{power}	11.0	$8.0^{+7.4}_{-4.5}$	$Y_{\text{P}}^{\text{BBN}}$	0.246637	$0.24663^{+0.00022}_{-0.00027}$	$f\sigma_8(0.51)$	0.679	$0.59^{+0.12}_{-0.16}$
$A_{143 \times 217}^{\text{power}}$	7.3	< 10.1	$10^5 \text{D}/\text{H}$	2.625	$2.63^{+0.11}_{-0.10}$	$\sigma_8(0.51)$	0.848	$0.75^{+0.12}_{-0.18}$
$\gamma_{143}^{\text{power}}$	1.34	> 0.369	Age/Gyr	13.456	$13.59^{+0.40}_{-0.21}$	$f\sigma_8(0.61)$	0.685	$0.59^{+0.12}_{-0.17}$
$\gamma_{217}^{\text{power}}$	1.35	—	z_*	1090.19	$1090.2^{+1.1}_{-0.99}$	$\sigma_8(0.61)$	0.804	$0.71^{+0.11}_{-0.17}$
$\gamma_{143 \times 217}^{\text{power}}$	1.27	—	r_*	144.56	$144.6^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	0.400	$0.356^{+0.053}_{-0.087}$
c_{100}	0.99813	$0.9978^{+0.0027}_{-0.0028}$	$100\theta_*$	1.04107	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.401	$0.359^{+0.050}_{-0.077}$
c_{217}	0.99899	$0.9994^{+0.0044}_{-0.0034}$	$D_M(z_*)/\text{Gpc}$	13.886	$13.89^{+0.11}_{-0.11}$	f_{2000}^{143}	23.0	23^{+8}_{-7}
H_0	99.98	> 61.2	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.2}$	f_{2000}^{217}	16.6	$16.6^{+5.2}_{-5.0}$
Ω_Λ	0.857	$0.792^{+0.072}_{-0.18}$	r_{drag}	147.29	$147.3^{+1.2}_{-1.2}$	$f_{2000}^{143 \times 217}$	11.0	$10.8^{+5.6}_{-5.2}$
Ω_{m}	0.143	$0.208^{+0.18}_{-0.072}$	k_{D}	0.14049	$0.1405^{+0.0013}_{-0.0013}$	χ_{simall}^2	395.78	$396.8 (\nu: 1.3)$
$\Omega_{\text{m}} h^2$	0.1429	$0.1429^{+0.0052}_{-0.0051}$	$100\theta_{\text{D}}$	0.16104	$0.16105^{+0.00070}_{-0.00064}$	χ_{lowl}^2	22.79	$23.1 (\nu: 0.6)$
$\Omega_{\text{m}} h^3$	0.1429	$0.121^{+0.025}_{-0.035}$	z_{eq}	3400	3400^{+120}_{-120}	χ_{CamSpec}^2	6702.4	$6715.0 (\nu: 13.0)$
σ_8	1.075	$0.96^{+0.15}_{-0.22}$	k_{eq}	0.010377	$0.01038^{+0.00038}_{-0.00037}$	χ_{prior}^2	1.2	$5.2 (\nu: 4.2)$
S_8	0.742	$0.783^{+0.097}_{-0.076}$	$100\theta_{\text{eq}}$	0.8131	$0.813^{+0.024}_{-0.023}$	χ_{CMB}^2	7121.0	$7135.0 (\nu: 14.0)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4067	$0.429^{+0.053}_{-0.041}$	$100\theta_{\text{s,eq}}$	0.4494	$0.449^{+0.012}_{-0.012}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.661	$0.640^{+0.048}_{-0.060}$	$H(0.15)$	88.7	$81.8^{+8.6}_{-14}$			

Best-fit $\chi_{\text{eff}}^2 = 7122.16$; $\bar{\chi}_{\text{eff}}^2 = 7140.23$; $R - 1 = 0.00669$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.78 commander_dx12_v3.2_29: 22.79 CamSpec like_10.7cleaned: 6702.39

19 w+wa

19.1 base_w_wa_plikHM_TT_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02217	$0.02213^{+0.00054}_{-0.00052}$	$\sigma_8 \Omega_m^{0.25}$	0.6089	$0.609^{+0.036}_{-0.036}$	$H(0.38)$	84.71	$84.8^{+2.5}_{-2.9}$
$\Omega_c h^2$	0.12035	$0.1206^{+0.0048}_{-0.0049}$	$\sigma_8/h^{0.5}$	0.990	$0.990^{+0.052}_{-0.052}$	$D_M(0.38)$	1527.0	1527^{+45}_{-45}
$100\theta_{MC}$	1.04079	$1.0408^{+0.0012}_{-0.0012}$	$r_{drag} h$	95.6	$95.5^{+10}_{-7.8}$	$H(0.51)$	91.42	$91.4^{+2.8}_{-3.1}$
τ	0.0530	$0.052^{+0.022}_{-0.023}$	$\langle d^2 \rangle^{1/2}$	2.466	$2.47^{+0.11}_{-0.11}$	$D_M(0.51)$	1969.8	1969^{+45}_{-45}
w_0	-0.62	$-0.59^{+0.57}_{-0.69}$	z_{re}	7.57	$7.4^{+2.1}_{-2.6}$	$H(0.61)$	96.82	$96.8^{+2.9}_{-2.9}$
w_a	-1.20	< 0.411	$10^9 A_s$	2.093	$2.089^{+0.096}_{-0.097}$	$D_M(0.61)$	2288.5	2288^{+47}_{-45}
$\ln(10^{10} A_s)$	3.0413	$3.039^{+0.045}_{-0.048}$	$10^9 A_s e^{-2\tau}$	1.8827	$1.884^{+0.034}_{-0.034}$	$H(2.33)$	233.96	$234.0^{+3.3}_{-2.9}$
n_s	0.9644	$0.963^{+0.014}_{-0.013}$	D_{40}	1228.6	1232^{+38}_{-37}	$D_M(2.33)$	5754.1	5757^{+36}_{-37}
y_{cal}	1.0001	$1.0004^{+0.0062}_{-0.0062}$	D_{220}	5710	5714^{+110}_{-100}	$f\sigma_8(0.15)$	0.4487	$0.449^{+0.038}_{-0.035}$
A_{217}^{CIB}	48.3	48^{+20}_{-20}	D_{810}	2536.0	2536^{+36}_{-34}	$\sigma_8(0.15)$	0.736	$0.736^{+0.067}_{-0.061}$
$\xi^{tSZ \times CIB}$	0.37	—	D_{1420}	815.1	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.460	$0.460^{+0.057}_{-0.050}$
A_{143}^{tSZ}	7.0	—	D_{2000}	230.03	$229.7^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	0.653	$0.653^{+0.059}_{-0.053}$
A_{100}^{PS}	253	262^{+70}_{-70}	$n_{s,0.002}$	0.9644	$0.963^{+0.014}_{-0.013}$	$f\sigma_8(0.51)$	0.460	$0.460^{+0.058}_{-0.052}$
A_{143}^{PS}	49.9	49^{+20}_{-20}	Y_P	0.245314	$0.24529^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	0.612	$0.612^{+0.054}_{-0.048}$
$A_{143 \times 217}^{PS}$	48.0	44^{+20}_{-20}	Y_P^{BBN}	0.246641	$0.24662^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.457	$0.458^{+0.057}_{-0.052}$
A_{217}^{PS}	119.8	115^{+30}_{-30}	$10^5 D/H$	2.623	$2.63^{+0.10}_{-0.099}$	$\sigma_8(0.61)$	0.5830	$0.583^{+0.050}_{-0.045}$
A^{kSZ}	0.0	—	Age/Gyr	13.775	$13.777^{+0.092}_{-0.085}$	$f\sigma_8(2.33)$	0.2963	$0.296^{+0.023}_{-0.020}$
A_{100}^{dustTT}	8.90	$8.9^{+4.7}_{-4.8}$	z_*	1090.20	$1090.28^{+0.94}_{-0.92}$	$\sigma_8(2.33)$	0.3014	$0.301^{+0.023}_{-0.020}$
A_{143}^{dustTT}	10.75	$10.7^{+4.6}_{-4.6}$	r_*	144.49	$144.5^{+1.2}_{-1.1}$	f_{2000}^{143}	30.1	31^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.5}_{-8.5}$	$100\theta_*$	1.04100	$1.0410^{+0.0011}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.880	$13.88^{+0.11}_{-0.10}$	f_{2000}^{217}	107.46	$108.0^{+4.9}_{-4.9}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$	χ_{small}^2	395.89	$396.9 (\nu: 1.4)$
c_{217}	0.99825	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.22	$147.2^{+1.2}_{-1.1}$	χ_{lowl}^2	23.46	$23.8 (\nu: 0.7)$
H_0	64.9	$64.9^{+6.9}_{-5.4}$	k_D	0.14058	$0.1406^{+0.0013}_{-0.0013}$	χ_{plik}^2	758.0	$770.5 (\nu: 14.3)$
Ω_Λ	0.661	$0.658^{+0.065}_{-0.062}$	$100\theta_D$	0.16101	$0.16106^{+0.00067}_{-0.00063}$	χ_{6DF}^2	0.32	$0.56 (\nu: 0.2)$
Ω_m	0.339	$0.342^{+0.062}_{-0.065}$	z_{eq}	3406	3410^{+110}_{-110}	χ_{MGS}^2	0.63	$0.89 (\nu: 0.4)$
$\Omega_m h^2$	0.14316	$0.1433^{+0.0046}_{-0.0047}$	k_{eq}	0.010395	$0.01041^{+0.00033}_{-0.00035}$	$\chi_{DR12BAO}^2$	3.49	$5.0 (\nu: 1.1)$
$\Omega_m h^3$	0.0930	$0.0930^{+0.010}_{-0.0086}$	$100\theta_{eq}$	0.8120	$0.811^{+0.021}_{-0.020}$	χ_{prior}^2	1.3	$7.2 (\nu: 6.4)$
σ_8	0.798	$0.798^{+0.070}_{-0.064}$	$100\theta_{s,eq}$	0.4489	$0.448^{+0.011}_{-0.010}$	χ_{BAO}^2	4.43	$6.4 (\nu: 1.7)$
S_8	0.849	$0.850^{+0.055}_{-0.058}$	$H(0.15)$	73.09	$73.1^{+2.5}_{-2.3}$	χ_{CMB}^2	1177.3	$1191.2 (\nu: 14.9)$
$\sigma_8 \Omega_m^{0.5}$	0.4648	$0.466^{+0.030}_{-0.032}$	$D_M(0.15)$	651.6	652^{+36}_{-37}			

Best-fit $\chi_{eff}^2 = 1183.08$; $\bar{\chi}_{eff}^2 = 1204.85$; $R - 1 = 0.00724$

χ_{eff}^2 : BAO - 6DF: 0.32 MGS: 0.62 DR12BAO: 3.49 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.89 commander_dx12_v3.2.29: 23.46 plik_rd12_HM_v22.TT: 757.98

19.2 base_w_wa_plikHM_TT_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02220	$0.02216^{+0.00052}_{-0.00049}$	$\sigma_8 \Omega_m^{0.25}$	0.6047	$0.605^{+0.025}_{-0.025}$	$H(0.38)$	84.55	$84.7^{+2.6}_{-2.9}$
$\Omega_c h^2$	0.11973	$0.1199^{+0.0036}_{-0.0037}$	$\sigma_8/h^{0.5}$	0.9841	$0.984^{+0.036}_{-0.037}$	$D_M(0.38)$	1527.2	1528^{+43}_{-46}
$100\theta_{MC}$	1.04093	$1.0408^{+0.0011}_{-0.0011}$	$r_{drag}h$	96.1	$95.7^{+10}_{-7.8}$	$H(0.51)$	91.30	$91.5^{+2.9}_{-3.1}$
τ	0.0525	$0.051^{+0.021}_{-0.023}$	$\langle d^2 \rangle^{1/2}$	2.451	$2.455^{+0.068}_{-0.071}$	$D_M(0.51)$	1970.8	1970^{+44}_{-46}
w_0	-0.66	$-0.61^{+0.60}_{-0.67}$	z_{re}	7.51	$7.4^{+2.1}_{-2.6}$	$H(0.61)$	96.75	$96.9^{+2.8}_{-3.0}$
w_a	-1.01	< 0.445	$10^9 A_s$	2.088	$2.084^{+0.087}_{-0.088}$	$D_M(0.61)$	2289.8	2289^{+46}_{-46}
$\ln(10^{10} A_s)$	3.0389	$3.037^{+0.041}_{-0.043}$	$10^9 A_s e^{-2\tau}$	1.8801	$1.881^{+0.029}_{-0.028}$	$H(2.33)$	234.01	$233.9^{+3.5}_{-2.9}$
n_s	0.9657	$0.964^{+0.012}_{-0.012}$	D_{40}	1225.7	1229^{+32}_{-32}	$D_M(2.33)$	5752.4	5755^{+38}_{-36}
y_{cal}	1.0001	$1.0003^{+0.0062}_{-0.0062}$	D_{220}	5712	5715^{+100}_{-100}	$f\sigma_8(0.15)$	0.4463	$0.445^{+0.033}_{-0.030}$
A_{217}^{CIB}	48.8	48^{+20}_{-20}	D_{810}	2535.8	2535^{+35}_{-34}	$\sigma_8(0.15)$	0.734	$0.732^{+0.061}_{-0.053}$
$\xi^{tSZ \times CIB}$	0.30	—	D_{1420}	815.4	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4577	$0.456^{+0.052}_{-0.045}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.09	$229.6^{+4.5}_{-4.3}$	$\sigma_8(0.38)$	0.6513	$0.650^{+0.053}_{-0.046}$
A_{100}^{PS}	254	263^{+70}_{-70}	$n_{s,0.002}$	0.9657	$0.964^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.458	$0.456^{+0.054}_{-0.046}$
A_{143}^{PS}	48.8	49^{+20}_{-20}	Y_P	0.245324	$0.24531^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6103	$0.609^{+0.049}_{-0.042}$
$A_{143 \times 217}^{PS}$	46.1	43^{+20}_{-20}	Y_P^{BBN}	0.246650	$0.24663^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4547	$0.453^{+0.052}_{-0.045}$
A_{217}^{PS}	118.8	115^{+30}_{-30}	$10^5 D/H$	2.619	$2.626^{+0.096}_{-0.095}$	$\sigma_8(0.61)$	0.5811	$0.580^{+0.046}_{-0.040}$
A^{kSZ}	0.0	—	Age/Gyr	13.776	$13.779^{+0.090}_{-0.086}$	$f\sigma_8(2.33)$	0.2953	$0.294^{+0.020}_{-0.018}$
A_{100}^{dustTT}	8.88	$8.9^{+4.9}_{-5.0}$	z_*	1090.12	$1090.18^{+0.84}_{-0.81}$	$\sigma_8(2.33)$	0.3011	$0.300^{+0.022}_{-0.019}$
A_{143}^{dustTT}	10.84	$10.7^{+4.5}_{-4.6}$	r_*	144.63	$144.61^{+0.88}_{-0.85}$	f_{2000}^{143}	30.2	31^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.3}_{-8.3}$	$100\theta_*$	1.04112	$1.0410^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.892	$13.891^{+0.086}_{-0.081}$	f_{2000}^{217}	107.48	$108.0^{+5.0}_{-4.9}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$	$\chi_{lensing}^2$	8.80	$9.4 (\nu: 0.5)$
c_{217}	0.99825	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.36	$147.35^{+0.92}_{-0.88}$	χ_{small}^2	395.81	$396.8 (\nu: 1.1)$
H_0	65.2	$64.9^{+7.0}_{-5.4}$	k_D	0.14045	$0.1404^{+0.0011}_{-0.0011}$	χ_{lowl}^2	23.18	$23.52 (\nu: 0.4)$
Ω_Λ	0.665	$0.660^{+0.064}_{-0.063}$	$100\theta_D$	0.16101	$0.16104^{+0.00066}_{-0.00063}$	χ_{plik}^2	758.6	$770.6 (\nu: 13.3)$
Ω_m	0.335	$0.340^{+0.063}_{-0.064}$	z_{eq}	3392	3395^{+82}_{-85}	χ_{6DF}^2	0.25	$0.55 (\nu: 0.2)$
$\Omega_m h^2$	0.14257	$0.1427^{+0.0034}_{-0.0036}$	k_{eq}	0.010352	$0.01036^{+0.00025}_{-0.00026}$	χ_{MGS}^2	0.72	$0.91 (\nu: 0.4)$
$\Omega_m h^3$	0.0930	$0.0927^{+0.010}_{-0.0082}$	$100\theta_{eq}$	0.8147	$0.814^{+0.016}_{-0.015}$	$\chi_{DR12BAO}^2$	3.34	$4.9 (\nu: 1.2)$
σ_8	0.795	$0.793^{+0.063}_{-0.055}$	$100\theta_{s,eq}$	0.4502	$0.4499^{+0.0083}_{-0.0077}$	χ_{prior}^2	1.4	$7.2 (\nu: 6.5)$
S_8	0.8400	$0.842^{+0.040}_{-0.042}$	$H(0.15)$	73.05	$73.1^{+2.5}_{-2.2}$	χ_{CMB}^2	1186.4	$1200.3 (\nu: 14.7)$
$\sigma_8 \Omega_m^{0.5}$	0.4601	$0.461^{+0.022}_{-0.023}$	$D_M(0.15)$	650.6	652^{+35}_{-37}	χ_{BAO}^2	4.31	$6.3 (\nu: 1.9)$

Best-fit $\chi_{eff}^2 = 1192.04$; $\bar{\chi}_{eff}^2 = 1213.89$; $R - 1 = 0.01045$

χ_{eff}^2 : BAO - 6DF: 0.25 MGS: 0.72 DR12BAO: 3.34 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.80 small_100x143.offlike5_EE_Aplanck_B: 395.81 commander_dx12.v3.2.29: 23.18 plik_rd12_HM.v22_TT: 758.58

19.3 base_w_wa_plikHM_TT_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02214^{+0.00053}_{-0.00052}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.610^{+0.036}_{-0.036}$	$H(0.38)$	$84.8^{+2.5}_{-2.9}$
$\Omega_{\text{c}}h^2$	$0.1205^{+0.0048}_{-0.0049}$	$\sigma_8/h^{0.5}$	$0.992^{+0.052}_{-0.051}$	$D_{\text{M}}(0.38)$	1527^{+45}_{-45}
$100\theta_{\text{MC}}$	$1.0408^{+0.0012}_{-0.0012}$	$r_{\text{drag}}h$	$95.6^{+10}_{-7.9}$	$H(0.51)$	$91.4^{+2.8}_{-3.1}$
τ	$0.054^{+0.019}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.47^{+0.11}_{-0.11}$	$D_{\text{M}}(0.51)$	1969^{+45}_{-45}
w_0	$-0.59^{+0.57}_{-0.69}$	z_{re}	< 9.39	$H(0.61)$	$96.8^{+2.9}_{-3.0}$
w_a	< 0.429	$10^9 A_{\text{s}}$	$2.097^{+0.091}_{-0.061}$	$D_{\text{M}}(0.61)$	2288^{+47}_{-45}
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.042}_{-0.030}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.884^{+0.034}_{-0.034}$	$H(2.33)$	$234.0^{+3.3}_{-3.0}$
n_{s}	$0.963^{+0.014}_{-0.014}$	D_{40}	1232^{+38}_{-38}	$D_{\text{M}}(2.33)$	5757^{+37}_{-37}
y_{cal}	$1.0004^{+0.0063}_{-0.0062}$	D_{220}	5714^{+110}_{-100}	$f\sigma_8(0.15)$	$0.449^{+0.038}_{-0.035}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-34}	$\sigma_8(0.15)$	$0.737^{+0.067}_{-0.060}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.460^{+0.057}_{-0.050}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+4.5}_{-4.4}$	$\sigma_8(0.38)$	$0.654^{+0.058}_{-0.052}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\text{s},0.002}$	$0.963^{+0.014}_{-0.014}$	$f\sigma_8(0.51)$	$0.461^{+0.058}_{-0.052}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24530^{+0.00021}_{-0.00025}$	$\sigma_8(0.51)$	$0.613^{+0.053}_{-0.048}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24662^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.458^{+0.057}_{-0.051}$
A_{217}^{PS}	115^{+30}_{-30}	10^5D/H	$2.63^{+0.10}_{-0.098}$	$\sigma_8(0.61)$	$0.584^{+0.049}_{-0.044}$
A^{kSZ}	—	Age/Gyr	$13.777^{+0.092}_{-0.085}$	$f\sigma_8(2.33)$	$0.296^{+0.023}_{-0.020}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.8}$	z_*	$1090.26^{+0.95}_{-0.92}$	$\sigma_8(2.33)$	$0.301^{+0.023}_{-0.020}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.6}$	r_*	$144.5^{+1.2}_{-1.1}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.4}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0012}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.88^{+0.11}_{-0.10}$	f_{2000}^{217}	$108.0^{+5.0}_{-4.8}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.4^{+1.1}_{-1.1}$	χ_{simall}^2	$396.7 (\nu: 1.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.2^{+1.2}_{-1.1}$	χ_{lowl}^2	$23.8 (\nu: 0.7)$
H_0	$64.9^{+7.0}_{-5.4}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	χ_{plik}^2	$770.3 (\nu: 14.3)$
Ω_{Λ}	$0.659^{+0.065}_{-0.062}$	$100\theta_{\text{D}}$	$0.16105^{+0.00068}_{-0.00064}$	$\chi_{6\text{DF}}^2$	$0.56 (\nu: 0.2)$
Ω_{m}	$0.341^{+0.062}_{-0.065}$	z_{eq}	3408^{+110}_{-110}	χ_{MGS}^2	$0.89 (\nu: 0.4)$
$\Omega_{\text{m}}h^2$	$0.1433^{+0.0046}_{-0.0047}$	k_{eq}	$0.01040^{+0.00033}_{-0.00034}$	χ_{DR12BAO}^2	$5.0 (\nu: 1.1)$
$\Omega_{\text{m}}h^3$	$0.0930^{+0.010}_{-0.0087}$	$100\theta_{\text{eq}}$	$0.812^{+0.021}_{-0.020}$	χ_{prior}^2	$7.2 (\nu: 6.4)$
σ_8	$0.799^{+0.070}_{-0.063}$	$100\theta_{\text{s,eq}}$	$0.449^{+0.011}_{-0.010}$	χ_{BAO}^2	$6.4 (\nu: 1.8)$
S_8	$0.851^{+0.055}_{-0.058}$	$H(0.15)$	$73.1^{+2.5}_{-2.3}$	χ_{CMB}^2	$1190.9 (\nu: 14.5)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.466^{+0.030}_{-0.032}$	$D_{\text{M}}(0.15)$	652^{+36}_{-37}		

$$\bar{\chi}_{\text{eff}}^2 = 1204.53; R - 1 = 0.00721$$

19.4 base_w_wa_plikHM_TT_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02217^{+0.00051}_{-0.00049}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.025}_{-0.025}$	$H(0.38)$	$84.7^{+2.6}_{-2.9}$
$\Omega_{\mathrm{c}}h^2$	$0.1198^{+0.0034}_{-0.0036}$	$\sigma_8/h^{0.5}$	$0.984^{+0.036}_{-0.037}$	$D_{\mathrm{M}}(0.38)$	1528^{+44}_{-46}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}}h$	$95.7^{+10}_{-8.0}$	$H(0.51)$	$91.5^{+2.9}_{-3.1}$
τ	$0.053^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.456^{+0.068}_{-0.071}$	$D_{\mathrm{M}}(0.51)$	1971^{+44}_{-46}
w_0	$-0.61^{+0.60}_{-0.67}$	z_{re}	< 9.24	$H(0.61)$	$96.9^{+2.8}_{-3.0}$
w_a	$-1.2^{+1.6}_{-1.8}$	$10^9 A_{\mathrm{s}}$	$2.091^{+0.082}_{-0.054}$	$D_{\mathrm{M}}(0.61)$	2289^{+46}_{-47}
$\ln(10^{10}A_{\mathrm{s}})$	$3.040^{+0.038}_{-0.026}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.029}_{-0.028}$	$H(2.33)$	$233.9^{+3.5}_{-3.0}$
n_{s}	$0.965^{+0.012}_{-0.012}$	D_{40}	1229^{+32}_{-32}	$D_{\mathrm{M}}(2.33)$	5755^{+38}_{-36}
y_{cal}	$1.0003^{+0.0062}_{-0.0062}$	D_{220}	5715^{+100}_{-100}	$f\sigma_8(0.15)$	$0.445^{+0.033}_{-0.030}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2535^{+35}_{-34}	$\sigma_8(0.15)$	$0.732^{+0.060}_{-0.054}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.456^{+0.053}_{-0.045}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+4.6}_{-4.3}$	$\sigma_8(0.38)$	$0.650^{+0.053}_{-0.047}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	$0.456^{+0.054}_{-0.046}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24531^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	$0.609^{+0.048}_{-0.043}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.454^{+0.052}_{-0.045}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5\mathrm{D}/\mathrm{H}$	$2.624^{+0.096}_{-0.094}$	$\sigma_8(0.61)$	$0.580^{+0.045}_{-0.040}$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.780^{+0.091}_{-0.087}$	$f\sigma_8(2.33)$	$0.295^{+0.020}_{-0.018}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.9}_{-5.1}$	z_*	$1090.15^{+0.79}_{-0.80}$	$\sigma_8(2.33)$	$0.300^{+0.022}_{-0.019}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.6}_{-4.7}$	r_*	$144.64^{+0.88}_{-0.82}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.3^{+8.2}_{-8.3}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.894^{+0.084}_{-0.078}$	f_{2000}^{217}	$108.0^{+5.1}_{-4.9}$
c_{100}	$0.9996^{+0.0016}_{-0.0015}$	z_{drag}	$1059.5^{+1.1}_{-1.1}$	$\chi_{\mathrm{lensing}}^2$	$9.4 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	$147.38^{+0.91}_{-0.87}$	χ_{simall}^2	$396.6 (\nu: 1.0)$
H_0	$65.0^{+7.0}_{-5.5}$	k_{D}	$0.1404^{+0.0011}_{-0.0011}$	χ_{lowl}^2	$23.50 (\nu: 0.4)$
Ω_{Λ}	$0.661^{+0.064}_{-0.063}$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00065}_{-0.00063}$	χ_{plik}^2	$770.5 (\nu: 13.4)$
Ω_{m}	$0.339^{+0.063}_{-0.064}$	z_{eq}	3392^{+78}_{-84}	$\chi_{6\mathrm{DF}}^2$	$0.54 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0033}_{-0.0035}$	k_{eq}	$0.01035^{+0.00024}_{-0.00026}$	χ_{MGS}^2	$0.91 (\nu: 0.4)$
$\Omega_{\mathrm{m}}h^3$	$0.0926^{+0.010}_{-0.0083}$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.2)$
σ_8	$0.793^{+0.063}_{-0.055}$	$100\theta_{\mathrm{s,eq}}$	$0.4502^{+0.0082}_{-0.0073}$	χ_{prior}^2	$7.3 (\nu: 6.5)$
S_8	$0.842^{+0.040}_{-0.042}$	$H(0.15)$	$73.0^{+2.5}_{-2.2}$	χ_{CMB}^2	$1200.0 (\nu: 14.2)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.461^{+0.022}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	652^{+36}_{-37}	χ_{BAO}^2	$6.3 (\nu: 1.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1213.56; R - 1 = 0.01398$$

19.5 base_w_wa_plikHM_TTTEE_lowl_lowE_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022395	$0.02236^{+0.00037}_{-0.00037}$	$\Omega_m h^3$	0.0929	$0.0930^{+0.010}_{-0.0080}$	$H(0.15)$	73.19	$73.2^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.12001	$0.1203^{+0.0033}_{-0.0033}$	σ_8	0.795	$0.795^{+0.065}_{-0.056}$	$D_M(0.15)$	651.2	652^{+35}_{-38}
$100\theta_{MC}$	1.04093	$1.04089^{+0.00083}_{-0.00079}$	S_8	0.8454	$0.848^{+0.043}_{-0.045}$	$H(0.38)$	84.95	$85.0^{+2.5}_{-2.8}$
τ	0.0546	$0.054^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4631	$0.464^{+0.023}_{-0.024}$	$D_M(0.38)$	1524.6	1524^{+45}_{-43}
w_0	-0.60	$-0.58^{+0.58}_{-0.70}$	$\sigma_8 \Omega_m^{0.25}$	0.6067	$0.608^{+0.027}_{-0.027}$	$H(0.51)$	91.71	$91.7^{+2.8}_{-3.1}$
w_a	-1.20	< 0.356	$\sigma_8/h^{0.5}$	0.9865	$0.988^{+0.040}_{-0.040}$	$D_M(0.51)$	1966.1	1965^{+47}_{-43}
$\ln(10^{10} A_s)$	3.0454	$3.044^{+0.044}_{-0.041}$	$r_{drag} h$	95.5	$95.4^{+10}_{-7.9}$	$H(0.61)$	97.14	$97.1^{+2.8}_{-3.0}$
n_s	0.9664	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.461	$2.466^{+0.079}_{-0.083}$	$D_M(0.61)$	2283.8	2283^{+48}_{-44}
y_{cal}	1.0006	$1.0005^{+0.0062}_{-0.0066}$	z_{re}	7.68	$7.6^{+2.1}_{-2.1}$	$H(2.33)$	234.06	$234.1^{+3.2}_{-2.7}$
A_{217}^{CIB}	45.5	47^{+20}_{-20}	$10^9 A_s$	2.102	$2.099^{+0.094}_{-0.085}$	$D_M(2.33)$	5742.5	5746^{+32}_{-28}
$\xi^{tSZ \times CIB}$	0.69	—	$10^9 A_s e^{-2\tau}$	1.8846	$1.884^{+0.029}_{-0.030}$	$f\sigma_8(0.15)$	0.4460	$0.446^{+0.034}_{-0.029}$
A_{143}^{tSZ}	7.02	$5.5^{+4.5}_{-4.6}$	D_{40}	1228.1	1232^{+32}_{-32}	$\sigma_8(0.15)$	0.734	$0.734^{+0.063}_{-0.054}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{220}	5732	5731^{+97}_{-100}	$f\sigma_8(0.38)$	0.4563	$0.457^{+0.055}_{-0.045}$
A_{143}^{PS}	51.1	46^{+20}_{-20}	D_{810}	2541.5	2539^{+34}_{-36}	$\sigma_8(0.38)$	0.651	$0.652^{+0.055}_{-0.047}$
$A_{143 \times 217}^{PS}$	54.0	42^{+20}_{-20}	D_{1420}	818.5	817^{+12}_{-13}	$f\sigma_8(0.51)$	0.457	$0.457^{+0.056}_{-0.046}$
A_{217}^{PS}	122.4	115^{+30}_{-30}	D_{2000}	231.50	$230.9^{+4.0}_{-4.3}$	$\sigma_8(0.51)$	0.6105	$0.611^{+0.050}_{-0.043}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9664	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	0.4538	$0.455^{+0.054}_{-0.045}$
A_{100}^{dustTT}	8.79	$8.9^{+4.7}_{-4.6}$	Y_P	0.245405	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	0.5814	$0.582^{+0.047}_{-0.040}$
A_{143}^{dustTT}	11.00	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	0.246732	$0.24671^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	0.2958	$0.296^{+0.021}_{-0.018}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.6^{+8.4}_{-8.5}$	$10^5 D/H$	2.581	$2.589^{+0.071}_{-0.067}$	$\sigma_8(2.33)$	0.3011	$0.301^{+0.022}_{-0.019}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	Age/Gyr	13.753	$13.755^{+0.084}_{-0.074}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
A_{100}^{dustTE}	0.115	$0.115^{+0.10}_{-0.096}$	z_*	1089.89	$1089.96^{+0.68}_{-0.65}$	$f_{2000}^{143 \times 217}$	31.83	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.076}_{-0.075}$	r_*	144.41	$144.37^{+0.76}_{-0.73}$	f_{2000}^{217}	106.35	$106.9^{+4.6}_{-4.6}$
$A_{100 \times 217}^{dustTE}$	0.483	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04111	$1.04108^{+0.00082}_{-0.00078}$	χ_{simall}^2	396.05	$397.0 (\nu: 1.6)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.871	$13.867^{+0.071}_{-0.069}$	χ_{lowl}^2	23.24	$23.63 (\nu: 0.4)$
$A_{143 \times 217}^{dustTE}$	0.665	$0.67^{+0.21}_{-0.21}$	z_{drag}	1060.01	$1059.92^{+0.77}_{-0.79}$	χ_{plik}^2	2343.6	$2358.5 (\nu: 16.6)$
A_{217}^{dustTE}	2.09	$2.09^{+0.69}_{-0.68}$	r_{drag}	147.06	$147.03^{+0.76}_{-0.73}$	χ_{6DF}^2	0.33	$0.57 (\nu: 0.2)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14092	$0.14092^{+0.00082}_{-0.00085}$	χ_{MGS}^2	0.63	$0.87 (\nu: 0.4)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160724	$0.16077^{+0.00046}_{-0.00045}$	$\chi_{DR12BAO}^2$	3.45	$4.9 (\nu: 1.1)$
H_0	64.9	$64.9^{+7.1}_{-5.4}$	z_{eq}	3403	3409^{+74}_{-75}	χ_{prior}^2	1.6	$11.5 (\nu: 10.0)$
Ω_Λ	0.661	$0.658^{+0.064}_{-0.063}$	k_{eq}	0.010387	$0.01040^{+0.00022}_{-0.00023}$	χ_{BAO}^2	4.40	$6.3 (\nu: 1.7)$
Ω_m	0.339	$0.342^{+0.063}_{-0.064}$	$100\theta_{eq}$	0.8132	$0.812^{+0.014}_{-0.014}$	χ_{CMB}^2	2762.9	$2779.1 (\nu: 17.0)$
$\Omega_m h^2$	0.14305	$0.1433^{+0.0031}_{-0.0032}$	$100\theta_{s,eq}$	0.4493	$0.4488^{+0.0073}_{-0.0070}$			

Best-fit $\chi_{eff}^2 = 2768.85$; $\bar{\chi}_{eff}^2 = 2796.92$; $R - 1 = 0.01402$
 χ_{eff}^2 : BAO - 6DF: 0.33 MGS: 0.62 DR12BAO: 3.45 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3_2_29: 23.24 plik_rd12_HM_v22b_TTTEE: 2343.59

19.6 base_w_wa_plikHM_TTTEE_lowl_lowE_BAO_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022408	$0.02238^{+0.00036}_{-0.00036}$	$\Omega_m h^3$	0.0929	$0.0928^{+0.010}_{-0.0079}$	$H(0.15)$	73.10	$73.2^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.11969	$0.1199^{+0.0029}_{-0.0028}$	σ_8	0.792	$0.792^{+0.064}_{-0.052}$	$D_M(0.15)$	651.2	651^{+35}_{-37}
$100\theta_{MC}$	1.04095	$1.04092^{+0.00084}_{-0.00080}$	S_8	0.8396	$0.842^{+0.036}_{-0.037}$	$H(0.38)$	84.79	$85.0^{+2.7}_{-2.8}$
τ	0.0530	$0.053^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4599	$0.461^{+0.020}_{-0.020}$	$D_M(0.38)$	1526.2	1525^{+45}_{-42}
w_0	-0.63	$-0.59^{+0.61}_{-0.68}$	$\sigma_8 \Omega_m^{0.25}$	0.6034	$0.604^{+0.022}_{-0.021}$	$H(0.51)$	91.58	$91.7^{+3.0}_{-3.1}$
w_a	-1.07	< 0.360	$\sigma_8/h^{0.5}$	0.9817	$0.983^{+0.033}_{-0.032}$	$D_M(0.51)$	1968.5	1966^{+46}_{-43}
$\ln(10^{10} A_s)$	3.0408	$3.041^{+0.040}_{-0.037}$	$r_{\text{drag}} h$	95.7	$95.6^{+10}_{-7.9}$	$H(0.61)$	97.05	$97.1^{+2.9}_{-3.0}$
n_s	0.9671	$0.965^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.455^{+0.060}_{-0.061}$	$D_M(0.61)$	2286.5	2284^{+47}_{-44}
y_{cal}	1.0005	$1.0004^{+0.0062}_{-0.0066}$	z_{re}	7.51	$7.5^{+2.0}_{-2.0}$	$H(2.33)$	234.19	$234.1^{+3.3}_{-2.8}$
A_{217}^{CIB}	46.6	47^{+20}_{-20}	$10^9 A_s$	2.092	$2.092^{+0.085}_{-0.076}$	$D_M(2.33)$	5742.7	5744^{+33}_{-28}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.52	—	$10^9 A_s e^{-2\tau}$	1.8818	$1.882^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	0.4444	$0.444^{+0.032}_{-0.027}$
A_{143}^{tSZ}	7.16	> 0.851	D_{40}	1225.3	1229^{+29}_{-29}	$\sigma_8(0.15)$	0.731	$0.731^{+0.062}_{-0.050}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{220}	5729	5732^{+98}_{-100}	$f\sigma_8(0.38)$	0.4549	$0.455^{+0.053}_{-0.043}$
A_{143}^{PS}	48.6	46^{+20}_{-20}	D_{810}	2539.7	2538^{+34}_{-36}	$\sigma_8(0.38)$	0.6489	$0.649^{+0.054}_{-0.044}$
$A_{143 \times 217}^{\text{PS}}$	49.7	42^{+20}_{-20}	D_{1420}	818.2	817^{+12}_{-13}	$f\sigma_8(0.51)$	0.4548	$0.455^{+0.054}_{-0.044}$
A_{217}^{PS}	120.6	115^{+30}_{-30}	D_{2000}	231.36	$230.8^{+3.9}_{-4.4}$	$\sigma_8(0.51)$	0.6081	$0.608^{+0.049}_{-0.040}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9671	$0.965^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	0.4519	$0.452^{+0.052}_{-0.043}$
A_{100}^{dustTT}	8.85	$8.9^{+4.7}_{-4.5}$	Y_P	0.245411	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.5791	$0.579^{+0.046}_{-0.037}$
A_{143}^{dustTT}	11.02	$10.9^{+4.5}_{-4.7}$	Y_P^{BBN}	0.246737	$0.24672^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	0.2945	$0.295^{+0.020}_{-0.017}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.3}_{-8.6}$	$10^5 D/H$	2.578	$2.584^{+0.068}_{-0.065}$	$\sigma_8(2.33)$	0.3004	$0.300^{+0.022}_{-0.018}$
A_{217}^{dustTT}	95.2	94^{+20}_{-20}	Age/Gyr	13.757	$13.756^{+0.083}_{-0.075}$	f_{2000}^{143}	28.6	29^{+7}_{-7}
A_{100}^{dustTE}	0.114	$0.115^{+0.099}_{-0.095}$	z_*	1089.84	$1089.90^{+0.62}_{-0.61}$	$f_{2000}^{143 \times 217}$	31.89	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.134^{+0.077}_{-0.077}$	r_*	144.48	$144.45^{+0.64}_{-0.65}$	f_{2000}^{217}	106.47	$106.9^{+4.6}_{-4.6}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	1.04113	$1.04111^{+0.00084}_{-0.00079}$	χ_{lensing}^2	8.77	9.28 (ν : 0.4)
A_{143}^{dustTE}	0.225	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.877	$13.875^{+0.061}_{-0.061}$	χ_{small}^2	395.82	396.8 (ν : 1.2)
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.21}_{-0.21}$	z_{drag}	1060.01	$1059.95^{+0.79}_{-0.78}$	χ_{lowl}^2	23.02	23.44 (ν : 0.3)
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.70}$	r_{drag}	147.13	$147.11^{+0.66}_{-0.65}$	χ_{plik}^2	2344.2	2358.6 (ν : 16.1)
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14085	$0.14085^{+0.00075}_{-0.00076}$	$\chi_{6\text{DF}}^2$	0.31	0.56 (ν : 0.2)
c_{217}	0.99819	$0.9982^{+0.0017}_{-0.0016}$	$100\theta_D$	0.160720	$0.16075^{+0.00045}_{-0.00045}$	χ_{MGS}^2	0.63	0.89 (ν : 0.4)
H_0	65.1	$65.0^{+6.9}_{-5.4}$	z_{eq}	3396	3400^{+65}_{-63}	χ_{DR12BAO}^2	3.35	4.8 (ν : 1.1)
Ω_Λ	0.663	$0.660^{+0.063}_{-0.063}$	k_{eq}	0.010364	$0.01038^{+0.00020}_{-0.00019}$	χ_{prior}^2	1.7	11.5 (ν : 10.2)
Ω_m	0.337	$0.340^{+0.063}_{-0.063}$	$100\theta_{\text{eq}}$	0.8146	$0.814^{+0.012}_{-0.012}$	χ_{CMB}^2	2771.8	2788.1 (ν : 17.1)
$\Omega_m h^2$	0.14275	$0.1429^{+0.0027}_{-0.0027}$	$100\theta_{s,\text{eq}}$	0.4500	$0.4496^{+0.0061}_{-0.0062}$	χ_{BAO}^2	4.28	6.3 (ν : 1.7)

Best-fit $\chi_{\text{eff}}^2 = 2777.81$; $\bar{\chi}_{\text{eff}}^2 = 2805.90$; $R - 1 = 0.01750$

χ_{eff}^2 : BAO - 6DF: 0.31 MGS: 0.62 DR12BAO: 3.35 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143_offlike5_EE_Aplanck_B: 395.82 commander_dx12.v3.2.29: 23.02 plik_rd12_HM.v22b_TTTEE: 2344.24

19.7 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02236^{+0.00037}_{-0.00038}$	$\Omega_m h^3$	$0.0929^{+0.010}_{-0.0080}$	$H(0.15)$	$73.2^{+2.3}_{-2.3}$
$\Omega_c h^2$	$0.1202^{+0.0033}_{-0.0033}$	σ_8	$0.796^{+0.066}_{-0.054}$	$D_M(0.15)$	652^{+35}_{-38}
$100\theta_{MC}$	$1.04090^{+0.00084}_{-0.00079}$	S_8	$0.848^{+0.042}_{-0.044}$	$H(0.38)$	$85.0^{+2.5}_{-2.9}$
τ	$0.055^{+0.019}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.465^{+0.023}_{-0.024}$	$D_M(0.38)$	1524^{+45}_{-43}
w_0	$-0.58^{+0.58}_{-0.70}$	$\sigma_8 \Omega_m^{0.25}$	$0.608^{+0.027}_{-0.027}$	$H(0.51)$	$91.7^{+2.8}_{-3.1}$
w_a	< 0.360	$\sigma_8/h^{0.5}$	$0.988^{+0.040}_{-0.040}$	$D_M(0.51)$	1966^{+46}_{-43}
$\ln(10^{10} A_s)$	$3.046^{+0.042}_{-0.030}$	$r_{\text{drag}} h$	$95.4^{+10}_{-7.9}$	$H(0.61)$	$97.1^{+2.8}_{-3.1}$
n_s	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.468^{+0.079}_{-0.081}$	$D_M(0.61)$	2283^{+48}_{-43}
y_{cal}	$1.0005^{+0.0062}_{-0.0066}$	z_{re}	< 9.51	$H(2.33)$	$234.1^{+3.2}_{-2.7}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.090}_{-0.062}$	$D_M(2.33)$	5745^{+32}_{-28}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.884^{+0.029}_{-0.030}$	$f\sigma_8(0.15)$	$0.447^{+0.034}_{-0.029}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{40}	1232^{+32}_{-32}	$\sigma_8(0.15)$	$0.735^{+0.063}_{-0.052}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5731^{+97}_{-100}	$f\sigma_8(0.38)$	$0.457^{+0.055}_{-0.044}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+34}_{-36}	$\sigma_8(0.38)$	$0.652^{+0.055}_{-0.046}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.51)$	$0.458^{+0.056}_{-0.045}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.9^{+4.0}_{-4.3}$	$\sigma_8(0.51)$	$0.611^{+0.051}_{-0.042}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.455^{+0.054}_{-0.044}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.6}$	Y_P	$0.24539^{+0.00014}_{-0.00016}$	$\sigma_8(0.61)$	$0.582^{+0.047}_{-0.039}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.6}$	Y_P^{BBN}	$0.24672^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	$0.296^{+0.021}_{-0.018}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.4}_{-8.5}$	10^5D/H	$2.588^{+0.071}_{-0.067}$	$\sigma_8(2.33)$	$0.301^{+0.022}_{-0.018}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.755^{+0.084}_{-0.073}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.115^{+0.10}_{-0.096}$	z_*	$1089.96^{+0.68}_{-0.65}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.075}$	r_*	$144.38^{+0.76}_{-0.72}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.6}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04108^{+0.00083}_{-0.00078}$	χ_{simall}^2	$397.0 (\nu: 1.7)$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.868^{+0.071}_{-0.068}$	χ_{lowl}^2	$23.64 (\nu: 0.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.93^{+0.77}_{-0.80}$	χ_{plik}^2	$2358.3 (\nu: 16.5)$
A_{217}^{dustTE}	$2.09^{+0.69}_{-0.68}$	r_{drag}	$147.04^{+0.76}_{-0.73}$	$\chi_{6\text{DF}}^2$	$0.57 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14091^{+0.00082}_{-0.00085}$	χ_{MGS}^2	$0.87 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16076^{+0.00046}_{-0.00045}$	χ_{DR12BAO}^2	$4.9 (\nu: 1.1)$
H_0	$64.9^{+7.1}_{-5.4}$	z_{eq}	3408^{+74}_{-75}	χ_{prior}^2	$11.5 (\nu: 10.0)$
Ω_Λ	$0.658^{+0.065}_{-0.062}$	k_{eq}	$0.01040^{+0.00022}_{-0.00023}$	χ_{BAO}^2	$6.3 (\nu: 1.7)$
Ω_m	$0.342^{+0.062}_{-0.065}$	$100\theta_{\text{eq}}$	$0.812^{+0.014}_{-0.014}$	χ_{CMB}^2	$2778.9 (\nu: 16.7)$
$\Omega_m h^2$	$0.1432^{+0.0031}_{-0.0031}$	$100\theta_{s,\text{eq}}$	$0.4489^{+0.0073}_{-0.0070}$		

$$\bar{\chi}_{\text{eff}}^2 = 2796.70; R - 1 = 0.01451$$

19.8 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02238^{+0.00036}_{-0.00036}$	$\Omega_{\mathrm{m}}h^3$	$0.0928^{+0.010}_{-0.0079}$	$H(0.15)$	$73.2^{+2.2}_{-2.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1198^{+0.0028}_{-0.0028}$	σ_8	$0.792^{+0.064}_{-0.052}$	$D_{\mathrm{M}}(0.15)$	652^{+35}_{-38}
$100\theta_{\mathrm{MC}}$	$1.04093^{+0.00085}_{-0.00080}$	S_8	$0.842^{+0.036}_{-0.037}$	$H(0.38)$	$85.0^{+2.7}_{-2.8}$
τ	$0.054^{+0.018}_{-0.012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.461^{+0.020}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1525^{+45}_{-42}
w_0	$-0.60^{+0.61}_{-0.68}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.022}_{-0.021}$	$H(0.51)$	$91.7^{+3.0}_{-3.1}$
w_a	< 0.365	$\sigma_8/h^{0.5}$	$0.983^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.51)$	1967^{+46}_{-43}
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.038}_{-0.026}$	$r_{\mathrm{drag}}h$	$95.6^{+10}_{-7.9}$	$H(0.61)$	$97.1^{+2.9}_{-3.0}$
n_{s}	$0.965^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.059}_{-0.059}$	$D_{\mathrm{M}}(0.61)$	2284^{+47}_{-43}
y_{cal}	$1.0003^{+0.0062}_{-0.0066}$	z_{re}	< 9.32	$H(2.33)$	$234.1^{+3.3}_{-2.8}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.097^{+0.081}_{-0.054}$	$D_{\mathrm{M}}(2.33)$	5744^{+33}_{-28}
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.027}_{-0.028}$	$f\sigma_8(0.15)$	$0.444^{+0.032}_{-0.027}$
A_{143}^{tSZ}	> 0.838	D_{40}	1229^{+29}_{-29}	$\sigma_8(0.15)$	$0.731^{+0.062}_{-0.050}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5731^{+98}_{-100}	$f\sigma_8(0.38)$	$0.455^{+0.053}_{-0.043}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2537^{+34}_{-36}	$\sigma_8(0.38)$	$0.650^{+0.054}_{-0.044}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.51)$	$0.455^{+0.055}_{-0.044}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.8^{+4.0}_{-4.4}$	$\sigma_8(0.51)$	$0.609^{+0.049}_{-0.040}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	$0.452^{+0.053}_{-0.042}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.5}$	Y_{P}	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.580^{+0.046}_{-0.037}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.4}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.295^{+0.020}_{-0.017}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.3}_{-8.6}$	$10^5 \mathrm{D}/\mathrm{H}$	$2.583^{+0.068}_{-0.064}$	$\sigma_8(2.33)$	$0.300^{+0.022}_{-0.018}$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.757^{+0.083}_{-0.075}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.099}_{-0.095}$	z_*	$1089.89^{+0.60}_{-0.60}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.135^{+0.077}_{-0.077}$	r_*	$144.47^{+0.64}_{-0.63}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.6}$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04112^{+0.00084}_{-0.00079}$	$\chi_{\mathrm{lensing}}^2$	$9.29 (\nu: 0.4)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.876^{+0.060}_{-0.059}$	χ_{simall}^2	$396.7 (\nu: 1.2)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.95^{+0.78}_{-0.78}$	χ_{lowl}^2	$23.43 (\nu: 0.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.67}_{-0.68}$	r_{drag}	$147.12^{+0.65}_{-0.64}$	χ_{plik}^2	$2358.5 (\nu: 16.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14084^{+0.00074}_{-0.00077}$	$\chi_{6\mathrm{DF}}^2$	$0.56 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00046}_{-0.00045}$	χ_{MGS}^2	$0.89 (\nu: 0.4)$
H_0	$65.0^{+6.9}_{-5.4}$	z_{eq}	3398^{+62}_{-62}	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.1)$
Ω_{Λ}	$0.660^{+0.063}_{-0.062}$	k_{eq}	$0.01037^{+0.00019}_{-0.00019}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{m}	$0.340^{+0.062}_{-0.063}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.012}_{-0.012}$	χ_{CMB}^2	$2787.9 (\nu: 16.8)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0026}_{-0.0026}$	$100\theta_{\mathrm{s,eq}}$	$0.4498^{+0.0061}_{-0.0060}$	χ_{BAO}^2	$6.3 (\nu: 1.7)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2805.65; R - 1 = 0.01782$$

19.9 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02214^{+0.00058}_{-0.00053}$	$\sigma_8 \Omega_m^{0.5}$	0.4571	$0.458^{+0.027}_{-0.029}$	$H(0.38)$	83.67	$83.7^{+1.8}_{-1.8}$
$\Omega_c h^2$	0.12068	$0.1209^{+0.0044}_{-0.0047}$	$\sigma_8 \Omega_m^{0.25}$	0.6194	$0.620^{+0.032}_{-0.034}$	$D_M(0.38)$	1500.3	1499^{+36}_{-36}
$100\theta_{MC}$	1.04085	$1.0408^{+0.0011}_{-0.0012}$	$\sigma_8/h^{0.5}$	1.0064	$1.008^{+0.045}_{-0.050}$	$H(0.51)$	89.89	$89.8^{+1.5}_{-1.5}$
τ	0.0523	$0.052^{+0.021}_{-0.022}$	$r_{drag} h$	102.36	$102.4^{+3.7}_{-3.6}$	$D_M(0.51)$	1949.9	1949^{+42}_{-41}
w_0	-1.010	$-0.998^{+0.28}_{-0.25}$	$\langle d^2 \rangle^{1/2}$	2.473	$2.478^{+0.099}_{-0.11}$	$H(0.61)$	95.16	$95.1^{+1.4}_{-1.2}$
w_a	-0.31	$-0.40^{+0.97}_{-1.3}$	z_{re}	7.51	$7.5^{+2.1}_{-2.5}$	$D_M(0.61)$	2274.1	2273^{+45}_{-44}
$\ln(10^{10} A_s)$	3.0415	$3.041^{+0.041}_{-0.045}$	$10^9 A_s$	2.094	$2.092^{+0.088}_{-0.093}$	$H(2.33)$	234.70	$234.7^{+2.6}_{-2.5}$
n_s	0.9641	$0.962^{+0.014}_{-0.012}$	$10^9 A_s e^{-2\tau}$	1.8857	$1.886^{+0.032}_{-0.033}$	$D_M(2.33)$	5758.8	5762^{+33}_{-35}
α_{JLA}	0.1417	$0.142^{+0.017}_{-0.016}$	D_{40}	1229.7	1233^{+36}_{-35}	$f\sigma_8(0.15)$	0.4661	$0.467^{+0.028}_{-0.030}$
β_{JLA}	3.111	$3.11^{+0.21}_{-0.20}$	D_{220}	5713	5714^{+100}_{-110}	$\sigma_8(0.15)$	0.7770	$0.778^{+0.041}_{-0.043}$
y_{cal}	1.0004	$1.0004^{+0.0062}_{-0.0064}$	D_{810}	2538.9	2537^{+34}_{-35}	$f\sigma_8(0.38)$	0.4925	$0.494^{+0.034}_{-0.034}$
A_{217}^{CIB}	48.0	48^{+20}_{-20}	D_{1420}	816.1	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6895	$0.691^{+0.037}_{-0.038}$
$\xi^{tSZ \times CIB}$	0.47	—	D_{2000}	230.38	$229.8^{+4.4}_{-4.4}$	$f\sigma_8(0.51)$	0.4942	$0.496^{+0.035}_{-0.035}$
A_{143}^{tSZ}	7.0	—	$n_{s,0.002}$	0.9641	$0.962^{+0.014}_{-0.012}$	$\sigma_8(0.51)$	0.6452	$0.646^{+0.034}_{-0.035}$
A_{100}^{PS}	252	263^{+70}_{-70}	Y_P	0.245319	$0.24530^{+0.00023}_{-0.00025}$	$f\sigma_8(0.61)$	0.4908	$0.492^{+0.036}_{-0.036}$
A_{143}^{PS}	51.0	49^{+20}_{-20}	Y_P^{BBN}	0.246645	$0.24662^{+0.00023}_{-0.00025}$	$\sigma_8(0.61)$	0.6138	$0.615^{+0.031}_{-0.033}$
$A_{143 \times 217}^{PS}$	50.5	44^{+20}_{-20}	$10^5 D/H$	2.621	$2.63^{+0.10}_{-0.11}$	$f\sigma_8(2.33)$	0.3100	$0.310^{+0.015}_{-0.017}$
A_{217}^{PS}	120.5	115^{+30}_{-30}	Age/Gyr	13.746	$13.749^{+0.092}_{-0.087}$	$\sigma_8(2.33)$	0.3161	$0.316^{+0.013}_{-0.013}$
A^{kSZ}	0.1	—	z_*	1090.22	$1090.29^{+0.91}_{-0.97}$	f_{2000}^{143}	29.9	31^{+8}_{-8}
A_{100}^{dustTT}	8.91	$8.9^{+4.8}_{-4.7}$	r_*	144.40	$144.4^{+1.1}_{-1.0}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{143}^{dustTT}	10.70	$10.7^{+4.6}_{-4.6}$	$100\theta_*$	1.04105	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{217}	107.38	$107.9^{+4.9}_{-4.8}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.2^{+8.5}_{-8.8}$	$D_M(z_*)/\text{Gpc}$	13.871	$13.87^{+0.10}_{-0.099}$	χ_{simall}^2	395.83	$396.9 (\nu: 1.3)$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	z_{drag}	1059.55	$1059.5^{+1.2}_{-1.2}$	χ_{lowl}^2	23.33	$23.7 (\nu: 0.6)$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.12	$147.1^{+1.1}_{-1.1}$	χ_{plik}^2	758.1	$770.5 (\nu: 14.4)$
c_{217}	0.99824	$0.9982^{+0.0016}_{-0.0016}$	k_D	0.14069	$0.1406^{+0.0013}_{-0.0012}$	$\chi_{H073p45}^2$	5.5	$5.7 (\nu: 3.6)$
H_0	69.57	$69.6^{+2.5}_{-2.4}$	$100\theta_D$	0.16099	$0.16104^{+0.00069}_{-0.00069}$	χ_{JLA}^2	695.5	$698.3 (\nu: 3.4)$
Ω_Λ	0.7035	$0.703^{+0.021}_{-0.023}$	z_{eq}	3414	3417^{+100}_{-110}	χ_{6DF}^2	0.133	$0.21 (\nu: 0.0)$
Ω_m	0.2965	$0.297^{+0.023}_{-0.021}$	k_{eq}	0.010420	$0.01043^{+0.00031}_{-0.00033}$	χ_{MGS}^2	2.84	$2.99 (\nu: 0.3)$
$\Omega_m h^2$	0.14351	$0.1436^{+0.0043}_{-0.0045}$	$100\theta_{eq}$	0.8106	$0.810^{+0.020}_{-0.018}$	$\chi_{DR12BAO}^2$	4.81	$5.9 (\nu: 1.5)$
$\Omega_m h^3$	0.09984	$0.09999^{+0.0048}_{-0.0048}$	$100\theta_{s,eq}$	0.4481	$0.448^{+0.010}_{-0.0095}$	χ_{prior}^2	1.3	$7.2 (\nu: 6.6)$
σ_8	0.8395	$0.841^{+0.044}_{-0.046}$	$H(0.15)$	74.46	$74.6^{+2.0}_{-1.9}$	χ_{BAO}^2	7.8	$9.1 (\nu: 3.1)$
S_8	0.835	$0.836^{+0.048}_{-0.053}$	$D_M(0.15)$	625.2	625^{+17}_{-17}	χ_{CMB}^2	1177.3	$1191.1 (\nu: 14.8)$

Best-fit $\chi_{eff}^2 = 1887.34$; $\bar{\chi}_{eff}^2 = 1911.34$; $R - 1 = 0.00894$
 χ_{eff}^2 : BAO - 6DF: 0.13 MGS: 2.84 DR12BAO: 4.81 CMB - simall-100x143.offlike5_EE_Aplanck_B: 395.83 commander_dx12_v3.2.29: 23.34 plik_rd12_HM_v22.TT: 758.14
Hubble - H073p45: 5.46 SN - JLA December_2013: 695.50

19.10 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02222	$0.02217^{+0.00055}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6136	$0.615^{+0.022}_{-0.023}$	$H(0.51)$	89.90	$89.9^{+1.6}_{-1.5}$
$\Omega_c h^2$	0.11990	$0.1201^{+0.0034}_{-0.0035}$	$\sigma_8/h^{0.5}$	0.9982	$0.9997^{+0.031}_{-0.033}$	$D_M(0.51)$	1950.4	1950^{+41}_{-42}
$100\theta_{MC}$	1.04088	$1.0408^{+0.0011}_{-0.0011}$	$r_{drag} h$	102.59	$102.5^{+3.8}_{-3.5}$	$H(0.61)$	95.20	$95.2^{+1.4}_{-1.3}$
τ	0.0519	$0.051^{+0.021}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.461^{+0.068}_{-0.071}$	$D_M(0.61)$	2274.5	2274^{+43}_{-45}
w_0	-1.025	$-1.01^{+0.27}_{-0.25}$	z_{re}	7.44	$7.4^{+2.0}_{-2.4}$	$H(2.33)$	234.57	$234.6^{+2.7}_{-2.4}$
w_a	-0.21	$-0.29^{+0.86}_{-1.0}$	$10^9 A_s$	2.088	$2.086^{+0.084}_{-0.082}$	$D_M(2.33)$	5757.3	5760^{+33}_{-34}
$\ln(10^{10} A_s)$	3.0386	$3.038^{+0.039}_{-0.040}$	$10^9 A_s e^{-2\tau}$	1.8820	$1.882^{+0.029}_{-0.029}$	$f\sigma_8(0.15)$	0.4615	$0.462^{+0.021}_{-0.021}$
n_s	0.9654	$0.964^{+0.012}_{-0.011}$	D_{40}	1226.5	1230^{+32}_{-32}	$\sigma_8(0.15)$	0.7713	$0.772^{+0.031}_{-0.032}$
y_{cal}	1.0004	$1.0003^{+0.0061}_{-0.0065}$	D_{220}	5717	5716^{+100}_{-110}	$f\sigma_8(0.38)$	0.4877	$0.488^{+0.026}_{-0.026}$
α_{JLA}	0.1415	$0.142^{+0.017}_{-0.016}$	D_{810}	2537.6	2535^{+33}_{-34}	$\sigma_8(0.38)$	0.6847	$0.685^{+0.028}_{-0.028}$
β_{JLA}	3.111	$3.11^{+0.21}_{-0.20}$	D_{1420}	816.1	815^{+12}_{-13}	$f\sigma_8(0.51)$	0.4893	$0.490^{+0.027}_{-0.027}$
A_{217}^{CIB}	48.1	48^{+20}_{-20}	D_{2000}	230.32	$229.7^{+4.3}_{-4.5}$	$\sigma_8(0.51)$	0.6408	$0.641^{+0.025}_{-0.026}$
$\xi^{tSZ \times CIB}$	0.44	—	$n_{s,0.002}$	0.9654	$0.964^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	0.4858	$0.487^{+0.027}_{-0.027}$
A_{143}^{tSZ}	7.0	—	Y_P	0.245334	$0.24531^{+0.00021}_{-0.00024}$	$\sigma_8(0.61)$	0.6097	$0.610^{+0.024}_{-0.024}$
A_{100}^{PS}	253	263^{+70}_{-70}	Y_P^{BBN}	0.246661	$0.24664^{+0.00021}_{-0.00024}$	$f\sigma_8(2.33)$	0.3080	$0.308^{+0.012}_{-0.012}$
A_{143}^{PS}	50.7	49^{+20}_{-20}	$10^5 D/H$	2.614	$2.624^{+0.099}_{-0.10}$	$\sigma_8(2.33)$	0.3147	$0.3146^{+0.0097}_{-0.010}$
$A_{143 \times 217}^{PS}$	49.8	43^{+20}_{-20}	Age/Gyr	13.749	$13.752^{+0.090}_{-0.087}$	f_{2000}^{143}	30.0	31^{+8}_{-8}
A_{217}^{PS}	120.2	115^{+30}_{-30}	z_*	1090.10	$1090.19^{+0.83}_{-0.84}$	$f_{2000}^{143 \times 217}$	33.1	33^{+5}_{-5}
A^{kSZ}	0.0	—	r_*	144.57	$144.55^{+0.83}_{-0.83}$	f_{2000}^{217}	107.41	$107.9^{+4.9}_{-4.8}$
A_{100}^{dustTT}	8.91	$8.9^{+4.8}_{-4.8}$	$100\theta_*$	1.04108	$1.0411^{+0.0011}_{-0.0011}$	$\chi_{lensing}^2$	8.75	$9.4 (\nu: 0.6)$
A_{143}^{dustTT}	10.82	$10.7^{+4.5}_{-4.8}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.885^{+0.079}_{-0.080}$	χ_{small}^2	395.76	$396.8 (\nu: 1.1)$
$A_{143 \times 217}^{dustTT}$	19.5	$18.2^{+8.7}_{-8.8}$	z_{drag}	1059.59	$1059.5^{+1.2}_{-1.2}$	χ_{lowl}^2	23.05	$23.40 (\nu: 0.4)$
A_{217}^{dustTT}	94.6	93^{+20}_{-20}	r_{drag}	147.28	$147.28^{+0.88}_{-0.88}$	χ_{plik}^2	758.7	$770.7 (\nu: 14.1)$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	k_D	0.14055	$0.1405^{+0.0012}_{-0.0011}$	$\chi_{H073p45}^2$	5.2	$5.7 (\nu: 3.6)$
c_{217}	0.99826	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16096	$0.16102^{+0.00070}_{-0.00068}$	χ_{JLA}^2	695.7	$698.2 (\nu: 3.4)$
H_0	69.65	$69.6^{+2.5}_{-2.4}$	z_{eq}	3396	3401^{+78}_{-81}	χ_{6DF}^2	0.155	$0.21 (\nu: 0.0)$
Ω_Λ	0.7057	$0.705^{+0.021}_{-0.022}$	k_{eq}	0.010365	$0.01038^{+0.00024}_{-0.00025}$	χ_{MGS}^2	2.92	$2.99 (\nu: 0.3)$
Ω_m	0.2943	$0.295^{+0.022}_{-0.021}$	$100\theta_{eq}$	0.8139	$0.813^{+0.015}_{-0.014}$	$\chi_{DR12BAO}^2$	4.72	$5.7 (\nu: 1.5)$
$\Omega_m h^2$	0.14276	$0.1430^{+0.0033}_{-0.0034}$	$100\theta_{s,eq}$	0.4498	$0.4494^{+0.0077}_{-0.0073}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.7)$
$\Omega_m h^3$	0.09944	$0.0995^{+0.0042}_{-0.0044}$	$H(0.15)$	74.43	$74.5^{+2.0}_{-1.9}$	χ_{CMB}^2	1186.3	$1200.2 (\nu: 15.4)$
σ_8	0.8331	$0.834^{+0.033}_{-0.034}$	$D_M(0.15)$	625.1	625^{+17}_{-17}	χ_{BAO}^2	7.8	$8.9 (\nu: 3.2)$
S_8	0.8251	$0.827^{+0.034}_{-0.034}$	$H(0.38)$	83.64	$83.7^{+1.8}_{-1.8}$			
$\sigma_8 \Omega_m^{0.5}$	0.4519	$0.453^{+0.019}_{-0.019}$	$D_M(0.38)$	1500.7	1500^{+35}_{-36}			

Best-fit $\chi_{eff}^2 = 1896.26$; $\bar{\chi}_{eff}^2 = 1920.42$; $R - 1 = 0.01184$

χ_{eff}^2 : BAO - 6DF: 0.15 MGS: 2.92 DR12BAO: 4.72 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.75 small_100x143_offlike5_EE_Aplanck_B: 395.76 commander_dx12_v3_2_29: 23.05 plik_rd12_HM_v22_TT: 758.73 Hubble - H073p45: 5.23 SN - JLA December_2013: 695.66

19.11 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02215^{+0.00058}_{-0.00053}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.026}_{-0.028}$	$H(0.38)$	$83.7^{+1.8}_{-1.8}$
$\Omega_{\mathrm{c}}h^2$	$0.1208^{+0.0044}_{-0.0047}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.621^{+0.032}_{-0.034}$	$D_{\mathrm{M}}(0.38)$	1499^{+36}_{-35}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0012}$	$\sigma_8/h^{0.5}$	$1.009^{+0.044}_{-0.049}$	$H(0.51)$	$89.9^{+1.5}_{-1.5}$
τ	$0.054^{+0.018}_{-0.012}$	$r_{\mathrm{drag}}h$	$102.4^{+3.7}_{-3.6}$	$D_{\mathrm{M}}(0.51)$	1949^{+42}_{-41}
w_0	$-0.999^{+0.28}_{-0.25}$	$\langle d^2 \rangle^{1/2}$	$2.481^{+0.098}_{-0.11}$	$H(0.61)$	$95.1^{+1.4}_{-1.2}$
w_a	$-0.39^{+0.96}_{-1.2}$	z_{re}	< 9.32	$D_{\mathrm{M}}(0.61)$	2273^{+45}_{-44}
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.029}$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.083}_{-0.060}$	$H(2.33)$	$234.7^{+2.7}_{-2.5}$
n_{s}	$0.963^{+0.014}_{-0.012}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.032}_{-0.033}$	$D_{\mathrm{M}}(2.33)$	5762^{+33}_{-36}
α_{JLA}	$0.142^{+0.017}_{-0.016}$	D_{40}	1233^{+36}_{-36}	$f\sigma_8(0.15)$	$0.467^{+0.027}_{-0.028}$
β_{JLA}	$3.11^{+0.21}_{-0.20}$	D_{220}	5714^{+100}_{-110}	$\sigma_8(0.15)$	$0.779^{+0.041}_{-0.042}$
y_{cal}	$1.0004^{+0.0062}_{-0.0064}$	D_{810}	2536^{+34}_{-35}	$f\sigma_8(0.38)$	$0.494^{+0.034}_{-0.034}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+12}_{-13}	$\sigma_8(0.38)$	$0.691^{+0.036}_{-0.037}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{2000}	$229.8^{+4.4}_{-4.4}$	$f\sigma_8(0.51)$	$0.496^{+0.035}_{-0.035}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.963^{+0.014}_{-0.012}$	$\sigma_8(0.51)$	$0.647^{+0.033}_{-0.035}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24530^{+0.00023}_{-0.00025}$	$f\sigma_8(0.61)$	$0.493^{+0.036}_{-0.036}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00023}_{-0.00025}$	$\sigma_8(0.61)$	$0.615^{+0.031}_{-0.033}$
$A_{143\times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$10^5\mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.11}$	$f\sigma_8(2.33)$	$0.311^{+0.015}_{-0.017}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.749^{+0.091}_{-0.088}$	$\sigma_8(2.33)$	$0.316^{+0.012}_{-0.013}$
A^{kSZ}	—	z_*	$1090.28^{+0.90}_{-0.96}$	f_{2000}^{143}	31^{+7}_{-8}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.8}$	r_*	$144.4^{+1.1}_{-1.0}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.6}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0012}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.8}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.2^{+8.5}_{-8.8}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.10}_{-0.098}$	χ_{simall}^2	$396.8 (\nu: 1.2)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.2}_{-1.1}$	χ_{lowl}^2	$23.7 (\nu: 0.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.1^{+1.1}_{-1.1}$	χ_{plik}^2	$770.3 (\nu: 14.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1406^{+0.0013}_{-0.0012}$	$\chi_{\mathrm{H073p45}}^2$	$5.7 (\nu: 3.6)$
H_0	$69.6^{+2.5}_{-2.5}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00069}_{-0.00070}$	χ_{JLA}^2	$698.3 (\nu: 3.4)$
Ω_{Λ}	$0.703^{+0.021}_{-0.023}$	z_{eq}	3416^{+100}_{-110}	$\chi_{6\mathrm{DF}}^2$	$0.21 (\nu: 0.0)$
Ω_{m}	$0.297^{+0.023}_{-0.021}$	k_{eq}	$0.01043^{+0.00031}_{-0.00032}$	χ_{MGS}^2	$2.98 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1436^{+0.0042}_{-0.0045}$	$100\theta_{\mathrm{eq}}$	$0.810^{+0.020}_{-0.018}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.9 (\nu: 1.4)$
$\Omega_{\mathrm{m}}h^3$	$0.0999^{+0.0048}_{-0.0048}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.010}_{-0.0093}$	χ_{prior}^2	$7.2 (\nu: 6.6)$
σ_8	$0.842^{+0.044}_{-0.046}$	$H(0.15)$	$74.5^{+2.0}_{-1.9}$	χ_{BAO}^2	$9.1 (\nu: 3.1)$
S_8	$0.837^{+0.048}_{-0.051}$	$D_{\mathrm{M}}(0.15)$	625^{+17}_{-17}	χ_{CMB}^2	$1190.8 (\nu: 14.2)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1911.05; R - 1 = 0.01013$$

19.12 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02218^{+0.00054}_{-0.00051}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.615^{+0.022}_{-0.023}$	$H(0.51)$	$89.9^{+1.6}_{-1.5}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0033}_{-0.0034}$	$\sigma_8/h^{0.5}$	$1.000^{+0.031}_{-0.033}$	$D_{\mathrm{M}}(0.51)$	1950^{+41}_{-41}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$r_{\mathrm{drag}}h$	$102.5^{+3.8}_{-3.6}$	$H(0.61)$	$95.2^{+1.4}_{-1.3}$
τ	$0.053^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.462^{+0.068}_{-0.070}$	$D_{\mathrm{M}}(0.61)$	2275^{+43}_{-44}
w_0	$-1.01^{+0.27}_{-0.25}$	z_{re}	< 9.23	$H(2.33)$	$234.6^{+2.7}_{-2.4}$
w_{a}	$-0.27^{+0.84}_{-1.0}$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.079}_{-0.053}$	$D_{\mathrm{M}}(2.33)$	5760^{+32}_{-34}
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.037}_{-0.026}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.028}_{-0.029}$	$f\sigma_8(0.15)$	$0.462^{+0.021}_{-0.021}$
n_{s}	$0.964^{+0.012}_{-0.011}$	D_{40}	1229^{+32}_{-32}	$\sigma_8(0.15)$	$0.772^{+0.031}_{-0.032}$
y_{cal}	$1.0003^{+0.0061}_{-0.0064}$	D_{220}	5716^{+100}_{-110}	$f\sigma_8(0.38)$	$0.488^{+0.026}_{-0.026}$
α_{JLA}	$0.142^{+0.017}_{-0.016}$	D_{810}	2535^{+33}_{-34}	$\sigma_8(0.38)$	$0.686^{+0.027}_{-0.028}$
β_{JLA}	$3.11^{+0.21}_{-0.20}$	D_{1420}	815^{+12}_{-13}	$f\sigma_8(0.51)$	$0.490^{+0.027}_{-0.027}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{2000}	$229.8^{+4.3}_{-4.6}$	$\sigma_8(0.51)$	$0.642^{+0.025}_{-0.026}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.012}_{-0.011}$	$f\sigma_8(0.61)$	$0.487^{+0.027}_{-0.027}$
A_{143}^{tSZ}	—	Y_{P}	$0.24532^{+0.00021}_{-0.00024}$	$\sigma_8(0.61)$	$0.610^{+0.024}_{-0.024}$
A_{100}^{PS}	263^{+70}_{-70}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00021}_{-0.00024}$	$f\sigma_8(2.33)$	$0.308^{+0.012}_{-0.013}$
A_{143}^{PS}	49^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.621^{+0.098}_{-0.099}$	$\sigma_8(2.33)$	$0.3149^{+0.0096}_{-0.010}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$\mathrm{Age}/\mathrm{Gyr}$	$13.752^{+0.087}_{-0.088}$	f_{2000}^{143}	31^{+8}_{-8}
A_{217}^{PS}	115^{+30}_{-30}	z_*	$1090.16^{+0.79}_{-0.83}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A^{kSZ}	—	r_*	$144.57^{+0.82}_{-0.80}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.7}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.8}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	$\chi_{\mathrm{lensing}}^2$	$9.4 (\nu: 0.6)$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.8}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.078}_{-0.077}$	χ_{simall}^2	$396.6 (\nu: 1.0)$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.8}_{-8.8}$	z_{drag}	$1059.5^{+1.2}_{-1.2}$	χ_{lowl}^2	$23.38 (\nu: 0.4)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	r_{drag}	$147.30^{+0.88}_{-0.87}$	χ_{plik}^2	$770.6 (\nu: 14.0)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	k_{D}	$0.1405^{+0.0012}_{-0.0011}$	$\chi_{\mathrm{H073p45}}^2$	$5.7 (\nu: 3.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00069}_{-0.00068}$	χ_{JLA}^2	$698.2 (\nu: 3.4)$
H_0	$69.6^{+2.5}_{-2.4}$	z_{eq}	3398^{+76}_{-79}	$\chi_{6\mathrm{DF}}^2$	$0.21 (\nu: 0.0)$
Ω_{Λ}	$0.705^{+0.021}_{-0.022}$	k_{eq}	$0.01037^{+0.00023}_{-0.00024}$	χ_{MGS}^2	$2.98 (\nu: 0.3)$
Ω_{m}	$0.295^{+0.022}_{-0.021}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.015}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.7 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1428^{+0.0032}_{-0.0033}$	$100\theta_{\mathrm{s,eq}}$	$0.4497^{+0.0076}_{-0.0071}$	χ_{prior}^2	$7.3 (\nu: 6.7)$
$\Omega_{\mathrm{m}}h^3$	$0.0994^{+0.0041}_{-0.0044}$	$H(0.15)$	$74.4^{+2.0}_{-1.9}$	χ_{CMB}^2	$1199.9 (\nu: 14.9)$
σ_8	$0.834^{+0.033}_{-0.034}$	$D_{\mathrm{M}}(0.15)$	625^{+17}_{-17}	χ_{BAO}^2	$8.8 (\nu: 3.2)$
S_8	$0.827^{+0.034}_{-0.034}$	$H(0.38)$	$83.7^{+1.8}_{-1.7}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.019}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1501^{+36}_{-35}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1920.07$; $R - 1 = 0.01435$

19.13 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022383	$0.02237^{+0.00037}_{-0.00038}$	$\Omega_m h^2$	0.14321	$0.1434^{+0.0030}_{-0.0031}$	$H(0.15)$	74.51	$74.7^{+1.9}_{-1.9}$
$\Omega_c h^2$	0.12018	$0.1204^{+0.0032}_{-0.0032}$	$\Omega_m h^3$	0.09971	$0.09996^{+0.0041}_{-0.0039}$	$D_M(0.15)$	624.8	624^{+17}_{-17}
$100\theta_{MC}$	1.04092	$1.04090^{+0.00076}_{-0.00079}$	σ_8	0.8356	$0.837^{+0.036}_{-0.036}$	$H(0.38)$	83.79	$83.9^{+1.7}_{-1.7}$
τ	0.0544	$0.054^{+0.022}_{-0.021}$	S_8	0.8292	$0.831^{+0.037}_{-0.038}$	$D_M(0.38)$	1499.0	1497^{+35}_{-34}
w_0	-1.013	$-1.00^{+0.25}_{-0.24}$	$\sigma_8 \Omega_m^{0.5}$	0.4542	$0.455^{+0.020}_{-0.021}$	$H(0.51)$	90.06	$90.1^{+1.4}_{-1.4}$
w_a	-0.25	$-0.33^{+0.83}_{-1.0}$	$\sigma_8 \Omega_m^{0.25}$	0.6160	$0.617^{+0.025}_{-0.025}$	$D_M(0.51)$	1947.9	1945^{+41}_{-39}
$\ln(10^{10} A_s)$	3.0447	$3.044^{+0.043}_{-0.042}$	$\sigma_8/h^{0.5}$	1.0014	$1.003^{+0.036}_{-0.037}$	$H(0.61)$	95.36	$95.3^{+1.2}_{-1.2}$
n_s	0.9661	$0.964^{+0.011}_{-0.010}$	$r_{drag} h$	102.37	$102.5^{+3.6}_{-3.6}$	$D_M(0.61)$	2271.5	2269^{+43}_{-42}
α_{JLA}	0.1417	$0.142^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	2.463	$2.469^{+0.081}_{-0.083}$	$H(2.33)$	234.84	$234.8^{+2.5}_{-2.3}$
β_{JLA}	3.108	$3.11^{+0.21}_{-0.20}$	z_{re}	7.67	$7.6^{+2.1}_{-2.2}$	$D_M(2.33)$	5749.9	5751^{+28}_{-26}
y_{cal}	1.0003	$1.0006^{+0.0065}_{-0.0063}$	$10^9 A_s$	2.100	$2.099^{+0.092}_{-0.088}$	$f\sigma_8(0.15)$	0.4630	$0.464^{+0.022}_{-0.021}$
A_{217}^{CIB}	46.8	46^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8840	$1.885^{+0.030}_{-0.029}$	$\sigma_8(0.15)$	0.7736	$0.775^{+0.034}_{-0.033}$
$\xi^{tSZ \times CIB}$	0.48	—	D_{40}	1227.4	1232^{+30}_{-31}	$f\sigma_8(0.38)$	0.4890	$0.490^{+0.027}_{-0.026}$
A_{143}^{tSZ}	7.20	$5.5^{+4.3}_{-4.8}$	D_{220}	5727	5734^{+97}_{-98}	$\sigma_8(0.38)$	0.6867	$0.688^{+0.031}_{-0.030}$
A_{100}^{PS}	248	258^{+70}_{-70}	D_{810}	2540.1	2540^{+36}_{-34}	$f\sigma_8(0.51)$	0.4906	$0.492^{+0.028}_{-0.027}$
A_{143}^{PS}	47.6	46^{+20}_{-20}	D_{1420}	818.0	817^{+12}_{-12}	$\sigma_8(0.51)$	0.6427	$0.644^{+0.028}_{-0.028}$
$A_{143 \times 217}^{PS}$	48.4	43^{+20}_{-20}	D_{2000}	231.32	$231.0^{+4.0}_{-4.1}$	$f\sigma_8(0.61)$	0.4872	$0.489^{+0.028}_{-0.027}$
A_{217}^{PS}	120.1	116^{+30}_{-30}	$n_{s,0.002}$	0.9661	$0.964^{+0.011}_{-0.010}$	$\sigma_8(0.61)$	0.6115	$0.613^{+0.026}_{-0.026}$
A^{kSZ}	0.0	—	Y_P	0.245401	$0.24539^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	0.3090	$0.310^{+0.013}_{-0.014}$
A_{100}^{dustTT}	8.94	$8.9^{+4.8}_{-4.7}$	Y_P^{BBN}	0.246727	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(2.33)$	0.3155	$0.316^{+0.011}_{-0.011}$
A_{143}^{dustTT}	10.97	$10.8^{+4.6}_{-4.6}$	$10^5 D/H$	2.583	$2.587^{+0.072}_{-0.066}$	f_{2000}^{143}	28.5	29^{+7}_{-7}
$A_{143 \times 217}^{dustTT}$	19.8	$18.5^{+8.4}_{-8.6}$	Age/Gyr	13.731	$13.729^{+0.081}_{-0.073}$	$f_{2000}^{143 \times 217}$	31.77	32^{+5}_{-5}
A_{217}^{dustTT}	95.0	94^{+20}_{-20}	z_*	1089.92	$1089.96^{+0.69}_{-0.66}$	f_{2000}^{217}	106.41	$106.9^{+4.5}_{-4.6}$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.096}$	r_*	144.38	$144.34^{+0.72}_{-0.69}$	χ_{small}^2	396.04	$397.0 (\nu: 1.6)$
$A_{100 \times 143}^{dustTE}$	0.134	$0.134^{+0.075}_{-0.075}$	$100\theta_*$	1.04110	$1.04108^{+0.00075}_{-0.00077}$	χ_{lowl}^2	23.09	$23.43 (\nu: 0.4)$
$A_{100 \times 217}^{dustTE}$	0.481	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.868	$13.864^{+0.069}_{-0.065}$	χ_{plik}^2	2343.7	$2358.5 (\nu: 16.5)$
A_{143}^{dustTE}	0.223	$0.23^{+0.14}_{-0.14}$	z_{drag}	1059.97	$1059.95^{+0.74}_{-0.78}$	$\chi_{H073p45}^2$	5.3	$5.4 (\nu: 3.4)$
$A_{143 \times 217}^{dustTE}$	0.669	$0.67^{+0.21}_{-0.20}$	r_{drag}	147.03	$147.00^{+0.73}_{-0.70}$	χ_{JLA}^2	695.5	$698.2 (\nu: 3.3)$
A_{217}^{dustTE}	2.08	$2.08^{+0.68}_{-0.68}$	k_D	0.14094	$0.14096^{+0.00076}_{-0.00080}$	χ_{6DF}^2	0.133	$0.22 (\nu: 0.0)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160734	$0.16075^{+0.00046}_{-0.00044}$	χ_{MGS}^2	2.84	$3.02 (\nu: 0.3)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3407	3411^{+71}_{-73}	$\chi_{DR12BAO}^2$	4.68	$5.8 (\nu: 1.5)$
H_0	69.63	$69.7^{+2.4}_{-2.4}$	k_{eq}	0.010398	$0.01041^{+0.00022}_{-0.00022}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.2)$
Ω_Λ	0.7046	$0.705^{+0.021}_{-0.022}$	$100\theta_{eq}$	0.8125	$0.812^{+0.014}_{-0.013}$	χ_{BAO}^2	7.6	$9.0 (\nu: 3.4)$
Ω_m	0.2954	$0.295^{+0.022}_{-0.021}$	$100\theta_{s,eq}$	0.4490	$0.4485^{+0.0071}_{-0.0068}$	χ_{CMB}^2	2762.8	$2778.9 (\nu: 16.9)$

Best-fit $\chi_{eff}^2 = 3472.92$; $\bar{\chi}_{eff}^2 = 3502.96$; $R - 1 = 0.01220$
 χ_{eff}^2 : BAO - 6DF: 0.13 MGS: 2.84 DR12BAO: 4.67 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3_2_29: 23.09 plik_rd12_HM_v22b_TTTEEE: 2343.70 Hubble - H073p45: 5.30 SN - JLA December_2013: 695.47

19.14 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022394	$0.02239^{+0.00035}_{-0.00036}$	$\Omega_m h^3$	0.09957	$0.0997^{+0.0040}_{-0.0038}$	$H(0.38)$	83.84	$83.9^{+1.7}_{-1.7}$
$\Omega_c h^2$	0.11988	$0.1200^{+0.0027}_{-0.0029}$	σ_8	0.8326	$0.833^{+0.031}_{-0.029}$	$D_M(0.38)$	1498.2	1498^{+33}_{-33}
$100\theta_{MC}$	1.04096	$1.04093^{+0.00074}_{-0.00076}$	S_8	0.8249	$0.826^{+0.029}_{-0.030}$	$H(0.51)$	90.10	$90.1^{+1.4}_{-1.4}$
τ	0.0531	$0.053^{+0.020}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4518	$0.452^{+0.016}_{-0.016}$	$D_M(0.51)$	1946.8	1946^{+40}_{-39}
w_0	-1.012	$-1.01^{+0.24}_{-0.24}$	$\sigma_8 \Omega_m^{0.25}$	0.6133	$0.614^{+0.019}_{-0.019}$	$H(0.61)$	95.41	$95.4^{+1.1}_{-1.2}$
w_a	-0.24	$-0.28^{+0.79}_{-0.93}$	$\sigma_8/h^{0.5}$	0.9975	$0.998^{+0.027}_{-0.027}$	$D_M(0.61)$	2270.2	2270^{+43}_{-41}
$\ln(10^{10} A_s)$	3.0418	$3.041^{+0.039}_{-0.038}$	$r_{drag} h$	102.48	$102.5^{+3.5}_{-3.6}$	$H(2.33)$	234.72	$234.7^{+2.5}_{-2.3}$
n_s	0.9663	$0.9651^{+0.0098}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.459^{+0.059}_{-0.062}$	$D_M(2.33)$	5748.7	5750^{+27}_{-26}
y_{cal}	1.0004	$1.0005^{+0.0063}_{-0.0064}$	z_{re}	7.53	$7.5^{+2.0}_{-2.1}$	$f\sigma_8(0.15)$	0.4606	$0.461^{+0.019}_{-0.018}$
α_{JLA}	0.1417	$0.142^{+0.017}_{-0.017}$	$10^9 A_s$	2.094	$2.092^{+0.084}_{-0.078}$	$\sigma_8(0.15)$	0.7709	$0.772^{+0.029}_{-0.028}$
β_{JLA}	3.106	$3.12^{+0.20}_{-0.21}$	$10^9 A_s e^{-2\tau}$	1.8834	$1.883^{+0.027}_{-0.026}$	$f\sigma_8(0.38)$	0.4865	$0.487^{+0.023}_{-0.022}$
A_{217}^{CIB}	46.0	47^{+20}_{-20}	D_{40}	1227.1	1230^{+29}_{-29}	$\sigma_8(0.38)$	0.6845	$0.685^{+0.026}_{-0.024}$
$\xi^{tSZ \times CIB}$	0.63	—	D_{220}	5732	5734^{+94}_{-98}	$f\sigma_8(0.51)$	0.4882	$0.489^{+0.024}_{-0.022}$
A_{143}^{tSZ}	7.09	$5.5^{+4.3}_{-4.9}$	D_{810}	2540.5	2539^{+34}_{-33}	$\sigma_8(0.51)$	0.6407	$0.641^{+0.024}_{-0.023}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{1420}	818.2	817^{+12}_{-12}	$f\sigma_8(0.61)$	0.4849	$0.486^{+0.024}_{-0.023}$
A_{143}^{PS}	50.7	46^{+20}_{-20}	D_{2000}	231.31	$230.9^{+4.0}_{-3.8}$	$\sigma_8(0.61)$	0.6096	$0.610^{+0.023}_{-0.022}$
$A_{143 \times 217}^{PS}$	52.9	42^{+20}_{-20}	$n_{s,0.002}$	0.9663	$0.9651^{+0.0098}_{-0.010}$	$f\sigma_8(2.33)$	0.3081	$0.308^{+0.011}_{-0.011}$
A_{217}^{PS}	122.0	115^{+30}_{-30}	Y_P	0.245405	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(2.33)$	0.3148	$0.3148^{+0.0098}_{-0.0095}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.246731	$0.24673^{+0.00013}_{-0.00015}$	f_{2000}^{143}	28.8	29^{+7}_{-7}
A_{100}^{dustTT}	8.79	$8.9^{+4.9}_{-4.7}$	$10^5 D/H$	2.581	$2.583^{+0.068}_{-0.063}$	$f_{2000}^{143 \times 217}$	32.04	32^{+5}_{-5}
A_{143}^{dustTT}	11.02	$10.8^{+4.6}_{-4.5}$	Age/Gyr	13.730	$13.730^{+0.078}_{-0.071}$	f_{2000}^{217}	106.55	$106.9^{+4.5}_{-4.5}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.5^{+8.5}_{-9.0}$	z_*	1089.88	$1089.90^{+0.63}_{-0.60}$	$\chi^2_{lensing}$	8.77	$9.23 (\nu: 0.4)$
A_{217}^{dustTT}	95.6	94^{+20}_{-20}	r_*	144.44	$144.41^{+0.65}_{-0.61}$	χ^2_{small}	396	$216 (\nu: 19035.3)$
A_{100}^{dustTE}	0.114	$0.114^{+0.099}_{-0.096}$	$100\theta_*$	1.04113	$1.04111^{+0.00072}_{-0.00077}$	χ^2_{lowl}	23.02	$23.27 (\nu: 0.3)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.134^{+0.074}_{-0.074}$	$D_M(z_*)/Gpc$	13.874	$13.871^{+0.062}_{-0.058}$	χ^2_{plik}	2344.1	$2358.6 (\nu: 15.3)$
$A_{100 \times 217}^{dustTE}$	0.485	$0.48^{+0.22}_{-0.22}$	z_{drag}	1059.97	$1059.97^{+0.76}_{-0.77}$	$\chi^2_{H073p45}$	5	$186 (\nu: 19024.8)$
A_{143}^{dustTE}	0.226	$0.23^{+0.15}_{-0.13}$	r_{drag}	147.10	$147.06^{+0.66}_{-0.62}$	χ^2_{JLA}	695.5	$698.2 (\nu: 3.4)$
$A_{143 \times 217}^{dustTE}$	0.665	$0.66^{+0.21}_{-0.20}$	k_D	0.14088	$0.14091^{+0.00073}_{-0.00074}$	χ^2_{6DF}	0.150	$0.22 (\nu: 0.0)$
A_{217}^{dustTE}	2.09	$2.08^{+0.66}_{-0.68}$	$100\theta_D$	0.160734	$0.16074^{+0.00044}_{-0.00045}$	χ^2_{MGS}	2.92	$3.02 (\nu: 0.3)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3400	3404^{+63}_{-66}	$\chi^2_{DR12BAO}$	4.74	$5.7 (\nu: 1.5)$
c_{217}	0.99820	$0.9982^{+0.0016}_{-0.0017}$	k_{eq}	0.010377	$0.01039^{+0.00019}_{-0.00020}$	χ^2_{prior}	1.6	$11.5 (\nu: 10.1)$
H_0	69.67	$69.7^{+2.4}_{-2.4}$	$100\theta_{eq}$	0.8138	$0.813^{+0.012}_{-0.012}$	χ^2_{CMB}	2772	$2607 (\nu: 19062.9)$
Ω_Λ	0.7055	$0.705^{+0.021}_{-0.022}$	$100\theta_{s,eq}$	0.4496	$0.4493^{+0.0063}_{-0.0060}$	χ^2_{BAO}	7.8	$8.9 (\nu: 3.4)$
Ω_m	0.2945	$0.295^{+0.022}_{-0.021}$	$H(0.15)$	74.56	$74.6^{+1.9}_{-1.8}$			
$\Omega_m h^2$	0.14292	$0.1431^{+0.0026}_{-0.0027}$	$D_M(0.15)$	624.4	624^{+17}_{-17}			

Best-fit $\chi^2_{eff} = 3481.83$; $\bar{\chi}^2_{eff} = 3511.91$; $R - 1 = 0.02088$
 χ^2_{eff} : BAO - 6DF: 0.15 MGS: 2.92 DR12BAO: 4.74 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143_offlike5_EE_Aplanck_B: 395.84 commander_dx12_v3_2_29: 23.02 plik_rd12_HM_v22b_TTTEEE: 2344.12 Hubble - H073p45: 5.19 SN - JLA December_2013: 695.46

19.15 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02237^{+0.00037}_{-0.00038}$	$\Omega_{\mathrm{m}}h^2$	$0.1434^{+0.0030}_{-0.0031}$	$H(0.15)$	$74.6^{+1.9}_{-1.9}$
$\Omega_{\mathrm{c}}h^2$	$0.1203^{+0.0031}_{-0.0032}$	$\Omega_{\mathrm{m}}h^3$	$0.0999^{+0.0041}_{-0.0040}$	$D_{\mathrm{M}}(0.15)$	624^{+17}_{-17}
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00076}_{-0.00077}$	σ_8	$0.838^{+0.036}_{-0.035}$	$H(0.38)$	$83.9^{+1.7}_{-1.7}$
τ	$0.055^{+0.019}_{-0.013}$	S_8	$0.831^{+0.036}_{-0.038}$	$D_{\mathrm{M}}(0.38)$	1497^{+35}_{-34}
w_0	$-1.00^{+0.25}_{-0.24}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.020}_{-0.021}$	$H(0.51)$	$90.1^{+1.4}_{-1.4}$
w_a	$-0.33^{+0.83}_{-1.0}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.618^{+0.025}_{-0.025}$	$D_{\mathrm{M}}(0.51)$	1946^{+41}_{-39}
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.041}_{-0.030}$	$\sigma_8/h^{0.5}$	$1.004^{+0.036}_{-0.036}$	$H(0.61)$	$95.3^{+1.2}_{-1.2}$
n_{s}	$0.965^{+0.011}_{-0.010}$	$r_{\mathrm{drag}}h$	$102.5^{+3.6}_{-3.6}$	$D_{\mathrm{M}}(0.61)$	2269^{+43}_{-42}
α_{JLA}	$0.142^{+0.017}_{-0.017}$	$\langle d^2 \rangle^{1/2}$	$2.471^{+0.079}_{-0.081}$	$H(2.33)$	$234.8^{+2.5}_{-2.3}$
β_{JLA}	$3.11^{+0.21}_{-0.20}$	z_{re}	< 9.50	$D_{\mathrm{M}}(2.33)$	5751^{+28}_{-26}
y_{cal}	$1.0006^{+0.0064}_{-0.0062}$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.088}_{-0.062}$	$f\sigma_8(0.15)$	$0.464^{+0.022}_{-0.021}$
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.030}_{-0.028}$	$\sigma_8(0.15)$	$0.776^{+0.034}_{-0.033}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1232^{+30}_{-31}	$f\sigma_8(0.38)$	$0.490^{+0.027}_{-0.025}$
A_{143}^{tSZ}	$5.5^{+4.3}_{-4.8}$	D_{220}	5733^{+97}_{-98}	$\sigma_8(0.38)$	$0.689^{+0.030}_{-0.029}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2540^{+35}_{-34}	$f\sigma_8(0.51)$	$0.492^{+0.028}_{-0.027}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.51)$	$0.645^{+0.028}_{-0.027}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{2000}	$231.1^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	$0.489^{+0.028}_{-0.027}$
A_{217}^{PS}	116^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.010}$	$\sigma_8(0.61)$	$0.613^{+0.026}_{-0.026}$
A^{kSZ}	—	Y_{P}	$0.24539^{+0.00014}_{-0.00016}$	$f\sigma_8(2.33)$	$0.310^{+0.013}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.7}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24672^{+0.00014}_{-0.00016}$	$\sigma_8(2.33)$	$0.316^{+0.011}_{-0.011}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.6}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.586^{+0.071}_{-0.066}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.4}_{-8.6}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.729^{+0.081}_{-0.074}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.95^{+0.68}_{-0.65}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.5}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.099}_{-0.096}$	r_*	$144.34^{+0.73}_{-0.70}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.074}_{-0.075}$	$100\theta_*$	$1.04109^{+0.00075}_{-0.00076}$	χ_{lowl}^2	$23.44 (\nu: 0.4)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.865^{+0.069}_{-0.065}$	χ_{plik}^2	$2358.3 (\nu: 16.3)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.14}_{-0.14}$	z_{drag}	$1059.96^{+0.74}_{-0.79}$	$\chi_{\mathrm{H073p45}}^2$	$5.4 (\nu: 3.4)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.21}_{-0.20}$	r_{drag}	$147.00^{+0.72}_{-0.70}$	χ_{JLA}^2	$698.2 (\nu: 3.4)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.67}_{-0.68}$	k_{D}	$0.14096^{+0.00076}_{-0.00080}$	$\chi_{6\mathrm{DF}}^2$	$0.22 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16075^{+0.00046}_{-0.00044}$	χ_{MGS}^2	$3.02 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3411^{+71}_{-73}	$\chi_{\mathrm{DR12BAO}}^2$	$5.8 (\nu: 1.5)$
H_0	$69.7^{+2.4}_{-2.4}$	k_{eq}	$0.01041^{+0.00022}_{-0.00022}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_{Λ}	$0.705^{+0.021}_{-0.022}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.014}_{-0.013}$	χ_{BAO}^2	$9.0 (\nu: 3.4)$
Ω_{m}	$0.295^{+0.022}_{-0.021}$	$100\theta_{\mathrm{s,eq}}$	$0.4486^{+0.0071}_{-0.0066}$	χ_{CMB}^2	$2778.6 (\nu: 16.5)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 3502.71; R - 1 = 0.01370$$

19.16 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_JLA_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00035}_{-0.00036}$	$\Omega_{\mathrm{m}}h^3$	$0.0997^{+0.0041}_{-0.0038}$	$H(0.38)$	$83.8^{+1.7}_{-1.7}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0027}_{-0.0029}$	σ_8	$0.834^{+0.031}_{-0.029}$	$D_{\mathrm{M}}(0.38)$	1498^{+34}_{-33}
$100\theta_{\mathrm{MC}}$	$1.04094^{+0.00074}_{-0.00076}$	S_8	$0.826^{+0.029}_{-0.030}$	$H(0.51)$	$90.1^{+1.3}_{-1.4}$
τ	$0.054^{+0.017}_{-0.012}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.51)$	1946^{+40}_{-39}
w_0	$-1.01^{+0.23}_{-0.24}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.018}_{-0.019}$	$H(0.61)$	$95.4^{+1.1}_{-1.2}$
w_a	$-0.27^{+0.79}_{-0.91}$	$\sigma_8/h^{0.5}$	$0.999^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.61)$	2270^{+43}_{-40}
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.037}_{-0.026}$	$r_{\mathrm{drag}}h$	$102.5^{+3.6}_{-3.7}$	$H(2.33)$	$234.7^{+2.6}_{-2.3}$
n_{s}	$0.9653^{+0.0097}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.460^{+0.058}_{-0.060}$	$D_{\mathrm{M}}(2.33)$	5750^{+28}_{-25}
y_{cal}	$1.0005^{+0.0063}_{-0.0062}$	z_{re}	< 9.24	$f\sigma_8(0.15)$	$0.461^{+0.019}_{-0.018}$
α_{JLA}	$0.142^{+0.017}_{-0.017}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.080}_{-0.055}$	$\sigma_8(0.15)$	$0.772^{+0.029}_{-0.027}$
β_{JLA}	$3.12^{+0.21}_{-0.21}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.027}_{-0.026}$	$f\sigma_8(0.38)$	$0.487^{+0.023}_{-0.022}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{40}	1229^{+29}_{-29}	$\sigma_8(0.38)$	$0.685^{+0.026}_{-0.024}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{220}	5733^{+94}_{-97}	$f\sigma_8(0.51)$	$0.489^{+0.024}_{-0.022}$
A_{143}^{tSZ}	$5.5^{+4.2}_{-4.9}$	D_{810}	2539^{+34}_{-33}	$\sigma_8(0.51)$	$0.642^{+0.024}_{-0.022}$
A_{100}^{PS}	259^{+70}_{-70}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.61)$	$0.486^{+0.024}_{-0.023}$
A_{143}^{PS}	46^{+20}_{-20}	D_{2000}	$231.0^{+4.0}_{-3.8}$	$\sigma_8(0.61)$	$0.610^{+0.023}_{-0.021}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.9653^{+0.0097}_{-0.010}$	$f\sigma_8(2.33)$	$0.308^{+0.011}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(2.33)$	$0.3150^{+0.0096}_{-0.0088}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00013}_{-0.00015}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.6}$	$10^5\mathrm{D}/\mathrm{H}$	$2.582^{+0.067}_{-0.063}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.6}_{-4.5}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.730^{+0.079}_{-0.071}$	f_{2000}^{217}	$106.8^{+4.4}_{-4.5}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.5^{+8.5}_{-9.0}$	z_*	$1089.89^{+0.60}_{-0.59}$	$\chi_{\mathrm{lensing}}^2$	$9.24 (\nu: 0.4)$
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	r_*	$144.43^{+0.64}_{-0.60}$	χ_{simall}^2	$218 (\nu: 19002.6)$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.099}_{-0.096}$	$100\theta_*$	$1.04112^{+0.00072}_{-0.00075}$	χ_{lowl}^2	$23.26 (\nu: 0.3)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.073}_{-0.074}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.872^{+0.062}_{-0.056}$	χ_{plik}^2	$2358.4 (\nu: 15.3)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	z_{drag}	$1059.98^{+0.75}_{-0.77}$	$\chi_{\mathrm{H073p45}}^2$	$184 (\nu: 18991.4)$
$A_{143}^{\mathrm{dust}TE}$	$0.23^{+0.15}_{-0.13}$	r_{drag}	$147.08^{+0.66}_{-0.60}$	χ_{JLA}^2	$698.2 (\nu: 3.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	k_{D}	$0.14089^{+0.00071}_{-0.00074}$	$\chi_{6\mathrm{DF}}^2$	$0.22 (\nu: 0.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.66}_{-0.67}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00044}_{-0.00045}$	χ_{MGS}^2	$3.02 (\nu: 0.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	z_{eq}	3402^{+61}_{-66}	$\chi_{\mathrm{DR12BAO}}^2$	$5.7 (\nu: 1.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{eq}	$0.01038^{+0.00019}_{-0.00020}$	χ_{prior}^2	$11.5 (\nu: 9.9)$
H_0	$69.7^{+2.4}_{-2.4}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.012}_{-0.011}$	χ_{CMB}^2	$2609 (\nu: 19039.6)$
Ω_{Λ}	$0.705^{+0.021}_{-0.022}$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0063}_{-0.0058}$	χ_{BAO}^2	$8.9 (\nu: 3.5)$
Ω_{m}	$0.295^{+0.022}_{-0.021}$	$H(0.15)$	$74.6^{+1.9}_{-1.8}$		
$\Omega_{\mathrm{m}}h^2$	$0.1430^{+0.0026}_{-0.0028}$	$D_{\mathrm{M}}(0.15)$	624^{+17}_{-17}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3511.63; R - 1 = 0.02239$$

19.17 base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02215	$0.02212^{+0.00057}_{-0.00053}$	$\sigma_8 \Omega_m^{0.25}$	0.6137	$0.615^{+0.034}_{-0.034}$	$H(0.38)$	83.41	$83.4^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.12027	$0.1206^{+0.0048}_{-0.0045}$	$\sigma_8/h^{0.5}$	0.9978	$0.999^{+0.049}_{-0.049}$	$D_M(0.38)$	1516.3	1516^{+34}_{-34}
$100\theta_{MC}$	1.04082	$1.0408^{+0.0012}_{-0.0012}$	$r_{drag}h$	100.49	$100.3^{+3.3}_{-3.0}$	$H(0.51)$	89.88	$89.9^{+1.3}_{-1.3}$
τ	0.0526	$0.052^{+0.021}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.460	$2.47^{+0.11}_{-0.11}$	$D_M(0.51)$	1966.6	1966^{+41}_{-40}
w_0	-0.971	$-0.95^{+0.22}_{-0.20}$	z_{re}	7.55	$7.5^{+2.1}_{-2.4}$	$H(0.61)$	95.31	$95.3^{+1.2}_{-1.1}$
w_a	-0.27	$-0.36^{+0.79}_{-1.1}$	$10^9 A_s$	2.092	$2.091^{+0.093}_{-0.090}$	$D_M(0.61)$	2290.6	2290^{+43}_{-42}
$\ln(10^{10} A_s)$	3.0406	$3.040^{+0.044}_{-0.044}$	$10^9 A_s e^{-2\tau}$	1.8828	$1.884^{+0.035}_{-0.034}$	$H(2.33)$	235.10	$235.1^{+2.5}_{-2.5}$
n_s	0.9646	$0.963^{+0.013}_{-0.013}$	D_{40}	1228.3	1232^{+38}_{-36}	$D_M(2.33)$	5763.8	5766^{+32}_{-33}
y_{cal}	1.0003	$1.0005^{+0.0066}_{-0.0065}$	D_{220}	5710	5713^{+110}_{-110}	$f\sigma_8(0.15)$	0.4618	$0.462^{+0.029}_{-0.027}$
A_{217}^{CIB}	48.9	48^{+20}_{-20}	D_{810}	2536.9	2536^{+37}_{-36}	$\sigma_8(0.15)$	0.7621	$0.763^{+0.042}_{-0.041}$
$\xi^{tSZ \times CIB}$	0.31	—	D_{1420}	815.3	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4832	$0.484^{+0.034}_{-0.031}$
A_{143}^{tSZ}	7.1	—	D_{2000}	230.01	$229.6^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	0.6759	$0.676^{+0.036}_{-0.036}$
A_{100}^{PS}	254	263^{+70}_{-70}	$n_{s,0.002}$	0.9646	$0.963^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	0.4834	$0.484^{+0.036}_{-0.033}$
A_{143}^{PS}	49.0	49^{+20}_{-20}	Y_P	0.245306	$0.24529^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	0.6325	$0.633^{+0.033}_{-0.034}$
$A_{143 \times 217}^{PS}$	46.5	43^{+20}_{-20}	Y_P^{BBN}	0.246632	$0.24661^{+0.00022}_{-0.00025}$	$f\sigma_8(0.61)$	0.4793	$0.480^{+0.037}_{-0.033}$
A_{217}^{PS}	119.0	115^{+30}_{-30}	$10^5 D/H$	2.627	$2.63^{+0.10}_{-0.10}$	$\sigma_8(0.61)$	0.6018	$0.602^{+0.031}_{-0.032}$
A^{kSZ}	0.0	—	Age/Gyr	13.778	$13.779^{+0.093}_{-0.088}$	$f\sigma_8(2.33)$	0.3040	$0.304^{+0.015}_{-0.017}$
A_{100}^{dustTT}	8.86	$9.0^{+4.7}_{-4.7}$	z_*	1090.22	$1090.29^{+0.96}_{-0.93}$	$\sigma_8(2.33)$	0.3110	$0.311^{+0.012}_{-0.013}$
A_{143}^{dustTT}	10.85	$10.7^{+4.6}_{-4.6}$	r_*	144.53	$144.5^{+1.1}_{-1.1}$	f_{2000}^{143}	30.3	31^{+8}_{-7}
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.3}_{-8.5}$	$100\theta_*$	1.04103	$1.0410^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.2	34^{+5}_{-5}
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.883	$13.88^{+0.10}_{-0.10}$	f_{2000}^{217}	107.61	$108.1^{+5.0}_{-4.8}$
c_{100}	0.99966	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.1}$	χ_{simall}^2	395.87	$396.9 (\nu: 1.3)$
c_{217}	0.99825	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.26	$147.2^{+1.2}_{-1.1}$	χ_{lowl}^2	23.28	$23.7 (\nu: 0.6)$
H_0	68.24	$68.1^{+2.2}_{-2.1}$	k_D	0.14052	$0.1405^{+0.0013}_{-0.0013}$	χ_{plik}^2	758.4	$770.8 (\nu: 14.6)$
Ω_Λ	0.6928	$0.691^{+0.021}_{-0.021}$	$100\theta_D$	0.16104	$0.16107^{+0.00069}_{-0.00070}$	χ_{JLA}^2	1034.78	$1035.9 (\nu: 1.1)$
Ω_m	0.3072	$0.309^{+0.021}_{-0.021}$	z_{eq}	3404	3410^{+110}_{-100}	χ_{6DF}^2	0.001	$0.052 (\nu: 0.0)$
$\Omega_m h^2$	0.14307	$0.1433^{+0.0045}_{-0.0043}$	k_{eq}	0.010388	$0.01041^{+0.00033}_{-0.00032}$	χ_{MGS}^2	1.82	$1.87 (\nu: 0.2)$
$\Omega_m h^3$	0.09763	$0.0977^{+0.0046}_{-0.0043}$	$100\theta_{eq}$	0.8124	$0.811^{+0.020}_{-0.020}$	$\chi_{DR12BAO}^2$	4.04	$5.0 (\nu: 0.9)$
σ_8	0.8243	$0.825^{+0.045}_{-0.044}$	$100\theta_{s,eq}$	0.4491	$0.449^{+0.010}_{-0.010}$	χ_{prior}^2	1.4	$7.3 (\nu: 6.8)$
S_8	0.834	$0.837^{+0.052}_{-0.052}$	$H(0.15)$	73.60	$73.6^{+1.9}_{-1.8}$	χ_{BAO}^2	5.86	$6.9 (\nu: 1.1)$
$\sigma_8 \Omega_m^{0.5}$	0.4569	$0.458^{+0.029}_{-0.028}$	$D_M(0.15)$	634.9	635^{+17}_{-17}	χ_{CMB}^2	1177.5	$1191.3 (\nu: 15.0)$

Best-fit $\chi_{eff}^2 = 2219.53$; $\bar{\chi}_{eff}^2 = 2241.47$; $R - 1 = 0.00718$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 4.04 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.87 commander_dx12_v3.2.29: 23.29 plik_rd12_HM_v22.TT: 758.36
SN - JLA Pantheon18: 1034.78

19.18 base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02215^{+0.00055}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6096	$0.611^{+0.022}_{-0.023}$	$H(0.38)$	83.40	$83.4^{+1.7}_{-1.5}$
$\Omega_c h^2$	0.11971	$0.1200^{+0.0035}_{-0.0034}$	$\sigma_8/h^{0.5}$	0.9921	$0.994^{+0.031}_{-0.032}$	$D_M(0.38)$	1517.3	1517^{+33}_{-34}
$100\theta_{MC}$	1.04081	$1.0408^{+0.0011}_{-0.0011}$	$r_{drag}h$	100.49	$100.4^{+3.3}_{-3.0}$	$H(0.51)$	89.90	$89.9^{+1.3}_{-1.3}$
τ	0.0528	$0.052^{+0.021}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.449	$2.455^{+0.068}_{-0.071}$	$D_M(0.51)$	1967.5	1967^{+39}_{-40}
w_0	-0.974	$-0.96^{+0.21}_{-0.19}$	z_{re}	7.55	$7.4^{+2.1}_{-2.4}$	$H(0.61)$	95.36	$95.3^{+1.2}_{-1.1}$
w_a	-0.22	$-0.29^{+0.70}_{-0.90}$	$10^9 A_s$	2.090	$2.087^{+0.082}_{-0.081}$	$D_M(0.61)$	2291.4	2291^{+42}_{-43}
$\ln(10^{10} A_s)$	3.0397	$3.038^{+0.039}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.8804	$1.882^{+0.028}_{-0.028}$	$H(2.33)$	235.02	$235.0^{+2.5}_{-2.5}$
n_s	0.9653	$0.964^{+0.011}_{-0.012}$	D_{40}	1226.7	1230^{+32}_{-31}	$D_M(2.33)$	5762.9	5765^{+32}_{-33}
y_{cal}	1.0003	$1.0004^{+0.0065}_{-0.0064}$	D_{220}	5715	5716^{+100}_{-110}	$f\sigma_8(0.15)$	0.4584	$0.459^{+0.020}_{-0.020}$
A_{217}^{CIB}	49.0	48^{+20}_{-20}	D_{810}	2536.1	2535^{+35}_{-35}	$\sigma_8(0.15)$	0.7576	$0.759^{+0.030}_{-0.030}$
$\xi^{tSZ \times CIB}$	0.26	—	D_{1420}	815.3	814^{+13}_{-13}	$f\sigma_8(0.38)$	0.4794	$0.481^{+0.023}_{-0.024}$
A_{143}^{tSZ}	7.1	—	D_{2000}	229.98	$229.6^{+4.4}_{-4.5}$	$\sigma_8(0.38)$	0.6720	$0.673^{+0.026}_{-0.026}$
A_{100}^{PS}	255	264^{+70}_{-70}	$n_{s,0.002}$	0.9653	$0.964^{+0.011}_{-0.012}$	$f\sigma_8(0.51)$	0.4795	$0.481^{+0.024}_{-0.024}$
A_{143}^{PS}	48.4	49^{+20}_{-20}	Y_P	0.245320	$0.24530^{+0.00022}_{-0.00024}$	$\sigma_8(0.51)$	0.6290	$0.630^{+0.024}_{-0.024}$
$A_{143 \times 217}^{PS}$	45.2	43^{+20}_{-20}	Y_P^{BBN}	0.246647	$0.24663^{+0.00022}_{-0.00024}$	$f\sigma_8(0.61)$	0.4754	$0.477^{+0.025}_{-0.025}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	$10^5 D/H$	2.620	$2.628^{+0.098}_{-0.10}$	$\sigma_8(0.61)$	0.5985	$0.599^{+0.023}_{-0.023}$
A^{kSZ}	0.0	—	Age/Gyr	13.781	$13.781^{+0.087}_{-0.091}$	$f\sigma_8(2.33)$	0.3023	$0.303^{+0.012}_{-0.012}$
A_{100}^{dustTT}	8.91	$9.0^{+4.6}_{-4.8}$	z_*	1090.13	$1090.21^{+0.83}_{-0.83}$	$\sigma_8(2.33)$	0.3098	$0.3098^{+0.0094}_{-0.0094}$
A_{143}^{dustTT}	10.82	$10.8^{+4.4}_{-4.6}$	r_*	144.65	$144.59^{+0.87}_{-0.86}$	$\chi^2_{lensing}$	8.72	$9.40 (\nu: 0.5)$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.0}_{-8.6}$	$100\theta_*$	1.04102	$1.0410^{+0.0011}_{-0.0011}$	χ^2_{small}	395.86	$396.8 (\nu: 1.1)$
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.895	$13.889^{+0.082}_{-0.082}$	χ^2_{lowl}	23.14	$23.48 (\nu: 0.4)$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0017}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.1}$	χ^2_{plik}	758.7	$770.7 (\nu: 13.9)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.37	$147.33^{+0.92}_{-0.90}$	χ^2_{JLA}	1034.79	$1035.9 (\nu: 1.1)$
H_0	68.19	$68.1^{+2.2}_{-2.1}$	k_D	0.14043	$0.1404^{+0.0012}_{-0.0012}$	χ^2_{6DF}	0.001	$0.053 (\nu: 0.0)$
Ω_Λ	0.6934	$0.692^{+0.020}_{-0.021}$	$100\theta_D$	0.16101	$0.16105^{+0.00069}_{-0.00071}$	χ^2_{MGS}	1.82	$1.89 (\nu: 0.2)$
Ω_m	0.3066	$0.308^{+0.021}_{-0.020}$	z_{eq}	3391	3398^{+80}_{-77}	$\chi^2_{DR12BAO}$	3.86	$4.8 (\nu: 0.8)$
$\Omega_m h^2$	0.14254	$0.1428^{+0.0033}_{-0.0032}$	k_{eq}	0.010350	$0.01037^{+0.00024}_{-0.00024}$	χ^2_{prior}	1.5	$7.3 (\nu: 6.8)$
$\Omega_m h^3$	0.09720	$0.0973^{+0.0039}_{-0.0038}$	$100\theta_{eq}$	0.8147	$0.813^{+0.015}_{-0.014}$	χ^2_{CMB}	1186.4	$1200.4 (\nu: 15.5)$
σ_8	0.8193	$0.821^{+0.031}_{-0.032}$	$100\theta_{s,eq}$	0.4503	$0.4496^{+0.0075}_{-0.0074}$	χ^2_{BAO}	5.68	$6.7 (\nu: 1.1)$
S_8	0.8282	$0.831^{+0.034}_{-0.034}$	$H(0.15)$	73.54	$73.6^{+1.9}_{-1.7}$			
$\sigma_8 \Omega_m^{0.5}$	0.4536	$0.455^{+0.019}_{-0.019}$	$D_M(0.15)$	635.4	635^{+17}_{-17}			

Best-fit $\chi^2_{eff} = 2228.36$; $\bar{\chi}^2_{eff} = 2250.30$; $R - 1 = 0.00973$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.86 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.72 small_100x143.offlike5_EE_Aplanck_B: 395.86 commander_dx12.v3.2.29: 23.14 plik_rd12_HM.v22_TT: 758.71 SN - JLA Pantheon18: 1034.79

19.19 base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}} h^2$	$0.02213^{+0.00056}_{-0.00053}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	$0.615^{+0.034}_{-0.033}$	$H(0.38)$	$83.4^{+1.6}_{-1.6}$
$\Omega_{\text{c}} h^2$	$0.1205^{+0.0047}_{-0.0045}$	$\sigma_8/h^{0.5}$	$1.000^{+0.048}_{-0.047}$	$D_{\text{M}}(0.38)$	1516^{+34}_{-34}
$100\theta_{\text{MC}}$	$1.0408^{+0.0012}_{-0.0011}$	$r_{\text{drag}} h$	$100.3^{+3.3}_{-3.0}$	$H(0.51)$	$89.9^{+1.3}_{-1.3}$
τ	$0.054^{+0.018}_{-0.012}$	$\langle d^2 \rangle^{1/2}$	$2.47^{+0.10}_{-0.10}$	$D_{\text{M}}(0.51)$	1967^{+40}_{-40}
w_0	$-0.95^{+0.22}_{-0.20}$	z_{re}	< 9.35	$H(0.61)$	$95.3^{+1.2}_{-1.1}$
w_a	$-0.35^{+0.78}_{-1.0}$	$10^9 A_{\text{s}}$	$2.097^{+0.088}_{-0.061}$	$D_{\text{M}}(0.61)$	2291^{+43}_{-42}
$\ln(10^{10} A_{\text{s}})$	$3.043^{+0.041}_{-0.030}$	$10^9 A_{\text{s}} e^{-2\tau}$	$1.884^{+0.034}_{-0.033}$	$H(2.33)$	$235.1^{+2.5}_{-2.5}$
n_{s}	$0.963^{+0.012}_{-0.013}$	D_{40}	1232^{+38}_{-36}	$D_{\text{M}}(2.33)$	5766^{+32}_{-33}
y_{cal}	$1.0005^{+0.0066}_{-0.0065}$	D_{220}	5713^{+110}_{-110}	$f\sigma_8(0.15)$	$0.463^{+0.028}_{-0.027}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2536^{+36}_{-36}	$\sigma_8(0.15)$	$0.763^{+0.041}_{-0.040}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{1420}	814^{+13}_{-13}	$f\sigma_8(0.38)$	$0.484^{+0.034}_{-0.031}$
A_{143}^{tSZ}	—	D_{2000}	$229.7^{+4.6}_{-4.5}$	$\sigma_8(0.38)$	$0.677^{+0.036}_{-0.036}$
A_{100}^{PS}	263^{+70}_{-70}	$n_{\text{s},0.002}$	$0.963^{+0.012}_{-0.013}$	$f\sigma_8(0.51)$	$0.485^{+0.036}_{-0.033}$
A_{143}^{PS}	49^{+20}_{-20}	Y_{P}	$0.24529^{+0.00022}_{-0.00025}$	$\sigma_8(0.51)$	$0.633^{+0.033}_{-0.033}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.24662^{+0.00022}_{-0.00026}$	$f\sigma_8(0.61)$	$0.481^{+0.036}_{-0.033}$
A_{217}^{PS}	115^{+30}_{-30}	$10^5 \text{D}/\text{H}$	$2.63^{+0.10}_{-0.10}$	$\sigma_8(0.61)$	$0.603^{+0.030}_{-0.031}$
A^{kSZ}	—	Age/Gyr	$13.779^{+0.093}_{-0.088}$	$f\sigma_8(2.33)$	$0.304^{+0.015}_{-0.017}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	z_*	$1090.27^{+0.95}_{-0.93}$	$\sigma_8(2.33)$	$0.311^{+0.012}_{-0.012}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.6}$	r_*	$144.5^{+1.1}_{-1.1}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.3}_{-8.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
A_{217}^{dustTT}	93^{+20}_{-20}	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.88^{+0.10}_{-0.10}$	f_{2000}^{217}	$108.0^{+5.0}_{-4.8}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	$1059.4^{+1.2}_{-1.2}$	χ_{simall}^2	$396.8 (\nu: 1.3)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	$147.2^{+1.1}_{-1.1}$	χ_{lowl}^2	$23.7 (\nu: 0.6)$
H_0	$68.1^{+2.3}_{-2.1}$	k_{D}	$0.1405^{+0.0013}_{-0.0013}$	χ_{plik}^2	$770.6 (\nu: 14.5)$
Ω_{Λ}	$0.691^{+0.021}_{-0.021}$	$100\theta_{\text{D}}$	$0.16107^{+0.00069}_{-0.00070}$	χ_{JLA}^2	$1035.9 (\nu: 1.2)$
Ω_{m}	$0.309^{+0.021}_{-0.021}$	z_{eq}	3408^{+110}_{-100}	$\chi_{6\text{DF}}^2$	$0.053 (\nu: 0.0)$
$\Omega_{\text{m}} h^2$	$0.1433^{+0.0045}_{-0.0043}$	k_{eq}	$0.01040^{+0.00033}_{-0.00031}$	χ_{MGS}^2	$1.86 (\nu: 0.2)$
$\Omega_{\text{m}} h^3$	$0.0976^{+0.0045}_{-0.0043}$	$100\theta_{\text{eq}}$	$0.812^{+0.019}_{-0.019}$	χ_{DR12BAO}^2	$5.0 (\nu: 0.9)$
σ_8	$0.826^{+0.045}_{-0.044}$	$100\theta_{\text{s,eq}}$	$0.4487^{+0.0099}_{-0.010}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.838^{+0.052}_{-0.050}$	$H(0.15)$	$73.6^{+1.9}_{-1.8}$	χ_{BAO}^2	$6.9 (\nu: 1.1)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	$0.459^{+0.028}_{-0.027}$	$D_{\text{M}}(0.15)$	635^{+17}_{-17}	χ_{CMB}^2	$1191.0 (\nu: 14.5)$

$$\bar{\chi}_{\text{eff}}^2 = 2241.17; R - 1 = 0.00784$$

19.20 base_w_wa_plikHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02216^{+0.00055}_{-0.00051}$	$\sigma_8/h^{0.5}$	$0.994^{+0.031}_{-0.032}$	$H(0.51)$	$89.9^{+1.3}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0034}_{-0.0033}$	$r_{\mathrm{drag}}h$	$100.4^{+3.3}_{-3.1}$	$D_{\mathrm{M}}(0.51)$	1967^{+40}_{-41}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.456^{+0.068}_{-0.071}$	$H(0.61)$	$95.3^{+1.2}_{-1.1}$
τ	$0.053^{+0.018}_{-0.012}$	z_{re}	< 9.25	$D_{\mathrm{M}}(0.61)$	2291^{+42}_{-43}
w_0	$-0.96^{+0.21}_{-0.20}$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.077}_{-0.056}$	$H(2.33)$	$235.0^{+2.6}_{-2.6}$
w_a	$-0.28^{+0.69}_{-0.89}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.028}_{-0.028}$	$D_{\mathrm{M}}(2.33)$	5764^{+33}_{-34}
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.036}_{-0.027}$	D_{40}	1230^{+32}_{-31}	$f\sigma_8(0.15)$	$0.459^{+0.020}_{-0.020}$
n_{s}	$0.964^{+0.011}_{-0.011}$	D_{220}	5716^{+100}_{-110}	$\sigma_8(0.15)$	$0.759^{+0.030}_{-0.030}$
y_{cal}	$1.0004^{+0.0066}_{-0.0064}$	D_{810}	2535^{+35}_{-34}	$f\sigma_8(0.38)$	$0.480^{+0.023}_{-0.024}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	814^{+13}_{-13}	$\sigma_8(0.38)$	$0.673^{+0.026}_{-0.027}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.7^{+4.4}_{-4.4}$	$f\sigma_8(0.51)$	$0.481^{+0.024}_{-0.024}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.630^{+0.024}_{-0.025}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24530^{+0.00022}_{-0.00024}$	$f\sigma_8(0.61)$	$0.477^{+0.025}_{-0.024}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00022}_{-0.00024}$	$\sigma_8(0.61)$	$0.599^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.626^{+0.098}_{-0.10}$	$f\sigma_8(2.33)$	$0.303^{+0.012}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.781^{+0.089}_{-0.091}$	$\sigma_8(2.33)$	$0.3100^{+0.0094}_{-0.0093}$
A^{kSZ}	—	z_*	$1090.18^{+0.82}_{-0.81}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.8}$	r_*	$144.62^{+0.84}_{-0.83}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.5}_{-4.7}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$108.1^{+5.0}_{-5.0}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+7.9}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.892^{+0.081}_{-0.079}$	$\chi_{\mathrm{lensing}}^2$	$9.39 (\nu: 0.5)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.1}$	χ_{simall}^2	$396.7 (\nu: 1.0)$
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	r_{drag}	$147.35^{+0.90}_{-0.89}$	χ_{lowl}^2	$23.44 (\nu: 0.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	$0.1404^{+0.0012}_{-0.0011}$	χ_{plik}^2	$770.6 (\nu: 14.1)$
H_0	$68.1^{+2.3}_{-2.1}$	$100\theta_{\mathrm{D}}$	$0.16105^{+0.00069}_{-0.00071}$	χ_{JLA}^2	$1035.9 (\nu: 1.2)$
Ω_{Λ}	$0.692^{+0.021}_{-0.021}$	z_{eq}	3395^{+78}_{-75}	$\chi_{6\mathrm{DF}}^2$	$0.053 (\nu: 0.0)$
Ω_{m}	$0.308^{+0.021}_{-0.021}$	k_{eq}	$0.01036^{+0.00024}_{-0.00023}$	χ_{MGS}^2	$1.88 (\nu: 0.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0033}_{-0.0031}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.014}_{-0.014}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 0.8)$
$\Omega_{\mathrm{m}}h^3$	$0.0972^{+0.0037}_{-0.0037}$	$100\theta_{\mathrm{s,eq}}$	$0.4499^{+0.0073}_{-0.0073}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
σ_8	$0.821^{+0.032}_{-0.032}$	$H(0.15)$	$73.6^{+1.9}_{-1.7}$	χ_{CMB}^2	$1200.1 (\nu: 15.3)$
S_8	$0.831^{+0.034}_{-0.034}$	$D_{\mathrm{M}}(0.15)$	636^{+17}_{-17}	χ_{BAO}^2	$6.7 (\nu: 1.1)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.019}_{-0.019}$	$H(0.38)$	$83.4^{+1.7}_{-1.5}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.022}_{-0.023}$	$D_{\mathrm{M}}(0.38)$	1517^{+34}_{-34}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2250.01; R - 1 = 0.01194$$

19.21 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022366	$0.02236^{+0.00036}_{-0.00036}$	$\Omega_m h^3$	0.09770	$0.0978^{+0.0037}_{-0.0037}$	$H(0.15)$	73.70	$73.8^{+1.9}_{-1.8}$
$\Omega_c h^2$	0.12004	$0.1202^{+0.0033}_{-0.0032}$	σ_8	0.8226	$0.823^{+0.035}_{-0.036}$	$D_M(0.15)$	634.2	634^{+17}_{-17}
$100\theta_{MC}$	1.04088	$1.04090^{+0.00076}_{-0.00077}$	S_8	0.8318	$0.833^{+0.037}_{-0.038}$	$H(0.38)$	83.57	$83.7^{+1.6}_{-1.6}$
τ	0.0544	$0.054^{+0.020}_{-0.020}$	$\sigma_8 \Omega_m^{0.5}$	0.4556	$0.456^{+0.020}_{-0.021}$	$D_M(0.38)$	1514.1	1512^{+33}_{-35}
w_0	-0.967	$-0.95^{+0.23}_{-0.21}$	$\sigma_8 \Omega_m^{0.25}$	0.6122	$0.613^{+0.025}_{-0.026}$	$H(0.51)$	90.07	$90.1^{+1.3}_{-1.3}$
w_a	-0.25	$-0.33^{+0.75}_{-0.97}$	$\sigma_8/h^{0.5}$	0.9954	$0.996^{+0.036}_{-0.038}$	$D_M(0.51)$	1963.5	1961^{+40}_{-41}
$\ln(10^{10} A_s)$	3.0448	$3.044^{+0.041}_{-0.041}$	$r_{drag} h$	100.45	$100.4^{+3.1}_{-3.1}$	$H(0.61)$	95.52	$95.5^{+1.1}_{-1.0}$
n_s	0.9661	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	2.456	$2.461^{+0.081}_{-0.086}$	$D_M(0.61)$	2286.8	2285^{+42}_{-43}
y_{cal}	1.0006	$1.0005^{+0.0062}_{-0.0063}$	z_{re}	7.68	$7.6^{+1.9}_{-2.2}$	$H(2.33)$	235.30	$235.3^{+2.4}_{-2.3}$
A_{217}^{CIB}	46.9	47^{+20}_{-20}	$10^9 A_s$	2.101	$2.099^{+0.087}_{-0.085}$	$D_M(2.33)$	5754.1	5754^{+27}_{-24}
$\xi^{tSZ \times CIB}$	0.46	—	$10^9 A_s e^{-2\tau}$	1.8840	$1.884^{+0.028}_{-0.030}$	$f\sigma_8(0.15)$	0.4601	$0.460^{+0.021}_{-0.021}$
A_{143}^{tSZ}	7.23	$5.5^{+4.5}_{-4.6}$	D_{40}	1228.1	1231^{+32}_{-32}	$\sigma_8(0.15)$	0.7607	$0.761^{+0.033}_{-0.034}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5729	5733^{+96}_{-100}	$f\sigma_8(0.38)$	0.4813	$0.482^{+0.025}_{-0.025}$
A_{143}^{PS}	47.8	46^{+20}_{-20}	D_{810}	2540.6	2539^{+33}_{-35}	$\sigma_8(0.38)$	0.6748	$0.675^{+0.029}_{-0.030}$
$A_{143 \times 217}^{PS}$	48.3	42^{+20}_{-20}	D_{1420}	818.1	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4815	$0.482^{+0.026}_{-0.026}$
A_{217}^{PS}	120.2	115^{+30}_{-30}	D_{2000}	231.25	$230.9^{+4.0}_{-3.9}$	$\sigma_8(0.51)$	0.6316	$0.632^{+0.027}_{-0.028}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9661	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	0.4774	$0.478^{+0.027}_{-0.026}$
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.9}$	Y_P	0.245394	$0.24539^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.6010	$0.601^{+0.026}_{-0.026}$
A_{143}^{dustTT}	11.00	$10.9^{+4.6}_{-4.5}$	Y_P^{BBN}	0.246721	$0.24672^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	0.3037	$0.304^{+0.013}_{-0.014}$
$A_{143 \times 217}^{dustTT}$	19.9	$18.6^{+8.4}_{-8.5}$	$10^5 D/H$	2.586	$2.587^{+0.069}_{-0.065}$	$\sigma_8(2.33)$	0.3110	$0.311^{+0.011}_{-0.011}$
A_{217}^{dustTT}	95.3	94^{+20}_{-20}	Age/Gyr	13.759	$13.755^{+0.082}_{-0.073}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
A_{100}^{dustTE}	0.113	$0.115^{+0.098}_{-0.097}$	z_*	1089.93	$1089.95^{+0.66}_{-0.64}$	$f_{2000}^{143 \times 217}$	31.95	32^{+5}_{-5}
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.078}_{-0.077}$	r_*	144.42	$144.38^{+0.73}_{-0.73}$	f_{2000}^{217}	106.63	$107.0^{+4.5}_{-4.7}$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04107	$1.04108^{+0.00075}_{-0.00076}$	χ_{simall}^2	396.04	$397.0 (\nu: 1.6)$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.873	$13.869^{+0.068}_{-0.068}$	χ_{lowl}^2	23.14	$23.49 (\nu: 0.4)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.67^{+0.21}_{-0.21}$	z_{drag}	1059.93	$1059.93^{+0.72}_{-0.73}$	χ_{plik}^2	2344.0	$2358.7 (\nu: 16.5)$
A_{217}^{dustTE}	2.08	$2.09^{+0.69}_{-0.68}$	r_{drag}	147.08	$147.04^{+0.74}_{-0.72}$	χ_{JLA}^2	1034.82	$1035.9 (\nu: 1.2)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14087	$0.14091^{+0.00079}_{-0.00081}$	χ_{6DF}^2	0.001	$0.054 (\nu: 0.0)$
c_{217}	0.99819	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160757	$0.16076^{+0.00044}_{-0.00043}$	χ_{MGS}^2	1.82	$1.95 (\nu: 0.2)$
H_0	68.29	$68.3^{+2.1}_{-2.1}$	z_{eq}	3403	3407^{+74}_{-72}	$\chi_{DR12BAO}^2$	3.91	$4.8 (\nu: 0.7)$
Ω_Λ	0.6933	$0.693^{+0.019}_{-0.021}$	k_{eq}	0.010387	$0.01040^{+0.00023}_{-0.00022}$	χ_{prior}^2	1.8	$11.6 (\nu: 10.4)$
Ω_m	0.3067	$0.307^{+0.021}_{-0.019}$	$100\theta_{eq}$	0.8131	$0.812^{+0.014}_{-0.014}$	χ_{BAO}^2	5.73	$6.8 (\nu: 1.1)$
$\Omega_m h^2$	0.14305	$0.1432^{+0.0031}_{-0.0030}$	$100\theta_{s,eq}$	0.4493	$0.4489^{+0.0070}_{-0.0070}$	χ_{CMB}^2	2763.1	$2779.2 (\nu: 16.6)$

Best-fit $\chi_{eff}^2 = 3805.46$; $\bar{\chi}_{eff}^2 = 3833.50$; $R - 1 = 0.00745$
 χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.91 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.04 commander_dx12_v3_2_29: 23.14 plik_rd12_HM_v22b_TTTEEE: 2343.97 SN - JLA Pantheon18: 1034.82

19.22 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022398	$0.02238^{+0.00035}_{-0.00036}$	$\Omega_m h^3$	0.09764	$0.0977^{+0.0035}_{-0.0034}$	$H(0.15)$	73.71	$73.8^{+1.8}_{-1.7}$
$\Omega_c h^2$	0.11992	$0.1199^{+0.0028}_{-0.0027}$	σ_8	0.8210	$0.820^{+0.029}_{-0.029}$	$D_M(0.15)$	634.2	634^{+16}_{-17}
$100\theta_{MC}$	1.04094	$1.04092^{+0.00075}_{-0.00074}$	S_8	0.8298	$0.829^{+0.029}_{-0.028}$	$H(0.38)$	83.60	$83.7^{+1.6}_{-1.5}$
τ	0.0540	$0.053^{+0.020}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4545	$0.454^{+0.016}_{-0.016}$	$D_M(0.38)$	1513.9	1513^{+33}_{-33}
w_0	-0.967	$-0.96^{+0.23}_{-0.21}$	$\sigma_8 \Omega_m^{0.25}$	0.6108	$0.610^{+0.018}_{-0.019}$	$H(0.51)$	90.10	$90.1^{+1.3}_{-1.3}$
w_a	-0.24	$-0.29^{+0.71}_{-0.88}$	$\sigma_8/h^{0.5}$	0.9934	$0.993^{+0.027}_{-0.028}$	$D_M(0.51)$	1963.2	1962^{+39}_{-39}
$\ln(10^{10} A_s)$	3.0437	$3.042^{+0.037}_{-0.038}$	$r_{drag} h$	100.45	$100.5^{+3.1}_{-3.0}$	$H(0.61)$	95.56	$95.6^{+1.0}_{-1.1}$
n_s	0.9666	$0.965^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.452	$2.454^{+0.060}_{-0.063}$	$D_M(0.61)$	2286.3	2285^{+41}_{-42}
y_{cal}	1.0005	$1.0004^{+0.0063}_{-0.0063}$	z_{re}	7.63	$7.6^{+1.9}_{-2.0}$	$H(2.33)$	235.33	$235.2^{+2.4}_{-2.3}$
A_{217}^{CIB}	46.3	47^{+20}_{-20}	$10^9 A_s$	2.098	$2.095^{+0.079}_{-0.078}$	$D_M(2.33)$	5752.4	5753^{+27}_{-23}
$\xi^{tSZ \times CIB}$	0.57	—	$10^9 A_s e^{-2\tau}$	1.8834	$1.883^{+0.026}_{-0.028}$	$f\sigma_8(0.15)$	0.4589	$0.458^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.2	—	D_{40}	1227.0	1230^{+28}_{-30}	$\sigma_8(0.15)$	0.7592	$0.759^{+0.027}_{-0.027}$
A_{100}^{PS}	249	259^{+70}_{-70}	D_{220}	5730	5734^{+98}_{-100}	$f\sigma_8(0.38)$	0.4800	$0.479^{+0.020}_{-0.020}$
A_{143}^{PS}	49.0	46^{+20}_{-20}	D_{810}	2540.7	2538^{+33}_{-35}	$\sigma_8(0.38)$	0.6735	$0.673^{+0.024}_{-0.024}$
$A_{143 \times 217}^{PS}$	50.9	42^{+20}_{-20}	D_{1420}	818.4	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4802	$0.480^{+0.021}_{-0.021}$
A_{217}^{PS}	121.1	115^{+30}_{-30}	D_{2000}	231.40	$230.8^{+4.1}_{-3.9}$	$\sigma_8(0.51)$	0.6304	$0.630^{+0.023}_{-0.022}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9666	$0.965^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	0.4762	$0.476^{+0.022}_{-0.021}$
A_{100}^{dustTT}	8.85	$9.0^{+4.7}_{-4.5}$	Y_P	0.245406	$0.24540^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	0.5999	$0.600^{+0.021}_{-0.021}$
A_{143}^{dustTT}	11.05	$10.9^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246733	$0.24672^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	0.3031	$0.303^{+0.011}_{-0.011}$
$A_{143 \times 217}^{dustTT}$	20.1	$18.6^{+8.3}_{-8.2}$	$10^5 D/H$	2.580	$2.584^{+0.068}_{-0.063}$	$\sigma_8(2.33)$	0.3106	$0.3102^{+0.0090}_{-0.0090}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Age/Gyr	13.756	$13.756^{+0.079}_{-0.071}$	$\chi^2_{lensing}$	8.81	$9.20 (\nu: 0.3)$
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.098}$	z_*	1089.88	$1089.90^{+0.61}_{-0.59}$	χ^2_{small}	396.01	$396.9 (\nu: 1.2)$
$A_{100 \times 143}^{dustTE}$	0.135	$0.135^{+0.076}_{-0.078}$	r_*	144.43	$144.44^{+0.63}_{-0.62}$	χ^2_{lowl}	23.05	$23.38 (\nu: 0.3)$
$A_{100 \times 217}^{dustTE}$	0.480	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04112	$1.04110^{+0.00074}_{-0.00074}$	χ^2_{plik}	2344.2	$2358.6 (\nu: 15.6)$
A_{143}^{dustTE}	0.226	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.873	$13.874^{+0.060}_{-0.061}$	χ^2_{JLA}	1034.83	$1035.9 (\nu: 1.3)$
$A_{143 \times 217}^{dustTE}$	0.663	$0.67^{+0.21}_{-0.21}$	z_{drag}	1060.01	$1059.95^{+0.74}_{-0.75}$	χ^2_{6DF}	0.001	$0.053 (\nu: 0.0)$
A_{217}^{dustTE}	2.08	$2.08^{+0.69}_{-0.66}$	r_{drag}	147.08	$147.10^{+0.65}_{-0.64}$	χ^2_{MGS}	1.82	$1.96 (\nu: 0.2)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14090	$0.14087^{+0.00074}_{-0.00077}$	$\chi^2_{DR12BAO}$	3.86	$4.7 (\nu: 0.6)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160725	$0.16075^{+0.00045}_{-0.00043}$	χ^2_{prior}	1.7	$11.6 (\nu: 10.3)$
H_0	68.30	$68.3^{+2.1}_{-2.1}$	z_{eq}	3401	3401^{+65}_{-62}	χ^2_{CMB}	2772.1	$2788.0 (\nu: 16.6)$
Ω_Λ	0.6935	$0.693^{+0.019}_{-0.020}$	k_{eq}	0.010380	$0.01038^{+0.00020}_{-0.00019}$	χ^2_{BAO}	5.68	$6.7 (\nu: 1.0)$
Ω_m	0.3065	$0.307^{+0.020}_{-0.019}$	$100\theta_{eq}$	0.8136	$0.814^{+0.012}_{-0.012}$			
$\Omega_m h^2$	0.14296	$0.1430^{+0.0027}_{-0.0026}$	$100\theta_{s,eq}$	0.4495	$0.4495^{+0.0060}_{-0.0061}$			

Best-fit $\chi^2_{eff} = 3814.30$; $\bar{\chi}^2_{eff} = 3842.17$; $R - 1 = 0.01143$

χ^2_{eff} : BAO - 6DF: 0.00 MGS: 1.82 DR12BAO: 3.86 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.80 small_100x143_offlike5_EE_Aplanck_B: 396.01 commander_dx12.v3.2.29: 23.05 plik_rd12_HM_v22b_TTTEEE: 2344.24 SN - JLA Pantheon18: 1034.83

19.23 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00036}_{-0.00037}$	$\Omega_m h^3$	$0.0978^{+0.0037}_{-0.0037}$	$H(0.15)$	$73.8^{+2.0}_{-1.8}$
$\Omega_c h^2$	$0.1202^{+0.0033}_{-0.0032}$	σ_8	$0.824^{+0.035}_{-0.036}$	$D_M(0.15)$	634^{+17}_{-17}
$100\theta_{MC}$	$1.04090^{+0.00076}_{-0.00078}$	S_8	$0.833^{+0.037}_{-0.038}$	$H(0.38)$	$83.7^{+1.6}_{-1.5}$
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8 \Omega_m^{0.5}$	$0.456^{+0.020}_{-0.021}$	$D_M(0.38)$	1513^{+33}_{-35}
w_0	$-0.95^{+0.23}_{-0.21}$	$\sigma_8 \Omega_m^{0.25}$	$0.613^{+0.024}_{-0.025}$	$H(0.51)$	$90.1^{+1.3}_{-1.3}$
w_a	$-0.32^{+0.74}_{-0.98}$	$\sigma_8/h^{0.5}$	$0.997^{+0.036}_{-0.037}$	$D_M(0.51)$	1962^{+39}_{-41}
$\ln(10^{10} A_s)$	$3.046^{+0.039}_{-0.030}$	$r_{\text{drag}} h$	$100.4^{+3.1}_{-3.1}$	$H(0.61)$	$95.5^{+1.0}_{-1.0}$
n_s	$0.965^{+0.011}_{-0.011}$	$\langle d^2 \rangle^{1/2}$	$2.463^{+0.079}_{-0.083}$	$D_M(0.61)$	2285^{+42}_{-43}
y_{cal}	$1.0005^{+0.0063}_{-0.0064}$	z_{re}	< 9.42	$H(2.33)$	$235.3^{+2.4}_{-2.3}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s$	$2.104^{+0.084}_{-0.062}$	$D_M(2.33)$	5754^{+27}_{-24}
$\xi^{\text{tSZ} \times \text{CIB}}$	—	$10^9 A_s e^{-2\tau}$	$1.884^{+0.029}_{-0.030}$	$f\sigma_8(0.15)$	$0.460^{+0.021}_{-0.021}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{40}	1231^{+32}_{-32}	$\sigma_8(0.15)$	$0.762^{+0.033}_{-0.034}$
A_{100}^{PS}	258^{+70}_{-70}	D_{220}	5732^{+97}_{-100}	$f\sigma_8(0.38)$	$0.482^{+0.024}_{-0.025}$
A_{143}^{PS}	46^{+20}_{-20}	D_{810}	2539^{+34}_{-35}	$\sigma_8(0.38)$	$0.676^{+0.029}_{-0.030}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$f\sigma_8(0.51)$	$0.482^{+0.026}_{-0.026}$
A_{217}^{PS}	115^{+30}_{-30}	D_{2000}	$230.9^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	$0.633^{+0.027}_{-0.028}$
A^{kSZ}	—	$n_{s,0.002}$	$0.965^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.479^{+0.027}_{-0.026}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.9}$	Y_P	$0.24539^{+0.00013}_{-0.00015}$	$\sigma_8(0.61)$	$0.602^{+0.026}_{-0.026}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.5}$	Y_P^{BBN}	$0.24672^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.304^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.5}_{-8.5}$	$10^5 D/H$	$2.587^{+0.069}_{-0.065}$	$\sigma_8(2.33)$	$0.311^{+0.010}_{-0.010}$
A_{217}^{dustTT}	94^{+20}_{-20}	Age/Gyr	$13.755^{+0.081}_{-0.073}$	f_{2000}^{143}	29^{+7}_{-7}
A_{100}^{dustTE}	$0.114^{+0.098}_{-0.097}$	z_*	$1089.94^{+0.66}_{-0.64}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.078}_{-0.078}$	r_*	$144.39^{+0.73}_{-0.73}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.6}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04108^{+0.00074}_{-0.00076}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	$13.869^{+0.068}_{-0.068}$	χ_{lowl}^2	$23.50 (\nu: 0.4)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.94^{+0.72}_{-0.73}$	χ_{plik}^2	$2358.5 (\nu: 16.3)$
A_{217}^{dustTE}	$2.09^{+0.69}_{-0.68}$	r_{drag}	$147.05^{+0.73}_{-0.72}$	χ_{JLA}^2	$1035.9 (\nu: 1.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_D	$0.14091^{+0.00079}_{-0.00081}$	$\chi_{6\text{DF}}^2$	$0.054 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16076^{+0.00045}_{-0.00043}$	χ_{MGS}^2	$1.95 (\nu: 0.2)$
H_0	$68.3^{+2.1}_{-2.1}$	z_{eq}	3406^{+74}_{-72}	χ_{DR12BAO}^2	$4.7 (\nu: 0.7)$
Ω_Λ	$0.693^{+0.019}_{-0.021}$	k_{eq}	$0.01040^{+0.00023}_{-0.00022}$	χ_{prior}^2	$11.6 (\nu: 10.5)$
Ω_m	$0.307^{+0.021}_{-0.019}$	$100\theta_{\text{eq}}$	$0.813^{+0.014}_{-0.014}$	χ_{BAO}^2	$6.7 (\nu: 1.1)$
$\Omega_m h^2$	$0.1432^{+0.0031}_{-0.0030}$	$100\theta_{s,\text{eq}}$	$0.4490^{+0.0070}_{-0.0070}$	χ_{CMB}^2	$2779.0 (\nu: 16.2)$

$$\bar{\chi}_{\text{eff}}^2 = 3833.27; R - 1 = 0.00878$$

19.24 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02238^{+0.00035}_{-0.00035}$	σ_8	$0.821^{+0.028}_{-0.029}$	$H(0.38)$	$83.6^{+1.6}_{-1.5}$
$\Omega_c h^2$	$0.1199^{+0.0027}_{-0.0027}$	S_8	$0.829^{+0.029}_{-0.028}$	$D_M(0.38)$	1513^{+33}_{-34}
$100\theta_{MC}$	$1.04092^{+0.00075}_{-0.00075}$	$\sigma_8 \Omega_m^{0.5}$	$0.454^{+0.016}_{-0.016}$	$H(0.51)$	$90.1^{+1.3}_{-1.3}$
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	$0.611^{+0.018}_{-0.019}$	$D_M(0.51)$	1962^{+39}_{-40}
w_0	$-0.96^{+0.22}_{-0.20}$	$\sigma_8/h^{0.5}$	$0.993^{+0.027}_{-0.028}$	$H(0.61)$	$95.6^{+1.0}_{-1.1}$
w_a	$-0.28^{+0.70}_{-0.87}$	$r_{\text{drag}} h$	$100.5^{+3.1}_{-3.0}$	$D_M(0.61)$	2285^{+41}_{-42}
$\ln(10^{10} A_s)$	$3.044^{+0.036}_{-0.027}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.060}_{-0.063}$	$H(2.33)$	$235.2^{+2.4}_{-2.3}$
n_s	$0.965^{+0.010}_{-0.0097}$	z_{re}	< 9.31	$D_M(2.33)$	5753^{+27}_{-23}
y_{cal}	$1.0004^{+0.0064}_{-0.0064}$	$10^9 A_s$	$2.099^{+0.076}_{-0.056}$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.882^{+0.026}_{-0.028}$	$\sigma_8(0.15)$	$0.759^{+0.027}_{-0.027}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1230^{+28}_{-30}	$f\sigma_8(0.38)$	$0.480^{+0.020}_{-0.020}$
A_{143}^{tSZ}	—	D_{220}	5733^{+99}_{-100}	$\sigma_8(0.38)$	$0.673^{+0.024}_{-0.024}$
A_{100}^{PS}	259^{+70}_{-70}	D_{810}	2538^{+34}_{-35}	$f\sigma_8(0.51)$	$0.480^{+0.021}_{-0.020}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.51)$	$0.630^{+0.022}_{-0.022}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{2000}	$230.8^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	$0.476^{+0.022}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.965^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.600^{+0.021}_{-0.021}$
A^{kSZ}	—	Y_P	$0.24540^{+0.00013}_{-0.00015}$	$f\sigma_8(2.33)$	$0.303^{+0.011}_{-0.011}$
A_{100}^{dustTT}	$8.9^{+4.7}_{-4.7}$	Y_P^{BBN}	$0.24673^{+0.00013}_{-0.00015}$	$\sigma_8(2.33)$	$0.3104^{+0.0088}_{-0.0088}$
A_{143}^{dustTT}	$10.9^{+4.6}_{-4.4}$	10^5D/H	$2.583^{+0.067}_{-0.062}$	f_{2000}^{143}	30^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	$18.6^{+8.4}_{-8.3}$	Age/Gyr	$13.756^{+0.078}_{-0.072}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
A_{217}^{dustTT}	94^{+20}_{-20}	z_*	$1089.89^{+0.62}_{-0.58}$	f_{2000}^{217}	$107.0^{+4.5}_{-4.8}$
A_{100}^{dustTE}	$0.114^{+0.099}_{-0.098}$	r_*	$144.45^{+0.62}_{-0.61}$	χ_{lensing}^2	$9.19 (\nu: 0.3)$
$A_{100 \times 143}^{\text{dustTE}}$	$0.135^{+0.076}_{-0.078}$	$100\theta_*$	$1.04110^{+0.00074}_{-0.00075}$	χ_{simall}^2	$396.8 (\nu: 1.2)$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.875^{+0.060}_{-0.060}$	χ_{lowl}^2	$23.37 (\nu: 0.3)$
A_{143}^{dustTE}	$0.23^{+0.14}_{-0.14}$	z_{drag}	$1059.96^{+0.74}_{-0.75}$	χ_{plik}^2	$2358.4 (\nu: 15.5)$
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.20}_{-0.21}$	r_{drag}	$147.11^{+0.65}_{-0.62}$	χ_{JLA}^2	$1035.9 (\nu: 1.2)$
A_{217}^{dustTE}	$2.08^{+0.70}_{-0.66}$	k_D	$0.14086^{+0.00074}_{-0.00076}$	$\chi_{6\text{DF}}^2$	$0.053 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_D$	$0.16074^{+0.00044}_{-0.00043}$	χ_{MGS}^2	$1.95 (\nu: 0.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3400^{+61}_{-60}	χ_{DR12BAO}^2	$4.6 (\nu: 0.6)$
H_0	$68.3^{+2.1}_{-2.1}$	k_{eq}	$0.01038^{+0.00019}_{-0.00018}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_Λ	$0.694^{+0.019}_{-0.020}$	$100\theta_{\text{eq}}$	$0.814^{+0.011}_{-0.011}$	χ_{CMB}^2	$2787.8 (\nu: 16.2)$
Ω_m	$0.306^{+0.020}_{-0.019}$	$100\theta_{s,\text{eq}}$	$0.4497^{+0.0059}_{-0.0058}$	χ_{BAO}^2	$6.6 (\nu: 1.0)$
$\Omega_m h^2$	$0.1429^{+0.0026}_{-0.0025}$	$H(0.15)$	$73.8^{+1.8}_{-1.7}$		
$\Omega_m h^3$	$0.0976^{+0.0036}_{-0.0034}$	$D_M(0.15)$	634^{+16}_{-17}		

$$\bar{\chi}_{\text{eff}}^2 = 3841.93; R - 1 = 0.01414$$

19.25 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02219	$0.02214^{+0.00054}_{-0.00053}$ $(+0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6134	$0.614^{+0.033}_{-0.035}$ (-0.1σ)	$D_M(0.38)$	1518.3	1516^{+35}_{-37} (-0.0σ)
$\Omega_c h^2$	0.11995	$0.1204^{+0.0045}_{-0.0048}$ (-0.1σ)	$\sigma_8/h^{0.5}$	0.9979	$0.998^{+0.047}_{-0.051}$ (-0.1σ)	$H(0.51)$	89.84	$89.9^{+1.3}_{-1.3}$ $(+0.0\sigma)$
$100\theta_{MC}$	1.04095	$1.0409^{+0.0012}_{-0.0012}$ $(+0.1\sigma)$	$r_{drag}h$	100.48	$100.4^{+3.3}_{-3.2}$ $(+0.1\sigma)$	$D_M(0.51)$	1968.9	1966^{+42}_{-43} (-0.0σ)
τ	0.0590	$0.052^{+0.021}_{-0.022}$ $(+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	2.462	$2.46^{+0.10}_{-0.11}$ (-0.1σ)	$H(0.61)$	95.32	$95.3^{+1.1}_{-1.1}$ $(+0.0\sigma)$
w_0	-0.985	$-0.96^{+0.23}_{-0.21}$ (-0.0σ)	z_{re}	8.18	$7.5^{+2.0}_{-2.5}$ $(+0.0\sigma)$	$D_M(0.61)$	2292.9	2290^{+45}_{-45} (-0.0σ)
w_a	-0.18	$-0.34^{+0.81}_{-1.1}$ $(+0.0\sigma)$	$10^9 A_s$	2.109	$2.088^{+0.091}_{-0.091}$ (-0.1σ)	$H(2.33)$	235.28	$235.1^{+2.5}_{-2.5}$ (-0.0σ)
$\ln(10^{10} A_s)$	3.0490	$3.039^{+0.043}_{-0.044}$ (-0.1σ)	$10^9 A_s e^{-2\tau}$	1.8748	$1.881^{+0.033}_{-0.033}$ (-0.2σ)	$D_M(2.33)$	5762.3	5765^{+33}_{-34} (-0.1σ)
n_s	0.9649	$0.964^{+0.014}_{-0.013}$ $(+0.2\sigma)$	D_{40}	1225.7	1228^{+35}_{-36} (-0.3σ)	$f\sigma_8(0.15)$	0.4619	$0.461^{+0.028}_{-0.029}$ (-0.1σ)
y_{cal}	0.9992	$1.0004^{+0.0063}_{-0.0063}$ (-0.0σ)	D_{220}	5695	5704^{+100}_{-100} (-0.2σ)	$\sigma_8(0.15)$	0.7620	$0.762^{+0.041}_{-0.043}$ (-0.1σ)
A_{100}^{PS}	237	242^{+60}_{-60} (-0.7σ)	D_{810}	2527.2	2534^{+35}_{-34} (-0.2σ)	$f\sigma_8(0.38)$	0.4830	$0.483^{+0.032}_{-0.033}$ (-0.1σ)
A_{143}^{PS}	44.0	41^{+20}_{-20} (-1.0σ)	D_{1420}	812.3	814^{+13}_{-13} (-0.1σ)	$\sigma_8(0.38)$	0.6758	$0.676^{+0.036}_{-0.038}$ (-0.1σ)
A_{217}^{PS}	97.5	101^{+30}_{-30} (-1.3σ)	D_{2000}	229.24	$229.6^{+4.7}_{-4.5}$ (-0.0σ)	$f\sigma_8(0.51)$	0.4829	$0.483^{+0.034}_{-0.034}$ (-0.1σ)
A_{217}^{CIB}	46.0	41^{+20}_{-20} (-1.0σ)	$n_{s,0.002}$	0.9649	$0.964^{+0.014}_{-0.013}$ $(+0.2\sigma)$	$\sigma_8(0.51)$	0.6324	$0.632^{+0.033}_{-0.035}$ (-0.1σ)
A_{143}^{tSZ}	5.97	< 8.77 (-0.7σ)	Y_P	0.245322	$0.24529^{+0.00021}_{-0.00025}$ $(+0.1\sigma)$	$f\sigma_8(0.61)$	0.4786	$0.479^{+0.035}_{-0.035}$ (-0.1σ)
$r_{143 \times 217}^{PS}$	0.614	$0.65^{+0.31}_{-0.32}$	Y_P^{BBN}	0.246649	$0.24662^{+0.00021}_{-0.00025}$ $(+0.1\sigma)$	$\sigma_8(0.61)$	0.6017	$0.601^{+0.031}_{-0.033}$ (-0.1σ)
$r_{143 \times 217}^{CIB}$	0.87	—	$10^5 D/H$	2.619	$2.63^{+0.10}_{-0.099}$ (-0.1σ)	$f\sigma_8(2.33)$	0.3039	$0.304^{+0.015}_{-0.017}$ (-0.1σ)
$\xi^{tSZ \times CIB}$	0.35	—	Age/Gyr	13.779	$13.777^{+0.095}_{-0.088}$ (-0.1σ)	$\sigma_8(2.33)$	0.3115	$0.311^{+0.012}_{-0.013}$ (-0.0σ)
A^{kSZ}	1.2	—	z_*	1090.14	$1090.26^{+0.91}_{-0.95}$ (-0.1σ)	f_{2000}^{143}	31.0	31^{+8}_{-8} (-0.1σ)
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	r_*	144.58	$144.5^{+1.1}_{-1.1}$ $(+0.1\sigma)$	f_{2000}^{217}	107.1	$107.5^{+5.2}_{-5.2}$ (-0.3σ)
A_{143}^{dust}	0.996	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	1.04115	$1.0411^{+0.0012}_{-0.0012}$ $(+0.1\sigma)$	$f_{2000}^{143 \times 217}$	32.8	33^{+5}_{-5} (-0.3σ)
A_{217}^{dust}	0.954	$0.97^{+0.26}_{-0.26}$	$D_M(z_*)/\text{Gpc}$	13.887	$13.88^{+0.11}_{-0.10}$ $(+0.1\sigma)$	χ_{small}^2	397.31	$396.9 (\nu: 1.3)$ $(+0.0\sigma)$
$A_{143 \times 217}^{dust}$	0.973	$1.03^{+0.42}_{-0.41}$	z_{drag}	1059.51	$1059.4^{+1.2}_{-1.1}$ $(+0.0\sigma)$	χ_{lowl}^2	23.37	$23.4 (\nu: 0.6)$ (-0.3σ)
c_{100}	0.99756	$0.9974^{+0.0027}_{-0.0027}$ (-3.5σ)	r_{drag}	147.30	$147.2^{+1.2}_{-1.1}$ $(+0.1\sigma)$	$\chi_{CamSpec}^2$	7049.3	$7062.7 (\nu: 14.5)$
c_{217}	1.00160	$1.0012^{+0.0040}_{-0.0040}$ $(+4.7\sigma)$	k_D	0.14050	$0.1405^{+0.0013}_{-0.0013}$ (-0.0σ)	χ_{JLA}^2	1034.74	$1035.9 (\nu: 1.2)$ (-0.0σ)
H_0	68.21	$68.2^{+2.3}_{-2.1}$ $(+0.1\sigma)$	$100\theta_D$	0.16101	$0.16107^{+0.00069}_{-0.00065}$ (-0.0σ)	χ_{6DF}^2	0.000	$0.056 (\nu: 0.0)$ $(+0.0\sigma)$
Ω_Λ	0.6931	$0.692^{+0.021}_{-0.022}$ $(+0.1\sigma)$	z_{eq}	3397	3406^{+100}_{-110} (-0.1σ)	χ_{MGS}^2	1.75	$1.92 (\nu: 0.3)$ $(+0.1\sigma)$
Ω_m	0.3069	$0.308^{+0.022}_{-0.021}$ (-0.1σ)	k_{eq}	0.010367	$0.01040^{+0.00032}_{-0.00033}$ (-0.1σ)	$\chi_{DR12BAO}^2$	3.97	$4.9 (\nu: 0.9)$ (-0.0σ)
$\Omega_m h^2$	0.14278	$0.1432^{+0.0043}_{-0.0046}$ (-0.1σ)	$100\theta_{eq}$	0.8138	$0.812^{+0.021}_{-0.019}$ $(+0.1\sigma)$	χ_{prior}^2	2.5	$7.6 (\nu: 5.8)$ $(+0.1\sigma)$
$\Omega_m h^3$	0.09739	$0.0976^{+0.0045}_{-0.0045}$ (-0.0σ)	$100\theta_{s,eq}$	0.4498	$0.449^{+0.011}_{-0.0097}$ $(+0.1\sigma)$	χ_{BAO}^2	5.72	$6.9 (\nu: 1.2)$ $(+0.0\sigma)$
σ_8	0.8241	$0.824^{+0.044}_{-0.046}$ (-0.1σ)	$H(0.15)$	73.49	$73.7^{+2.1}_{-1.9}$ $(+0.0\sigma)$	χ_{CMB}^2	7470.0	$7483.0 (\nu: 14.6)$ $(+1147.1\sigma)$
S_8	0.834	$0.835^{+0.049}_{-0.053}$ (-0.1σ)	$D_M(0.15)$	635.6	635^{+17}_{-18} (-0.1σ)			
$\sigma_8 \Omega_m^{0.5}$	0.4565	$0.457^{+0.027}_{-0.029}$ (-0.1σ)	$H(0.38)$	83.32	$83.5^{+1.7}_{-1.6}$ $(+0.0\sigma)$			

Best-fit $\chi_{eff}^2 = 8512.97$; $\Delta\chi_{eff}^2 = 6293.44$; $\bar{\chi}_{eff}^2 = 8533.43$; $\Delta\bar{\chi}_{eff}^2 = 6291.96$; $R - 1 = 0.00675$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ -0.00) MGS: 1.75 (Δ -0.07) DR12BAO: 3.97 (Δ -0.06) CMB - simall_100x143_offlike5_EE_Aplanck_B: 397.31 (Δ 1.44) commander_dx12_v3_2_29: 23.37 (Δ 0.09) CamSpec like_10.7HM: 7049.34 SN - JLA Pantheon18: 1034.74 (Δ -0.03)

19.26 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02215^{+0.00052}_{-0.00051} \quad (+0.0\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.612^{+0.022}_{-0.022} \quad (+0.1\sigma)$	$D_M(0.38)$	$1516^{+34}_{-36} \quad (-0.1\sigma)$
$\Omega_c h^2$	$0.1201^{+0.0034}_{-0.0036} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.995^{+0.031}_{-0.032} \quad (+0.1\sigma)$	$H(0.51)$	$89.9^{+1.3}_{-1.3} \quad (+0.0\sigma)$
$100\theta_{MC}$	$1.0409^{+0.0011}_{-0.0012} \quad (+0.1\sigma)$	$r_{drag} h$	$100.5^{+3.2}_{-3.2} \quad (+0.1\sigma)$	$D_M(0.51)$	$1966^{+41}_{-43} \quad (-0.1\sigma)$
τ	$0.052^{+0.021}_{-0.022} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.454^{+0.067}_{-0.072} \quad (-0.0\sigma)$	$H(0.61)$	$95.3^{+1.1}_{-1.1} \quad (+0.0\sigma)$
w_0	$-0.96^{+0.21}_{-0.20} \quad (+0.0\sigma)$	z_{re}	$7.5^{+2.0}_{-2.4} \quad (+0.0\sigma)$	$D_M(0.61)$	$2289^{+44}_{-45} \quad (-0.1\sigma)$
w_a	$-0.30^{+0.72}_{-0.97} \quad (-0.0\sigma)$	$10^9 A_s$	$2.086^{+0.084}_{-0.085} \quad (-0.0\sigma)$	$H(2.33)$	$235.0^{+2.5}_{-2.5} \quad (-0.0\sigma)$
$\ln(10^{10} A_s)$	$3.038^{+0.040}_{-0.041} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	$1.880^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$D_M(2.33)$	$5764^{+32}_{-32} \quad (-0.1\sigma)$
n_s	$0.964^{+0.012}_{-0.011} \quad (+0.1\sigma)$	D_{40}	$1227^{+30}_{-32} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.460^{+0.019}_{-0.020} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5706^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.760^{+0.029}_{-0.030} \quad (+0.1\sigma)$
A_{100}^{PS}	$243^{+70}_{-60} \quad (-0.7\sigma)$	D_{810}	$2533^{+34}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.481^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.026}_{-0.027} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$229.5^{+4.7}_{-4.5} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.481^{+0.024}_{-0.024} \quad (+0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{s,0.002}$	$0.964^{+0.012}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.631^{+0.024}_{-0.025} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.78 \quad (-0.7\sigma)$	Y_P	$0.24530^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.477^{+0.025}_{-0.024} \quad (+0.1\sigma)$
$r_{143 \times 217}^{PS}$	$0.65^{+0.32}_{-0.32}$	Y_P^{BBN}	$0.24663^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.600^{+0.023}_{-0.024} \quad (+0.1\sigma)$
$r_{143 \times 217}^{CIB}$	—	$10^5 D/H$	$2.627^{+0.099}_{-0.095} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.012}_{-0.013} \quad (+0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Age/Gyr	$13.777^{+0.089}_{-0.087} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3101^{+0.0094}_{-0.0098} \quad (+0.1\sigma)$
A^{kSZ}	—	z_*	$1090.21^{+0.84}_{-0.81} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.57^{+0.85}_{-0.83} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.6^{+5.3}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_M(z_*)/\text{Gpc}$	$13.887^{+0.081}_{-0.079} \quad (-0.1\sigma)$	$\chi_{lensing}^2$	$9.40 \quad (\nu: 0.4) \quad (+0.0\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.41}_{-0.42}$	z_{drag}	$1059.4^{+1.1}_{-1.1} \quad (+0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.30^{+0.92}_{-0.90} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.29 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0039} \quad (+4.7\sigma)$	k_D	$0.1405^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{CamSpec}^2$	$7062.3 \quad (\nu: 13.6)$
H_0	$68.2^{+2.2}_{-2.1} \quad (+0.1\sigma)$	$100\theta_D$	$0.16105^{+0.00067}_{-0.00065} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.1) \quad (-0.0\sigma)$
Ω_Λ	$0.693^{+0.020}_{-0.021} \quad (+0.1\sigma)$	z_{eq}	$3400^{+79}_{-81} \quad (+0.1\sigma)$	χ_{6DF}^2	$0.056 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_m	$0.307^{+0.021}_{-0.020} \quad (-0.1\sigma)$	k_{eq}	$0.01038^{+0.00024}_{-0.00025} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.94 \quad (\nu: 0.3) \quad (+0.1\sigma)$
$\Omega_m h^2$	$0.1429^{+0.0033}_{-0.0034} \quad (+0.1\sigma)$	$100\theta_{eq}$	$0.813^{+0.016}_{-0.014} \quad (-0.0\sigma)$	$\chi_{DR12BAO}^2$	$4.8 \quad (\nu: 0.8) \quad (+0.0\sigma)$
$\Omega_m h^3$	$0.0975^{+0.0041}_{-0.0039} \quad (+0.1\sigma)$	$100\theta_{s,eq}$	$0.4495^{+0.0079}_{-0.0074} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
σ_8	$0.821^{+0.031}_{-0.032} \quad (+0.1\sigma)$	$H(0.15)$	$73.6^{+2.0}_{-1.8} \quad (+0.1\sigma)$	χ_{CMB}^2	$7491.9 \quad (\nu: 14.9) \quad (+1129.7\sigma)$
S_8	$0.831^{+0.034}_{-0.035} \quad (+0.0\sigma)$	$D_M(0.15)$	$635^{+17}_{-18} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$H(0.38)$	$83.5^{+1.6}_{-1.6} \quad (+0.1\sigma)$		

$\bar{\chi}_{eff}^2 = 8542.20$; $\Delta \bar{\chi}_{eff}^2 = 6291.90$; $R - 1 = 0.00753$

19.27 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02214^{+0.00054}_{-0.00052} \quad (+0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.033}_{-0.036} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1516^{+35}_{-37} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1203^{+0.0045}_{-0.0048} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.998^{+0.046}_{-0.051} \quad (-0.1\sigma)$	$H(0.51)$	$89.9^{+1.3}_{-1.3} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$100.4^{+3.3}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1966^{+42}_{-42} \quad (-0.0\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.46^{+0.10}_{-0.11} \quad (-0.2\sigma)$	$H(0.61)$	$95.3^{+1.1}_{-1.1} \quad (+0.0\sigma)$
w_0	$-0.96^{+0.22}_{-0.20} \quad (-0.0\sigma)$	z_{re}	$< 9.36 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2290^{+45}_{-45} \quad (-0.0\sigma)$
w_a	$-0.33^{+0.81}_{-1.1} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.085}_{-0.061} \quad (-0.1\sigma)$	$H(2.33)$	$235.1^{+2.5}_{-2.5} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.040}_{-0.030} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.033}_{-0.033} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+33}_{-33} \quad (-0.1\sigma)$
n_{s}	$0.964^{+0.014}_{-0.013} \quad (+0.2\sigma)$	D_{40}	$1228^{+35}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.462^{+0.028}_{-0.029} \quad (-0.1\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5704^{+110}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.762^{+0.041}_{-0.043} \quad (-0.1\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2533^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.032}_{-0.033} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.676^{+0.036}_{-0.038} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$229.6^{+4.7}_{-4.4} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.484^{+0.035}_{-0.034} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.964^{+0.014}_{-0.013} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.633^{+0.033}_{-0.035} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	Y_{P}	$0.24530^{+0.00021}_{-0.00025} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.480^{+0.036}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24662^{+0.00021}_{-0.00025} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.602^{+0.031}_{-0.033} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.10} \quad (-0.1\sigma)$	$f\sigma_8(2.33)$	$0.304^{+0.015}_{-0.018} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.777^{+0.095}_{-0.088} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.311^{+0.012}_{-0.013} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.24^{+0.90}_{-0.94} \quad (-0.1\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.2}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.11}_{-0.10} \quad (+0.1\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	z_{drag}	$1059.4^{+1.2}_{-1.1} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 0.6) \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.3^{+1.2}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.5 \quad (\nu: 14.5)$
c_{217}	$1.0012^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1405^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.2) \quad (-0.0\sigma)$
H_0	$68.2^{+2.3}_{-2.1} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16106^{+0.00067}_{-0.00065} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{Λ}	$0.692^{+0.021}_{-0.022} \quad (+0.1\sigma)$	z_{eq}	$3404^{+100}_{-110} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.91 \quad (\nu: 0.3) \quad (+0.1\sigma)$
Ω_{m}	$0.308^{+0.022}_{-0.021} \quad (-0.1\sigma)$	k_{eq}	$0.01039^{+0.00032}_{-0.00034} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 \quad (\nu: 0.9) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1431^{+0.0044}_{-0.0046} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.021}_{-0.019} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0976^{+0.0044}_{-0.0045} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.011}_{-0.0097} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.9 \quad (\nu: 1.2) \quad (+0.0\sigma)$
σ_8	$0.824^{+0.044}_{-0.047} \quad (-0.1\sigma)$	$H(0.15)$	$73.6^{+2.1}_{-1.9} \quad (+0.0\sigma)$	χ_{CMB}^2	$7482.7 \quad (\nu: 14.3) \quad (+1168.0\sigma)$
S_8	$0.835^{+0.049}_{-0.053} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+17}_{-18} \quad (-0.1\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.027}_{-0.029} \quad (-0.1\sigma)$	$H(0.38)$	$83.5^{+1.6}_{-1.6} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8533.12; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.95; R - 1 = 0.00716$$

19.28 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02216^{+0.00052}_{-0.00050} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.612^{+0.022}_{-0.022} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1516^{+35}_{-37} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1200^{+0.0033}_{-0.0035} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.995^{+0.031}_{-0.032} \quad (+0.1\sigma)$	$H(0.51)$	$89.9^{+1.3}_{-1.3} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.2}_{-3.2} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1966^{+41}_{-42} \quad (-0.1\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.067}_{-0.071} \quad (-0.0\sigma)$	$H(0.61)$	$95.4^{+1.1}_{-1.1} \quad (+0.0\sigma)$
w_0	$-0.96^{+0.21}_{-0.20} \quad (-0.0\sigma)$	z_{re}	$< 9.32 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2290^{+44}_{-45} \quad (-0.1\sigma)$
w_a	$-0.29^{+0.71}_{-0.92} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.079}_{-0.057} \quad (-0.0\sigma)$	$H(2.33)$	$235.0^{+2.5}_{-2.5} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.037}_{-0.028} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.027} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+33}_{-32} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.012}_{-0.011} \quad (+0.1\sigma)$	D_{40}	$1227^{+30}_{-32} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.460^{+0.020}_{-0.020} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0064} \quad (-0.0\sigma)$	D_{220}	$5706^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.760^{+0.029}_{-0.030} \quad (+0.1\sigma)$
A_{100}^{PS}	$242^{+70}_{-60} \quad (-0.7\sigma)$	D_{810}	$2533^{+35}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.481^{+0.023}_{-0.023} \quad (+0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.674^{+0.026}_{-0.027} \quad (+0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{2000}	$229.6^{+4.7}_{-4.5} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.481^{+0.024}_{-0.024} \quad (+0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.631^{+0.024}_{-0.025} \quad (+0.1\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.7\sigma)$	Y_{P}	$0.24531^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.477^{+0.025}_{-0.024} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.31}_{-0.33}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00020}_{-0.00024} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.600^{+0.023}_{-0.023} \quad (+0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.625^{+0.097}_{-0.095} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.303^{+0.012}_{-0.012} \quad (+0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.777^{+0.091}_{-0.088} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3104^{+0.0093}_{-0.0095} \quad (+0.1\sigma)$
A^{kSZ}	—	z_*	$1090.18^{+0.78}_{-0.80} \quad (-0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-7} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.60^{+0.84}_{-0.81} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.5^{+5.3}_{-5.1} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.080}_{-0.078} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.39 \quad (\nu: 0.4) \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	z_{drag}	$1059.5^{+1.1}_{-1.2} \quad (+0.0\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.1) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	r_{drag}	$147.33^{+0.90}_{-0.88} \quad (-0.1\sigma)$	χ_{lowl}^2	$23.26 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0039} \quad (+4.8\sigma)$	k_{D}	$0.1405^{+0.0012}_{-0.0011} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.2 \quad (\nu: 13.6)$
H_0	$68.2^{+2.2}_{-2.1} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16104^{+0.00066}_{-0.00065} \quad (-0.0\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.1) \quad (-0.0\sigma)$
Ω_{Λ}	$0.693^{+0.020}_{-0.021} \quad (+0.1\sigma)$	z_{eq}	$3397^{+75}_{-80} \quad (+0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.307^{+0.021}_{-0.020} \quad (-0.1\sigma)$	k_{eq}	$0.01037^{+0.00023}_{-0.00024} \quad (+0.1\sigma)$	χ_{MGS}^2	$1.94 \quad (\nu: 0.3) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1428^{+0.0031}_{-0.0033} \quad (+0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.015}_{-0.014} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 0.8) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0974^{+0.0040}_{-0.0038} \quad (+0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4498^{+0.0077}_{-0.0071} \quad (-0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.822^{+0.031}_{-0.032} \quad (+0.1\sigma)$	$H(0.15)$	$73.6^{+2.0}_{-1.8} \quad (+0.1\sigma)$	χ_{CMB}^2	$7491.6 \quad (\nu: 14.5) \quad (+1138.8\sigma)$
S_8	$0.831^{+0.034}_{-0.034} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+17}_{-17} \quad (-0.1\sigma)$	χ_{BAO}^2	$6.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.455^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$H(0.38)$	$83.5^{+1.7}_{-1.6} \quad (+0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 8541.86$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.85$; $R - 1 = 0.00901$

19.29 base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022301	$0.02229^{+0.00040}_{-0.00038} \quad (-0.5\sigma)$	S_8	0.8238	$0.825^{+0.038}_{-0.039} \quad (-0.5\sigma)$	$D_M(0.15)$	635.1	$635^{+17}_{-17} \quad (+0.2\sigma)$
$\Omega_c h^2$	0.11951	$0.1196^{+0.0033}_{-0.0034} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4512	$0.452^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	83.49	$83.5^{+1.6}_{-1.6} \quad (-0.3\sigma)$
$100\theta_{MC}$	1.04091	$1.04088^{+0.00081}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6066	$0.607^{+0.025}_{-0.026} \quad (-0.6\sigma)$	$D_M(0.38)$	1516.1	$1516^{+35}_{-34} \quad (+0.3\sigma)$
τ	0.0520	$0.052^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	0.9874	$0.989^{+0.037}_{-0.038} \quad (-0.5\sigma)$	$H(0.51)$	90.02	$90.0^{+1.3}_{-1.4} \quad (-0.2\sigma)$
w_0	-0.972	$-0.97^{+0.22}_{-0.20} \quad (-0.2\sigma)$	$r_{drag} h$	100.48	$100.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$D_M(0.51)$	1965.8	$1966^{+41}_{-41} \quad (+0.3\sigma)$
w_a	-0.20	$-0.24^{+0.73}_{-0.92} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.439	$2.442^{+0.084}_{-0.085} \quad (-0.6\sigma)$	$H(0.61)$	95.49	$95.5^{+1.1}_{-1.1} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0366	$3.038^{+0.044}_{-0.046} \quad (-0.4\sigma)$	z_{re}	7.44	$7.5^{+2.0}_{-2.5} \quad (-0.2\sigma)$	$D_M(0.61)$	2289.2	$2289^{+45}_{-43} \quad (+0.3\sigma)$
n_s	0.9662	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_s$	2.083	$2.086^{+0.093}_{-0.094} \quad (-0.4\sigma)$	$H(2.33)$	235.13	$235.1^{+2.6}_{-2.4} \quad (-0.1\sigma)$
y_{cal}	1.0003	$1.0005^{+0.0067}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_s e^{-2\tau}$	1.8777	$1.878^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_M(2.33)$	5757.1	$5759^{+29}_{-28} \quad (+0.5\sigma)$
A_{100}^{PS}	235	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	1224.2	$1225^{+33}_{-32} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4557	$0.456^{+0.022}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{PS}	38.1	$40^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	5717	$5718^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7541	$0.755^{+0.034}_{-0.035} \quad (-0.5\sigma)$
A_{217}^{PS}	101.6	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	2534.1	$2535^{+36}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	0.4765	$0.477^{+0.026}_{-0.025} \quad (-0.4\sigma)$
A_{217}^{CIB}	44.8	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	815.5	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	0.6691	$0.670^{+0.030}_{-0.031} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.65	$< 8.74 \quad (-0.8\sigma)$	D_{2000}	230.22	$230.2^{+4.2}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	0.4766	$0.477^{+0.027}_{-0.027} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	0.573	$0.66^{+0.31}_{-0.32}$	$n_{s,0.002}$	0.9662	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	0.6263	$0.627^{+0.028}_{-0.029} \quad (-0.5\sigma)$
$r_{143 \times 217}^{CIB}$	0.77	—	Y_P	0.245367	$0.24536^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	0.4725	$0.473^{+0.028}_{-0.027} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	0.01	—	Y_P^{BBN}	0.246694	$0.24669^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	0.5960	$0.597^{+0.026}_{-0.027} \quad (-0.5\sigma)$
A^{kSZ}	0.0	—	$10^5 D/H$	2.599	$2.600^{+0.073}_{-0.073} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	0.3011	$0.301^{+0.013}_{-0.015} \quad (-0.5\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.50}$	Age/Gyr	13.770	$13.771^{+0.086}_{-0.079} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	0.3089	$0.309^{+0.011}_{-0.012} \quad (-0.5\sigma)$
A_{143}^{dust}	0.978	$0.96^{+0.47}_{-0.45}$	z_*	1089.97	$1089.98^{+0.67}_{-0.69} \quad (+0.1\sigma)$	f_{2000}^{143}	30.1	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	0.968	$0.97^{+0.26}_{-0.27}$	r_*	144.61	$144.59^{+0.77}_{-0.77} \quad (+0.7\sigma)$	f_{2000}^{217}	106.86	$106.9^{+5.0}_{-5.0} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.003	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	1.04110	$1.04107^{+0.00080}_{-0.00079} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	32.1	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	0.99760	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	$D_M(z_*)/\text{Gpc}$	13.890	$13.889^{+0.072}_{-0.072} \quad (+0.8\sigma)$	χ_{small}^2	395.76	$396.9 \quad (\nu: 1.2) \quad (-0.1\sigma)$
c_{217}	1.00127	$1.0011^{+0.0040}_{-0.0039} \quad (+4.7\sigma)$	z_{drag}	1059.74	$1059.73^{+0.85}_{-0.83} \quad (-0.7\sigma)$	χ_{lowl}^2	22.92	$23.05 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{TE}	0.9964	$0.997^{+0.013}_{-0.012}$	r_{drag}	147.30	$147.28^{+0.78}_{-0.78} \quad (+0.8\sigma)$	$\chi_{CamSpec}^2$	11499.4	$11514.3 \quad (\nu: 16.0)$
c_{EE}	0.9921	$0.992^{+0.013}_{-0.013}$	k_D	0.14060	$0.14060^{+0.00089}_{-0.00088} \quad (-1.0\sigma)$	χ_{JLA}^2	1034.83	$1035.9 \quad (\nu: 1.2) \quad (-0.0\sigma)$
H_0	68.22	$68.2^{+2.2}_{-2.1} \quad (-0.1\sigma)$	$100\theta_D$	0.160868	$0.16087^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	χ_{6DF}^2	0.001	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_Λ	0.6939	$0.693^{+0.020}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	3389	$3391^{+76}_{-76} \quad (-0.6\sigma)$	χ_{MGS}^2	1.82	$1.91 \quad (\nu: 0.2) \quad (-0.1\sigma)$
Ω_m	0.3061	$0.307^{+0.020}_{-0.020} \quad (-0.1\sigma)$	k_{eq}	0.010343	$0.01035^{+0.00023}_{-0.00023} \quad (-0.6\sigma)$	$\chi_{DR12BAO}^2$	3.77	$4.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_m h^2$	0.14246	$0.1425^{+0.0032}_{-0.0032} \quad (-0.6\sigma)$	$100\theta_{eq}$	0.8155	$0.815^{+0.015}_{-0.014} \quad (+0.5\sigma)$	χ_{prior}^2	2.2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_m h^3$	0.09718	$0.0972^{+0.0039}_{-0.0039} \quad (-0.4\sigma)$	$100\theta_{s,eq}$	0.4506	$0.4504^{+0.0075}_{-0.0072} \quad (+0.5\sigma)$	χ_{BAO}^2	5.59	$6.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
σ_8	0.8155	$0.816^{+0.036}_{-0.037} \quad (-0.5\sigma)$	$H(0.15)$	73.60	$73.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{CMB}^2	11918.0	$11934.2 \quad (\nu: 16.6) \quad (+1588.7\sigma)$

Best-fit $\chi_{eff}^2 = 12960.67$; $\Delta\chi_{eff}^2 = 9155.21$; $\bar{\chi}_{eff}^2 = 12984.58$; $\Delta\bar{\chi}_{eff}^2 = 9151.08$; $R - 1 = 0.00938$
 χ_{eff}^2 : BAO - 6DF: 0.00 (Δ 0.00) MGS: 1.82 (Δ 0.00) DR12BAO: 3.77 (Δ -0.15) CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.76 (Δ -0.28) commander_dx12_v3_2_29: 22.92 (Δ -0.22) CamSpec like_10.7HM_1400_unified: 11499.35 SN - JLA Pantheon18: 1034.83 (Δ 0.00)

19.30 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00039}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1515^{+34}_{-33} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0028}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$90.0^{+1.3}_{-1.3} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04087^{+0.00080}_{-0.00078} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.989^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1965^{+40}_{-39} \quad (+0.2\sigma)$
τ	$0.053^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$H(0.61)$	$95.5^{+1.1}_{-1.1} \quad (-0.2\sigma)$
w_0	$-0.96^{+0.21}_{-0.20} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.444^{+0.061}_{-0.062} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2288^{+44}_{-43} \quad (+0.2\sigma)$
w_a	$-0.25^{+0.70}_{-0.86} \quad (+0.1\sigma)$	z_{re}	$7.5^{+1.9}_{-2.2} \quad (-0.1\sigma)$	$H(2.33)$	$235.1^{+2.5}_{-2.4} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.039}_{-0.039} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.088^{+0.083}_{-0.081} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+28}_{-28} \quad (+0.5\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.018}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0069}_{-0.0065} \quad (+0.0\sigma)$	D_{40}	$1226^{+30}_{-29} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.028}_{-0.028} \quad (-0.3\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5720^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.671^{+0.025}_{-0.025} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.023}_{-0.022} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.2^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.628^{+0.023}_{-0.023} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.023}_{-0.022} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	Y_{P}	$0.24536^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.597^{+0.022}_{-0.022} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.302^{+0.011}_{-0.012} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.600^{+0.071}_{-0.071} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3093^{+0.0093}_{-0.0093} \quad (-0.3\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.081}_{-0.077} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	z_*	$1089.98^{+0.62}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.9^{+5.0}_{-4.9} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$144.59^{+0.65}_{-0.65} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$100\theta_*$	$1.04106^{+0.00079}_{-0.00076} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.19 \quad (\nu: 0.3) \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.062}_{-0.061} \quad (+0.6\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.1) \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.73^{+0.81}_{-0.83} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.10 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.28^{+0.69}_{-0.68} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.0)$
c_{TE}	$0.997^{+0.013}_{-0.012}$	k_{D}	$0.14061^{+0.00081}_{-0.00083} \quad (-0.9\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.2) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00049}_{-0.00050} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$68.2^{+2.2}_{-2.1} \quad (-0.1\sigma)$	z_{eq}	$3391^{+64}_{-62} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.93 \quad (\nu: 0.2) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.020}_{-0.020} \quad (+0.0\sigma)$	k_{eq}	$0.01035^{+0.00020}_{-0.00019} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.7) \quad (-0.0\sigma)$
Ω_{m}	$0.306^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.012} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0027}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0061}_{-0.0060} \quad (+0.3\sigma)$	χ_{CMB}^2	$11942.9 \quad (\nu: 16.5) \quad (+1590.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0973^{+0.0036}_{-0.0036} \quad (-0.3\sigma)$	$H(0.15)$	$73.7^{+1.8}_{-1.8} \quad (-0.2\sigma)$	χ_{BAO}^2	$6.6 \quad (\nu: 1.1) \quad (-0.0\sigma)$
σ_8	$0.817^{+0.029}_{-0.029} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+16}_{-16} \quad (+0.2\sigma)$		
S_8	$0.826^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$H(0.38)$	$83.5^{+1.6}_{-1.6} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12993.26; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.09; R - 1 = 0.00901$$

19.31 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02230^{+0.00040}_{-0.00038} \quad (-0.5\sigma)$	S_8	$0.826^{+0.037}_{-0.038} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+17}_{-17} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1195^{+0.0033}_{-0.0033} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	$83.5^{+1.6}_{-1.6} \quad (-0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00081}_{-0.00080} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.025}_{-0.025} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1516^{+35}_{-34} \quad (+0.3\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.036}_{-0.037} \quad (-0.5\sigma)$	$H(0.51)$	$90.0^{+1.3}_{-1.4} \quad (-0.2\sigma)$
w_0	$-0.97^{+0.21}_{-0.20} \quad (-0.2\sigma)$	$r_{\mathrm{drag}}h$	$100.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1966^{+41}_{-40} \quad (+0.3\sigma)$
w_{a}	$-0.23^{+0.72}_{-0.91} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.445^{+0.082}_{-0.084} \quad (-0.6\sigma)$	$H(0.61)$	$95.5^{+1.1}_{-1.1} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.029} \quad (-0.4\sigma)$	z_{re}	$< 9.31 \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2289^{+45}_{-43} \quad (+0.3\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.088}_{-0.060} \quad (-0.4\sigma)$	$H(2.33)$	$235.2^{+2.5}_{-2.4} \quad (-0.1\sigma)$
y_{cal}	$1.0005^{+0.0067}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.029}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5759^{+29}_{-28} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{40}	$1225^{+32}_{-31} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.022}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5718^{+100}_{-99} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.033}_{-0.034} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{810}	$2535^{+35}_{-35} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.026}_{-0.025} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.671^{+0.030}_{-0.030} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.8\sigma)$	D_{2000}	$230.3^{+4.2}_{-4.1} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.027}_{-0.027} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$\sigma_8(0.51)$	$0.628^{+0.027}_{-0.028} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.24536^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.027}_{-0.027} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.597^{+0.026}_{-0.027} \quad (-0.5\sigma)$
A^{kSZ}	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.599^{+0.073}_{-0.072} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.302^{+0.013}_{-0.015} \quad (-0.5\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.772^{+0.087}_{-0.078} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.309^{+0.011}_{-0.011} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	z_*	$1089.97^{+0.67}_{-0.69} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	r_*	$144.60^{+0.77}_{-0.76} \quad (+0.8\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-4.9} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$100\theta_*$	$1.04108^{+0.00080}_{-0.00079} \quad (-0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.072}_{-0.070} \quad (+0.8\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.2) \quad (-0.2\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.74^{+0.84}_{-0.83} \quad (-0.7\sigma)$	χ_{lowl}^2	$23.06 \quad (\nu: 0.4) \quad (-0.5\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	r_{drag}	$147.29^{+0.78}_{-0.76} \quad (+0.9\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.2 \quad (\nu: 15.9)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14060^{+0.00088}_{-0.00088} \quad (-1.0\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.2) \quad (-0.0\sigma)$
H_0	$68.2^{+2.2}_{-2.1} \quad (-0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16087^{+0.00049}_{-0.00049} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{Λ}	$0.694^{+0.020}_{-0.020} \quad (+0.1\sigma)$	z_{eq}	$3390^{+75}_{-75} \quad (-0.6\sigma)$	χ_{MGS}^2	$1.90 \quad (\nu: 0.2) \quad (-0.1\sigma)$
Ω_{m}	$0.306^{+0.020}_{-0.020} \quad (-0.1\sigma)$	k_{eq}	$0.01035^{+0.00023}_{-0.00023} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.7) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1425^{+0.0031}_{-0.0032} \quad (-0.6\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0972^{+0.0039}_{-0.0039} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0074}_{-0.0071} \quad (+0.6\sigma)$	χ_{BAO}^2	$6.6 \quad (\nu: 1.1) \quad (-0.1\sigma)$
σ_8	$0.817^{+0.035}_{-0.037} \quad (-0.5\sigma)$	$H(0.15)$	$73.6^{+1.9}_{-1.8} \quad (-0.3\sigma)$	χ_{CMB}^2	$11933.9 \quad (\nu: 16.1) \quad (+1608.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 12984.26; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.99; R - 1 = 0.00880$$

19.32 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02230^{+0.00039}_{-0.00037} \quad (-0.6\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1516^{+34}_{-33} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0027}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$90.0^{+1.3}_{-1.3} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04088^{+0.00080}_{-0.00077} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1965^{+40}_{-39} \quad (+0.2\sigma)$
τ	$0.054^{+0.017}_{-0.012} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$100.5^{+3.3}_{-3.1} \quad (+0.0\sigma)$	$H(0.61)$	$95.5^{+1.1}_{-1.1} \quad (-0.2\sigma)$
w_0	$-0.97^{+0.21}_{-0.20} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.446^{+0.060}_{-0.061} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2289^{+44}_{-43} \quad (+0.2\sigma)$
w_{a}	$-0.24^{+0.69}_{-0.86} \quad (+0.1\sigma)$	z_{re}	$< 9.25 \quad (-0.1\sigma)$	$H(2.33)$	$235.1^{+2.5}_{-2.4} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.037}_{-0.027} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.079}_{-0.056} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+28}_{-28} \quad (+0.5\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.018}_{-0.017} \quad (-0.2\sigma)$
y_{cal}	$1.0005^{+0.0068}_{-0.0065} \quad (+0.0\sigma)$	D_{40}	$1226^{+30}_{-29} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.756^{+0.028}_{-0.028} \quad (-0.3\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5719^{+100}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+34}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.671^{+0.025}_{-0.025} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.478^{+0.022}_{-0.022} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.3^{+4.1}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.628^{+0.023}_{-0.023} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.64 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.474^{+0.023}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.32}$	Y_{P}	$0.24537^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.598^{+0.022}_{-0.022} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24669^{+0.00015}_{-0.00016} \quad (-0.6\sigma)$	$f\sigma_8(2.33)$	$0.302^{+0.011}_{-0.012} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.599^{+0.071}_{-0.070} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	$0.3096^{+0.0091}_{-0.0091} \quad (-0.3\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.770^{+0.081}_{-0.077} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.49}$	z_*	$1089.97^{+0.61}_{-0.62} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.9^{+5.0}_{-4.8} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$144.60^{+0.64}_{-0.64} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	$100\theta_*$	$1.04107^{+0.00079}_{-0.00076} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.16 \quad (\nu: 0.2) \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.061}_{-0.061} \quad (+0.6\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.1) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.74^{+0.80}_{-0.84} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.09 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0038} \quad (+4.7\sigma)$	r_{drag}	$147.29^{+0.68}_{-0.67} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.8 \quad (\nu: 14.9)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14060^{+0.00082}_{-0.00082} \quad (-0.9\sigma)$	χ_{JLA}^2	$1035.9 \quad (\nu: 1.2) \quad (+0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16086^{+0.00049}_{-0.00049} \quad (+0.7\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
H_0	$68.2^{+2.2}_{-2.1} \quad (-0.1\sigma)$	z_{eq}	$3390^{+62}_{-61} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.93 \quad (\nu: 0.2) \quad (-0.0\sigma)$
Ω_{Λ}	$0.694^{+0.020}_{-0.020} \quad (+0.0\sigma)$	k_{eq}	$0.01035^{+0.00019}_{-0.00019} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.7) \quad (-0.0\sigma)$
Ω_{m}	$0.306^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.011} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0060}_{-0.0059} \quad (+0.4\sigma)$	χ_{CMB}^2	$11942.7 \quad (\nu: 16.1) \quad (+1609.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0972^{+0.0036}_{-0.0035} \quad (-0.3\sigma)$	$H(0.15)$	$73.6^{+1.8}_{-1.8} \quad (-0.2\sigma)$	χ_{BAO}^2	$6.6 \quad (\nu: 1.1) \quad (-0.0\sigma)$
σ_8	$0.818^{+0.029}_{-0.029} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$635^{+16}_{-17} \quad (+0.2\sigma)$		
S_8	$0.826^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$H(0.38)$	$83.5^{+1.6}_{-1.6} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12993.01; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.08; R - 1 = 0.00841$$

19.33 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02216^{+0.00053}_{-0.00052}$	$\sigma_8/h^{0.5}$	1.0046	$1.004^{+0.048}_{-0.048}$	$H(0.51)$	89.93	$89.9^{+1.3}_{-1.3}$
$\Omega_c h^2$	0.12056	$0.1207^{+0.0046}_{-0.0047}$	$r_{\text{drag}} h$	102.01	$101.9^{+3.0}_{-2.9}$	$D_M(0.51)$	1952.1	1953^{+40}_{-40}
$100\theta_{\text{MC}}$	1.04082	$1.0408^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	2.471	$2.47^{+0.10}_{-0.11}$	$H(0.61)$	95.22	$95.2^{+1.2}_{-1.1}$
τ	0.0525	$0.052^{+0.022}_{-0.021}$	z_{re}	7.52	$7.5^{+2.1}_{-2.4}$	$D_M(0.61)$	2276.1	2277^{+43}_{-43}
w_0	-0.997	$-0.99^{+0.24}_{-0.21}$	$10^9 A_s$	2.094	$2.092^{+0.095}_{-0.092}$	$H(2.33)$	234.69	$234.8^{+2.4}_{-2.4}$
w_a	-0.32	$-0.37^{+0.83}_{-1.2}$	$10^9 A_s e^{-2\tau}$	1.8854	$1.885^{+0.033}_{-0.033}$	$D_M(2.33)$	5759.2	5762^{+32}_{-33}
$\ln(10^{10} A_s)$	3.0417	$3.041^{+0.045}_{-0.045}$	D_{40}	1230.5	1233^{+36}_{-36}	$f\sigma_8(0.15)$	0.4649	$0.465^{+0.029}_{-0.029}$
n_s	0.9639	$0.963^{+0.014}_{-0.013}$	D_{220}	5716	5716^{+100}_{-100}	$\sigma_8(0.15)$	0.7741	$0.774^{+0.041}_{-0.041}$
y_{cal}	1.0006	$1.0004^{+0.0064}_{-0.0063}$	D_{810}	2538.8	2537^{+36}_{-35}	$f\sigma_8(0.38)$	0.4903	$0.490^{+0.033}_{-0.033}$
A_{217}^{CIB}	49.1	48^{+20}_{-20}	D_{1420}	815.9	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6869	$0.686^{+0.036}_{-0.036}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.24	—	D_{2000}	230.28	$229.8^{+4.6}_{-4.5}$	$f\sigma_8(0.51)$	0.4919	$0.492^{+0.035}_{-0.034}$
A_{143}^{tSZ}	7.1	—	$n_{\text{s},0.002}$	0.9639	$0.963^{+0.014}_{-0.013}$	$\sigma_8(0.51)$	0.6428	$0.642^{+0.033}_{-0.033}$
A_{100}^{PS}	254	262^{+70}_{-70}	Y_{P}	0.245318	$0.24530^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	0.4884	$0.489^{+0.036}_{-0.034}$
A_{143}^{PS}	47.5	49^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.246644	$0.24663^{+0.00021}_{-0.00025}$	$\sigma_8(0.61)$	0.6115	$0.611^{+0.031}_{-0.031}$
$A_{143 \times 217}^{\text{PS}}$	44.6	43^{+20}_{-20}	10^5D/H	2.622	$2.63^{+0.10}_{-0.098}$	$f\sigma_8(2.33)$	0.3089	$0.309^{+0.015}_{-0.016}$
A_{217}^{PS}	118.2	115^{+30}_{-30}	Age/Gyr	13.751	$13.754^{+0.089}_{-0.084}$	$\sigma_8(2.33)$	0.3151	$0.315^{+0.012}_{-0.012}$
A^{kSZ}	0.0	—	z_*	1090.21	$1090.25^{+0.92}_{-0.93}$	f_{2000}^{143}	30.1	31^{+7}_{-7}
A_{100}^{dustTT}	8.87	$8.9^{+4.7}_{-4.7}$	r_*	144.43	$144.4^{+1.1}_{-1.1}$	$f_{2000}^{143 \times 217}$	33.0	33^{+5}_{-5}
A_{143}^{dustTT}	10.74	$10.7^{+4.6}_{-4.5}$	$100\theta_*$	1.04103	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{217}	107.56	$107.9^{+4.8}_{-4.8}$
$A_{143 \times 217}^{\text{dustTT}}$	19.3	$18.2^{+8.5}_{-8.6}$	$D_M(z_*)/\text{Gpc}$	13.874	$13.87^{+0.11}_{-0.10}$	χ_{small}^2	395.86	$396.9 (\nu: 1.4)$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ_{lowl}^2	23.38	$23.7 (\nu: 0.6)$
c_{100}	0.99967	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	147.15	$147.2^{+1.2}_{-1.1}$	χ_{plik}^2	757.9	$770.5 (\nu: 14.2)$
c_{217}	0.99827	$0.9983^{+0.0016}_{-0.0016}$	k_{D}	0.14065	$0.1406^{+0.0013}_{-0.0013}$	χ_{H073p45}^2	6.2	$6.6 (\nu: 2.8)$
H_0	69.32	$69.3^{+2.0}_{-2.0}$	$100\theta_{\text{D}}$	0.16099	$0.16102^{+0.00065}_{-0.00065}$	χ_{JLA}^2	1035.41	$1036.3 (\nu: 1.5)$
Ω_{Λ}	0.7016	$0.701^{+0.019}_{-0.020}$	z_{eq}	3411	3413^{+110}_{-110}	$\chi_{6\text{DF}}^2$	0.096	$0.14 (\nu: 0.0)$
Ω_{m}	0.2984	$0.299^{+0.020}_{-0.019}$	k_{eq}	0.010411	$0.01042^{+0.00032}_{-0.00033}$	χ_{MGS}^2	2.67	$2.71 (\nu: 0.3)$
$\Omega_{\text{m}} h^2$	0.14338	$0.1435^{+0.0044}_{-0.0046}$	$100\theta_{\text{eq}}$	0.8111	$0.811^{+0.021}_{-0.019}$	χ_{DR12BAO}^2	4.61	$5.5 (\nu: 1.1)$
$\Omega_{\text{m}} h^3$	0.09939	$0.0994^{+0.0042}_{-0.0043}$	$100\theta_{\text{s,eq}}$	0.4484	$0.448^{+0.011}_{-0.0098}$	χ_{prior}^2	1.4	$7.2 (\nu: 6.7)$
σ_8	0.8364	$0.836^{+0.044}_{-0.044}$	$H(0.15)$	74.34	$74.3^{+2.0}_{-1.8}$	χ_{BAO}^2	7.4	$8.4 (\nu: 2.2)$
S_8	0.834	$0.835^{+0.051}_{-0.051}$	$D_M(0.15)$	626.8	627^{+16}_{-16}	χ_{CMB}^2	1177.2	$1191.1 (\nu: 14.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4569	$0.457^{+0.028}_{-0.028}$	$H(0.38)$	83.67	$83.7^{+1.6}_{-1.6}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6182	$0.618^{+0.033}_{-0.034}$	$D_M(0.38)$	1502.6	1503^{+34}_{-34}			

Best-fit $\chi_{\text{eff}}^2 = 2227.58$; $\bar{\chi}_{\text{eff}}^2 = 2249.60$; $R - 1 = 0.00852$
 χ_{eff}^2 : BAO - 6DF: 0.10 MGS: 2.67 DR12BAO: 4.61 CMB - small-100x143.offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2.29: 23.38 plik_rd12_HM_v22.TT: 757.93
Hubble - H073p45: 6.19 SN - JLA Pantheon18: 1035.41

19.34 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02221	$0.02219^{+0.00051}_{-0.00051}$	$\sigma_8 \Omega_m^{0.25}$	0.6128	$0.613^{+0.022}_{-0.022}$	$H(0.38)$	83.61	$83.6^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.12003	$0.1200^{+0.0035}_{-0.0035}$	$\sigma_8/h^{0.5}$	0.9968	$0.997^{+0.031}_{-0.031}$	$D_M(0.38)$	1504.9	1504^{+33}_{-34}
$100\theta_{MC}$	1.04090	$1.0409^{+0.0011}_{-0.0011}$	$r_{drag} h$	101.92	$102.0^{+3.0}_{-2.9}$	$H(0.51)$	89.93	$89.9^{+1.3}_{-1.3}$
τ	0.0510	$0.052^{+0.022}_{-0.021}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.458^{+0.068}_{-0.067}$	$D_M(0.51)$	1954.5	1954^{+39}_{-40}
w_0	-1.004	$-0.998^{+0.22}_{-0.20}$	z_{re}	7.36	$7.4^{+2.1}_{-2.3}$	$H(0.61)$	95.27	$95.2^{+1.1}_{-1.1}$
w_a	-0.25	$-0.29^{+0.73}_{-0.95}$	$10^9 A_s$	2.084	$2.086^{+0.087}_{-0.083}$	$D_M(0.61)$	2278.5	2278^{+42}_{-44}
$\ln(10^{10} A_s)$	3.0368	$3.038^{+0.041}_{-0.040}$	$10^9 A_s e^{-2\tau}$	1.8818	$1.882^{+0.028}_{-0.029}$	$H(2.33)$	234.72	$234.6^{+2.5}_{-2.5}$
n_s	0.9648	$0.964^{+0.011}_{-0.011}$	D_{40}	1227.4	1230^{+31}_{-31}	$D_M(2.33)$	5758.2	5760^{+32}_{-33}
y_{cal}	1.0003	$1.0004^{+0.0066}_{-0.0065}$	D_{220}	5716	5719^{+100}_{-110}	$f\sigma_8(0.15)$	0.4608	$0.461^{+0.020}_{-0.020}$
A_{217}^{CIB}	49.1	48^{+20}_{-20}	D_{810}	2536.6	2536^{+35}_{-34}	$\sigma_8(0.15)$	0.7674	$0.768^{+0.029}_{-0.029}$
$\xi^{tSZ \times CIB}$	0.24	—	D_{1420}	815.5	815^{+13}_{-13}	$f\sigma_8(0.38)$	0.4854	$0.486^{+0.024}_{-0.024}$
A_{143}^{tSZ}	7.2	—	D_{2000}	230.10	$229.8^{+4.4}_{-4.6}$	$\sigma_8(0.38)$	0.6811	$0.682^{+0.026}_{-0.026}$
A_{100}^{PS}	254	263^{+70}_{-70}	$n_{s,0.002}$	0.9648	$0.964^{+0.011}_{-0.011}$	$f\sigma_8(0.51)$	0.4867	$0.487^{+0.025}_{-0.024}$
A_{143}^{PS}	47.8	49^{+20}_{-20}	Y_P	0.245330	$0.24532^{+0.00020}_{-0.00024}$	$\sigma_8(0.51)$	0.6375	$0.638^{+0.024}_{-0.024}$
$A_{143 \times 217}^{PS}$	44.7	43^{+20}_{-20}	Y_P^{BBN}	0.246656	$0.24664^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	0.4831	$0.484^{+0.025}_{-0.024}$
A_{217}^{PS}	118.5	115^{+30}_{-30}	$10^5 D/H$	2.616	$2.620^{+0.098}_{-0.093}$	$\sigma_8(0.61)$	0.6065	$0.607^{+0.023}_{-0.023}$
A^{kSZ}	0.0	—	Age/Gyr	13.755	$13.756^{+0.086}_{-0.084}$	$f\sigma_8(2.33)$	0.3064	$0.307^{+0.011}_{-0.012}$
A_{100}^{dustTT}	8.87	$8.9^{+4.8}_{-4.8}$	z_*	1090.13	$1090.15^{+0.82}_{-0.80}$	$\sigma_8(2.33)$	0.3131	$0.3133^{+0.0093}_{-0.0091}$
A_{143}^{dustTT}	10.78	$10.7^{+4.6}_{-4.3}$	r_*	144.55	$144.56^{+0.87}_{-0.84}$	$\chi^2_{lensing}$	8.75	$9.35 (\nu: 0.5)$
$A_{143 \times 217}^{dustTT}$	19.4	$18.2^{+8.4}_{-8.6}$	$100\theta_*$	1.04110	$1.0411^{+0.0011}_{-0.0011}$	χ^2_{small}	395.69	$396.8 (\nu: 1.1)$
A_{217}^{dustTT}	94.5	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.884	$13.886^{+0.081}_{-0.081}$	χ^2_{lowl}	23.16	$23.41 (\nu: 0.4)$
c_{100}	0.99964	$0.9996^{+0.0016}_{-0.0016}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$	χ^2_{plik}	758.5	$770.6 (\nu: 13.4)$
c_{217}	0.99826	$0.9983^{+0.0016}_{-0.0016}$	r_{drag}	147.26	$147.29^{+0.90}_{-0.89}$	$\chi^2_{H073p45}$	6.5	$6.6 (\nu: 2.8)$
H_0	69.21	$69.2^{+2.0}_{-1.9}$	k_D	0.14056	$0.1405^{+0.0011}_{-0.0011}$	χ^2_{JLA}	1035.26	$1036.2 (\nu: 1.5)$
Ω_Λ	0.7017	$0.702^{+0.018}_{-0.019}$	$100\theta_D$	0.16098	$0.16100^{+0.00064}_{-0.00065}$	χ^2_{6DF}	0.081	$0.14 (\nu: 0.0)$
Ω_m	0.2983	$0.298^{+0.019}_{-0.018}$	z_{eq}	3399	3399^{+80}_{-80}	χ^2_{MGS}	2.59	$2.72 (\nu: 0.3)$
$\Omega_m h^2$	0.14289	$0.1429^{+0.0033}_{-0.0034}$	k_{eq}	0.010375	$0.01037^{+0.00024}_{-0.00024}$	$\chi^2_{DR12BAO}$	4.37	$5.3 (\nu: 1.0)$
$\Omega_m h^3$	0.09889	$0.0989^{+0.0037}_{-0.0038}$	$100\theta_{eq}$	0.8134	$0.813^{+0.015}_{-0.015}$	χ^2_{prior}	1.5	$7.2 (\nu: 6.8)$
σ_8	0.8292	$0.830^{+0.031}_{-0.031}$	$100\theta_{s,eq}$	0.4495	$0.4496^{+0.0079}_{-0.0075}$	χ^2_{CMB}	1186.1	$1200.1 (\nu: 14.6)$
S_8	0.8269	$0.827^{+0.034}_{-0.033}$	$H(0.15)$	74.21	$74.3^{+1.9}_{-1.7}$	χ^2_{BAO}	7.0	$8.2 (\nu: 2.2)$
$\sigma_8 \Omega_m^{0.5}$	0.4529	$0.453^{+0.018}_{-0.018}$	$D_M(0.15)$	627.9	628^{+16}_{-16}			

Best-fit $\chi^2_{eff} = 2236.45$; $\bar{\chi}^2_{eff} = 2258.39$; $R - 1 = 0.00927$

χ^2_{eff} : BAO - 6DF: 0.08 MGS: 2.59 DR12BAO: 4.37 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.75 small_100x143.offlike5_EE_Aplanck_B: 395.69 commander_dx12.v3.2.29: 23.16 plik_rd12_HM.v22_TT: 758.52 Hubble - H073p45: 6.52 SN - JLA Pantheon18: 1035.26

19.35 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02216^{+0.00053}_{-0.00052}$	$\sigma_8/h^{0.5}$	$1.006^{+0.048}_{-0.048}$	$H(0.51)$	$89.9^{+1.3}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1206^{+0.0046}_{-0.0047}$	$r_{\mathrm{drag}}h$	$101.9^{+3.0}_{-3.0}$	$D_{\mathrm{M}}(0.51)$	1953^{+40}_{-41}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0011}_{-0.0012}$	$\langle d^2 \rangle^{1/2}$	$2.48^{+0.10}_{-0.11}$	$H(0.61)$	$95.2^{+1.2}_{-1.1}$
τ	$0.054^{+0.019}_{-0.012}$	z_{re}	< 9.43	$D_{\mathrm{M}}(0.61)$	2277^{+43}_{-44}
w_0	$-0.99^{+0.24}_{-0.20}$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.090}_{-0.061}$	$H(2.33)$	$234.8^{+2.4}_{-2.4}$
w_a	$-0.37^{+0.82}_{-1.2}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.034}_{-0.033}$	$D_{\mathrm{M}}(2.33)$	5761^{+32}_{-33}
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.042}_{-0.029}$	D_{40}	1233^{+36}_{-36}	$f\sigma_8(0.15)$	$0.465^{+0.029}_{-0.028}$
n_{s}	$0.963^{+0.014}_{-0.013}$	D_{220}	5716^{+100}_{-110}	$\sigma_8(0.15)$	$0.774^{+0.040}_{-0.040}$
y_{cal}	$1.0004^{+0.0066}_{-0.0062}$	D_{810}	2537^{+36}_{-35}	$f\sigma_8(0.38)$	$0.491^{+0.033}_{-0.032}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+14}_{-13}	$\sigma_8(0.38)$	$0.687^{+0.036}_{-0.035}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.8^{+4.7}_{-4.5}$	$f\sigma_8(0.51)$	$0.492^{+0.035}_{-0.033}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.963^{+0.014}_{-0.013}$	$\sigma_8(0.51)$	$0.643^{+0.033}_{-0.032}$
A_{100}^{PS}	262^{+70}_{-70}	Y_{P}	$0.24531^{+0.00021}_{-0.00025}$	$f\sigma_8(0.61)$	$0.489^{+0.036}_{-0.034}$
A_{143}^{PS}	49^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24663^{+0.00021}_{-0.00025}$	$\sigma_8(0.61)$	$0.612^{+0.031}_{-0.030}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.63^{+0.10}_{-0.098}$	$f\sigma_8(2.33)$	$0.309^{+0.015}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	$\mathrm{Age}/\mathrm{Gyr}$	$13.754^{+0.090}_{-0.084}$	$\sigma_8(2.33)$	$0.315^{+0.012}_{-0.012}$
A^{kSZ}	—	z_*	$1090.24^{+0.92}_{-0.93}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.7}$	r_*	$144.4^{+1.1}_{-1.0}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.5}$	$100\theta_*$	$1.0410^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$107.9^{+4.8}_{-4.9}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.6}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.87^{+0.11}_{-0.099}$	χ_{simall}^2	$396.8 (\nu: 1.4)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{lowl}^2	$23.7 (\nu: 0.6)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.2^{+1.1}_{-1.1}$	χ_{plik}^2	$770.3 (\nu: 14.2)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1406^{+0.0013}_{-0.0013}$	$\chi_{\mathrm{H073p45}}^2$	$6.6 (\nu: 2.8)$
H_0	$69.3^{+2.0}_{-2.0}$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00066}_{-0.00065}$	χ_{JLA}^2	$1036.3 (\nu: 1.5)$
Ω_{Λ}	$0.701^{+0.018}_{-0.020}$	z_{eq}	3412^{+110}_{-110}	$\chi_{6\mathrm{DF}}^2$	$0.14 (\nu: 0.0)$
Ω_{m}	$0.299^{+0.020}_{-0.018}$	k_{eq}	$0.01041^{+0.00032}_{-0.00033}$	χ_{MGS}^2	$2.71 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1434^{+0.0045}_{-0.0045}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.020}_{-0.019}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.5 (\nu: 1.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0993^{+0.0043}_{-0.0043}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.011}_{-0.0098}$	χ_{prior}^2	$7.2 (\nu: 6.7)$
σ_8	$0.837^{+0.043}_{-0.044}$	$H(0.15)$	$74.3^{+2.0}_{-1.8}$	χ_{BAO}^2	$8.3 (\nu: 2.3)$
S_8	$0.835^{+0.051}_{-0.051}$	$D_{\mathrm{M}}(0.15)$	627^{+16}_{-16}	χ_{CMB}^2	$1190.8 (\nu: 14.6)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.458^{+0.028}_{-0.028}$	$H(0.38)$	$83.7^{+1.7}_{-1.6}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.619^{+0.034}_{-0.034}$	$D_{\mathrm{M}}(0.38)$	1503^{+34}_{-35}		

$\bar{\chi}_{\mathrm{eff}}^2 = 2249.33$; $R - 1 = 0.01064$

19.36 base_w_wa_plikHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02220^{+0.00052}_{-0.00051}$	$\sigma_8/h^{0.5}$	$0.998^{+0.031}_{-0.031}$	$H(0.51)$	$89.9^{+1.3}_{-1.3}$
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0033}_{-0.0034}$	$r_{\mathrm{drag}}h$	$102.0^{+2.9}_{-2.9}$	$D_{\mathrm{M}}(0.51)$	1954^{+39}_{-41}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.459^{+0.068}_{-0.067}$	$H(0.61)$	$95.2^{+1.1}_{-1.1}$
τ	$0.053^{+0.018}_{-0.012}$	z_{re}	< 9.29	$D_{\mathrm{M}}(0.61)$	2278^{+42}_{-44}
w_0	$-1.00^{+0.22}_{-0.20}$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.083}_{-0.053}$	$H(2.33)$	$234.6^{+2.5}_{-2.5}$
w_a	$-0.27^{+0.72}_{-0.94}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.881^{+0.028}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5759^{+32}_{-33}
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.039}_{-0.026}$	D_{40}	1229^{+31}_{-31}	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020}$
n_{s}	$0.964^{+0.011}_{-0.011}$	D_{220}	5718^{+100}_{-110}	$\sigma_8(0.15)$	$0.768^{+0.029}_{-0.029}$
y_{cal}	$1.0003^{+0.0067}_{-0.0065}$	D_{810}	2535^{+35}_{-34}	$f\sigma_8(0.38)$	$0.486^{+0.024}_{-0.024}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.682^{+0.026}_{-0.026}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{2000}	$229.8^{+4.4}_{-4.6}$	$f\sigma_8(0.51)$	$0.487^{+0.025}_{-0.024}$
A_{143}^{tSZ}	—	$n_{\mathrm{s},0.002}$	$0.964^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.638^{+0.024}_{-0.024}$
A_{100}^{PS}	263^{+70}_{-70}	Y_{P}	$0.24532^{+0.00020}_{-0.00024}$	$f\sigma_8(0.61)$	$0.484^{+0.025}_{-0.025}$
A_{143}^{PS}	48^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00020}_{-0.00024}$	$\sigma_8(0.61)$	$0.607^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$10^5 \mathrm{D}/\mathrm{H}$	$2.619^{+0.099}_{-0.094}$	$f\sigma_8(2.33)$	$0.307^{+0.011}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.757^{+0.086}_{-0.085}$	$\sigma_8(2.33)$	$0.3136^{+0.0092}_{-0.0090}$
A^{kSZ}	—	z_*	$1090.13^{+0.83}_{-0.81}$	f_{2000}^{143}	31^{+7}_{-7}
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.8}_{-4.8}$	r_*	$144.59^{+0.85}_{-0.83}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.3}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$	f_{2000}^{217}	$107.9^{+4.8}_{-4.8}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.4}_{-8.5}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.081}_{-0.079}$	$\chi_{\mathrm{lensing}}^2$	$9.3 (\nu: 0.5)$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.5^{+1.1}_{-1.1}$	χ_{simall}^2	$396.6 (\nu: 1.1)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.31^{+0.90}_{-0.89}$	χ_{lowl}^2	$23.38 (\nu: 0.4)$
c_{217}	$0.9983^{+0.0016}_{-0.0015}$	k_{D}	$0.1405^{+0.0011}_{-0.0011}$	χ_{plik}^2	$770.5 (\nu: 13.4)$
H_0	$69.2^{+2.0}_{-1.9}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00065}_{-0.00065}$	$\chi_{\mathrm{H073p45}}^2$	$6.6 (\nu: 2.8)$
Ω_{Λ}	$0.702^{+0.017}_{-0.019}$	z_{eq}	3396^{+76}_{-78}	χ_{JLA}^2	$1036.2 (\nu: 1.4)$
Ω_{m}	$0.298^{+0.019}_{-0.017}$	k_{eq}	$0.01036^{+0.00023}_{-0.00024}$	$\chi_{6\mathrm{DF}}^2$	$0.14 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1427^{+0.0032}_{-0.0033}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.015}_{-0.014}$	χ_{MGS}^2	$2.72 (\nu: 0.3)$
$\Omega_{\mathrm{m}}h^3$	$0.0988^{+0.0037}_{-0.0037}$	$100\theta_{\mathrm{s,eq}}$	$0.4499^{+0.0077}_{-0.0072}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.3 (\nu: 1.0)$
σ_8	$0.830^{+0.031}_{-0.031}$	$H(0.15)$	$74.2^{+1.9}_{-1.7}$	χ_{prior}^2	$7.2 (\nu: 6.8)$
S_8	$0.827^{+0.034}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	628^{+16}_{-16}	χ_{CMB}^2	$1199.9 (\nu: 14.4)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.018}$	$H(0.38)$	$83.6^{+1.6}_{-1.6}$	χ_{BAO}^2	$8.1 (\nu: 2.2)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.613^{+0.022}_{-0.022}$	$D_{\mathrm{M}}(0.38)$	1504^{+32}_{-34}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2258.12; R - 1 = 0.01181$$

19.37 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022393	$0.02237^{+0.00039}_{-0.00037}$	σ_8	0.8335	$0.833^{+0.034}_{-0.035}$	$H(0.38)$	83.78	$83.8^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.12021	$0.1203^{+0.0032}_{-0.0033}$	S_8	0.8297	$0.831^{+0.036}_{-0.037}$	$D_M(0.38)$	1501.0	1501^{+32}_{-34}
$100\theta_{MC}$	1.04092	$1.04092^{+0.00082}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	0.4545	$0.455^{+0.020}_{-0.020}$	$H(0.51)$	90.08	$90.1^{+1.3}_{-1.3}$
τ	0.0538	$0.054^{+0.022}_{-0.020}$	$\sigma_8 \Omega_m^{0.25}$	0.6155	$0.616^{+0.025}_{-0.025}$	$D_M(0.51)$	1949.8	1950^{+39}_{-40}
w_0	-1.003	$-0.99^{+0.21}_{-0.20}$	$\sigma_8/h^{0.5}$	1.0004	$1.001^{+0.036}_{-0.037}$	$H(0.61)$	95.41	$95.4^{+1.0}_{-0.98}$
w_a	-0.26	$-0.32^{+0.75}_{-0.96}$	$r_{\text{drag}} h$	102.05	$102.0^{+2.9}_{-2.8}$	$D_M(0.61)$	2273.3	2273^{+42}_{-43}
$\ln(10^{10} A_s)$	3.0444	$3.044^{+0.044}_{-0.041}$	$\langle d^2 \rangle^{1/2}$	2.464	$2.466^{+0.079}_{-0.082}$	$H(2.33)$	234.92	$234.9^{+2.4}_{-2.3}$
n_s	0.9655	$0.965^{+0.011}_{-0.011}$	z_{re}	7.61	$7.6^{+2.1}_{-2.2}$	$D_M(2.33)$	5749.8	5751^{+26}_{-25}
y_{cal}	1.0007	$1.0006^{+0.0062}_{-0.0063}$	$10^9 A_s$	2.100	$2.100^{+0.094}_{-0.085}$	$f\sigma_8(0.15)$	0.4625	$0.462^{+0.021}_{-0.021}$
A_{217}^{CIB}	47.2	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	1.8856	$1.885^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	0.7715	$0.771^{+0.033}_{-0.033}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.41	—	D_{40}	1230.0	1231^{+32}_{-31}	$f\sigma_8(0.38)$	0.4877	$0.488^{+0.025}_{-0.025}$
A_{143}^{tSZ}	7.22	$5.5^{+4.4}_{-4.6}$	D_{220}	5736	5733^{+100}_{-95}	$\sigma_8(0.38)$	0.6848	$0.685^{+0.029}_{-0.029}$
A_{100}^{PS}	249	258^{+70}_{-70}	D_{810}	2541.9	2540^{+34}_{-34}	$f\sigma_8(0.51)$	0.4891	$0.489^{+0.027}_{-0.026}$
A_{143}^{PS}	46.9	46^{+20}_{-20}	D_{1420}	818.4	817^{+12}_{-12}	$\sigma_8(0.51)$	0.6409	$0.641^{+0.027}_{-0.027}$
$A_{143 \times 217}^{\text{PS}}$	47.0	43^{+20}_{-20}	D_{2000}	231.40	$231.0^{+4.0}_{-4.0}$	$f\sigma_8(0.61)$	0.4857	$0.486^{+0.027}_{-0.026}$
A_{217}^{PS}	119.7	115^{+30}_{-30}	$n_{s,0.002}$	0.9655	$0.965^{+0.011}_{-0.011}$	$\sigma_8(0.61)$	0.6098	$0.610^{+0.025}_{-0.025}$
A^{kSZ}	0.0	—	Y_P	0.245405	$0.24539^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.3081	$0.308^{+0.013}_{-0.013}$
A_{100}^{dustTT}	8.81	$8.9^{+4.7}_{-4.6}$	Y_P^{BBN}	0.246731	$0.24672^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	0.3148	$0.315^{+0.010}_{-0.010}$
A_{143}^{dustTT}	10.94	$10.9^{+4.5}_{-4.6}$	$10^5 D/H$	2.581	$2.587^{+0.070}_{-0.069}$	f_{2000}^{143}	28.7	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.7	$18.6^{+8.4}_{-8.4}$	Age/Gyr	13.734	$13.735^{+0.077}_{-0.073}$	$f_{2000}^{143 \times 217}$	31.90	32^{+5}_{-5}
A_{217}^{dustTT}	94.8	94^{+20}_{-20}	z_*	1089.91	$1089.95^{+0.65}_{-0.67}$	f_{2000}^{217}	106.65	$106.9^{+4.6}_{-4.5}$
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.096}$	r_*	144.36	$144.36^{+0.74}_{-0.72}$	χ_{simall}^2	395.99	$397.0 (\nu: 1.7)$
$A_{100 \times 143}^{\text{dustTE}}$	0.134	$0.135^{+0.075}_{-0.075}$	$100\theta_*$	1.04110	$1.04110^{+0.00082}_{-0.00078}$	χ_{lowl}^2	23.21	$23.42 (\nu: 0.4)$
$A_{100 \times 217}^{\text{dustTE}}$	0.480	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	13.866	$13.866^{+0.068}_{-0.067}$	χ_{plik}^2	2343.7	$2358.6 (\nu: 16.4)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	z_{drag}	1060.01	$1059.95^{+0.79}_{-0.78}$	χ_{H073p45}^2	5.9	$6.3 (\nu: 2.6)$
$A_{143 \times 217}^{\text{dustTE}}$	0.665	$0.67^{+0.21}_{-0.21}$	r_{drag}	147.01	$147.02^{+0.73}_{-0.72}$	χ_{JLA}^2	1035.39	$1036.2 (\nu: 1.3)$
A_{217}^{dustTE}	2.07	$2.09^{+0.68}_{-0.69}$	k_D	0.14097	$0.14094^{+0.00081}_{-0.00081}$	$\chi_{6\text{DF}}^2$	0.097	$0.14 (\nu: 0.0)$
c_{100}	0.99971	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	0.160719	$0.16076^{+0.00045}_{-0.00044}$	χ_{MGS}^2	2.67	$2.73 (\nu: 0.3)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3408	3409^{+73}_{-75}	χ_{DR12BAO}^2	4.50	$5.3 (\nu: 1.1)$
H_0	69.42	$69.3^{+1.9}_{-1.9}$	k_{eq}	0.010401	$0.01040^{+0.00022}_{-0.00023}$	χ_{prior}^2	1.7	$11.5 (\nu: 10.1)$
Ω_Λ	0.7027	$0.702^{+0.017}_{-0.018}$	$100\theta_{\text{eq}}$	0.8124	$0.812^{+0.014}_{-0.013}$	χ_{BAO}^2	7.3	$8.2 (\nu: 2.3)$
Ω_m	0.2973	$0.298^{+0.018}_{-0.017}$	$100\theta_{s,\text{eq}}$	0.4489	$0.4488^{+0.0074}_{-0.0069}$	χ_{CMB}^2	2762.9	$2779.1 (\nu: 16.7)$
$\Omega_m h^2$	0.14325	$0.1433^{+0.0030}_{-0.0031}$	$H(0.15)$	74.41	$74.4^{+1.9}_{-1.7}$			
$\Omega_m h^3$	0.09944	$0.0994^{+0.0035}_{-0.0036}$	$D_M(0.15)$	626.1	626^{+15}_{-16}			

Best-fit $\chi_{\text{eff}}^2 = 3813.17$; $\bar{\chi}_{\text{eff}}^2 = 3841.27$; $R - 1 = 0.00757$
 χ_{eff}^2 : BAO - 6DF: 0.10 MGS: 2.67 DR12BAO: 4.50 CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.99 commander_dx12_v3_2_29: 23.21 plik_rd12_HM_v22b_TTTEEE: 2343.68 Hubble - H073p45: 5.90 SN - JLA Pantheon18: 1035.39

19.38 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022407	$0.02239^{+0.00037}_{-0.00036}$	$\Omega_m h^3$	0.09912	$0.0991^{+0.0033}_{-0.0033}$	$H(0.15)$	74.39	$74.4^{+1.9}_{-1.7}$
$\Omega_c h^2$	0.11988	$0.1199^{+0.0028}_{-0.0028}$	σ_8	0.8298	$0.830^{+0.028}_{-0.028}$	$D_M(0.15)$	626.5	627^{+15}_{-15}
$100\theta_{MC}$	1.04093	$1.04094^{+0.00081}_{-0.00077}$	S_8	0.8259	$0.826^{+0.028}_{-0.028}$	$H(0.38)$	83.82	$83.8^{+1.6}_{-1.5}$
τ	0.0531	$0.053^{+0.021}_{-0.019}$	$\sigma_8 \Omega_m^{0.5}$	0.4523	$0.452^{+0.015}_{-0.015}$	$D_M(0.38)$	1501.2	1502^{+32}_{-34}
w_0	-0.998	$-0.996^{+0.21}_{-0.19}$	$\sigma_8 \Omega_m^{0.25}$	0.6126	$0.613^{+0.019}_{-0.018}$	$H(0.51)$	90.14	$90.1^{+1.3}_{-1.3}$
w_a	-0.26	$-0.28^{+0.70}_{-0.87}$	$\sigma_8/h^{0.5}$	0.9964	$0.996^{+0.027}_{-0.026}$	$D_M(0.51)$	1949.8	1950^{+37}_{-40}
$\ln(10^{10} A_s)$	3.0421	$3.042^{+0.040}_{-0.038}$	$r_{\text{drag}} h$	102.00	$102.0^{+3.0}_{-2.8}$	$H(0.61)$	95.47	$95.4^{+1.1}_{-1.0}$
n_s	0.9663	$0.965^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	2.455	$2.457^{+0.060}_{-0.062}$	$D_M(0.61)$	2273.0	2274^{+40}_{-43}
y_{cal}	1.0005	$1.0005^{+0.0061}_{-0.0060}$	z_{re}	7.53	$7.5^{+2.0}_{-2.1}$	$H(2.33)$	234.82	$234.9^{+2.4}_{-2.4}$
A_{217}^{CIB}	45.9	47^{+20}_{-20}	$10^9 A_s$	2.095	$2.094^{+0.086}_{-0.079}$	$D_M(2.33)$	5748.8	5750^{+26}_{-25}
$\xi^{\text{tSZ} \times \text{CIB}}$	0.65	—	$10^9 A_s e^{-2\tau}$	1.8840	$1.883^{+0.027}_{-0.026}$	$f\sigma_8(0.15)$	0.4599	$0.460^{+0.017}_{-0.017}$
A_{143}^{tSZ}	7.05	$5.5^{+4.4}_{-4.6}$	D_{40}	1227.6	1229^{+29}_{-28}	$\sigma_8(0.15)$	0.7681	$0.768^{+0.026}_{-0.026}$
A_{100}^{PS}	248	259^{+70}_{-70}	D_{220}	5735	5734^{+100}_{-93}	$f\sigma_8(0.38)$	0.4847	$0.485^{+0.020}_{-0.020}$
A_{143}^{PS}	50.8	46^{+20}_{-20}	D_{810}	2541.5	2539^{+33}_{-33}	$\sigma_8(0.38)$	0.6819	$0.682^{+0.023}_{-0.023}$
$A_{143 \times 217}^{\text{PS}}$	53.1	42^{+20}_{-20}	D_{1420}	818.6	817^{+12}_{-12}	$f\sigma_8(0.51)$	0.4861	$0.486^{+0.021}_{-0.021}$
A_{217}^{PS}	122.0	115^{+30}_{-30}	D_{2000}	231.44	$230.9^{+4.0}_{-4.0}$	$\sigma_8(0.51)$	0.6383	$0.638^{+0.022}_{-0.022}$
A^{kSZ}	0.0	—	$n_{s,0.002}$	0.9663	$0.965^{+0.010}_{-0.010}$	$f\sigma_8(0.61)$	0.4827	$0.483^{+0.021}_{-0.021}$
A_{100}^{dustTT}	8.88	$8.9^{+4.5}_{-4.6}$	Y_P	0.245410	$0.24540^{+0.00014}_{-0.00015}$	$\sigma_8(0.61)$	0.6073	$0.607^{+0.021}_{-0.021}$
A_{143}^{dustTT}	11.01	$10.9^{+4.5}_{-4.5}$	Y_P^{BBN}	0.246737	$0.24673^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	0.3070	$0.307^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\text{dustTT}}$	20.1	$18.6^{+8.3}_{-8.2}$	$10^5 D/H$	2.579	$2.583^{+0.069}_{-0.065}$	$\sigma_8(2.33)$	0.3138	$0.3136^{+0.0089}_{-0.0087}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	Age/Gyr	13.734	$13.737^{+0.076}_{-0.073}$	χ^2_{lensing}	8.77	$9.20 (\nu: 0.3)$
A_{100}^{dustTE}	0.115	$0.114^{+0.10}_{-0.096}$	z_*	1089.86	$1089.89^{+0.61}_{-0.60}$	χ^2_{small}	395.84	$396.8 (\nu: 1.2)$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.075}_{-0.074}$	r_*	144.43	$144.43^{+0.62}_{-0.64}$	χ^2_{lowl}	23.04	$23.27 (\nu: 0.3)$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04111	$1.04113^{+0.00080}_{-0.00076}$	χ^2_{plik}	2344.2	$2358.7 (\nu: 15.7)$
A_{143}^{dustTE}	0.226	$0.22^{+0.14}_{-0.14}$	$D_M(z_*)/\text{Gpc}$	13.873	$13.873^{+0.057}_{-0.060}$	χ^2_{H073p45}	6.1	$6.4 (\nu: 2.6)$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.66^{+0.21}_{-0.20}$	z_{drag}	1060.01	$1059.97^{+0.76}_{-0.76}$	χ^2_{JLA}	1035.24	$1036.1 (\nu: 1.3)$
A_{217}^{dustTE}	2.09	$2.08^{+0.69}_{-0.69}$	r_{drag}	147.08	$147.09^{+0.63}_{-0.64}$	$\chi^2_{6\text{DF}}$	0.095	$0.14 (\nu: 0.0)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14091	$0.14088^{+0.00075}_{-0.00073}$	χ^2_{MGS}	2.67	$2.73 (\nu: 0.3)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.160713	$0.16074^{+0.00045}_{-0.00043}$	χ^2_{DR12BAO}	4.44	$5.2 (\nu: 1.1)$
H_0	69.35	$69.3^{+1.9}_{-1.9}$	z_{eq}	3400	3401^{+64}_{-62}	χ^2_{prior}	1.6	$11.5 (\nu: 9.6)$
Ω_Λ	0.7028	$0.702^{+0.017}_{-0.018}$	k_{eq}	0.010378	$0.01038^{+0.00019}_{-0.00019}$	χ^2_{CMB}	2771.9	$2788.0 (\nu: 16.8)$
Ω_m	0.2972	$0.298^{+0.018}_{-0.017}$	$100\theta_{\text{eq}}$	0.8138	$0.814^{+0.012}_{-0.012}$	χ^2_{BAO}	7.2	$8.1 (\nu: 2.4)$
$\Omega_m h^2$	0.14293	$0.1430^{+0.0027}_{-0.0026}$	$100\theta_{s,\text{eq}}$	0.4496	$0.4495^{+0.0062}_{-0.0060}$			

Best-fit $\chi^2_{\text{eff}} = 3821.98$; $\bar{\chi}^2_{\text{eff}} = 3850.02$; $R - 1 = 0.01297$

χ^2_{eff} : BAO - 6DF: 0.10 MGS: 2.67 DR12BAO: 4.44 CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p_teb_consext8: 8.77 small_100x143.offlike5_EE_Aplanck_B: 395.84 commander_dx12.v3.2.29: 23.04 plik_rd12_HM_v22b_TTTEEE: 2344.24 Hubble - H073p45: 6.10 SN - JLA Pantheon18: 1035.24

19.39 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00038}_{-0.00037}$	σ_8	$0.834^{+0.034}_{-0.035}$	$H(0.38)$	$83.8^{+1.6}_{-1.6}$
$\Omega_c h^2$	$0.1202^{+0.0032}_{-0.0033}$	S_8	$0.831^{+0.036}_{-0.037}$	$D_M(0.38)$	1501^{+32}_{-34}
$100\theta_{MC}$	$1.04092^{+0.00083}_{-0.00079}$	$\sigma_8 \Omega_m^{0.5}$	$0.455^{+0.020}_{-0.020}$	$H(0.51)$	$90.1^{+1.3}_{-1.3}$
τ	$0.055^{+0.019}_{-0.013}$	$\sigma_8 \Omega_m^{0.25}$	$0.616^{+0.024}_{-0.025}$	$D_M(0.51)$	1950^{+39}_{-40}
w_0	$-0.99^{+0.22}_{-0.19}$	$\sigma_8/h^{0.5}$	$1.002^{+0.036}_{-0.036}$	$H(0.61)$	$95.4^{+1.0}_{-0.98}$
w_a	$-0.31^{+0.74}_{-0.95}$	$r_{\text{drag}} h$	$102.0^{+2.9}_{-2.9}$	$D_M(0.61)$	2273^{+42}_{-43}
$\ln(10^{10} A_s)$	$3.047^{+0.042}_{-0.029}$	$\langle d^2 \rangle^{1/2}$	$2.468^{+0.078}_{-0.081}$	$H(2.33)$	$234.9^{+2.4}_{-2.3}$
n_s	$0.965^{+0.011}_{-0.010}$	z_{re}	< 9.50	$D_M(2.33)$	5751^{+26}_{-25}
y_{cal}	$1.0006^{+0.0062}_{-0.0063}$	$10^9 A_s$	$2.104^{+0.090}_{-0.061}$	$f\sigma_8(0.15)$	$0.463^{+0.021}_{-0.021}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_s e^{-2\tau}$	$1.885^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	$0.772^{+0.032}_{-0.032}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{40}	1231^{+32}_{-31}	$f\sigma_8(0.38)$	$0.488^{+0.025}_{-0.025}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.6}$	D_{220}	5733^{+100}_{-94}	$\sigma_8(0.38)$	$0.685^{+0.029}_{-0.029}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2540^{+34}_{-34}	$f\sigma_8(0.51)$	$0.489^{+0.027}_{-0.026}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.51)$	$0.641^{+0.027}_{-0.027}$
$A_{143 \times 217}^{\text{PS}}$	43^{+20}_{-20}	D_{2000}	$231.0^{+4.1}_{-4.0}$	$f\sigma_8(0.61)$	$0.486^{+0.027}_{-0.026}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{s,0.002}$	$0.965^{+0.011}_{-0.010}$	$\sigma_8(0.61)$	$0.610^{+0.025}_{-0.025}$
A^{kSZ}	—	Y_P	$0.24539^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.308^{+0.013}_{-0.013}$
$A_{100}^{\text{dust}TT}$	$8.9^{+4.7}_{-4.6}$	Y_P^{BBN}	$0.24672^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.315^{+0.010}_{-0.010}$
$A_{143}^{\text{dust}TT}$	$10.9^{+4.5}_{-4.6}$	10^5D/H	$2.586^{+0.070}_{-0.069}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143 \times 217}^{\text{dust}TT}$	$18.6^{+8.4}_{-8.5}$	Age/Gyr	$13.735^{+0.077}_{-0.072}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{217}^{\text{dust}TT}$	94^{+20}_{-20}	z_*	$1089.94^{+0.65}_{-0.67}$	f_{2000}^{217}	$106.9^{+4.6}_{-4.4}$
$A_{100}^{\text{dust}TE}$	$0.114^{+0.10}_{-0.097}$	r_*	$144.37^{+0.74}_{-0.72}$	χ_{simall}^2	$397.0 (\nu: 1.8)$
$A_{100 \times 143}^{\text{dust}TE}$	$0.135^{+0.074}_{-0.076}$	$100\theta_*$	$1.04111^{+0.00082}_{-0.00078}$	χ_{lowl}^2	$23.43 (\nu: 0.4)$
$A_{100 \times 217}^{\text{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_M(z_*)/\text{Gpc}$	$13.867^{+0.068}_{-0.067}$	χ_{plik}^2	$2358.5 (\nu: 16.2)$
$A_{143}^{\text{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.95^{+0.78}_{-0.78}$	χ_{H073p45}^2	$6.3 (\nu: 2.6)$
$A_{143 \times 217}^{\text{dust}TE}$	$0.67^{+0.21}_{-0.21}$	r_{drag}	$147.03^{+0.73}_{-0.72}$	χ_{JLA}^2	$1036.2 (\nu: 1.3)$
$A_{217}^{\text{dust}TE}$	$2.09^{+0.68}_{-0.69}$	k_D	$0.14093^{+0.00080}_{-0.00081}$	$\chi_{6\text{DF}}^2$	$0.14 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_D$	$0.16075^{+0.00045}_{-0.00044}$	χ_{MGS}^2	$2.73 (\nu: 0.3)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3408^{+73}_{-75}	χ_{DR12BAO}^2	$5.3 (\nu: 1.1)$
H_0	$69.3^{+1.9}_{-1.9}$	k_{eq}	$0.01040^{+0.00022}_{-0.00023}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_Λ	$0.702^{+0.017}_{-0.018}$	$100\theta_{\text{eq}}$	$0.812^{+0.014}_{-0.013}$	χ_{BAO}^2	$8.2 (\nu: 2.4)$
Ω_m	$0.298^{+0.018}_{-0.017}$	$100\theta_{s,\text{eq}}$	$0.4489^{+0.0074}_{-0.0068}$	χ_{CMB}^2	$2778.9 (\nu: 16.4)$
$\Omega_m h^2$	$0.1433^{+0.0030}_{-0.0031}$	$H(0.15)$	$74.4^{+1.9}_{-1.7}$		
$\Omega_m h^3$	$0.0993^{+0.0035}_{-0.0036}$	$D_M(0.15)$	626^{+15}_{-16}		

$$\bar{\chi}_{\text{eff}}^2 = 3841.05; R - 1 = 0.00883$$

19.40 base_w_wa_plikHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00037}_{-0.00037}$	σ_8	$0.830^{+0.028}_{-0.027}$	$H(0.38)$	$83.8^{+1.7}_{-1.5}$
$\Omega_{\mathrm{c}}h^2$	$0.1199^{+0.0027}_{-0.0027}$	S_8	$0.826^{+0.028}_{-0.028}$	$D_{\mathrm{M}}(0.38)$	1502^{+32}_{-34}
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00081}_{-0.00076}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.016}_{-0.015}$	$H(0.51)$	$90.1^{+1.3}_{-1.2}$
τ	$0.054^{+0.018}_{-0.013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.613^{+0.019}_{-0.018}$	$D_{\mathrm{M}}(0.51)$	1950^{+38}_{-40}
w_0	$-0.998^{+0.21}_{-0.19}$	$\sigma_8/h^{0.5}$	$0.997^{+0.027}_{-0.026}$	$H(0.61)$	$95.4^{+1.1}_{-1.0}$
w_a	$-0.26^{+0.69}_{-0.87}$	$r_{\mathrm{drag}}h$	$102.0^{+3.0}_{-2.9}$	$D_{\mathrm{M}}(0.61)$	2274^{+40}_{-43}
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.027}$	$\langle d^2 \rangle^{1/2}$	$2.458^{+0.060}_{-0.062}$	$H(2.33)$	$234.9^{+2.4}_{-2.4}$
n_{s}	$0.965^{+0.010}_{-0.0097}$	z_{re}	< 9.35	$D_{\mathrm{M}}(2.33)$	5750^{+26}_{-25}
y_{cal}	$1.0005^{+0.0062}_{-0.0060}$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.082}_{-0.056}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.017}$
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.026}_{-0.025}$	$\sigma_8(0.15)$	$0.768^{+0.026}_{-0.026}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{40}	1229^{+29}_{-28}	$f\sigma_8(0.38)$	$0.485^{+0.020}_{-0.020}$
A_{143}^{tSZ}	$5.5^{+4.4}_{-4.6}$	D_{220}	5734^{+100}_{-93}	$\sigma_8(0.38)$	$0.682^{+0.023}_{-0.023}$
A_{100}^{PS}	258^{+70}_{-70}	D_{810}	2539^{+33}_{-33}	$f\sigma_8(0.51)$	$0.486^{+0.021}_{-0.021}$
A_{143}^{PS}	46^{+20}_{-20}	D_{1420}	817^{+12}_{-12}	$\sigma_8(0.51)$	$0.638^{+0.022}_{-0.022}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{2000}	$231.0^{+4.0}_{-3.9}$	$f\sigma_8(0.61)$	$0.483^{+0.021}_{-0.021}$
A_{217}^{PS}	115^{+30}_{-30}	$n_{\mathrm{s},0.002}$	$0.965^{+0.010}_{-0.0097}$	$\sigma_8(0.61)$	$0.607^{+0.020}_{-0.020}$
A^{kSZ}	—	Y_{P}	$0.24540^{+0.00014}_{-0.00015}$	$f\sigma_8(2.33)$	$0.307^{+0.011}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.5}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24673^{+0.00014}_{-0.00015}$	$\sigma_8(2.33)$	$0.3138^{+0.0087}_{-0.0084}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.5}_{-4.5}$	$10^5\mathrm{D}/\mathrm{H}$	$2.582^{+0.069}_{-0.065}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.4}_{-8.1}$	$\mathrm{Age}/\mathrm{Gyr}$	$13.737^{+0.076}_{-0.074}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.88^{+0.61}_{-0.59}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.3}$
$A_{100}^{\mathrm{dust}TE}$	$0.114^{+0.10}_{-0.096}$	r_*	$144.45^{+0.62}_{-0.61}$	$\chi_{\mathrm{lensing}}^2$	$9.20\ (\nu: 0.4)$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.073}_{-0.075}$	$100\theta_*$	$1.04113^{+0.00080}_{-0.00076}$	χ_{simall}^2	$396.7\ (\nu: 1.2)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.874^{+0.057}_{-0.058}$	χ_{lowl}^2	$23.26\ (\nu: 0.3)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.98^{+0.76}_{-0.77}$	χ_{plik}^2	$2358.5\ (\nu: 15.5)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.20}$	r_{drag}	$147.10^{+0.62}_{-0.63}$	$\chi_{\mathrm{H073p45}}^2$	$6.3\ (\nu: 2.6)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.69}$	k_{D}	$0.14087^{+0.00075}_{-0.00072}$	χ_{JLA}^2	$1036.2\ (\nu: 1.3)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16074^{+0.00045}_{-0.00043}$	$\chi_{6\mathrm{DF}}^2$	$0.14\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3400^{+61}_{-62}	χ_{MGS}^2	$2.73\ (\nu: 0.3)$
H_0	$69.3^{+2.0}_{-1.9}$	k_{eq}	$0.01038^{+0.00019}_{-0.00019}$	$\chi_{\mathrm{DR12BAO}}^2$	$5.2\ (\nu: 1.1)$
Ω_{Λ}	$0.703^{+0.018}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.814^{+0.012}_{-0.011}$	χ_{prior}^2	$11.5\ (\nu: 9.6)$
Ω_{m}	$0.297^{+0.018}_{-0.018}$	$100\theta_{\mathrm{s,eq}}$	$0.4497^{+0.0061}_{-0.0058}$	χ_{CMB}^2	$2787.7\ (\nu: 16.4)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0026}_{-0.0026}$	$H(0.15)$	$74.4^{+1.9}_{-1.7}$	χ_{BAO}^2	$8.1\ (\nu: 2.4)$
$\Omega_{\mathrm{m}}h^3$	$0.0991^{+0.0033}_{-0.0033}$	$D_{\mathrm{M}}(0.15)$	627^{+16}_{-16}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 3849.79; R - 1 = 0.01314$$

19.41 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits		Parameter	Best fit	99% limits		Parameter	Best fit	99% limits	
$\Omega_b h^2$	0.02214	0.02217 $^{+0.00055}_{-0.00051}$	(+0.0 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6189	0.617 $^{+0.034}_{-0.035}$	(−0.1 σ)	$D_M(0.38)$	1508.8	1503 $^{+33}_{-34}$	(+0.0 σ)
$\Omega_c h^2$	0.12049	0.1205 $^{+0.0046}_{-0.0046}$	(−0.1 σ)	$\sigma_8/h^{0.5}$	1.0059	1.003 $^{+0.048}_{-0.050}$	(−0.1 σ)	$H(0.51)$	89.62	89.9 $^{+1.3}_{-1.3}$	(+0.0 σ)
$100\theta_{MC}$	1.04093	1.0409 $^{+0.0012}_{-0.0012}$	(+0.2 σ)	$r_{drag}h$	102.03	101.9 $^{+2.9}_{-2.9}$	(+0.0 σ)	$D_M(0.51)$	1960.1	1953 $^{+39}_{-41}$	(+0.0 σ)
τ	0.0560	0.052 $^{+0.021}_{-0.022}$	(+0.0 σ)	$\langle d^2 \rangle^{1/2}$	2.476	2.47 $^{+0.11}_{-0.11}$	(−0.2 σ)	$H(0.61)$	95.00	95.2 $^{+1.1}_{-1.1}$	(+0.0 σ)
w_0	−1.045	−0.99 $^{+0.24}_{-0.21}$	(−0.1 σ)	z_{re}	7.89	7.5 $^{+2.1}_{-2.5}$	(+0.0 σ)	$D_M(0.61)$	2285.1	2277 $^{+43}_{-43}$	(+0.0 σ)
w_a	−0.13	−0.34 $^{+0.83}_{-1.2}$	(+0.1 σ)	$10^9 A_s$	2.107	2.089 $^{+0.092}_{-0.093}$	(−0.1 σ)	$H(2.33)$	235.19	234.8 $^{+2.5}_{-2.4}$	(+0.0 σ)
$\ln(10^{10} A_s)$	3.0480	3.039 $^{+0.043}_{-0.045}$	(−0.1 σ)	$10^9 A_s e^{-2\tau}$	1.8841	1.882 $^{+0.034}_{-0.033}$	(−0.2 σ)	$D_M(2.33)$	5763.7	5761 $^{+32}_{-33}$	(−0.1 σ)
n_s	0.9629	0.964 $^{+0.013}_{-0.013}$	(+0.2 σ)	D_{40}	1233.5	1229 $^{+37}_{-37}$	(−0.3 σ)	$f\sigma_8(0.15)$	0.4675	0.464 $^{+0.028}_{-0.028}$	(−0.1 σ)
y_{cal}	1.0011	1.0004 $^{+0.0064}_{-0.0065}$	(+0.0 σ)	D_{220}	5716	5706 $^{+100}_{-110}$	(−0.2 σ)	$\sigma_8(0.15)$	0.7748	0.772 $^{+0.041}_{-0.042}$	(−0.1 σ)
A_{100}^{PS}	249	242 $^{+60}_{-60}$	(−0.7 σ)	D_{810}	2536.4	2534 $^{+36}_{-35}$	(−0.2 σ)	$f\sigma_8(0.38)$	0.4927	0.489 $^{+0.033}_{-0.033}$	(−0.1 σ)
A_{143}^{PS}	40.3	41 $^{+20}_{-20}$	(−1.0 σ)	D_{1420}	814.5	814 $^{+13}_{-13}$	(−0.1 σ)	$\sigma_8(0.38)$	0.6872	0.685 $^{+0.036}_{-0.037}$	(−0.1 σ)
A_{217}^{PS}	96.7	101 $^{+30}_{-40}$	(−1.4 σ)	D_{2000}	229.74	229.7 $^{+4.7}_{-4.6}$	(−0.0 σ)	$f\sigma_8(0.51)$	0.4934	0.491 $^{+0.035}_{-0.034}$	(−0.1 σ)
A_{217}^{CIB}	42.7	41 $^{+20}_{-20}$	(−1.0 σ)	$n_{s,0.002}$	0.9629	0.964 $^{+0.013}_{-0.013}$	(+0.2 σ)	$\sigma_8(0.51)$	0.6429	0.641 $^{+0.033}_{-0.034}$	(−0.1 σ)
A_{143}^{tSZ}	2.99	< 8.82	(−0.7 σ)	Y_P	0.245302	0.24531 $^{+0.00021}_{-0.00024}$	(+0.0 σ)	$f\sigma_8(0.61)$	0.4893	0.487 $^{+0.036}_{-0.034}$	(−0.1 σ)
$r_{143 \times 217}^{PS}$	0.577	0.65 $^{+0.32}_{-0.32}$		Y_P^{BBN}	0.246628	0.24663 $^{+0.00021}_{-0.00024}$	(+0.0 σ)	$\sigma_8(0.61)$	0.6115	0.610 $^{+0.031}_{-0.032}$	(−0.1 σ)
$r_{143 \times 217}^{CIB}$	0.66	—		$10^5 D/H$	2.629	2.625 $^{+0.099}_{-0.10}$	(−0.0 σ)	$f\sigma_8(2.33)$	0.3086	0.308 $^{+0.015}_{-0.017}$	(−0.1 σ)
$\xi^{tSZ \times CIB}$	0.34	—		Age/Gyr	13.767	13.754 $^{+0.089}_{-0.085}$	(−0.0 σ)	$\sigma_8(2.33)$	0.3156	0.314 $^{+0.012}_{-0.012}$	(−0.1 σ)
A^{kSZ}	5.8	—		z_*	1090.25	1090.23 $^{+0.91}_{-0.93}$	(−0.1 σ)	f_{2000}^{143}	31.4	31 $^{+8}_{-8}$	(−0.1 σ)
A_{100}^{dust}	1.00	1.01 $^{+0.50}_{-0.50}$		r_*	144.48	144.5 $^{+1.1}_{-1.1}$	(+0.1 σ)	f_{2000}^{217}	107.9	107.4 $^{+5.2}_{-5.1}$	(−0.3 σ)
A_{143}^{dust}	0.980	0.98 $^{+0.45}_{-0.45}$		$100\theta_*$	1.04113	1.0411 $^{+0.0011}_{-0.0011}$	(+0.2 σ)	$f_{2000}^{143 \times 217}$	33.1	33 $^{+5}_{-5}$	(−0.3 σ)
A_{217}^{dust}	0.958	0.97 $^{+0.26}_{-0.27}$		$D_M(z_*)/\text{Gpc}$	13.877	13.88 $^{+0.10}_{-0.10}$	(+0.1 σ)	χ_{small}^2	396.52	396.9 (ν : 1.4)	(−0.0 σ)
$A_{143 \times 217}^{dust}$	0.983	1.03 $^{+0.42}_{-0.41}$		z_{drag}	1059.44	1059.5 $^{+1.1}_{-1.1}$	(+0.0 σ)	χ_{lowl}^2	23.60	23.4 (ν : 0.6)	(−0.3 σ)
c_{100}	0.99737	0.9975 $^{+0.0028}_{-0.0027}$	(−3.5 σ)	r_{drag}	147.22	147.2 $^{+1.1}_{-1.1}$	(+0.1 σ)	$\chi_{CamSpec}^2$	7049.0	7062.4 (ν : 14.0)	
c_{217}	1.00146	1.0012 $^{+0.0041}_{-0.0041}$	(+4.7 σ)	k_D	0.14056	0.1406 $^{+0.0013}_{-0.0013}$	(−0.0 σ)	$\chi_{H073p45}^2$	6.2	6.6 (ν : 2.8)	(−0.0 σ)
H_0	69.31	69.3 $^{+2.0}_{-2.0}$	(+0.0 σ)	$100\theta_D$	0.16106	0.16103 $^{+0.00066}_{-0.00066}$	(+0.0 σ)	χ_{JLA}^2	1035.91	1036.3 (ν : 1.5)	(−0.0 σ)
Ω_Λ	0.7017	0.701 $^{+0.018}_{-0.020}$	(+0.0 σ)	z_{eq}	3409	3410 $^{+110}_{-110}$	(−0.1 σ)	χ_{6DF}^2	0.065	0.14 (ν : 0.0)	(−0.0 σ)
Ω_m	0.2983	0.299 $^{+0.020}_{-0.018}$	(−0.0 σ)	k_{eq}	0.010403	0.01041 $^{+0.00032}_{-0.00032}$	(−0.1 σ)	χ_{MGS}^2	2.43	2.71 (ν : 0.3)	(−0.0 σ)
$\Omega_m h^2$	0.14328	0.1433 $^{+0.0044}_{-0.0044}$	(−0.1 σ)	$100\theta_{eq}$	0.8115	0.811 $^{+0.020}_{-0.019}$	(+0.1 σ)	$\chi_{DR12BAO}^2$	4.45	5.4 (ν : 1.0)	(−0.1 σ)
$\Omega_m h^3$	0.09931	0.0993 $^{+0.0042}_{-0.0043}$	(−0.1 σ)	$100\theta_{s,eq}$	0.4486	0.449 $^{+0.010}_{-0.0098}$	(+0.1 σ)	χ_{prior}^2	2.6	7.6 (ν : 5.9)	(+0.1 σ)
σ_8	0.8374	0.834 $^{+0.044}_{-0.045}$	(−0.1 σ)	$H(0.15)$	74.00	74.3 $^{+2.0}_{-1.8}$	(−0.0 σ)	χ_{BAO}^2	6.9	8.3 (ν : 2.2)	(−0.0 σ)
S_8	0.835	0.833 $^{+0.052}_{-0.051}$	(−0.1 σ)	$D_M(0.15)$	628.6	627 $^{+16}_{-16}$	(+0.0 σ)	χ_{CMB}^2	7469.2	7482.7 (ν : 14.4)	(+1152.2 σ)
$\sigma_8 \Omega_m^{0.5}$	0.4574	0.456 $^{+0.028}_{-0.028}$	(−0.1 σ)	$H(0.38)$	83.28	83.6 $^{+1.6}_{-1.6}$	(−0.0 σ)				

Best-fit $\chi_{eff}^2 = 8520.89$; $\Delta\chi_{eff}^2 = 6293.31$; $\bar{\chi}_{eff}^2 = 8541.50$; $\Delta\bar{\chi}_{eff}^2 = 6291.90$; $R - 1 = 0.00869$
 χ_{eff}^2 : BAO - 6DF: 0.07 (Δ -0.03) MGS: 2.43 (Δ -0.24) DR12BAO: 4.45 (Δ -0.16) CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.52 (Δ 0.67) commander_dx12_v3_2_29: 23.60 (Δ 0.22) CamSpec like_10.7HM: 7049.04 Hubble - H073p45: 6.22 (Δ 0.03) SN - JLA Pantheon18: 1035.91 (Δ 0.51)

19.42 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00054}_{-0.00049} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.022}_{-0.022} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1504^{+32}_{-33} \quad (-0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1201^{+0.0034}_{-0.0034} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.998^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$H(0.51)$	$89.9^{+1.3}_{-1.4} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$102.0^{+2.8}_{-2.9} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1953^{+39}_{-39} \quad (-0.0\sigma)$
τ	$0.052^{+0.021}_{-0.022} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.068}_{-0.070} \quad (-0.0\sigma)$	$H(0.61)$	$95.2^{+1.1}_{-1.1} \quad (+0.0\sigma)$
w_0	$-0.999^{+0.22}_{-0.20} \quad (-0.0\sigma)$	z_{re}	$7.4^{+2.0}_{-2.4} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2277^{+42}_{-42} \quad (-0.0\sigma)$
w_a	$-0.29^{+0.75}_{-0.96} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.086^{+0.083}_{-0.085} \quad (-0.0\sigma)$	$H(2.33)$	$234.7^{+2.6}_{-2.4} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.039}_{-0.041} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5759^{+32}_{-33} \quad (-0.0\sigma)$
n_{s}	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	D_{40}	$1227^{+32}_{-31} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0065} \quad (+0.0\sigma)$	D_{220}	$5708^{+100}_{-110} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.769^{+0.029}_{-0.029} \quad (+0.0\sigma)$
A_{100}^{PS}	$242^{+60}_{-60} \quad (-0.8\sigma)$	D_{810}	$2533^{+34}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.486^{+0.024}_{-0.023} \quad (+0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.682^{+0.026}_{-0.025} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{2000}	$229.7^{+4.5}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.488^{+0.024}_{-0.024} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.638^{+0.024}_{-0.024} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	Y_{P}	$0.24532^{+0.00021}_{-0.00023} \quad (-0.0\sigma)$	$f\sigma_8(0.61)$	$0.484^{+0.025}_{-0.024} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00021}_{-0.00024} \quad (-0.0\sigma)$	$\sigma_8(0.61)$	$0.607^{+0.022}_{-0.022} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.620^{+0.095}_{-0.098} \quad (+0.0\sigma)$	$f\sigma_8(2.33)$	$0.307^{+0.011}_{-0.012} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.755^{+0.088}_{-0.084} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.3134^{+0.0090}_{-0.0093} \quad (+0.0\sigma)$
A^{kSZ}	—	z_*	$1090.16^{+0.79}_{-0.83} \quad (+0.0\sigma)$	f_{2000}^{143}	$31^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.55^{+0.84}_{-0.82} \quad (-0.0\sigma)$	f_{2000}^{217}	$107.4^{+5.1}_{-5.2} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+6}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.884^{+0.081}_{-0.078} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.36 \quad (\nu: 0.4) \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{drag}	$1059.5^{+1.1}_{-1.1} \quad (+0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.4\sigma)$	r_{drag}	$147.27^{+0.91}_{-0.87} \quad (-0.0\sigma)$	χ_{lowl}^2	$23.21 \quad (\nu: 0.4) \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.8\sigma)$	k_{D}	$0.1405^{+0.0011}_{-0.0011} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.3 \quad (\nu: 13.2)$
H_0	$69.3^{+1.9}_{-1.9} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00065}_{-0.00066} \quad (+0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.6 \quad (\nu: 2.8) \quad (-0.0\sigma)$
Ω_{Λ}	$0.702^{+0.017}_{-0.019} \quad (-0.0\sigma)$	z_{eq}	$3400^{+78}_{-77} \quad (+0.0\sigma)$	χ_{JLA}^2	$1036.2 \quad (\nu: 1.4) \quad (-0.0\sigma)$
Ω_{m}	$0.298^{+0.019}_{-0.017} \quad (+0.0\sigma)$	k_{eq}	$0.01038^{+0.00024}_{-0.00024} \quad (+0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.14 \quad (\nu: 0.0) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1429^{+0.0032}_{-0.0032} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.015}_{-0.014} \quad (-0.0\sigma)$	χ_{MGS}^2	$2.72 \quad (\nu: 0.3) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0990^{+0.0037}_{-0.0036} \quad (+0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0075}_{-0.0073} \quad (-0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.3 \quad (\nu: 1.0) \quad (-0.0\sigma)$
σ_8	$0.830^{+0.031}_{-0.031} \quad (+0.0\sigma)$	$H(0.15)$	$74.3^{+1.8}_{-1.7} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.8) \quad (+0.1\sigma)$
S_8	$0.828^{+0.033}_{-0.034} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$627^{+16}_{-15} \quad (-0.0\sigma)$	χ_{CMB}^2	$7491.6 \quad (\nu: 14.5) \quad (+1163.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.019} \quad (+0.0\sigma)$	$H(0.38)$	$83.6^{+1.6}_{-1.6} \quad (-0.0\sigma)$	χ_{BAO}^2	$8.2 \quad (\nu: 2.2) \quad (-0.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 8550.26; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.88; R - 1 = 0.01140$$

19.43 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02217^{+0.00055}_{-0.00051} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.617^{+0.034}_{-0.034} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1503^{+33}_{-34} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1205^{+0.0046}_{-0.0046} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$1.004^{+0.048}_{-0.049} \quad (-0.1\sigma)$	$H(0.51)$	$89.9^{+1.3}_{-1.3} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0012}_{-0.0012} \quad (+0.2\sigma)$	$r_{\mathrm{drag}} h$	$102.0^{+2.8}_{-2.9} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1953^{+39}_{-41} \quad (+0.0\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (+0.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.47^{+0.11}_{-0.11} \quad (-0.2\sigma)$	$H(0.61)$	$95.2^{+1.1}_{-1.1} \quad (+0.0\sigma)$
w_0	$-0.99^{+0.24}_{-0.20} \quad (-0.1\sigma)$	z_{re}	$< 9.38 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2277^{+42}_{-43} \quad (+0.0\sigma)$
w_a	$-0.33^{+0.82}_{-1.2} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.087}_{-0.061} \quad (-0.1\sigma)$	$H(2.33)$	$234.8^{+2.5}_{-2.4} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.041}_{-0.029} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.034}_{-0.033} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5760^{+33}_{-33} \quad (-0.1\sigma)$
n_{s}	$0.964^{+0.013}_{-0.013} \quad (+0.2\sigma)$	D_{40}	$1229^{+37}_{-36} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.464^{+0.028}_{-0.029} \quad (-0.1\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0065} \quad (+0.0\sigma)$	D_{220}	$5706^{+100}_{-110} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.773^{+0.041}_{-0.042} \quad (-0.1\sigma)$
A_{100}^{PS}	$241^{+60}_{-60} \quad (-0.7\sigma)$	D_{810}	$2534^{+36}_{-36} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.490^{+0.033}_{-0.033} \quad (-0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$814^{+13}_{-13} \quad (-0.1\sigma)$	$\sigma_8(0.38)$	$0.686^{+0.036}_{-0.037} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-40} \quad (-1.4\sigma)$	D_{2000}	$229.8^{+4.7}_{-4.6} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.491^{+0.035}_{-0.034} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.0\sigma)$	$n_{\mathrm{s},0.002}$	$0.964^{+0.013}_{-0.013} \quad (+0.2\sigma)$	$\sigma_8(0.51)$	$0.642^{+0.033}_{-0.034} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.7\sigma)$	Y_{P}	$0.24531^{+0.00021}_{-0.00024} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.488^{+0.036}_{-0.035} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24664^{+0.00022}_{-0.00025} \quad (+0.0\sigma)$	$\sigma_8(0.61)$	$0.611^{+0.030}_{-0.032} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.624^{+0.099}_{-0.10} \quad (-0.0\sigma)$	$f\sigma_8(2.33)$	$0.308^{+0.015}_{-0.017} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.754^{+0.089}_{-0.085} \quad (-0.0\sigma)$	$\sigma_8(2.33)$	$0.315^{+0.011}_{-0.012} \quad (-0.1\sigma)$
A^{kSZ}	—	z_*	$1090.21^{+0.91}_{-0.93} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+8}_{-8} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+5.2}_{-5.1} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.45}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0012} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+5}_{-5} \quad (-0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.10}_{-0.10} \quad (+0.0\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.3) \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{drag}	$1059.5^{+1.2}_{-1.1} \quad (+0.0\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 0.6) \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	r_{drag}	$147.2^{+1.1}_{-1.1} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7062.3 \quad (\nu: 13.9)$
c_{217}	$1.0012^{+0.0040}_{-0.0041} \quad (+4.7\sigma)$	k_{D}	$0.1406^{+0.0013}_{-0.0013} \quad (-0.0\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.6 \quad (\nu: 2.7) \quad (-0.0\sigma)$
H_0	$69.3^{+2.0}_{-1.9} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00066}_{-0.00066} \quad (+0.0\sigma)$	χ_{JLA}^2	$1036.3 \quad (\nu: 1.5) \quad (-0.0\sigma)$
Ω_{Λ}	$0.701^{+0.018}_{-0.019} \quad (+0.0\sigma)$	z_{eq}	$3408^{+110}_{-100} \quad (-0.1\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.14 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{m}	$0.299^{+0.019}_{-0.018} \quad (-0.0\sigma)$	k_{eq}	$0.01040^{+0.00032}_{-0.00032} \quad (-0.1\sigma)$	χ_{MGS}^2	$2.70 \quad (\nu: 0.3) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1433^{+0.0044}_{-0.0044} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.020}_{-0.019} \quad (+0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.4 \quad (\nu: 1.0) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0992^{+0.0043}_{-0.0043} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.010}_{-0.0099} \quad (+0.1\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.835^{+0.044}_{-0.045} \quad (-0.1\sigma)$	$H(0.15)$	$74.3^{+2.0}_{-1.8} \quad (-0.0\sigma)$	χ_{BAO}^2	$8.2 \quad (\nu: 2.2) \quad (-0.0\sigma)$
S_8	$0.833^{+0.052}_{-0.051} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$627^{+16}_{-16} \quad (+0.0\sigma)$	χ_{CMB}^2	$7482.5 \quad (\nu: 14.0) \quad (+1164.1\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.028}_{-0.028} \quad (-0.1\sigma)$	$H(0.38)$	$83.6^{+1.6}_{-1.6} \quad (-0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 8541.22; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.88; R - 1 = 0.00801$$

19.44 base_w_wa_CamSpecHM_TT_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02220^{+0.00053}_{-0.00050}$ (+0.0 σ)	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.614^{+0.022}_{-0.022}$ (+0.0 σ)	$D_{\mathrm{M}}(0.38)$	1504^{+32}_{-33} (−0.0 σ)
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0033}_{-0.0033}$ (+0.1 σ)	$\sigma_8/h^{0.5}$	$0.998^{+0.031}_{-0.031}$ (+0.0 σ)	$H(0.51)$	$89.9^{+1.3}_{-1.4}$ (−0.0 σ)
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0011}_{-0.0011}$ (+0.1 σ)	$r_{\mathrm{drag}}h$	$102.0^{+2.8}_{-2.8}$ (+0.0 σ)	$D_{\mathrm{M}}(0.51)$	1954^{+39}_{-39} (−0.0 σ)
τ	$0.054^{+0.018}_{-0.012}$ (+0.0 σ)	$\langle d^2 \rangle^{1/2}$	$2.458^{+0.068}_{-0.070}$ (−0.0 σ)	$H(0.61)$	$95.2^{+1.1}_{-1.1}$ (+0.0 σ)
w_0	$-1.00^{+0.22}_{-0.20}$ (−0.0 σ)	z_{re}	< 9.33 (+0.1 σ)	$D_{\mathrm{M}}(0.61)$	2278^{+42}_{-42} (−0.0 σ)
w_a	$-0.27^{+0.75}_{-0.93}$ (+0.0 σ)	$10^9 A_{\mathrm{s}}$	$2.092^{+0.078}_{-0.055}$ (−0.0 σ)	$H(2.33)$	$234.7^{+2.6}_{-2.4}$ (+0.0 σ)
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.037}_{-0.026}$ (−0.0 σ)	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.028}_{-0.028}$ (−0.2 σ)	$D_{\mathrm{M}}(2.33)$	5759^{+33}_{-32} (−0.0 σ)
n_{s}	$0.965^{+0.011}_{-0.011}$ (+0.1 σ)	D_{40}	1227^{+32}_{-31} (−0.2 σ)	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.020}$ (+0.0 σ)
y_{cal}	$1.0004^{+0.0063}_{-0.0065}$ (+0.0 σ)	D_{220}	5708^{+100}_{-110} (−0.3 σ)	$\sigma_8(0.15)$	$0.769^{+0.029}_{-0.029}$ (+0.0 σ)
A_{100}^{PS}	242^{+60}_{-60} (−0.8 σ)	D_{810}	2533^{+34}_{-35} (−0.2 σ)	$f\sigma_8(0.38)$	$0.486^{+0.024}_{-0.023}$ (+0.0 σ)
A_{143}^{PS}	40^{+20}_{-20} (−1.0 σ)	D_{1420}	814^{+13}_{-13} (−0.1 σ)	$\sigma_8(0.38)$	$0.682^{+0.025}_{-0.026}$ (+0.0 σ)
A_{217}^{PS}	101^{+30}_{-40} (−1.4 σ)	D_{2000}	$229.8^{+4.5}_{-4.6}$ (−0.0 σ)	$f\sigma_8(0.51)$	$0.488^{+0.025}_{-0.024}$ (+0.0 σ)
A_{217}^{CIB}	41^{+20}_{-20} (−1.0 σ)	$n_{\mathrm{s},0.002}$	$0.965^{+0.011}_{-0.011}$ (+0.1 σ)	$\sigma_8(0.51)$	$0.639^{+0.024}_{-0.024}$ (+0.0 σ)
A_{143}^{tSZ}	< 8.87 (−0.7 σ)	Y_{P}	$0.24532^{+0.00021}_{-0.00024}$ (−0.0 σ)	$f\sigma_8(0.61)$	$0.484^{+0.025}_{-0.024}$ (+0.0 σ)
$r_{143\times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24665^{+0.00021}_{-0.00024}$ (−0.0 σ)	$\sigma_8(0.61)$	$0.608^{+0.022}_{-0.022}$ (+0.0 σ)
$r_{143\times 217}^{\mathrm{CIB}}$	—	$10^5\mathrm{D}/\mathrm{H}$	$2.619^{+0.097}_{-0.098}$ (−0.0 σ)	$f\sigma_8(2.33)$	$0.307^{+0.011}_{-0.012}$ (+0.0 σ)
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.756^{+0.088}_{-0.084}$ (−0.0 σ)	$\sigma_8(2.33)$	$0.3137^{+0.0088}_{-0.0090}$ (+0.0 σ)
A^{kSZ}	—	z_*	$1090.14^{+0.79}_{-0.82}$ (+0.0 σ)	f_{2000}^{143}	31^{+8}_{-8} (−0.1 σ)
A_{100}^{dust}	$1.01^{+0.50}_{-0.50}$	r_*	$144.57^{+0.82}_{-0.80}$ (−0.1 σ)	f_{2000}^{217}	$107.3^{+5.2}_{-5.1}$ (−0.3 σ)
A_{143}^{dust}	$0.98^{+0.45}_{-0.46}$	$100\theta_*$	$1.0411^{+0.0011}_{-0.0011}$ (+0.1 σ)	$f_{2000}^{143\times 217}$	33^{+6}_{-5} (−0.3 σ)
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.080}_{-0.077}$ (−0.1 σ)	$\chi_{\mathrm{lensing}}^2$	9.36 (ν : 0.5) (+0.0 σ)
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	z_{drag}	$1059.5^{+1.2}_{-1.1}$ (+0.0 σ)	χ_{small}^2	396.7 (ν : 1.1) (+0.0 σ)
c_{100}	$0.9975^{+0.0028}_{-0.0027}$ (−3.4 σ)	r_{drag}	$147.30^{+0.89}_{-0.86}$ (−0.1 σ)	χ_{lowl}^2	23.19 (ν : 0.4) (−0.2 σ)
c_{217}	$1.0012^{+0.0040}_{-0.0041}$ (+4.8 σ)	k_{D}	$0.1405^{+0.0011}_{-0.0011}$ (+0.0 σ)	$\chi_{\mathrm{CamSpec}}^2$	7062.2 (ν : 13.1)
H_0	$69.3^{+1.9}_{-1.9}$ (+0.0 σ)	$100\theta_{\mathrm{D}}$	$0.16101^{+0.00067}_{-0.00067}$ (+0.0 σ)	$\chi_{\mathrm{H073p45}}^2$	6.6 (ν : 2.7) (−0.0 σ)
Ω_{Λ}	$0.702^{+0.017}_{-0.018}$ (−0.0 σ)	z_{eq}	3397^{+76}_{-76} (+0.1 σ)	χ_{JLA}^2	1036.2 (ν : 1.4) (−0.0 σ)
Ω_{m}	$0.298^{+0.018}_{-0.017}$ (+0.0 σ)	k_{eq}	$0.01037^{+0.00023}_{-0.00023}$ (+0.1 σ)	$\chi_{6\mathrm{DF}}^2$	0.14 (ν : 0.0) (+0.0 σ)
$\Omega_{\mathrm{m}}h^2$	$0.1428^{+0.0032}_{-0.0032}$ (+0.1 σ)	$100\theta_{\mathrm{eq}}$	$0.814^{+0.014}_{-0.014}$ (−0.0 σ)	χ_{MGS}^2	2.71 (ν : 0.3) (−0.0 σ)
$\Omega_{\mathrm{m}}h^3$	$0.0989^{+0.0037}_{-0.0035}$ (+0.0 σ)	$100\theta_{\mathrm{s,eq}}$	$0.4498^{+0.0074}_{-0.0071}$ (−0.0 σ)	$\chi_{\mathrm{DR12BAO}}^2$	5.3 (ν : 1.0) (−0.0 σ)
σ_8	$0.831^{+0.031}_{-0.031}$ (+0.0 σ)	$H(0.15)$	$74.3^{+1.8}_{-1.7}$ (+0.0 σ)	χ_{prior}^2	7.6 (ν : 5.8) (+0.1 σ)
S_8	$0.828^{+0.033}_{-0.034}$ (+0.0 σ)	$D_{\mathrm{M}}(0.15)$	628^{+16}_{-15} (−0.0 σ)	χ_{CMB}^2	7491.4 (ν : 14.1) (+1171.1 σ)
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.018}_{-0.019}$ (+0.0 σ)	$H(0.38)$	$83.6^{+1.6}_{-1.6}$ (−0.0 σ)	χ_{BAO}^2	8.1 (ν : 2.1) (−0.0 σ)

$$\bar{\chi}_{\mathrm{eff}}^2 = 8549.95; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.82; R - 1 = 0.01139$$

19.45 base_w_wa_CamSpecHM_TTTEEE_lowl_lowE_BAO_Riess18_Pantheon18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022321	$0.02231^{+0.00040}_{-0.00039} \quad (-0.4\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4501	$0.451^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$D_M(0.38)$	1503.4	$1504^{+33}_{-32} \quad (+0.2\sigma)$
$\Omega_c h^2$	0.11954	$0.1197^{+0.0033}_{-0.0033} \quad (-0.5\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6100	$0.610^{+0.025}_{-0.025} \quad (-0.6\sigma)$	$H(0.51)$	90.02	$90.0^{+1.2}_{-1.3} \quad (-0.2\sigma)$
$100\theta_{MC}$	1.04091	$1.04089^{+0.00080}_{-0.00080} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9928	$0.993^{+0.037}_{-0.037} \quad (-0.5\sigma)$	$D_M(0.51)$	1952.7	$1953^{+39}_{-38} \quad (+0.2\sigma)$
τ	0.0528	$0.052^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$r_{drag} h$	102.09	$102.0^{+2.9}_{-2.9} \quad (+0.0\sigma)$	$H(0.61)$	95.37	$95.3^{+1.0}_{-1.1} \quad (-0.1\sigma)$
w_0	-1.010	$-1.00^{+0.21}_{-0.19} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.446	$2.448^{+0.083}_{-0.083} \quad (-0.6\sigma)$	$D_M(0.61)$	2276.3	$2277^{+43}_{-40} \quad (+0.2\sigma)$
w_a	-0.20	$-0.24^{+0.72}_{-0.91} \quad (+0.3\sigma)$	z_{re}	7.51	$7.5^{+2.0}_{-2.3} \quad (-0.2\sigma)$	$H(2.33)$	234.70	$234.8^{+2.4}_{-2.3} \quad (-0.2\sigma)$
$\ln(10^{10} A_s)$	3.0385	$3.038^{+0.043}_{-0.043} \quad (-0.4\sigma)$	$10^9 A_s$	2.087	$2.087^{+0.090}_{-0.088} \quad (-0.4\sigma)$	$D_M(2.33)$	5753.5	$5755^{+29}_{-27} \quad (+0.4\sigma)$
n_s	0.9666	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_s e^{-2\tau}$	1.8782	$1.879^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	0.4582	$0.458^{+0.022}_{-0.022} \quad (-0.5\sigma)$
y_{cal}	1.0003	$1.0004^{+0.0067}_{-0.0062} \quad (-0.1\sigma)$	D_{40}	1223.5	$1225^{+32}_{-32} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	0.7652	$0.765^{+0.032}_{-0.033} \quad (-0.5\sigma)$
A_{100}^{PS}	232	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	5717	$5719^{+100}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4829	$0.483^{+0.024}_{-0.025} \quad (-0.5\sigma)$
A_{143}^{PS}	42.0	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	2535.0	$2535^{+36}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	0.6793	$0.679^{+0.028}_{-0.030} \quad (-0.5\sigma)$
A_{217}^{PS}	103.0	$103^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	816.0	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	0.4842	$0.484^{+0.025}_{-0.026} \quad (-0.5\sigma)$
A_{217}^{CIB}	43.7	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	230.48	$230.3^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	0.6359	$0.636^{+0.026}_{-0.028} \quad (-0.5\sigma)$
A_{143}^{tSZ}	6.62	$< 8.81 \quad (-0.8\sigma)$	$n_{s,0.002}$	0.9666	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	0.4806	$0.481^{+0.026}_{-0.027} \quad (-0.5\sigma)$
$r_{143 \times 217}^{PS}$	0.642	$0.66^{+0.31}_{-0.34}$	Y_P	0.245376	$0.24537^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	0.6051	$0.605^{+0.025}_{-0.026} \quad (-0.5\sigma)$
$r_{143 \times 217}^{CIB}$	0.79	—	Y_P^{BBN}	0.246702	$0.24670^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$f\sigma_8(2.33)$	0.3057	$0.306^{+0.013}_{-0.014} \quad (-0.5\sigma)$
$\xi^{tSZ \times CIB}$	0.28	—	$10^5 D/H$	2.595	$2.597^{+0.075}_{-0.073} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	0.3129	$0.313^{+0.010}_{-0.011} \quad (-0.5\sigma)$
A^{kSZ}	0.0	—	Age/Gyr	13.748	$13.749^{+0.084}_{-0.072} \quad (+0.5\sigma)$	f_{2000}^{143}	29.7	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.50}_{-0.51}$	z_*	1089.94	$1089.96^{+0.70}_{-0.70} \quad (+0.1\sigma)$	f_{2000}^{217}	106.53	$106.8^{+4.9}_{-5.0} \quad (-0.1\sigma)$
A_{143}^{dust}	0.972	$0.96^{+0.45}_{-0.45}$	r_*	144.59	$144.56^{+0.75}_{-0.77} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	31.9	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	0.972	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	1.04109	$1.04108^{+0.00079}_{-0.00079} \quad (-0.1\sigma)$	χ_{small}^2	395.84	$396.8 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.41}_{-0.41}$	$D_M(z_*)/\text{Gpc}$	13.888	$13.886^{+0.071}_{-0.073} \quad (+0.7\sigma)$	χ_{lowl}^2	22.83	$23.03 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{100}	0.99770	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	1059.78	$1059.78^{+0.84}_{-0.84} \quad (-0.6\sigma)$	$\chi_{CamSpec}^2$	11499.2	$11514.1 \quad (\nu: 15.6)$
c_{217}	1.00127	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	147.27	$147.24^{+0.77}_{-0.78} \quad (+0.8\sigma)$	$\chi_{H073p45}^2$	6.2	$6.6 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{TE}	0.9962	$0.996^{+0.013}_{-0.013}$	k_D	0.14064	$0.14066^{+0.00089}_{-0.00087} \quad (-0.9\sigma)$	χ_{JLA}^2	1035.34	$1036.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$
c_{EE}	0.9916	$0.992^{+0.013}_{-0.013}$	$100\theta_D$	0.160838	$0.16085^{+0.00049}_{-0.00049} \quad (+0.5\sigma)$	χ_{6DF}^2	0.098	$0.14 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	69.32	$69.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$	z_{eq}	3390	$3393^{+76}_{-74} \quad (-0.6\sigma)$	χ_{MGS}^2	2.67	$2.70 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_Λ	0.7035	$0.703^{+0.017}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	0.010347	$0.01036^{+0.00023}_{-0.00023} \quad (-0.6\sigma)$	$\chi_{DR12BAO}^2$	4.36	$5.2 \quad (\nu: 0.9) \quad (-0.1\sigma)$
Ω_m	0.2965	$0.297^{+0.019}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8153	$0.815^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{prior}^2	2.1	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_m h^2$	0.14251	$0.1426^{+0.0032}_{-0.0031} \quad (-0.6\sigma)$	$100\theta_{s,eq}$	0.4505	$0.4502^{+0.0073}_{-0.0071} \quad (+0.5\sigma)$	χ_{BAO}^2	7.1	$8.0 \quad (\nu: 2.1) \quad (-0.1\sigma)$
$\Omega_m h^3$	0.09879	$0.0988^{+0.0035}_{-0.0037} \quad (-0.4\sigma)$	$H(0.15)$	74.27	$74.3^{+1.8}_{-1.8} \quad (-0.2\sigma)$	χ_{CMB}^2	11917.9	$11933.9 \quad (\nu: 16.1) \quad (+1582.9\sigma)$
σ_8	0.8266	$0.827^{+0.034}_{-0.036} \quad (-0.5\sigma)$	$D_M(0.15)$	627.2	$628^{+16}_{-15} \quad (+0.2\sigma)$			
S_8	0.8218	$0.823^{+0.039}_{-0.038} \quad (-0.5\sigma)$	$H(0.38)$	83.69	$83.7^{+1.6}_{-1.6} \quad (-0.2\sigma)$			

Best-fit $\chi_{eff}^2 = 12968.70$; $\Delta\chi_{eff}^2 = 9155.52$; $\bar{\chi}_{eff}^2 = 12992.43$; $\Delta\bar{\chi}_{eff}^2 = 9151.17$; $R - 1 = 0.01047$
 χ_{eff}^2 : BAO - 6DF: 0.10 (Δ 0.00) MGS: 2.67 (Δ 0.00) DR12BAO: 4.36 (Δ -0.14) CMB - small_100x143_offlike5_EE_Aplanck_B: 395.84 (Δ -0.15) commander_dx12_v3_2_29: 22.83 (Δ -0.38) CamSpec like_10.7HM_1400_unified: 11499.24 Hubble - H073p45: 6.18 (Δ 0.28) SN - JLA Pantheon18: 1035.34 (Δ -0.05)

19.46 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02232^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1503^{+32}_{-31} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1196^{+0.0028}_{-0.0028} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$90.0^{+1.2}_{-1.3} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00078}_{-0.00078} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.993^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1952^{+39}_{-36} \quad (+0.1\sigma)$
τ	$0.053^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	$102.0^{+2.9}_{-2.9} \quad (+0.0\sigma)$	$H(0.61)$	$95.4^{+1.0}_{-1.1} \quad (-0.2\sigma)$
w_0	$-1.00^{+0.21}_{-0.19} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.062}_{-0.062} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2276^{+42}_{-39} \quad (+0.1\sigma)$
w_{a}	$-0.24^{+0.69}_{-0.83} \quad (+0.1\sigma)$	z_{re}	$7.5^{+1.9}_{-2.1} \quad (-0.1\sigma)$	$H(2.33)$	$234.7^{+2.4}_{-2.3} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.038^{+0.038}_{-0.038} \quad (-0.2\sigma)$	10^9A_{s}	$2.087^{+0.080}_{-0.079} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5754^{+28}_{-27} \quad (+0.4\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.028}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0004^{+0.0066}_{-0.0061} \quad (-0.0\sigma)$	D_{40}	$1226^{+30}_{-29} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.765^{+0.026}_{-0.027} \quad (-0.3\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5721^{+100}_{-97} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.020}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+36}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.679^{+0.024}_{-0.024} \quad (-0.3\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.484^{+0.021}_{-0.021} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.3^{+4.1}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.636^{+0.022}_{-0.022} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.68 \quad (-0.9\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.481^{+0.021}_{-0.021} \quad (-0.3\sigma)$
$r_{143\times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	Y_{P}	$0.24537^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.605^{+0.021}_{-0.021} \quad (-0.3\sigma)$
$r_{143\times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00017} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.306^{+0.011}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^5\mathrm{D}/\mathrm{H}$	$2.596^{+0.073}_{-0.071} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3127^{+0.0086}_{-0.0089} \quad (-0.3\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.748^{+0.081}_{-0.071} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.48}$	z_*	$1089.96^{+0.63}_{-0.64} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.8^{+4.9}_{-5.1} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	r_*	$144.57^{+0.65}_{-0.65} \quad (+0.6\sigma)$	$f_{2000}^{143\times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	$1.04108^{+0.00077}_{-0.00078} \quad (-0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.13 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$A_{143\times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.061}_{-0.062} \quad (+0.6\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.0) \quad (-0.0\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.79^{+0.83}_{-0.84} \quad (-0.6\sigma)$	χ_{lowl}^2	$23.05 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.25^{+0.67}_{-0.68} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.7 \quad (\nu: 15.0)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	k_{D}	$0.14066^{+0.00084}_{-0.00081} \quad (-0.8\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.5 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00049}_{-0.00048} \quad (+0.6\sigma)$	χ_{JLA}^2	$1036.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$
H_0	$69.3^{+2.0}_{-1.9} \quad (-0.1\sigma)$	z_{eq}	$3392^{+63}_{-63} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.14 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{Λ}	$0.703^{+0.017}_{-0.018} \quad (+0.1\sigma)$	k_{eq}	$0.01035^{+0.00019}_{-0.00019} \quad (-0.4\sigma)$	χ_{MGS}^2	$2.73 \quad (\nu: 0.3) \quad (+0.0\sigma)$
Ω_{m}	$0.297^{+0.018}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0062}_{-0.0061} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0988^{+0.0034}_{-0.0033} \quad (-0.3\sigma)$	$H(0.15)$	$74.3^{+1.7}_{-1.7} \quad (-0.1\sigma)$	χ_{CMB}^2	$11942.6 \quad (\nu: 16.3) \quad (+1579.6\sigma)$
σ_8	$0.827^{+0.028}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$627^{+15}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$8.1 \quad (\nu: 2.2) \quad (-0.0\sigma)$
S_8	$0.823^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$H(0.38)$	$83.7^{+1.6}_{-1.6} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 13001.06; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.04; R - 1 = 0.01205$$

19.47 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Riess18_Pantheon18_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00041}_{-0.00039} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1504^{+33}_{-32} \quad (+0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0033}_{-0.0033} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.025}_{-0.025} \quad (-0.5\sigma)$	$H(0.51)$	$90.0^{+1.2}_{-1.3} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04090^{+0.00080}_{-0.00079} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.036}_{-0.036} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1953^{+39}_{-38} \quad (+0.2\sigma)$
τ	$0.054^{+0.018}_{-0.012} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$102.0^{+2.9}_{-2.9} \quad (+0.0\sigma)$	$H(0.61)$	$95.3^{+1.0}_{-1.0} \quad (-0.1\sigma)$
w_0	$-1.00^{+0.21}_{-0.19} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.081}_{-0.082} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.61)$	$2277^{+42}_{-40} \quad (+0.2\sigma)$
w_{a}	$-0.23^{+0.71}_{-0.90} \quad (+0.3\sigma)$	z_{re}	$< 9.33 \quad (-0.1\sigma)$	$H(2.33)$	$234.8^{+2.4}_{-2.3} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.040}_{-0.029} \quad (-0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.086}_{-0.059} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5755^{+29}_{-26} \quad (+0.3\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.459^{+0.021}_{-0.021} \quad (-0.5\sigma)$
y_{cal}	$1.0004^{+0.0066}_{-0.0062} \quad (-0.1\sigma)$	D_{40}	$1226^{+32}_{-33} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.766^{+0.032}_{-0.033} \quad (-0.5\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5719^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.484^{+0.024}_{-0.025} \quad (-0.4\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.680^{+0.028}_{-0.029} \quad (-0.5\sigma)$
A_{217}^{PS}	$103^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.485^{+0.025}_{-0.026} \quad (-0.5\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.4^{+4.2}_{-4.2} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.637^{+0.026}_{-0.027} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.8\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.3\sigma)$	$f\sigma_8(0.61)$	$0.481^{+0.026}_{-0.027} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.34}$	Y_{P}	$0.24537^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$\sigma_8(0.61)$	$0.606^{+0.024}_{-0.026} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00017} \quad (-0.4\sigma)$	$f\sigma_8(2.33)$	$0.306^{+0.012}_{-0.014} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.596^{+0.075}_{-0.073} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.313^{+0.010}_{-0.010} \quad (-0.4\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.749^{+0.085}_{-0.072} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	z_*	$1089.95^{+0.69}_{-0.70} \quad (+0.1\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.0} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	r_*	$144.57^{+0.75}_{-0.77} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	$100\theta_*$	$1.04109^{+0.00079}_{-0.00078} \quad (-0.1\sigma)$	χ_{small}^2	$396.7 \quad (\nu: 1.2) \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.886^{+0.071}_{-0.073} \quad (+0.7\sigma)$	χ_{lowl}^2	$23.04 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.79^{+0.83}_{-0.85} \quad (-0.6\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 15.5)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.25^{+0.77}_{-0.78} \quad (+0.8\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.6 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	k_{D}	$0.14066^{+0.00089}_{-0.00087} \quad (-0.9\sigma)$	χ_{JLA}^2	$1036.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.012}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00049}_{-0.00049} \quad (+0.5\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.14 \quad (\nu: 0.0) \quad (-0.0\sigma)$
H_0	$69.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$	z_{eq}	$3392^{+76}_{-74} \quad (-0.6\sigma)$	χ_{MGS}^2	$2.70 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_{Λ}	$0.703^{+0.017}_{-0.019} \quad (+0.1\sigma)$	k_{eq}	$0.01035^{+0.00023}_{-0.00022} \quad (-0.6\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.1 \quad (\nu: 0.9) \quad (-0.1\sigma)$
Ω_{m}	$0.297^{+0.019}_{-0.017} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.014} \quad (+0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0032}_{-0.0031} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0073}_{-0.0071} \quad (+0.5\sigma)$	χ_{BAO}^2	$8.0 \quad (\nu: 2.1) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0988^{+0.0035}_{-0.0037} \quad (-0.4\sigma)$	$H(0.15)$	$74.3^{+1.8}_{-1.8} \quad (-0.2\sigma)$	χ_{CMB}^2	$11933.7 \quad (\nu: 15.7) \quad (+1599.5\sigma)$
σ_8	$0.828^{+0.034}_{-0.035} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$628^{+16}_{-15} \quad (+0.2\sigma)$		
S_8	$0.824^{+0.039}_{-0.037} \quad (-0.5\sigma)$	$H(0.38)$	$83.7^{+1.6}_{-1.6} \quad (-0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 12992.15; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.09; R - 1 = 0.01047$$

19.48 base_w_wa_CamSpecHM_TTTEE_lowl_lowE_BAO_Riess18_Pantheon18_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00039}_{-0.00038} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1503^{+32}_{-31} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0028}_{-0.0028} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.019}_{-0.019} \quad (-0.3\sigma)$	$H(0.51)$	$90.0^{+1.2}_{-1.3} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04090^{+0.00077}_{-0.00078} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.994^{+0.027}_{-0.027} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1952^{+39}_{-37} \quad (+0.1\sigma)$
τ	$0.054^{+0.017}_{-0.012} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$102.0^{+2.9}_{-2.9} \quad (+0.0\sigma)$	$H(0.61)$	$95.4^{+1.0}_{-1.1} \quad (-0.2\sigma)$
w_0	$-1.00^{+0.21}_{-0.19} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.450^{+0.061}_{-0.061} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2276^{+42}_{-39} \quad (+0.1\sigma)$
w_{a}	$-0.23^{+0.68}_{-0.83} \quad (+0.1\sigma)$	z_{re}	$< 9.21 \quad (-0.0\sigma)$	$H(2.33)$	$234.7^{+2.4}_{-2.3} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.036}_{-0.026} \quad (-0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.093^{+0.077}_{-0.054} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5754^{+29}_{-26} \quad (+0.4\sigma)$
n_{s}	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.027}_{-0.026} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.3\sigma)$
y_{cal}	$1.0004^{+0.0066}_{-0.0061} \quad (-0.0\sigma)$	D_{40}	$1226^{+30}_{-30} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.766^{+0.026}_{-0.027} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.7\sigma)$	D_{220}	$5721^{+100}_{-97} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.483^{+0.020}_{-0.021} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{810}	$2535^{+35}_{-33} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.680^{+0.023}_{-0.024} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{1420}	$816^{+13}_{-12} \quad (-0.3\sigma)$	$f\sigma_8(0.51)$	$0.484^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$230.3^{+4.0}_{-4.1} \quad (-0.4\sigma)$	$\sigma_8(0.51)$	$0.636^{+0.022}_{-0.022} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.72 \quad (-0.9\sigma)$	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.481^{+0.021}_{-0.022} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	Y_{P}	$0.24537^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$\sigma_8(0.61)$	$0.605^{+0.021}_{-0.021} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.24670^{+0.00015}_{-0.00016} \quad (-0.5\sigma)$	$f\sigma_8(2.33)$	$0.306^{+0.011}_{-0.011} \quad (-0.2\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^5 \mathrm{D}/\mathrm{H}$	$2.595^{+0.072}_{-0.070} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3130^{+0.0084}_{-0.0086} \quad (-0.2\sigma)$
A^{kSZ}	—	$\mathrm{Age}/\mathrm{Gyr}$	$13.748^{+0.081}_{-0.071} \quad (+0.4\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.48}$	z_*	$1089.94^{+0.63}_{-0.63} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-5.2} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	r_*	$144.58^{+0.64}_{-0.65} \quad (+0.6\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.26}$	$100\theta_*$	$1.04109^{+0.00077}_{-0.00077} \quad (-0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.10 \quad (\nu: 0.2) \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.061}_{-0.061} \quad (+0.6\sigma)$	χ_{small}^2	$396.6 \quad (\nu: 1.0) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.79^{+0.82}_{-0.85} \quad (-0.6\sigma)$	χ_{lowl}^2	$23.04 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.26^{+0.67}_{-0.67} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.6 \quad (\nu: 14.9)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	k_{D}	$0.14065^{+0.00084}_{-0.00081} \quad (-0.8\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$6.5 \quad (\nu: 2.7) \quad (+0.1\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16084^{+0.00049}_{-0.00048} \quad (+0.6\sigma)$	χ_{JLA}^2	$1036.1 \quad (\nu: 1.3) \quad (-0.0\sigma)$
H_0	$69.3^{+2.0}_{-1.9} \quad (-0.1\sigma)$	z_{eq}	$3390^{+63}_{-63} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.14 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.703^{+0.017}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01035^{+0.00019}_{-0.00019} \quad (-0.4\sigma)$	χ_{MGS}^2	$2.73 \quad (\nu: 0.3) \quad (-0.0\sigma)$
Ω_{m}	$0.297^{+0.018}_{-0.017} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.012}_{-0.012} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$5.2 \quad (\nu: 1.0) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0061}_{-0.0060} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0987^{+0.0033}_{-0.0032} \quad (-0.3\sigma)$	$H(0.15)$	$74.3^{+1.7}_{-1.7} \quad (-0.1\sigma)$	χ_{CMB}^2	$11942.3 \quad (\nu: 15.9) \quad (+1597.4\sigma)$
σ_8	$0.827^{+0.027}_{-0.028} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$627^{+15}_{-14} \quad (+0.1\sigma)$	χ_{BAO}^2	$8.0 \quad (\nu: 2.2) \quad (-0.0\sigma)$
S_8	$0.823^{+0.029}_{-0.028} \quad (-0.3\sigma)$	$H(0.38)$	$83.7^{+1.6}_{-1.6} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 13000.80; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9151.01; R - 1 = 0.01150$$

20 yhe

20.1 base_yhe_plikHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02210	$0.02212^{+0.00080}_{-0.00076}$	$\sigma_8 \Omega_m^{0.5}$	0.4596	$0.460^{+0.035}_{-0.034}$	$H(0.15)$	72.21	$72.3^{+2.6}_{-2.4}$
$\Omega_c h^2$	0.1206	$0.1206^{+0.0055}_{-0.0055}$	$\sigma_8 \Omega_m^{0.25}$	0.6106	$0.611^{+0.030}_{-0.030}$	$D_M(0.15)$	648.0	648^{+25}_{-25}
$100\theta_{MC}$	1.04067	$1.0408^{+0.0023}_{-0.0023}$	$\sigma_8/h^{0.5}$	0.9924	$0.992^{+0.041}_{-0.041}$	$H(0.38)$	82.48	$82.5^{+2.0}_{-1.8}$
τ	0.0518	$0.052^{+0.022}_{-0.023}$	$r_{drag} h$	98.40	$98.5^{+4.7}_{-4.5}$	$D_M(0.38)$	1543	1542^{+50}_{-51}
Y_P	0.242	$0.246^{+0.051}_{-0.054}$	$\langle d^2 \rangle^{1/2}$	2.452	$2.45^{+0.11}_{-0.11}$	$H(0.51)$	89.28	$89.3^{+1.7}_{-1.5}$
$\ln(10^{10} A_s)$	3.0391	$3.040^{+0.047}_{-0.047}$	z_{re}	7.48	$7.5^{+2.2}_{-2.6}$	$D_M(0.51)$	1997	1996^{+58}_{-60}
n_s	0.9627	$0.963^{+0.029}_{-0.028}$	$10^9 A_s$	2.089	$2.09^{+0.10}_{-0.097}$	$H(0.61)$	94.97	$95.0^{+1.4}_{-1.3}$
y_{cal}	1.0004	$1.0004^{+0.0067}_{-0.0063}$	$10^9 A_s e^{-2\tau}$	1.8831	$1.885^{+0.040}_{-0.039}$	$D_M(0.61)$	2323	2322^{+63}_{-65}
A_{217}^{CIB}	48.2	48^{+20}_{-20}	D_{40}	1232	1233^{+57}_{-55}	$H(2.33)$	236.68	$236.7^{+3.3}_{-3.2}$
$\xi^{tSZ \times CIB}$	0.38	—	D_{220}	5709	5713^{+100}_{-110}	$D_M(2.33)$	5780	5777^{+64}_{-69}
A_{143}^{tSZ}	7.0	—	D_{810}	2537.4	2536^{+37}_{-36}	$f\sigma_8(0.15)$	0.4634	$0.463^{+0.031}_{-0.032}$
A_{100}^{PS}	254	264^{+70}_{-80}	D_{1420}	815.9	814^{+14}_{-14}	$\sigma_8(0.15)$	0.7487	$0.749^{+0.023}_{-0.021}$
A_{143}^{PS}	49.8	49^{+20}_{-20}	D_{2000}	230.3	$229.4^{+6.5}_{-6.1}$	$f\sigma_8(0.38)$	0.4797	$0.480^{+0.024}_{-0.025}$
$A_{143 \times 217}^{PS}$	48.3	43^{+20}_{-20}	$n_{s,0.002}$	0.9627	$0.963^{+0.029}_{-0.028}$	$\sigma_8(0.38)$	0.6627	$0.663^{+0.020}_{-0.019}$
A_{217}^{PS}	119.9	115^{+30}_{-30}	Y_P	0.242	$0.246^{+0.051}_{-0.054}$	$f\sigma_8(0.51)$	0.4771	$0.477^{+0.021}_{-0.021}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.243	$0.247^{+0.051}_{-0.055}$	$\sigma_8(0.51)$	0.6197	$0.620^{+0.019}_{-0.018}$
A_{100}^{dustTT}	8.89	$9.0^{+4.7}_{-4.8}$	Age/Gyr	13.835	$13.83^{+0.15}_{-0.16}$	$f\sigma_8(0.61)$	0.4714	$0.471^{+0.018}_{-0.019}$
A_{143}^{dustTT}	10.88	$10.7^{+4.7}_{-4.6}$	z_*	1090.18	$1090.3^{+1.7}_{-1.7}$	$\sigma_8(0.61)$	0.5894	$0.590^{+0.018}_{-0.017}$
$A_{143 \times 217}^{dustTT}$	19.4	$18.3^{+8.6}_{-8.4}$	r_*	144.49	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	0.2968	$0.2970^{+0.0095}_{-0.0090}$
A_{217}^{dustTT}	94.7	93^{+20}_{-20}	$100\theta_*$	1.04096	$1.0410^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	0.3056	$0.306^{+0.010}_{-0.010}$
c_{100}	0.99965	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.880	$13.88^{+0.12}_{-0.12}$	f_{2000}^{143}	30.0	31^{+10}_{-10}
c_{217}	0.99823	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	1059.25	$1059.4^{+3.1}_{-3.1}$	$f_{2000}^{143 \times 217}$	33.0	34^{+7}_{-7}
H_0	66.83	$66.9^{+2.9}_{-2.8}$	r_{drag}	147.24	$147.2^{+1.3}_{-1.3}$	f_{2000}^{217}	107.5	$108.3^{+6.7}_{-6.6}$
Ω_Λ	0.6790	$0.679^{+0.036}_{-0.039}$	k_D	0.14064	$0.1405^{+0.0019}_{-0.0019}$	χ_{simall}^2	395.83	$396.9 (\nu: 1.4)$
Ω_m	0.3210	$0.321^{+0.039}_{-0.036}$	$100\theta_D$	0.16093	$0.1611^{+0.0019}_{-0.0020}$	χ_{lowl}^2	23.7	$24.0 (\nu: 2.1)$
$\Omega_m h^2$	0.1434	$0.1434^{+0.0051}_{-0.0051}$	z_{eq}	3411	3411^{+120}_{-120}	χ_{plik}^2	758.7	$772.2 (\nu: 16.6)$
$\Omega_m h^3$	0.09582	$0.0959^{+0.0021}_{-0.0020}$	k_{eq}	0.010410	$0.01041^{+0.00037}_{-0.00037}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.8)$
σ_8	0.8113	$0.812^{+0.025}_{-0.024}$	$100\theta_{eq}$	0.8109	$0.811^{+0.024}_{-0.023}$	χ_{CMB}^2	1178.2	$1193.1 (\nu: 16.1)$
S_8	0.839	$0.839^{+0.063}_{-0.063}$	$100\theta_{s,eq}$	0.4483	$0.448^{+0.012}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 1179.56$; $\bar{\chi}_{\text{eff}}^2 = 1200.43$; $R - 1 = 0.00562$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.83 commander_dx12_v3.2_29: 23.69 plik_rd12_HM_v22_TT: 758.72

20.2 base_yhe_plikHM_TT_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02227^{+0.00065}_{-0.00063}$	$\sigma_8 \Omega_m^{0.25}$	0.6030	$0.603^{+0.022}_{-0.020}$	$H(0.38)$	83.02	$83.1^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11890	$0.1190^{+0.0032}_{-0.0032}$	$\sigma_8/h^{0.5}$	0.9827	$0.983^{+0.033}_{-0.029}$	$D_M(0.38)$	1528.1	1527^{+28}_{-28}
$100\theta_{MC}$	1.04108	$1.0413^{+0.0019}_{-0.0019}$	$r_{drag}h$	99.86	$99.9^{+2.5}_{-2.5}$	$H(0.51)$	89.72	$89.8^{+1.0}_{-0.97}$
τ	0.0545	$0.054^{+0.022}_{-0.020}$	$\langle d^2 \rangle^{1/2}$	2.425	$2.424^{+0.074}_{-0.075}$	$D_M(0.51)$	1979.9	1979^{+34}_{-33}
Y_P	0.2484	$0.253^{+0.048}_{-0.049}$	z_{re}	7.73	$7.6^{+2.1}_{-2.2}$	$H(0.61)$	95.31	$95.37^{+0.92}_{-0.88}$
$\ln(10^{10} A_s)$	3.0423	$3.042^{+0.047}_{-0.042}$	$10^9 A_s$	2.095	$2.09^{+0.10}_{-0.087}$	$D_M(0.61)$	2304.2	2303^{+37}_{-36}
n_s	0.9688	$0.969^{+0.022}_{-0.021}$	$10^9 A_s e^{-2\tau}$	1.8788	$1.881^{+0.039}_{-0.037}$	$H(2.33)$	235.73	$235.8^{+2.1}_{-2.1}$
y_{cal}	1.0005	$1.0005^{+0.0068}_{-0.0063}$	D_{40}	1221.0	1221^{+44}_{-43}	$D_M(2.33)$	5764.1	5761^{+47}_{-50}
A_{217}^{CIB}	49.2	49^{+20}_{-20}	D_{220}	5716	5720^{+100}_{-100}	$f\sigma_8(0.15)$	0.4545	$0.455^{+0.020}_{-0.019}$
$\xi^{tSZ \times CIB}$	0.24	—	D_{810}	2537.3	2537^{+37}_{-35}	$\sigma_8(0.15)$	0.7473	$0.748^{+0.023}_{-0.020}$
A_{143}^{tSZ}	7.0	—	D_{1420}	816.0	815^{+14}_{-13}	$f\sigma_8(0.38)$	0.4732	$0.473^{+0.018}_{-0.016}$
A_{100}^{PS}	256	267^{+70}_{-70}	D_{2000}	230.0	$229.1^{+6.3}_{-6.0}$	$\sigma_8(0.38)$	0.6627	$0.663^{+0.020}_{-0.018}$
A_{143}^{PS}	49.1	50^{+20}_{-20}	$n_{s,0.002}$	0.9688	$0.969^{+0.022}_{-0.021}$	$f\sigma_8(0.51)$	0.4721	$0.472^{+0.017}_{-0.015}$
$A_{143 \times 217}^{PS}$	45.0	44^{+20}_{-20}	Y_P	0.2484	$0.253^{+0.048}_{-0.049}$	$\sigma_8(0.51)$	0.6202	$0.621^{+0.019}_{-0.016}$
A_{217}^{PS}	118.6	115^{+30}_{-30}	Y_P^{BBN}	0.2498	$0.255^{+0.048}_{-0.049}$	$f\sigma_8(0.61)$	0.4673	$0.468^{+0.016}_{-0.014}$
A^{kSZ}	0.0	—	Age/Gyr	13.800	$13.79^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	0.5902	$0.591^{+0.018}_{-0.016}$
A_{100}^{dustTT}	8.93	$9.0^{+4.8}_{-5.0}$	z_*	1090.10	$1090.3^{+1.7}_{-1.7}$	$f\sigma_8(2.33)$	0.2977	$0.2978^{+0.0092}_{-0.0082}$
A_{143}^{dustTT}	10.77	$10.8^{+4.7}_{-4.9}$	r_*	144.80	$144.73^{+0.94}_{-0.95}$	$\sigma_8(2.33)$	0.3070	$0.3072^{+0.0099}_{-0.0086}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.6}_{-8.3}$	$100\theta_*$	1.04121	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	30.7	32^{+10}_{-10}
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	$D_M(z_*)/\text{Gpc}$	13.907	$13.900^{+0.094}_{-0.097}$	$f_{2000}^{143 \times 217}$	33.4	34^{+7}_{-7}
c_{100}	0.99961	$0.9996^{+0.0015}_{-0.0017}$	z_{drag}	1059.67	$1059.9^{+2.9}_{-2.7}$	f_{2000}^{217}	107.9	$108.7^{+6.6}_{-6.6}$
c_{217}	0.99828	$0.9983^{+0.0017}_{-0.0016}$	r_{drag}	147.51	$147.4^{+1.1}_{-1.1}$	χ_{small}^2	396.06	$397.0 (\nu: 1.5)$
H_0	67.70	$67.7^{+1.6}_{-1.6}$	k_D	0.14021	$0.1401^{+0.0015}_{-0.0015}$	χ_{lowl}^2	22.64	$22.8 (\nu: 0.9)$
Ω_Λ	0.6906	$0.691^{+0.019}_{-0.020}$	$100\theta_D$	0.16112	$0.1613^{+0.0018}_{-0.0019}$	χ_{plik}^2	760.1	$773.3 (\nu: 16.3)$
Ω_m	0.3094	$0.309^{+0.020}_{-0.019}$	z_{eq}	3373	3376^{+74}_{-74}	χ_{6DF}^2	0.016	$0.056 (\nu: 0.0)$
$\Omega_m h^2$	0.14179	$0.1419^{+0.0031}_{-0.0031}$	k_{eq}	0.010295	$0.01030^{+0.00023}_{-0.00023}$	χ_{MGS}^2	1.34	$1.41 (\nu: 0.2)$
$\Omega_m h^3$	0.09599	$0.0961^{+0.0020}_{-0.0019}$	$100\theta_{eq}$	0.8183	$0.818^{+0.014}_{-0.013}$	$\chi_{DR12BAO}^2$	4.05	$4.7 (\nu: 1.3)$
σ_8	0.8085	$0.809^{+0.025}_{-0.022}$	$100\theta_{s,eq}$	0.4521	$0.4519^{+0.0072}_{-0.0069}$	χ_{prior}^2	1.5	$7.3 (\nu: 6.9)$
S_8	0.8211	$0.822^{+0.039}_{-0.037}$	$H(0.15)$	72.95	$73.0^{+1.4}_{-1.4}$	χ_{BAO}^2	5.41	$6.2 (\nu: 0.9)$
$\sigma_8 \Omega_m^{0.5}$	0.4497	$0.450^{+0.022}_{-0.020}$	$D_M(0.15)$	640.5	640^{+14}_{-13}	χ_{CMB}^2	1178.8	$1193.1 (\nu: 15.7)$

Best-fit $\chi_{eff}^2 = 1185.74$; $\bar{\chi}_{eff}^2 = 1206.53$; $R - 1 = 0.01126$

χ_{eff}^2 : BAO - 6DF: 0.02 MGS: 1.34 DR12BAO: 4.05 CMB - small_100x143.offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2.29: 22.64 plik_rd12_HM_v22.TT: 760.12

20.3 base_yhe_plikHM_TT_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02213^{+0.00074}_{-0.00073}$	$\sigma_8 \Omega_m^{0.5}$	0.4568	$0.457^{+0.023}_{-0.023}$	$H(0.15)$	72.36	$72.4^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.12014	$0.1203^{+0.0041}_{-0.0042}$	$\sigma_8 \Omega_m^{0.25}$	0.6081	$0.609^{+0.020}_{-0.020}$	$D_M(0.15)$	646.5	646^{+20}_{-19}
$100\theta_{MC}$	1.04064	$1.0408^{+0.0022}_{-0.0022}$	$\sigma_8/h^{0.5}$	0.9890	$0.990^{+0.027}_{-0.028}$	$H(0.38)$	82.57	$82.6^{+1.6}_{-1.5}$
τ	0.0525	$0.052^{+0.022}_{-0.023}$	$r_{drag} h$	98.74	$98.7^{+3.6}_{-3.5}$	$D_M(0.38)$	1540.2	1540^{+41}_{-40}
Y_P	0.239	$0.244^{+0.050}_{-0.054}$	$\langle d^2 \rangle^{1/2}$	2.448	$2.448^{+0.074}_{-0.074}$	$H(0.51)$	89.35	$89.4^{+1.4}_{-1.3}$
$\ln(10^{10} A_s)$	3.0392	$3.039^{+0.045}_{-0.045}$	z_{re}	7.53	$7.5^{+2.2}_{-2.5}$	$D_M(0.51)$	1994.1	1994^{+49}_{-48}
n_s	0.9626	$0.963^{+0.026}_{-0.025}$	$10^9 A_s$	2.089	$2.089^{+0.097}_{-0.091}$	$H(0.61)$	95.01	$95.0^{+1.2}_{-1.2}$
y_{cal}	1.0005	$1.0004^{+0.0066}_{-0.0062}$	$10^9 A_s e^{-2\tau}$	1.8806	$1.882^{+0.038}_{-0.036}$	$D_M(0.61)$	2320	2319^{+53}_{-52}
A_{217}^{CIB}	47.8	48^{+20}_{-20}	D_{40}	1232.7	1233^{+49}_{-49}	$H(2.33)$	236.39	$236.5^{+2.5}_{-2.5}$
$\xi^{tSZ \times CIB}$	0.46	—	D_{220}	5715	5716^{+100}_{-110}	$D_M(2.33)$	5778	5776^{+60}_{-61}
A_{143}^{tSZ}	6.9	—	D_{810}	2537.6	2536^{+37}_{-35}	$f\sigma_8(0.15)$	0.4608	$0.461^{+0.021}_{-0.021}$
A_{100}^{PS}	252	264^{+70}_{-70}	D_{1420}	816.7	814^{+14}_{-14}	$\sigma_8(0.15)$	0.7475	$0.748^{+0.020}_{-0.018}$
A_{143}^{PS}	50.2	49^{+20}_{-20}	D_{2000}	230.7	$229.6^{+6.4}_{-6.1}$	$f\sigma_8(0.38)$	0.4776	$0.478^{+0.016}_{-0.016}$
$A_{143 \times 217}^{PS}$	49.5	43^{+20}_{-20}	$n_{s,0.002}$	0.9626	$0.963^{+0.026}_{-0.025}$	$\sigma_8(0.38)$	0.6618	$0.662^{+0.018}_{-0.017}$
A_{217}^{PS}	119.9	115^{+30}_{-30}	Y_P	0.239	$0.244^{+0.050}_{-0.054}$	$f\sigma_8(0.51)$	0.4754	$0.476^{+0.014}_{-0.014}$
A^{kSZ}	0.0	—	Y_P^{BBN}	0.241	$0.246^{+0.050}_{-0.054}$	$\sigma_8(0.51)$	0.6191	$0.619^{+0.018}_{-0.017}$
A_{100}^{dustTT}	8.86	$8.9^{+4.7}_{-5.0}$	Age/Gyr	13.831	$13.83^{+0.14}_{-0.14}$	$f\sigma_8(0.61)$	0.4699	$0.470^{+0.013}_{-0.013}$
A_{143}^{dustTT}	10.77	$10.7^{+4.7}_{-4.7}$	z_*	1090.00	$1090.2^{+1.7}_{-1.6}$	$\sigma_8(0.61)$	0.5889	$0.589^{+0.017}_{-0.016}$
$A_{143 \times 217}^{dustTT}$	19.5	$18.3^{+8.7}_{-8.4}$	r_*	144.60	$144.6^{+1.0}_{-0.97}$	$f\sigma_8(2.33)$	0.2967	$0.2968^{+0.0093}_{-0.0087}$
A_{217}^{dustTT}	94.8	93^{+20}_{-20}	$100\theta_*$	1.04100	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3055	$0.306^{+0.010}_{-0.0098}$
c_{100}	0.99965	$0.9996^{+0.0015}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.891	$13.886^{+0.095}_{-0.093}$	f_{2000}^{143}	29.6	31^{+10}_{-10}
c_{217}	0.99824	$0.9983^{+0.0017}_{-0.0016}$	z_{drag}	1059.17	$1059.4^{+3.1}_{-3.0}$	$f_{2000}^{143 \times 217}$	32.6	34^{+7}_{-7}
H_0	67.01	$67.0^{+2.3}_{-2.2}$	r_{drag}	147.34	$147.3^{+1.1}_{-1.1}$	f_{2000}^{217}	107.0	$108.1^{+6.8}_{-6.5}$
Ω_Λ	0.6817	$0.681^{+0.028}_{-0.029}$	k_D	0.14065	$0.1405^{+0.0017}_{-0.0017}$	$\chi_{lensing}^2$	8.83	$9.48 (\nu: 0.4)$
Ω_m	0.3183	$0.319^{+0.029}_{-0.028}$	$100\theta_D$	0.16080	$0.1610^{+0.0020}_{-0.0020}$	χ_{small}^2	395.86	$396.8 (\nu: 1.2)$
$\Omega_m h^2$	0.14291	$0.1430^{+0.0039}_{-0.0039}$	z_{eq}	3400	3403^{+92}_{-93}	χ_{lowl}^2	23.69	$23.9 (\nu: 1.6)$
$\Omega_m h^3$	0.09577	$0.0959^{+0.0021}_{-0.0020}$	k_{eq}	0.010376	$0.01038^{+0.00028}_{-0.00029}$	χ_{plik}^2	758.8	$771.8 (\nu: 15.4)$
σ_8	0.8096	$0.810^{+0.020}_{-0.019}$	$100\theta_{eq}$	0.8128	$0.813^{+0.018}_{-0.017}$	χ_{prior}^2	1.3	$7.3 (\nu: 6.9)$
S_8	0.8339	$0.835^{+0.042}_{-0.042}$	$100\theta_{s,eq}$	0.4493	$0.4492^{+0.0094}_{-0.0088}$	χ_{CMB}^2	1187.2	$1202.1 (\nu: 16.4)$

Best-fit $\chi_{eff}^2 = 1188.45$; $\bar{\chi}_{eff}^2 = 1209.39$; $R - 1 = 0.00784$

χ_{eff}^2 : CMB - smicadx12_Dec5_ftl_mv2_ndclpp_p.teb.consext8: 8.83 small_100x143_offlike5_EE_Aplanck_B: 395.86 commander_dx12_v3.2_29: 23.69 plik_rd12_HM.v22.TT: 758.77

20.4 base_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02224	$0.02226^{+0.00066}_{-0.00062}$	$\sigma_8/h^{0.5}$	0.9849	$0.985^{+0.025}_{-0.025}$	$H(0.51)$	89.66	$89.7^{+1.0}_{-0.95}$
$\Omega_c h^2$	0.11918	$0.1191^{+0.0028}_{-0.0028}$	$r_{\text{drag}} h$	99.65	$99.7^{+2.3}_{-2.3}$	$D_M(0.51)$	1982.2	1981^{+32}_{-32}
$100\theta_{\text{MC}}$	1.04106	$1.0412^{+0.0019}_{-0.0019}$	$\langle d^2 \rangle^{1/2}$	2.432	$2.431^{+0.060}_{-0.059}$	$H(0.61)$	95.28	$95.33^{+0.93}_{-0.87}$
τ	0.0549	$0.055^{+0.021}_{-0.019}$	z_{re}	7.77	$7.8^{+2.0}_{-2.0}$	$D_M(0.61)$	2306.6	2305^{+35}_{-35}
Y_{P}	0.2480	$0.251^{+0.049}_{-0.049}$	$10^9 A_{\text{s}}$	2.098	$2.100^{+0.093}_{-0.080}$	$H(2.33)$	235.90	$235.9^{+1.9}_{-1.9}$
$\ln(10^{10} A_{\text{s}})$	3.0437	$3.045^{+0.043}_{-0.039}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8802	$1.882^{+0.038}_{-0.035}$	$D_M(2.33)$	5765.6	5763^{+47}_{-50}
n_{s}	0.9674	$0.968^{+0.021}_{-0.020}$	D_{40}	1224.6	1224^{+42}_{-42}	$f\sigma_8(0.15)$	0.4562	$0.456^{+0.016}_{-0.016}$
y_{cal}	1.0005	$1.0006^{+0.0067}_{-0.0062}$	D_{220}	5720	5724^{+100}_{-100}	$\sigma_8(0.15)$	0.7482	$0.749^{+0.019}_{-0.018}$
A_{217}^{CIB}	50.2	48^{+20}_{-20}	D_{810}	2537.4	2538^{+36}_{-34}	$f\sigma_8(0.38)$	0.4746	$0.475^{+0.014}_{-0.014}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.12	—	D_{1420}	815.7	815^{+13}_{-13}	$\sigma_8(0.38)$	0.6633	$0.664^{+0.018}_{-0.016}$
A_{143}^{tSZ}	7.2	—	D_{2000}	229.9	$229.4^{+6.2}_{-6.0}$	$f\sigma_8(0.51)$	0.4732	$0.473^{+0.013}_{-0.013}$
A_{100}^{PS}	256	266^{+70}_{-70}	$n_{\text{s},0.002}$	0.9674	$0.968^{+0.021}_{-0.020}$	$\sigma_8(0.51)$	0.6207	$0.621^{+0.017}_{-0.015}$
A_{143}^{PS}	46.8	50^{+20}_{-20}	Y_{P}	0.2480	$0.251^{+0.049}_{-0.049}$	$f\sigma_8(0.61)$	0.4683	$0.468^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\text{PS}}$	41.9	44^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2494	$0.253^{+0.049}_{-0.049}$	$\sigma_8(0.61)$	0.5906	$0.591^{+0.017}_{-0.015}$
A_{217}^{PS}	117.1	115^{+30}_{-30}	Age/Gyr	13.803	$13.80^{+0.11}_{-0.12}$	$f\sigma_8(2.33)$	0.2978	$0.2981^{+0.0085}_{-0.0076}$
A^{kSZ}	0.0	—	z_*	1090.13	$1090.2^{+1.7}_{-1.6}$	$\sigma_8(2.33)$	0.3071	$0.3074^{+0.0090}_{-0.0081}$
A_{100}^{dustTT}	8.95	$9.0^{+4.6}_{-4.9}$	r_*	144.74	$144.72^{+0.91}_{-0.91}$	f_{2000}^{143}	30.8	32^{+10}_{-10}
A_{143}^{dustTT}	10.80	$10.7^{+4.7}_{-4.9}$	$100\theta_*$	1.04119	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	33.5	34^{+7}_{-7}
$A_{143 \times 217}^{\text{dustTT}}$	19.2	$18.3^{+8.6}_{-8.3}$	$D_M(z_*)/\text{Gpc}$	13.901	$13.899^{+0.091}_{-0.093}$	f_{2000}^{217}	108.0	$108.6^{+6.6}_{-6.6}$
A_{217}^{dustTT}	94.2	93^{+20}_{-20}	z_{drag}	1059.67	$1059.8^{+3.0}_{-2.7}$	χ_{lensing}^2	8.88	$9.36 (\nu: 0.3)$
c_{100}	0.99965	$0.9996^{+0.0015}_{-0.0017}$	r_{drag}	147.45	$147.4^{+1.0}_{-1.1}$	χ_{small}^2	396.18	$397.0 (\nu: 1.5)$
c_{217}	0.99826	$0.9983^{+0.0017}_{-0.0016}$	k_{D}	0.14028	$0.1402^{+0.0015}_{-0.0015}$	χ_{lowl}^2	22.92	$23.0 (\nu: 0.9)$
H_0	67.58	$67.7^{+1.5}_{-1.5}$	$100\theta_{\text{D}}$	0.16110	$0.1613^{+0.0019}_{-0.0018}$	χ_{plik}^2	759.5	$772.7 (\nu: 15.5)$
Ω_{Λ}	0.6890	$0.690^{+0.017}_{-0.018}$	z_{eq}	3379	3379^{+66}_{-68}	$\chi_{6\text{DF}}^2$	0.029	$0.057 (\nu: 0.0)$
Ω_{m}	0.3110	$0.310^{+0.018}_{-0.017}$	k_{eq}	0.010314	$0.01031^{+0.00020}_{-0.00021}$	χ_{MGS}^2	1.22	$1.33 (\nu: 0.1)$
$\Omega_{\text{m}} h^2$	0.14206	$0.1421^{+0.0028}_{-0.0028}$	$100\theta_{\text{eq}}$	0.8171	$0.817^{+0.012}_{-0.012}$	χ_{DR12BAO}^2	4.37	$4.8 (\nu: 1.2)$
$\Omega_{\text{m}} h^3$	0.09601	$0.0961^{+0.0020}_{-0.0019}$	$100\theta_{\text{s,eq}}$	0.4515	$0.4516^{+0.0064}_{-0.0061}$	χ_{prior}^2	1.5	$7.3 (\nu: 7.0)$
σ_8	0.8096	$0.810^{+0.021}_{-0.019}$	$H(0.15)$	72.85	$72.9^{+1.4}_{-1.3}$	χ_{CMB}^2	1187.5	$1202.1 (\nu: 15.9)$
S_8	0.8244	$0.824^{+0.032}_{-0.031}$	$D_M(0.15)$	641.5	641^{+13}_{-13}	χ_{BAO}^2	5.62	$6.2 (\nu: 0.8)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4515	$0.451^{+0.017}_{-0.017}$	$H(0.38)$	82.95	$83.0^{+1.1}_{-1.1}$			
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6046	$0.605^{+0.017}_{-0.017}$	$D_M(0.38)$	1530.1	1529^{+27}_{-27}			

Best-fit $\chi_{\text{eff}}^2 = 1194.68$; $\bar{\chi}_{\text{eff}}^2 = 1215.53$; $R - 1 = 0.01408$

χ_{eff}^2 : BAO - 6DF: 0.03 MGS: 1.22 DR12BAO: 4.37 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.88 small_100x143.offlike5_EE_Aplanck_B: 396.18 commander_dx12.v3.2.29: 22.92 plik_rd12_HM.v22_TT: 759.54

20.5 base_yhe_plikHM_TT_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02254	$0.02257^{+0.00063}_{-0.00071}$	$\sigma_8 \Omega_m^{0.5}$	0.4379	$0.437^{+0.031}_{-0.029}$	$H(0.15)$	74.00	$74.1^{+2.1}_{-2.2}$
$\Omega_c h^2$	0.11695	$0.1168^{+0.0049}_{-0.0046}$	$\sigma_8 \Omega_m^{0.25}$	0.5940	$0.594^{+0.029}_{-0.028}$	$D_M(0.15)$	630.5	629^{+21}_{-20}
$100\theta_{MC}$	1.04184	$1.0420^{+0.0020}_{-0.0021}$	$\sigma_8/h^{0.5}$	0.9709	$0.970^{+0.040}_{-0.038}$	$H(0.38)$	83.83	$84.0^{+1.6}_{-1.7}$
τ	0.0566	$0.057^{+0.023}_{-0.021}$	$r_{drag} h$	101.72	$101.9^{+4.1}_{-4.1}$	$D_M(0.38)$	1507.6	1505^{+43}_{-40}
Y_P	0.2625	$0.268^{+0.045}_{-0.050}$	$\langle d^2 \rangle^{1/2}$	2.387	$2.38^{+0.10}_{-0.10}$	$H(0.51)$	90.39	$90.5^{+1.3}_{-1.4}$
$\ln(10^{10} A_s)$	3.0460	$3.047^{+0.053}_{-0.043}$	z_{re}	7.91	$7.9^{+2.1}_{-2.2}$	$D_M(0.51)$	1955.5	1952^{+51}_{-48}
n_s	0.9787	$0.981^{+0.026}_{-0.025}$	$10^9 A_s$	2.103	$2.11^{+0.11}_{-0.088}$	$H(0.61)$	95.89	$96.0^{+1.2}_{-1.2}$
y_{cal}	1.0006	$1.0004^{+0.0079}_{-0.0066}$	$10^9 A_s e^{-2\tau}$	1.8778	$1.879^{+0.042}_{-0.040}$	$D_M(0.61)$	2278	2274^{+55}_{-52}
A_{217}^{CIB}	50.3	50^{+20}_{-20}	D_{40}	1204	1201^{+52}_{-63}	$H(2.33)$	234.81	$234.8^{+3.0}_{-2.8}$
$\xi^{tSZ \times CIB}$	0.17	—	D_{220}	5729	5729^{+130}_{-120}	$D_M(2.33)$	5737	5733^{+58}_{-57}
A_{143}^{tSZ}	6.9	—	D_{810}	2539.4	2538^{+41}_{-38}	$f\sigma_8(0.15)$	0.4437	$0.443^{+0.029}_{-0.027}$
A_{100}^{PS}	259	271^{+70}_{-70}	D_{1420}	816.3	815^{+15}_{-13}	$\sigma_8(0.15)$	0.7462	$0.747^{+0.026}_{-0.021}$
A_{143}^{PS}	49.2	52^{+20}_{-20}	D_{2000}	229.4	$228.5^{+6.1}_{-6.5}$	$f\sigma_8(0.38)$	0.4656	$0.465^{+0.024}_{-0.021}$
$A_{143 \times 217}^{PS}$	44	44^{+30}_{-20}	$n_{s,0.002}$	0.9787	$0.981^{+0.026}_{-0.025}$	$\sigma_8(0.38)$	0.6633	$0.664^{+0.022}_{-0.018}$
A_{217}^{PS}	117.7	114^{+20}_{-30}	Y_P	0.2625	$0.268^{+0.045}_{-0.050}$	$f\sigma_8(0.51)$	0.4661	$0.466^{+0.021}_{-0.020}$
A^{kSZ}	0.6	—	Y_P^{BBN}	0.2639	$0.270^{+0.045}_{-0.050}$	$\sigma_8(0.51)$	0.6215	$0.622^{+0.020}_{-0.016}$
A_{100}^{dustTT}	8.98	$9.0^{+4.8}_{-4.7}$	Age/Gyr	13.740	$13.73^{+0.13}_{-0.13}$	$f\sigma_8(0.61)$	0.4624	$0.462^{+0.019}_{-0.018}$
A_{143}^{dustTT}	10.87	$10.8^{+4.6}_{-4.6}$	z_*	1090.14	$1090.3^{+1.6}_{-1.7}$	$\sigma_8(0.61)$	0.5918	$0.592^{+0.019}_{-0.016}$
$A_{143 \times 217}^{dustTT}$	19.2	$18.3^{+8.7}_{-8.3}$	r_*	145.03	$145.0^{+1.1}_{-1.2}$	$f\sigma_8(2.33)$	0.2991	$0.2994^{+0.0097}_{-0.0084}$
A_{217}^{dustTT}	93.9	92^{+20}_{-20}	$100\theta_*$	1.04156	$1.0416^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	0.3091	$0.310^{+0.010}_{-0.0091}$
c_{100}	0.99963	$0.9996^{+0.0016}_{-0.0016}$	$D_M(z_*)/\text{Gpc}$	13.925	$13.92^{+0.10}_{-0.12}$	f_{2000}^{143}	31.8	33^{+9}_{-9}
c_{217}	0.99825	$0.9983^{+0.0014}_{-0.0014}$	z_{drag}	1060.66	$1060.9^{+2.6}_{-3.0}$	$f_{2000}^{143 \times 217}$	34.3	35^{+8}_{-8}
H_0	68.88	$69.0^{+2.4}_{-2.5}$	r_{drag}	147.67	$147.7^{+1.1}_{-1.3}$	f_{2000}^{217}	108.7	$109.5^{+6.7}_{-6.4}$
Ω_Λ	0.7047	$0.706^{+0.028}_{-0.031}$	k_D	0.13970	$0.1395^{+0.0018}_{-0.0020}$	χ_{simall}^2	396.3	$397.3 (\nu: 2.3)$
Ω_m	0.2953	$0.294^{+0.031}_{-0.028}$	$100\theta_D$	0.16150	$0.1618^{+0.0018}_{-0.0019}$	χ_{lowl}^2	21.31	$21.4 (\nu: 0.7)$
$\Omega_m h^2$	0.14014	$0.1400^{+0.0047}_{-0.0048}$	z_{eq}	3333	3331^{+110}_{-110}	χ_{plik}^2	764.1	$778.0 (\nu: 23.1)$
$\Omega_m h^3$	0.09653	$0.0967^{+0.0018}_{-0.0019}$	k_{eq}	0.010174	$0.01017^{+0.00034}_{-0.00035}$	$\chi_{H073p45}^2$	7.6	$7.4 (\nu: 5.3)$
σ_8	0.8058	$0.806^{+0.029}_{-0.023}$	$100\theta_{eq}$	0.8270	$0.828^{+0.021}_{-0.021}$	χ_{prior}^2	1.6	$7.5 (\nu: 7.7)$
S_8	0.800	$0.798^{+0.057}_{-0.052}$	$100\theta_{s,eq}$	0.4564	$0.457^{+0.011}_{-0.011}$	χ_{CMB}^2	1181.6	$1196.7 (\nu: 20.3)$

Best-fit $\chi_{\text{eff}}^2 = 1190.84$; $\bar{\chi}_{\text{eff}}^2 = 1211.61$; $R - 1 = 0.08259$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.26 commander_dx12_v3.2_29: 21.31 plik_rd12_HM_v22_TT: 764.07 Hubble - H073p45: 7.57

20.6 base_yhe_plikHM_TT_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02213^{+0.00080}_{-0.00075}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.035}_{-0.034}$	$H(0.15)$	$72.3^{+2.6}_{-2.4}$
$\Omega_{\mathrm{c}}h^2$	$0.1205^{+0.0055}_{-0.0055}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(0.15)$	647^{+25}_{-25}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0023}_{-0.0023}$	$\sigma_8/h^{0.5}$	$0.993^{+0.040}_{-0.040}$	$H(0.38)$	$82.6^{+2.0}_{-1.8}$
τ	$0.054^{+0.019}_{-0.012}$	$r_{\mathrm{drag}}h$	$98.6^{+4.7}_{-4.5}$	$D_{\mathrm{M}}(0.38)$	1541^{+49}_{-51}
Y_{P}	$0.247^{+0.051}_{-0.054}$	$\langle d^2 \rangle^{1/2}$	$2.45^{+0.11}_{-0.11}$	$H(0.51)$	$89.4^{+1.7}_{-1.5}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.045}_{-0.032}$	z_{re}	< 9.46	$D_{\mathrm{M}}(0.51)$	1995^{+58}_{-60}
n_{s}	$0.964^{+0.028}_{-0.027}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.096}_{-0.066}$	$H(0.61)$	$95.1^{+1.4}_{-1.2}$
y_{cal}	$1.0004^{+0.0066}_{-0.0063}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.885^{+0.040}_{-0.039}$	$D_{\mathrm{M}}(0.61)$	2320^{+63}_{-66}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1233^{+56}_{-55}	$H(2.33)$	$236.7^{+3.2}_{-3.2}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5713^{+100}_{-110}	$D_{\mathrm{M}}(2.33)$	5776^{+64}_{-69}
A_{143}^{tSZ}	—	D_{810}	2536^{+37}_{-36}	$f\sigma_8(0.15)$	$0.464^{+0.031}_{-0.032}$
A_{100}^{PS}	264^{+70}_{-80}	D_{1420}	814^{+14}_{-14}	$\sigma_8(0.15)$	$0.750^{+0.022}_{-0.019}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.4^{+6.5}_{-6.1}$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.025}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.964^{+0.028}_{-0.027}$	$\sigma_8(0.38)$	$0.664^{+0.019}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.247^{+0.051}_{-0.054}$	$f\sigma_8(0.51)$	$0.478^{+0.020}_{-0.021}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.248^{+0.051}_{-0.054}$	$\sigma_8(0.51)$	$0.621^{+0.018}_{-0.015}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.7}_{-4.8}$	Age/Gyr	$13.83^{+0.15}_{-0.16}$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.019}$
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.6}$	z_*	$1090.3^{+1.7}_{-1.6}$	$\sigma_8(0.61)$	$0.591^{+0.017}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.4}$	r_*	$144.5^{+1.2}_{-1.2}$	$f\sigma_8(2.33)$	$0.2976^{+0.0091}_{-0.0072}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0013}_{-0.0013}$	$\sigma_8(2.33)$	$0.3065^{+0.0099}_{-0.0081}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	31^{+10}_{-10}
c_{217}	$0.9983^{+0.0016}_{-0.0016}$	z_{drag}	$1059.5^{+3.2}_{-3.1}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
H_0	$67.0^{+2.9}_{-2.7}$	r_{drag}	$147.2^{+1.3}_{-1.3}$	f_{2000}^{217}	$108.3^{+6.7}_{-6.6}$
Ω_{Λ}	$0.680^{+0.036}_{-0.039}$	k_{D}	$0.1405^{+0.0019}_{-0.0019}$	χ_{simall}^2	$396.8 (\nu: 1.3)$
Ω_{m}	$0.320^{+0.039}_{-0.036}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0020}$	χ_{lowl}^2	$23.9 (\nu: 2.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1433^{+0.0051}_{-0.0051}$	z_{eq}	3409^{+120}_{-120}	χ_{plik}^2	$772.1 (\nu: 16.7)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0021}_{-0.0020}$	k_{eq}	$0.01040^{+0.00037}_{-0.00037}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
σ_8	$0.813^{+0.025}_{-0.022}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.024}_{-0.023}$	χ_{CMB}^2	$1192.9 (\nu: 15.6)$
S_8	$0.839^{+0.063}_{-0.063}$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.012}_{-0.012}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1200.15; R - 1 = 0.00514$$

20.7 base_yhe_plikHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02228^{+0.00065}_{-0.00063}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.022}_{-0.020}$	$H(0.38)$	$83.1^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0032}_{-0.0032}$	$\sigma_8 / h^{0.5}$	$0.984^{+0.032}_{-0.029}$	$D_{\mathrm{M}}(0.38)$	1527^{+28}_{-28}
$100\theta_{\mathrm{MC}}$	$1.0413^{+0.0019}_{-0.0019}$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.5}$	$H(0.51)$	$89.8^{+1.0}_{-0.98}$
τ	$0.055^{+0.019}_{-0.014}$	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.072}_{-0.070}$	$D_{\mathrm{M}}(0.51)$	1979^{+34}_{-33}
Y_{P}	$0.253^{+0.048}_{-0.049}$	z_{re}	< 9.58	$H(0.61)$	$95.37^{+0.92}_{-0.88}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.045}_{-0.033}$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.097}_{-0.068}$	$D_{\mathrm{M}}(0.61)$	2303^{+37}_{-36}
n_{s}	$0.969^{+0.022}_{-0.021}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.881^{+0.040}_{-0.037}$	$H(2.33)$	$235.8^{+2.1}_{-2.1}$
y_{cal}	$1.0005^{+0.0068}_{-0.0064}$	D_{40}	1221^{+43}_{-43}	$D_{\mathrm{M}}(2.33)$	5761^{+47}_{-50}
A_{217}^{CIB}	49^{+20}_{-20}	D_{220}	5719^{+100}_{-100}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.019}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2537^{+37}_{-35}	$\sigma_8(0.15)$	$0.749^{+0.022}_{-0.018}$
A_{143}^{tSZ}	—	D_{1420}	815^{+14}_{-13}	$f\sigma_8(0.38)$	$0.474^{+0.017}_{-0.016}$
A_{100}^{PS}	267^{+70}_{-80}	D_{2000}	$229.1^{+6.3}_{-6.0}$	$\sigma_8(0.38)$	$0.664^{+0.020}_{-0.016}$
A_{143}^{PS}	50^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.969^{+0.022}_{-0.021}$	$f\sigma_8(0.51)$	$0.473^{+0.016}_{-0.015}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	Y_{P}	$0.253^{+0.048}_{-0.049}$	$\sigma_8(0.51)$	$0.621^{+0.018}_{-0.015}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.255^{+0.048}_{-0.049}$	$f\sigma_8(0.61)$	$0.468^{+0.015}_{-0.014}$
A^{kSZ}	—	Age/Gyr	$13.79^{+0.11}_{-0.12}$	$\sigma_8(0.61)$	$0.591^{+0.017}_{-0.014}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.8}_{-5.0}$	z_*	$1090.3^{+1.7}_{-1.7}$	$f\sigma_8(2.33)$	$0.2982^{+0.0091}_{-0.0069}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.7}_{-4.9}$	r_*	$144.74^{+0.95}_{-0.96}$	$\sigma_8(2.33)$	$0.3076^{+0.0096}_{-0.0074}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.5}_{-8.3}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	f_{2000}^{143}	32^{+10}_{-10}
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.094}_{-0.098}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
c_{100}	$0.9996^{+0.0015}_{-0.0017}$	z_{drag}	$1059.9^{+2.9}_{-2.7}$	f_{2000}^{217}	$108.7^{+6.6}_{-6.7}$
c_{217}	$0.9983^{+0.0017}_{-0.0016}$	r_{drag}	$147.4^{+1.1}_{-1.1}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
H_0	$67.8^{+1.6}_{-1.6}$	k_{D}	$0.1401^{+0.0015}_{-0.0015}$	χ_{lowl}^2	$22.8 (\nu: 0.9)$
Ω_{Λ}	$0.691^{+0.019}_{-0.020}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0018}_{-0.0019}$	χ_{plik}^2	$773.2 (\nu: 16.3)$
Ω_{m}	$0.309^{+0.020}_{-0.019}$	z_{eq}	3376^{+74}_{-74}	$\chi_{6\mathrm{DF}}^2$	$0.055 (\nu: 0.0)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0031}_{-0.0031}$	k_{eq}	$0.01030^{+0.00023}_{-0.00023}$	χ_{MGS}^2	$1.43 (\nu: 0.2)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0020}_{-0.0019}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.013}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.2)$
σ_8	$0.810^{+0.024}_{-0.020}$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0071}_{-0.0069}$	χ_{prior}^2	$7.3 (\nu: 6.9)$
S_8	$0.822^{+0.039}_{-0.037}$	$H(0.15)$	$73.0^{+1.4}_{-1.4}$	χ_{BAO}^2	$6.1 (\nu: 0.8)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.15)$	640^{+14}_{-13}	χ_{CMB}^2	$1192.9 (\nu: 15.4)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1206.38; R - 1 = 0.01225$$

20.8 base_yhe_plikHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02215^{+0.00074}_{-0.00072}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$H(0.15)$	$72.4^{+2.0}_{-1.9}$
$\Omega_{\mathrm{c}}h^2$	$0.1201^{+0.0040}_{-0.0041}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020}$	$D_{\mathrm{M}}(0.15)$	646^{+19}_{-19}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0022}_{-0.0021}$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.028}$	$H(0.38)$	$82.7^{+1.6}_{-1.5}$
τ	$0.054^{+0.019}_{-0.013}$	$r_{\mathrm{drag}}h$	$98.9^{+3.5}_{-3.3}$	$D_{\mathrm{M}}(0.38)$	1538^{+39}_{-39}
Y_{P}	$0.245^{+0.050}_{-0.053}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.074}_{-0.074}$	$H(0.51)$	$89.4^{+1.4}_{-1.3}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.043}_{-0.030}$	z_{re}	< 9.40	$D_{\mathrm{M}}(0.51)$	1992^{+46}_{-46}
n_{s}	$0.964^{+0.026}_{-0.025}$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.092}_{-0.063}$	$H(0.61)$	$95.1^{+1.2}_{-1.1}$
y_{cal}	$1.0004^{+0.0066}_{-0.0062}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.037}_{-0.036}$	$D_{\mathrm{M}}(0.61)$	2317^{+50}_{-51}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1232^{+49}_{-48}	$H(2.33)$	$236.4^{+2.4}_{-2.5}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5716^{+100}_{-110}	$D_{\mathrm{M}}(2.33)$	5775^{+59}_{-61}
A_{143}^{tSZ}	—	D_{810}	2536^{+36}_{-35}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
A_{100}^{PS}	264^{+70}_{-80}	D_{1420}	814^{+14}_{-13}	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.016}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.5^{+6.4}_{-6.0}$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.016}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.964^{+0.026}_{-0.025}$	$\sigma_8(0.38)$	$0.663^{+0.018}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.245^{+0.050}_{-0.053}$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.246^{+0.050}_{-0.054}$	$\sigma_8(0.51)$	$0.620^{+0.017}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.9}$	Age/Gyr	$13.82^{+0.14}_{-0.14}$	$f\sigma_8(0.61)$	$0.470^{+0.013}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.7}_{-4.7}$	z_*	$1090.2^{+1.7}_{-1.6}$	$\sigma_8(0.61)$	$0.590^{+0.017}_{-0.013}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.7}_{-8.3}$	r_*	$144.6^{+1.0}_{-0.97}$	$f\sigma_8(2.33)$	$0.2973^{+0.0088}_{-0.0070}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.306^{+0.010}_{-0.0079}$
c_{100}	$0.9996^{+0.0016}_{-0.0017}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.095}_{-0.093}$	f_{2000}^{143}	31^{+10}_{-10}
c_{217}	$0.9983^{+0.0017}_{-0.0016}$	z_{drag}	$1059.4^{+3.1}_{-3.0}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
H_0	$67.1^{+2.2}_{-2.1}$	r_{drag}	$147.3^{+1.1}_{-1.1}$	f_{2000}^{217}	$108.1^{+6.7}_{-6.6}$
Ω_{Λ}	$0.682^{+0.027}_{-0.028}$	k_{D}	$0.1404^{+0.0017}_{-0.0017}$	$\chi_{\mathrm{lensing}}^2$	$9.46 (\nu: 0.4)$
Ω_{m}	$0.318^{+0.028}_{-0.027}$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0020}_{-0.0019}$	χ_{simall}^2	$396.7 (\nu: 1.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0038}_{-0.0038}$	z_{eq}	3399^{+90}_{-92}	χ_{lowl}^2	$23.8 (\nu: 1.5)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0021}_{-0.0020}$	k_{eq}	$0.01038^{+0.00027}_{-0.00028}$	χ_{plik}^2	$771.8 (\nu: 15.4)$
σ_8	$0.811^{+0.020}_{-0.017}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.018}_{-0.017}$	χ_{prior}^2	$7.3 (\nu: 6.8)$
S_8	$0.834^{+0.042}_{-0.042}$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0091}_{-0.0086}$	χ_{CMB}^2	$1201.8 (\nu: 15.9)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1209.13; R - 1 = 0.00826$$

20.9 base_yhe_plikHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02226^{+0.00065}_{-0.00063}$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.024}$	$H(0.51)$	$89.73^{+0.99}_{-0.95}$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0028}_{-0.0028}$	$r_{\mathrm{drag}}h$	$99.8^{+2.3}_{-2.2}$	$D_{\mathrm{M}}(0.51)$	1980^{+32}_{-32}
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0019}_{-0.0018}$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.059}_{-0.058}$	$H(0.61)$	$95.33^{+0.94}_{-0.87}$
τ	$0.056^{+0.018}_{-0.014}$	z_{re}	< 9.57	$D_{\mathrm{M}}(0.61)$	2304^{+35}_{-35}
Y_{P}	$0.251^{+0.049}_{-0.049}$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.090}_{-0.065}$	$H(2.33)$	$235.9^{+1.9}_{-1.9}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.042}_{-0.031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.037}_{-0.035}$	$D_{\mathrm{M}}(2.33)$	5763^{+47}_{-50}
n_{s}	$0.968^{+0.022}_{-0.020}$	D_{40}	1224^{+42}_{-42}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
y_{cal}	$1.0006^{+0.0067}_{-0.0063}$	D_{220}	5723^{+98}_{-100}	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.017}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2537^{+36}_{-34}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.017}_{-0.015}$
A_{143}^{tSZ}	—	D_{2000}	$229.4^{+6.2}_{-6.0}$	$f\sigma_8(0.51)$	$0.474^{+0.013}_{-0.012}$
A_{100}^{PS}	266^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.968^{+0.022}_{-0.020}$	$\sigma_8(0.51)$	$0.622^{+0.017}_{-0.014}$
A_{143}^{PS}	50^{+20}_{-20}	Y_{P}	$0.251^{+0.049}_{-0.049}$	$f\sigma_8(0.61)$	$0.469^{+0.012}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.253^{+0.049}_{-0.049}$	$\sigma_8(0.61)$	$0.592^{+0.016}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.80^{+0.11}_{-0.12}$	$f\sigma_8(2.33)$	$0.2983^{+0.0084}_{-0.0068}$
A^{kSZ}	—	z_*	$1090.2^{+1.7}_{-1.6}$	$\sigma_8(2.33)$	$0.3076^{+0.0088}_{-0.0074}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.6}_{-5.0}$	r_*	$144.72^{+0.91}_{-0.91}$	f_{2000}^{143}	32^{+10}_{-10}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.7}_{-4.9}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011}$	$f_{2000}^{143 \times 217}$	34^{+7}_{-7}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.6}_{-8.3}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.899^{+0.091}_{-0.093}$	f_{2000}^{217}	$108.6^{+6.6}_{-6.6}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.8^{+3.0}_{-2.7}$	$\chi_{\mathrm{lensing}}^2$	$9.32 (\nu: 0.3)$
c_{100}	$0.9996^{+0.0015}_{-0.0017}$	r_{drag}	$147.4^{+1.0}_{-1.1}$	χ_{simall}^2	$397.0 (\nu: 1.6)$
c_{217}	$0.9983^{+0.0017}_{-0.0016}$	k_{D}	$0.1402^{+0.0015}_{-0.0015}$	χ_{lowl}^2	$23.0 (\nu: 0.9)$
H_0	$67.7^{+1.5}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.1613^{+0.0019}_{-0.0018}$	χ_{plik}^2	$772.6 (\nu: 15.5)$
Ω_{Λ}	$0.690^{+0.017}_{-0.018}$	z_{eq}	3378^{+66}_{-67}	$\chi_{6\mathrm{DF}}^2$	$0.055 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.018}_{-0.017}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	χ_{MGS}^2	$1.35 (\nu: 0.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0028}_{-0.0028}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 (\nu: 1.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0020}_{-0.0019}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0064}_{-0.0061}$	χ_{prior}^2	$7.3 (\nu: 7.0)$
σ_8	$0.811^{+0.020}_{-0.018}$	$H(0.15)$	$72.9^{+1.3}_{-1.3}$	χ_{CMB}^2	$1202.0 (\nu: 15.7)$
S_8	$0.824^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	641^{+13}_{-13}	χ_{BAO}^2	$6.1 (\nu: 0.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$H(0.38)$	$83.0^{+1.1}_{-1.1}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.017}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1529^{+27}_{-27}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1215.38; R - 1 = 0.01428$$

20.10 base_yhe_plikHM_TT_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02258^{+0.00063}_{-0.00071}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.437^{+0.031}_{-0.029}$	$H(0.15)$	$74.2^{+2.1}_{-2.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1168^{+0.0049}_{-0.0051}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.594^{+0.029}_{-0.028}$	$D_{\mathrm{M}}(0.15)$	629^{+21}_{-19}
$100\theta_{\mathrm{MC}}$	$1.0421^{+0.0020}_{-0.0021}$	$\sigma_8/h^{0.5}$	$0.971^{+0.040}_{-0.039}$	$H(0.38)$	$84.0^{+1.6}_{-1.7}$
τ	$0.058^{+0.022}_{-0.017}$	$r_{\mathrm{drag}}h$	$102.0^{+4.1}_{-4.1}$	$D_{\mathrm{M}}(0.38)$	1504^{+43}_{-40}
Y_{P}	$0.268^{+0.045}_{-0.050}$	$\langle d^2 \rangle^{1/2}$	$2.38^{+0.10}_{-0.10}$	$H(0.51)$	$90.5^{+1.4}_{-1.4}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.048^{+0.053}_{-0.036}$	z_{re}	< 9.86	$D_{\mathrm{M}}(0.51)$	1952^{+51}_{-47}
n_{s}	$0.981^{+0.026}_{-0.026}$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.11}_{-0.074}$	$H(0.61)$	$96.0^{+1.2}_{-1.2}$
y_{cal}	$1.0004^{+0.0080}_{-0.0065}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.042}_{-0.040}$	$D_{\mathrm{M}}(0.61)$	2273^{+55}_{-51}
A_{217}^{CIB}	50^{+20}_{-20}	D_{40}	1201^{+52}_{-62}	$H(2.33)$	$234.7^{+3.0}_{-2.7}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{220}	5729^{+130}_{-120}	$D_{\mathrm{M}}(2.33)$	5732^{+59}_{-57}
A_{143}^{tSZ}	—	D_{810}	2538^{+41}_{-38}	$f\sigma_8(0.15)$	$0.443^{+0.029}_{-0.027}$
A_{100}^{PS}	271^{+70}_{-70}	D_{1420}	815^{+15}_{-13}	$\sigma_8(0.15)$	$0.747^{+0.027}_{-0.018}$
A_{143}^{PS}	52^{+20}_{-20}	D_{2000}	$228.5^{+6.1}_{-6.5}$	$f\sigma_8(0.38)$	$0.465^{+0.024}_{-0.021}$
$A_{143 \times 217}^{\mathrm{PS}}$	44^{+30}_{-20}	$n_{\mathrm{s},0.002}$	$0.981^{+0.026}_{-0.026}$	$\sigma_8(0.38)$	$0.664^{+0.022}_{-0.016}$
A_{217}^{PS}	114^{+20}_{-30}	Y_{P}	$0.268^{+0.045}_{-0.050}$	$f\sigma_8(0.51)$	$0.466^{+0.021}_{-0.020}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.270^{+0.045}_{-0.050}$	$\sigma_8(0.51)$	$0.623^{+0.020}_{-0.015}$
$A_{100}^{\mathrm{dust}TT}$	$9.0^{+4.9}_{-4.8}$	Age/Gyr	$13.73^{+0.13}_{-0.13}$	$f\sigma_8(0.61)$	$0.462^{+0.019}_{-0.018}$
$A_{143}^{\mathrm{dust}TT}$	$10.8^{+4.6}_{-4.6}$	z_*	$1090.3^{+1.6}_{-1.7}$	$\sigma_8(0.61)$	$0.593^{+0.018}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.2^{+8.7}_{-8.3}$	r_*	$145.0^{+1.1}_{-1.2}$	$f\sigma_8(2.33)$	$0.2997^{+0.0094}_{-0.0071}$
$A_{217}^{\mathrm{dust}TT}$	92^{+20}_{-20}	$100\theta_*$	$1.0416^{+0.0011}_{-0.0012}$	$\sigma_8(2.33)$	$0.3098^{+0.0099}_{-0.0079}$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.92^{+0.10}_{-0.12}$	f_{2000}^{143}	33^{+9}_{-9}
c_{217}	$0.9983^{+0.0014}_{-0.0014}$	z_{drag}	$1061.0^{+2.6}_{-3.0}$	$f_{2000}^{143 \times 217}$	35^{+8}_{-8}
H_0	$69.1^{+2.4}_{-2.5}$	r_{drag}	$147.7^{+1.1}_{-1.3}$	f_{2000}^{217}	$109.5^{+6.7}_{-6.3}$
Ω_{Λ}	$0.706^{+0.028}_{-0.031}$	k_{D}	$0.1395^{+0.0018}_{-0.0020}$	χ_{simall}^2	$397.3 (\nu: 2.4)$
Ω_{m}	$0.294^{+0.031}_{-0.028}$	$100\theta_{\mathrm{D}}$	$0.1618^{+0.0018}_{-0.0019}$	χ_{lowl}^2	$21.4 (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1400^{+0.0047}_{-0.0048}$	z_{eq}	3330^{+110}_{-110}	χ_{plik}^2	$777.9 (\nu: 22.8)$
$\Omega_{\mathrm{m}}h^3$	$0.0967^{+0.0018}_{-0.0019}$	k_{eq}	$0.01016^{+0.00034}_{-0.00035}$	$\chi_{\mathrm{H073p45}}^2$	$7.3 (\nu: 5.3)$
σ_8	$0.807^{+0.027}_{-0.023}$	$100\theta_{\mathrm{eq}}$	$0.828^{+0.021}_{-0.021}$	χ_{prior}^2	$7.5 (\nu: 7.8)$
S_8	$0.798^{+0.057}_{-0.052}$	$100\theta_{\mathrm{s,eq}}$	$0.457^{+0.011}_{-0.011}$	χ_{CMB}^2	$1196.6 (\nu: 19.8)$

$\bar{\chi}_{\mathrm{eff}}^2 = 1211.44$; $R - 1 = 0.09941$

20.11 base_yhe_plikHM_TTTEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02228	$0.02229^{+0.00051}_{-0.00052}$	$\Omega_{\mathrm{m}}h^2$	0.14325	$0.1432^{+0.0032}_{-0.0033}$	$100\theta_{\mathrm{eq}}$	0.8118	$0.812^{+0.015}_{-0.014}$
$\Omega_{\mathrm{c}}h^2$	0.12033	$0.1202^{+0.0035}_{-0.0035}$	$\Omega_{\mathrm{m}}h^3$	0.09606	$0.0961^{+0.0014}_{-0.0014}$	$100\theta_{\mathrm{s,eq}}$	0.4486	$0.4489^{+0.0078}_{-0.0074}$
$100\theta_{\mathrm{MC}}$	1.04058	$1.0407^{+0.0015}_{-0.0014}$	σ_8	0.8109	$0.810^{+0.021}_{-0.021}$	$H(0.15)$	72.41	$72.5^{+1.5}_{-1.5}$
τ	0.0540	$0.054^{+0.024}_{-0.022}$	S_8	0.8357	$0.834^{+0.040}_{-0.042}$	$D_{\mathrm{M}}(0.15)$	646.0	645^{+15}_{-15}
Y_{P}	0.2365	$0.240^{+0.032}_{-0.034}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4577	$0.457^{+0.022}_{-0.023}$	$H(0.38)$	82.64	$82.7^{+1.2}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0431	$3.042^{+0.048}_{-0.046}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6093	$0.609^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1539.0	1538^{+31}_{-30}
n_{s}	0.9621	$0.962^{+0.018}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9903	$0.989^{+0.030}_{-0.031}$	$H(0.51)$	89.43	$89.48^{+0.98}_{-0.93}$
y_{cal}	1.0006	$1.0006^{+0.0061}_{-0.0063}$	$r_{\mathrm{drag}}h$	98.65	$98.8^{+2.9}_{-2.8}$	$D_{\mathrm{M}}(0.51)$	1992.5	1991^{+36}_{-36}
A_{217}^{CIB}	44.3	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.454	$2.452^{+0.075}_{-0.075}$	$H(0.61)$	95.10	$95.15^{+0.84}_{-0.79}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.85	—	z_{re}	7.63	$7.6^{+2.2}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2317.7	2316^{+39}_{-39}
A_{143}^{tSZ}	6.95	> 1.02	$10^9 A_{\mathrm{s}}$	2.097	$2.10^{+0.10}_{-0.095}$	$H(2.33)$	236.66	$236.6^{+2.0}_{-2.1}$
A_{100}^{PS}	245	257^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8823	$1.882^{+0.031}_{-0.032}$	$D_{\mathrm{M}}(2.33)$	5772.5	5770^{+41}_{-42}
A_{143}^{PS}	51.3	45^{+20}_{-20}	D_{40}	1236.4	1236^{+41}_{-41}	$f\sigma_8(0.15)$	0.4617	$0.461^{+0.020}_{-0.021}$
$A_{143 \times 217}^{\mathrm{PS}}$	56.6	42^{+20}_{-20}	D_{220}	5733	5733^{+100}_{-100}	$\sigma_8(0.15)$	0.7487	$0.748^{+0.019}_{-0.019}$
A_{217}^{PS}	123.5	115^{+20}_{-30}	D_{810}	2541.3	2538^{+33}_{-35}	$f\sigma_8(0.38)$	0.4785	$0.478^{+0.017}_{-0.017}$
A^{kSZ}	0.0	—	D_{1420}	819.4	817^{+12}_{-13}	$\sigma_8(0.38)$	0.6629	$0.663^{+0.017}_{-0.017}$
$A_{100}^{\mathrm{dustTT}}$	8.71	$8.9^{+4.6}_{-4.7}$	D_{2000}	232.13	$231.2^{+4.8}_{-4.7}$	$f\sigma_8(0.51)$	0.4763	$0.476^{+0.015}_{-0.016}$
$A_{143}^{\mathrm{dustTT}}$	10.88	$10.8^{+4.7}_{-4.8}$	$n_{\mathrm{s},0.002}$	0.9621	$0.962^{+0.018}_{-0.018}$	$\sigma_8(0.51)$	0.6200	$0.620^{+0.017}_{-0.016}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	20.1	$18.5^{+8.5}_{-8.3}$	Y_{P}	0.2365	$0.240^{+0.032}_{-0.034}$	$f\sigma_8(0.61)$	0.4707	$0.470^{+0.014}_{-0.014}$
$A_{217}^{\mathrm{dustTT}}$	95.7	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2378	$0.241^{+0.032}_{-0.034}$	$\sigma_8(0.61)$	0.5898	$0.590^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTE}}$	0.114	$0.114^{+0.097}_{-0.095}$	Age/Gyr	13.818	$13.813^{+0.095}_{-0.095}$	$f\sigma_8(2.33)$	0.2971	$0.2970^{+0.0084}_{-0.0076}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	0.135	$0.134^{+0.075}_{-0.075}$	z_*	1089.71	$1089.8^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	0.3060	$0.3060^{+0.0091}_{-0.0082}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	0.484	$0.48^{+0.22}_{-0.21}$	r_*	144.45	$144.45^{+0.83}_{-0.79}$	f_{2000}^{143}	27.4	29^{+8}_{-8}
$A_{143}^{\mathrm{dustTE}}$	0.224	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	1.04100	$1.04103^{+0.00087}_{-0.00085}$	$f_{2000}^{143 \times 217}$	31.1	32^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTE}}$	0.665	$0.67^{+0.21}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.876	$13.876^{+0.079}_{-0.078}$	f_{2000}^{217}	105.7	$106.6^{+5.5}_{-5.1}$
$A_{217}^{\mathrm{dustTE}}$	2.09	$2.09^{+0.69}_{-0.69}$	z_{drag}	1059.47	$1059.6^{+2.0}_{-2.0}$	χ_{simall}^2	396.06	$397.1 (\nu: 1.9)$
c_{100}	0.99975	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	147.13	$147.13^{+0.86}_{-0.83}$	χ_{lowl}^2	23.94	$24.1 (\nu: 1.1)$
c_{217}	0.99815	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14111	$0.1410^{+0.0011}_{-0.0011}$	χ_{plik}^2	2343.8	$2359.9 (\nu: 18.0)$
H_0	67.05	$67.1^{+1.8}_{-1.7}$	$100\theta_{\mathrm{D}}$	0.16045	$0.1606^{+0.0012}_{-0.0012}$	χ_{prior}^2	1.4	$11.5 (\nu: 10.1)$
Ω_{Λ}	0.6814	$0.682^{+0.022}_{-0.023}$	z_{eq}	3408	3406^{+77}_{-79}	χ_{CMB}^2	2763.8	$2781.1 (\nu: 17.9)$
Ω_{m}	0.3186	$0.318^{+0.023}_{-0.022}$	k_{eq}	0.010401	$0.01040^{+0.00024}_{-0.00024}$			

Best-fit $\chi_{\mathrm{eff}}^2 = 2765.27$; $\bar{\chi}_{\mathrm{eff}}^2 = 2792.56$; $R - 1 = 0.00867$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2_29: 23.95 plik_rd12_HM_v22b_TTTEE: 2343.82

20.12 base_yhe_plikHM_TTTEE_lowl_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022389	$0.02239^{+0.00045}_{-0.00047}$	$\Omega_m h^3$	0.09619	$0.0962^{+0.0013}_{-0.0013}$	$H(0.15)$	72.87	$72.9^{+1.1}_{-1.1}$
$\Omega_c h^2$	0.11930	$0.1193^{+0.0026}_{-0.0026}$	σ_8	0.8090	$0.809^{+0.023}_{-0.021}$	$D_M(0.15)$	641.4	641^{+11}_{-11}
$100\theta_{MC}$	1.04082	$1.0409^{+0.0013}_{-0.0013}$	S_8	0.8244	$0.824^{+0.033}_{-0.033}$	$H(0.38)$	82.98	$83.01^{+0.87}_{-0.89}$
τ	0.0553	$0.056^{+0.024}_{-0.022}$	$\sigma_8 \Omega_m^{0.5}$	0.4516	$0.451^{+0.018}_{-0.018}$	$D_M(0.38)$	1529.8	1529^{+23}_{-22}
Y_P	0.2402	$0.243^{+0.030}_{-0.032}$	$\sigma_8 \Omega_m^{0.25}$	0.6044	$0.604^{+0.020}_{-0.018}$	$H(0.51)$	89.70	$89.73^{+0.76}_{-0.77}$
$\ln(10^{10} A_s)$	3.0444	$3.044^{+0.050}_{-0.044}$	$\sigma_8/h^{0.5}$	0.9840	$0.984^{+0.028}_{-0.027}$	$D_M(0.51)$	1981.7	1981^{+27}_{-26}
n_s	0.9658	$0.966^{+0.016}_{-0.016}$	$r_{drag} h$	99.54	$99.6^{+2.0}_{-2.1}$	$H(0.61)$	95.32	$95.35^{+0.68}_{-0.68}$
y_{cal}	1.0007	$1.0006^{+0.0062}_{-0.0068}$	$\langle d^2 \rangle^{1/2}$	2.437	$2.437^{+0.066}_{-0.064}$	$D_M(0.61)$	2305.9	2305^{+30}_{-28}
A_{217}^{CIB}	44.9	47^{+20}_{-20}	z_{re}	7.75	$7.8^{+2.3}_{-2.4}$	$H(2.33)$	236.11	$236.1^{+1.7}_{-1.6}$
$\xi^{tSZ \times CIB}$	0.78	—	$10^9 A_s$	2.100	$2.10^{+0.11}_{-0.091}$	$D_M(2.33)$	5762.4	5761^{+36}_{-35}
A_{143}^{tSZ}	6.99	> 1.02	$10^9 A_s e^{-2\tau}$	1.8798	$1.879^{+0.030}_{-0.032}$	$f\sigma_8(0.15)$	0.4561	$0.456^{+0.017}_{-0.017}$
A_{100}^{PS}	246	257^{+70}_{-70}	D_{40}	1229.6	1229^{+37}_{-39}	$\sigma_8(0.15)$	0.7475	$0.748^{+0.021}_{-0.019}$
A_{143}^{PS}	50.9	45^{+20}_{-20}	D_{220}	5739	5737^{+100}_{-100}	$f\sigma_8(0.38)$	0.4744	$0.474^{+0.016}_{-0.015}$
$A_{143 \times 217}^{PS}$	55.1	42^{+20}_{-20}	D_{810}	2541.4	2539^{+34}_{-35}	$\sigma_8(0.38)$	0.6626	$0.663^{+0.018}_{-0.017}$
A_{217}^{PS}	122.6	115^{+20}_{-30}	D_{1420}	819.8	818^{+12}_{-12}	$f\sigma_8(0.51)$	0.4730	$0.473^{+0.015}_{-0.014}$
A^{kSZ}	0.0	—	D_{2000}	232.10	$231.3^{+4.8}_{-4.8}$	$\sigma_8(0.51)$	0.6201	$0.620^{+0.017}_{-0.016}$
A_{100}^{dustTT}	8.79	$8.9^{+4.8}_{-4.6}$	$n_{s,0.002}$	0.9658	$0.966^{+0.016}_{-0.016}$	$f\sigma_8(0.61)$	0.4680	$0.468^{+0.014}_{-0.013}$
A_{143}^{dustTT}	10.95	$10.9^{+4.8}_{-4.6}$	Y_P	0.2402	$0.243^{+0.030}_{-0.032}$	$\sigma_8(0.61)$	0.5900	$0.590^{+0.016}_{-0.016}$
$A_{143 \times 217}^{dustTT}$	20.2	$18.6^{+8.2}_{-8.4}$	Y_P^{BBN}	0.2415	$0.244^{+0.030}_{-0.032}$	$f\sigma_8(2.33)$	0.2975	$0.2976^{+0.0086}_{-0.0079}$
A_{217}^{dustTT}	95.7	94^{+20}_{-20}	Age/Gyr	13.795	$13.793^{+0.083}_{-0.080}$	$\sigma_8(2.33)$	0.3067	$0.3068^{+0.0090}_{-0.0081}$
A_{100}^{dustTE}	0.113	$0.113^{+0.098}_{-0.091}$	z_*	1089.62	$1089.7^{+1.1}_{-1.0}$	f_{2000}^{143}	27.8	29^{+8}_{-8}
$A_{100 \times 143}^{dustTE}$	0.136	$0.134^{+0.074}_{-0.076}$	r_*	144.62	$144.61^{+0.69}_{-0.72}$	$f_{2000}^{143 \times 217}$	31.3	32^{+6}_{-5}
$A_{100 \times 217}^{dustTE}$	0.482	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	1.04114	$1.04116^{+0.00083}_{-0.00079}$	f_{2000}^{217}	105.8	$106.6^{+5.7}_{-5.2}$
A_{143}^{dustTE}	0.227	$0.22^{+0.14}_{-0.13}$	$D_M(z_*)/\text{Gpc}$	13.890	$13.890^{+0.066}_{-0.069}$	χ_{small}^2	396.2	$397.4 (\nu: 2.5)$
$A_{143 \times 217}^{dustTE}$	0.664	$0.66^{+0.20}_{-0.20}$	z_{drag}	1059.74	$1059.8^{+1.9}_{-1.9}$	χ_{lowl}^2	23.25	$23.4 (\nu: 0.7)$
A_{217}^{dustTE}	2.07	$2.08^{+0.68}_{-0.68}$	r_{drag}	147.27	$147.27^{+0.78}_{-0.78}$	χ_{plik}^2	2344.9	$2360.4 (\nu: 18.2)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	k_D	0.14090	$0.14080^{+0.00096}_{-0.00094}$	χ_{6DF}^2	0.038	$0.061 (\nu: 0.0)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_D$	0.16052	$0.1606^{+0.0012}_{-0.0011}$	χ_{MGS}^2	1.16	$1.24 (\nu: 0.1)$
H_0	67.59	$67.6^{+1.3}_{-1.3}$	z_{eq}	3386	3385^{+60}_{-58}	$\chi_{DR12BAO}^2$	4.62	$5.0 (\nu: 1.2)$
Ω_Λ	0.6884	$0.689^{+0.016}_{-0.017}$	k_{eq}	0.010334	$0.01033^{+0.00018}_{-0.00018}$	χ_{prior}^2	1.5	$11.6 (\nu: 10.3)$
Ω_m	0.3116	$0.311^{+0.017}_{-0.016}$	$100\theta_{eq}$	0.8162	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	5.82	$6.3 (\nu: 0.8)$
$\Omega_m h^2$	0.14233	$0.1423^{+0.0025}_{-0.0024}$	$100\theta_{s,eq}$	0.4509	$0.4510^{+0.0057}_{-0.0057}$	χ_{CMB}^2	2764.3	$2781.1 (\nu: 17.7)$

Best-fit $\chi_{\text{eff}}^2 = 2771.70$; $\bar{\chi}_{\text{eff}}^2 = 2798.91$; $R - 1 = 0.02958$
 χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.62 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.22 commander_dx12_v3_2_29: 23.25 plik_rd12_HM_v22b_TTTEE: 2344.87

20.13 base_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02230	$0.02230^{+0.00052}_{-0.00051}$	$\Omega_{\mathrm{m}}h^2$	0.14297	$0.1430^{+0.0029}_{-0.0029}$	$100\theta_{\mathrm{eq}}$	0.8131	$0.813^{+0.013}_{-0.013}$
$\Omega_{\mathrm{c}}h^2$	0.12002	$0.1201^{+0.0031}_{-0.0030}$	$\Omega_{\mathrm{m}}h^3$	0.09606	$0.0961^{+0.0014}_{-0.0014}$	$100\theta_{\mathrm{s,eq}}$	0.4493	$0.4492^{+0.0067}_{-0.0065}$
$100\theta_{\mathrm{MC}}$	1.04061	$1.0407^{+0.0014}_{-0.0014}$	σ_8	0.8097	$0.810^{+0.019}_{-0.017}$	$H(0.15)$	72.52	$72.5^{+1.5}_{-1.4}$
τ	0.0541	$0.054^{+0.022}_{-0.020}$	S_8	0.8319	$0.832^{+0.032}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	644.9	645^{+14}_{-14}
Y_{P}	0.2366	$0.239^{+0.032}_{-0.033}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4557	$0.456^{+0.017}_{-0.018}$	$H(0.38)$	82.72	$82.7^{+1.1}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0422	$3.042^{+0.044}_{-0.041}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6074	$0.607^{+0.016}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1536.7	1537^{+28}_{-29}
n_{s}	0.9629	$0.962^{+0.018}_{-0.017}$	$\sigma_8/h^{0.5}$	0.9878	$0.988^{+0.024}_{-0.024}$	$H(0.51)$	89.49	$89.50^{+0.94}_{-0.90}$
y_{cal}	1.0005	$1.0005^{+0.0062}_{-0.0064}$	$r_{\mathrm{drag}}h$	98.89	$98.9^{+2.6}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1989.8	1990^{+33}_{-34}
A_{217}^{CIB}	44.7	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.448	$2.450^{+0.059}_{-0.060}$	$H(0.61)$	95.15	$95.16^{+0.80}_{-0.77}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.78	—	z_{re}	7.64	$7.6^{+2.1}_{-2.2}$	$D_{\mathrm{M}}(0.61)$	2314.8	2315^{+36}_{-37}
A_{143}^{tSZ}	7.00	> 1.04	10^9A_{s}	2.095	$2.094^{+0.094}_{-0.084}$	$H(2.33)$	236.48	$236.5^{+1.8}_{-1.8}$
A_{100}^{PS}	245	257^{+70}_{-70}	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8801	$1.881^{+0.029}_{-0.030}$	$D_{\mathrm{M}}(2.33)$	5770.5	5770^{+40}_{-40}
A_{143}^{PS}	50.0	45^{+20}_{-20}	D_{40}	1234.0	1236^{+38}_{-39}	$f\sigma_8(0.15)$	0.4598	$0.460^{+0.016}_{-0.017}$
$A_{143 \times 217}^{\mathrm{PS}}$	54.6	42^{+20}_{-20}	D_{220}	5731	5735^{+100}_{-100}	$\sigma_8(0.15)$	0.7477	$0.747^{+0.018}_{-0.016}$
A_{217}^{PS}	122.5	115^{+20}_{-30}	D_{810}	2540.0	2538^{+34}_{-33}	$f\sigma_8(0.38)$	0.4770	$0.477^{+0.013}_{-0.014}$
A^{kSZ}	0.0	—	D_{1420}	819.3	818^{+12}_{-12}	$\sigma_8(0.38)$	0.6622	$0.662^{+0.016}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	8.70	$8.9^{+4.7}_{-4.5}$	D_{2000}	232.10	$231.3^{+4.8}_{-4.7}$	$f\sigma_8(0.51)$	0.4750	$0.475^{+0.012}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	10.94	$10.8^{+4.7}_{-4.7}$	$n_{\mathrm{s},0.002}$	0.9629	$0.962^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	0.6195	$0.619^{+0.016}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	20.0	$18.6^{+8.3}_{-8.3}$	Y_{P}	0.2366	$0.239^{+0.032}_{-0.033}$	$f\sigma_8(0.61)$	0.4696	$0.469^{+0.011}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	95.7	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2379	$0.240^{+0.032}_{-0.034}$	$\sigma_8(0.61)$	0.5893	$0.589^{+0.015}_{-0.014}$
$A_{100}^{\mathrm{dustTE}}$	0.115	$0.113^{+0.099}_{-0.092}$	Age/Gyr	13.814	$13.812^{+0.093}_{-0.091}$	$f\sigma_8(2.33)$	0.2969	$0.2968^{+0.0080}_{-0.0073}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	0.136	$0.134^{+0.074}_{-0.076}$	z_*	1089.66	$1089.8^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	0.3059	$0.3058^{+0.0087}_{-0.0079}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	0.482	$0.48^{+0.21}_{-0.21}$	r_*	144.51	$144.49^{+0.73}_{-0.72}$	f_{2000}^{143}	27.4	29^{+8}_{-8}
$A_{143}^{\mathrm{dustTE}}$	0.226	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	1.04102	$1.04103^{+0.00085}_{-0.00083}$	$f_{2000}^{143 \times 217}$	31.0	32^{+6}_{-5}
$A_{143 \times 217}^{\mathrm{dustTE}}$	0.666	$0.67^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.881	$13.880^{+0.071}_{-0.068}$	f_{2000}^{217}	105.6	$106.5^{+5.7}_{-5.1}$
$A_{217}^{\mathrm{dustTE}}$	2.09	$2.08^{+0.69}_{-0.68}$	z_{drag}	1059.51	$1059.6^{+1.9}_{-2.0}$	$\chi_{\mathrm{lensing}}^2$	8.76	$9.18 (\nu: 0.2)$
c_{100}	0.99973	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	147.19	$147.17^{+0.78}_{-0.75}$	χ_{small}^2	396.05	$397.0 (\nu: 1.5)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	0.14107	$0.14098^{+0.00099}_{-0.0010}$	χ_{lowl}^2	23.75	$24.0 (\nu: 0.9)$
H_0	67.19	$67.2^{+1.7}_{-1.6}$	$100\theta_{\mathrm{D}}$	0.16043	$0.1605^{+0.0012}_{-0.0011}$	χ_{plik}^2	2344.0	$2359.6 (\nu: 17.1)$
Ω_{Λ}	0.6833	$0.683^{+0.020}_{-0.021}$	z_{eq}	3401	3402^{+68}_{-68}	χ_{prior}^2	1.5	$11.5 (\nu: 10.3)$
Ω_{m}	0.3167	$0.317^{+0.021}_{-0.020}$	k_{eq}	0.010380	$0.01038^{+0.00021}_{-0.00021}$	χ_{CMB}^2	2772.6	$2789.9 (\nu: 18.1)$

Best-fit $\chi_{\mathrm{eff}}^2 = 2774.06$; $\bar{\chi}_{\mathrm{eff}}^2 = 2801.34$; $R - 1 = 0.01603$
 χ_{eff}^2 : CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p_teb_consext8: 8.76 small_100x143_offlike5_EE_Aplanck_B: 396.05 commander_dx12_v3.2_29: 23.75 plik_rd12_HM_v22b_TTTEEE: 2344.00

20.14 base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022390	$0.02239^{+0.00045}_{-0.00046}$	σ_8	0.8089	$0.809^{+0.019}_{-0.018}$	$H(0.38)$	82.98	$83.00^{+0.88}_{-0.87}$
$\Omega_{\mathrm{c}}h^2$	0.11926	$0.1193^{+0.0024}_{-0.0023}$	S_8	0.8243	$0.825^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1529.8	1530^{+22}_{-22}
$100\theta_{\mathrm{MC}}$	1.04080	$1.0409^{+0.0013}_{-0.0013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4515	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	89.70	$89.72^{+0.75}_{-0.76}$
τ	0.0559	$0.056^{+0.021}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6043	$0.605^{+0.016}_{-0.015}$	$D_{\mathrm{M}}(0.51)$	1981.7	1981^{+26}_{-26}
Y_{P}	0.2395	$0.242^{+0.030}_{-0.031}$	$\sigma_8/h^{0.5}$	0.9840	$0.985^{+0.023}_{-0.023}$	$H(0.61)$	95.32	$95.34^{+0.68}_{-0.68}$
$\ln(10^{10}A_{\mathrm{s}})$	3.0450	$3.046^{+0.044}_{-0.040}$	$r_{\mathrm{drag}}h$	99.55	$99.6^{+1.9}_{-1.9}$	$D_{\mathrm{M}}(0.61)$	2305.9	2306^{+29}_{-28}
n_{s}	0.9653	$0.965^{+0.016}_{-0.016}$	$\langle d^2 \rangle^{1/2}$	2.439	$2.440^{+0.056}_{-0.056}$	$H(2.33)$	236.08	$236.1^{+1.6}_{-1.4}$
y_{cal}	1.0007	$1.0007^{+0.0062}_{-0.0066}$	z_{re}	7.80	$7.8^{+2.0}_{-2.0}$	$D_{\mathrm{M}}(2.33)$	5762.6	5762^{+36}_{-35}
A_{217}^{CIB}	46.0	46^{+20}_{-20}	10^9A_{s}	2.101	$2.103^{+0.094}_{-0.083}$	$f\sigma_8(0.15)$	0.4561	$0.456^{+0.014}_{-0.014}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	0.57	—	$10^9A_{\mathrm{s}}e^{-2\tau}$	1.8788	$1.879^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	0.7475	$0.748^{+0.018}_{-0.017}$
A_{143}^{tSZ}	7.15	> 1.04	D_{40}	1230.4	1231^{+36}_{-35}	$f\sigma_8(0.38)$	0.4744	$0.475^{+0.012}_{-0.012}$
A_{100}^{PS}	248	257^{+70}_{-70}	D_{220}	5739	5740^{+100}_{-98}	$\sigma_8(0.38)$	0.6626	$0.663^{+0.017}_{-0.015}$
A_{143}^{PS}	47.5	45^{+20}_{-20}	D_{810}	2540.4	2539^{+34}_{-33}	$f\sigma_8(0.51)$	0.4730	$0.473^{+0.012}_{-0.012}$
$A_{143\times 217}^{\mathrm{PS}}$	49.7	42^{+20}_{-20}	D_{1420}	819.4	818^{+12}_{-12}	$\sigma_8(0.51)$	0.6201	$0.621^{+0.016}_{-0.014}$
A_{217}^{PS}	120.5	115^{+20}_{-30}	D_{2000}	232.04	$231.4^{+4.7}_{-4.8}$	$f\sigma_8(0.61)$	0.4680	$0.468^{+0.011}_{-0.011}$
A^{kSZ}	0.0	—	$n_{\mathrm{s},0.002}$	0.9653	$0.965^{+0.016}_{-0.016}$	$\sigma_8(0.61)$	0.5900	$0.590^{+0.015}_{-0.013}$
$A_{100}^{\mathrm{dustTT}}$	8.80	$8.9^{+4.7}_{-4.5}$	Y_{P}	0.2395	$0.242^{+0.030}_{-0.031}$	$f\sigma_8(2.33)$	0.2975	$0.2977^{+0.0078}_{-0.0069}$
$A_{143}^{\mathrm{dustTT}}$	10.92	$10.9^{+4.8}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2408	$0.243^{+0.030}_{-0.031}$	$\sigma_8(2.33)$	0.3067	$0.3069^{+0.0082}_{-0.0074}$
$A_{143\times 217}^{\mathrm{dustTT}}$	19.8	$18.6^{+8.1}_{-8.3}$	Age/Gyr	13.796	$13.794^{+0.083}_{-0.079}$	f_{2000}^{143}	27.8	29^{+8}_{-7}
$A_{217}^{\mathrm{dustTT}}$	95.3	94^{+20}_{-20}	z_*	1089.59	$1089.7^{+1.1}_{-1.0}$	$f_{2000}^{143\times 217}$	31.2	32^{+6}_{-5}
$A_{100}^{\mathrm{dustTE}}$	0.114	$0.112^{+0.098}_{-0.091}$	r_*	144.63	$144.61^{+0.66}_{-0.66}$	f_{2000}^{217}	106.0	$106.5^{+5.8}_{-5.2}$
$A_{100\times 143}^{\mathrm{dustTE}}$	0.134	$0.134^{+0.074}_{-0.076}$	$100\theta_*$	1.04113	$1.04115^{+0.00080}_{-0.00079}$	$\chi_{\mathrm{lensing}}^2$	8.66	$9.08 (\nu: 0.2)$
$A_{100\times 217}^{\mathrm{dustTE}}$	0.483	$0.48^{+0.21}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.891	$13.890^{+0.064}_{-0.064}$	χ_{small}^2	396.3	$397.3 (\nu: 2.1)$
$A_{143}^{\mathrm{dustTE}}$	0.224	$0.22^{+0.13}_{-0.13}$	z_{drag}	1059.74	$1059.8^{+1.9}_{-1.9}$	χ_{lowl}^2	23.34	$23.5 (\nu: 0.7)$
$A_{143\times 217}^{\mathrm{dustTE}}$	0.664	$0.67^{+0.20}_{-0.20}$	r_{drag}	147.28	$147.27^{+0.72}_{-0.71}$	χ_{plik}^2	2344.6	$2360.0 (\nu: 17.4)$
$A_{217}^{\mathrm{dustTE}}$	2.08	$2.08^{+0.68}_{-0.68}$	k_{D}	0.14092	$0.14083^{+0.00093}_{-0.00093}$	$\chi_{6\mathrm{DF}}^2$	0.037	$0.060 (\nu: 0.0)$
c_{100}	0.99974	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	0.16049	$0.1606^{+0.0012}_{-0.0012}$	χ_{MGS}^2	1.16	$1.22 (\nu: 0.1)$
c_{217}	0.99818	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3385	3386^{+56}_{-53}	$\chi_{\mathrm{DR12BAO}}^2$	4.61	$5.0 (\nu: 1.1)$
H_0	67.59	$67.6^{+1.3}_{-1.2}$	k_{eq}	0.010332	$0.01033^{+0.00017}_{-0.00016}$	χ_{prior}^2	1.6	$11.6 (\nu: 10.2)$
Ω_{Λ}	0.6885	$0.688^{+0.015}_{-0.016}$	$100\theta_{\mathrm{eq}}$	0.8163	$0.816^{+0.010}_{-0.010}$	χ_{CMB}^2	2773.0	$2789.8 (\nu: 17.9)$
Ω_{m}	0.3115	$0.312^{+0.016}_{-0.015}$	$100\theta_{\mathrm{s,eq}}$	0.4509	$0.4509^{+0.0051}_{-0.0053}$	χ_{BAO}^2	5.80	$6.2 (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	0.14230	$0.1423^{+0.0023}_{-0.0022}$	$H(0.15)$	72.87	$72.9^{+1.1}_{-1.1}$			
$\Omega_{\mathrm{m}}h^3$	0.09618	$0.0962^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(0.15)$	641.4	641^{+11}_{-11}			

Best-fit $\chi_{\mathrm{eff}}^2 = 2780.41$; $\bar{\chi}_{\mathrm{eff}}^2 = 2807.64$; $R - 1 = 0.02881$
 χ_{eff}^2 : BAO - 6DF: 0.04 MGS: 1.16 DR12BAO: 4.61 CMB - smicadx12_Dec5.ftl_mv2_ndclpp_p.teb_consext8: 8.66 small_100x143.offlike5_EE_Aplanck_B: 396.33 comman-
der_dx12.v3.2.29: 23.34 plik_rd12_HM.v22b_TTTEEE: 2344.62

20.15 base_yhe_plikHM_TTTEE_lowl_lowE_post_Riess18

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022494	$0.02250^{+0.00050}_{-0.00048}$	$\Omega_m h^2$	0.14177	$0.1417^{+0.0031}_{-0.0030}$	$100\theta_{\text{eq}}$	0.8191	$0.819^{+0.015}_{-0.014}$
$\Omega_c h^2$	0.11863	$0.1186^{+0.0033}_{-0.0031}$	$\Omega_m h^3$	0.09639	$0.0964^{+0.0013}_{-0.0013}$	$100\theta_{\text{s,eq}}$	0.4523	$0.4525^{+0.0075}_{-0.0072}$
$100\theta_{\text{MC}}$	1.04107	$1.0412^{+0.0013}_{-0.0014}$	σ_8	0.8080	$0.809^{+0.024}_{-0.021}$	$H(0.15)$	73.22	$73.3^{+1.5}_{-1.4}$
τ	0.0563	$0.058^{+0.025}_{-0.024}$	S_8	0.8169	$0.817^{+0.039}_{-0.032}$	$D_{\text{M}}(0.15)$	638.0	637^{+14}_{-14}
Y_{P}	0.2448	$0.247^{+0.030}_{-0.033}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4475	$0.448^{+0.021}_{-0.018}$	$H(0.38)$	83.26	$83.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_{\text{s}})$	3.045	$3.048^{+0.055}_{-0.047}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6013	$0.602^{+0.022}_{-0.018}$	$D_{\text{M}}(0.38)$	1522.7	1522^{+29}_{-29}
n_{s}	0.9694	$0.970^{+0.017}_{-0.018}$	$\sigma_8/h^{0.5}$	0.9799	$0.981^{+0.031}_{-0.028}$	$H(0.51)$	89.93	$89.98^{+0.91}_{-0.91}$
y_{cal}	1.0005	$1.0007^{+0.0062}_{-0.0071}$	$r_{\text{drag}} h$	100.16	$100.3^{+2.9}_{-2.7}$	$D_{\text{M}}(0.51)$	1973.2	1972^{+34}_{-34}
A_{217}^{CIB}	45.6	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	2.423	$2.425^{+0.074}_{-0.064}$	$H(0.61)$	95.52	$95.56^{+0.81}_{-0.79}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.70	—	z_{re}	7.83	$7.9^{+2.4}_{-2.5}$	$D_{\text{M}}(0.61)$	2296.8	2295^{+37}_{-37}
A_{143}^{tSZ}	7.11	$5.5^{+4.3}_{-4.7}$	$10^9 A_{\text{s}}$	2.102	$2.11^{+0.12}_{-0.098}$	$H(2.33)$	235.80	$235.8^{+2.0}_{-1.8}$
A_{100}^{PS}	247	259^{+70}_{-70}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8779	$1.878^{+0.030}_{-0.029}$	$D_{\text{M}}(2.33)$	5753.1	5751^{+39}_{-40}
A_{143}^{PS}	49.9	45^{+20}_{-20}	D_{40}	1222.2	1223^{+41}_{-39}	$f\sigma_8(0.15)$	0.4524	$0.453^{+0.020}_{-0.017}$
$A_{143 \times 217}^{\text{PS}}$	53.4	42^{+20}_{-20}	D_{220}	5738	5740^{+99}_{-100}	$\sigma_8(0.15)$	0.7471	$0.748^{+0.022}_{-0.019}$
A_{217}^{PS}	121.9	115^{+20}_{-30}	D_{810}	2540.5	2539^{+33}_{-36}	$f\sigma_8(0.38)$	0.4718	$0.472^{+0.017}_{-0.015}$
A^{kSZ}	0.0	—	D_{1420}	819.5	818^{+12}_{-14}	$\sigma_8(0.38)$	0.6628	$0.664^{+0.019}_{-0.017}$
A_{100}^{dustTT}	8.82	$9.0^{+4.8}_{-4.9}$	D_{2000}	231.85	$231.3^{+4.7}_{-5.1}$	$f\sigma_8(0.51)$	0.4710	$0.471^{+0.016}_{-0.014}$
A_{143}^{dustTT}	11.09	$11.0^{+4.9}_{-4.7}$	$n_{\text{s},0.002}$	0.9694	$0.970^{+0.017}_{-0.018}$	$\sigma_8(0.51)$	0.6205	$0.621^{+0.018}_{-0.016}$
$A_{143 \times 217}^{\text{dustTT}}$	20.2	$18.6^{+8.2}_{-7.9}$	Y_{P}	0.2448	$0.247^{+0.030}_{-0.033}$	$f\sigma_8(0.61)$	0.4664	$0.467^{+0.015}_{-0.014}$
A_{217}^{dustTT}	95.5	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	0.2461	$0.249^{+0.031}_{-0.033}$	$\sigma_8(0.61)$	0.5905	$0.591^{+0.018}_{-0.016}$
A_{100}^{dustTE}	0.114	$0.112^{+0.094}_{-0.094}$	Age/Gyr	13.774	$13.770^{+0.089}_{-0.092}$	$f\sigma_8(2.33)$	0.2979	$0.2984^{+0.0093}_{-0.0082}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.133^{+0.075}_{-0.074}$	z_*	1089.62	$1089.7^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	0.3074	$0.308^{+0.010}_{-0.0084}$
$A_{100 \times 217}^{\text{dustTE}}$	0.481	$0.48^{+0.28}_{-0.22}$	r_*	144.69	$144.69^{+0.81}_{-0.81}$	f_{2000}^{143}	28.0	29^{+8}_{-8}
A_{143}^{dustTE}	0.222	$0.22^{+0.14}_{-0.13}$	$100\theta_*$	1.04127	$1.04130^{+0.00085}_{-0.00082}$	$f_{2000}^{143 \times 217}$	31.5	32^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTE}}$	0.661	$0.67^{+0.22}_{-0.20}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.896	$13.895^{+0.080}_{-0.076}$	f_{2000}^{217}	106.1	$106.8^{+5.6}_{-5.5}$
A_{217}^{dustTE}	2.07	$2.08^{+0.70}_{-0.65}$	z_{drag}	1060.12	$1060.2^{+1.9}_{-1.9}$	χ_{small}^2	396.3	$397.7 (\nu: 3.5)$
c_{100}	0.99973	$0.9997^{+0.0015}_{-0.0015}$	r_{drag}	147.32	$147.32^{+0.88}_{-0.83}$	χ_{lowl}^2	22.65	$22.8 (\nu: 0.7)$
c_{217}	0.99817	$0.9982^{+0.0015}_{-0.0016}$	k_{D}	0.14075	$0.1406^{+0.0010}_{-0.0012}$	χ_{plik}^2	2346.5	$2362.1 (\nu: 21.6)$
H_0	67.99	$68.1^{+1.7}_{-1.6}$	$100\theta_{\text{D}}$	0.16063	$0.1608^{+0.0011}_{-0.0012}$	χ_{H073p45}^2	10.8	$10.7 (\nu: 3.1)$
Ω_{Λ}	0.6933	$0.694^{+0.021}_{-0.021}$	z_{eq}	3373	3371^{+75}_{-71}	χ_{prior}^2	1.6	$11.6 (\nu: 11.6)$
Ω_{m}	0.3067	$0.306^{+0.021}_{-0.021}$	k_{eq}	0.010293	$0.01029^{+0.00023}_{-0.00022}$	χ_{CMB}^2	2765.5	$2782.6 (\nu: 20.7)$

Best-fit $\chi_{\text{eff}}^2 = 2777.94$; $\bar{\chi}_{\text{eff}}^2 = 2804.95$; $R - 1 = 0.08230$
 χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.34 commander_dx12_v3.2_29: 22.65 plik_rd12_HM_v22b_TTTEE: 2346.53 Hubble - H073p45: 10.82

20.16 base_yhe_plikHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02230^{+0.00051}_{-0.00052}$	$\Omega_{\text{m}}h^2$	$0.1432^{+0.0032}_{-0.0033}$	$100\theta_{\text{eq}}$	$0.812^{+0.015}_{-0.015}$
$\Omega_{\text{c}}h^2$	$0.1202^{+0.0035}_{-0.0035}$	$\Omega_{\text{m}}h^3$	$0.0961^{+0.0014}_{-0.0014}$	$100\theta_{\text{s,eq}}$	$0.4490^{+0.0077}_{-0.0074}$
$100\theta_{\text{MC}}$	$1.0407^{+0.0014}_{-0.0014}$	σ_8	$0.811^{+0.020}_{-0.018}$	$H(0.15)$	$72.5^{+1.5}_{-1.5}$
τ	$0.055^{+0.020}_{-0.014}$	S_8	$0.835^{+0.040}_{-0.042}$	$D_{\text{M}}(0.15)$	645^{+15}_{-15}
Y_{P}	$0.240^{+0.032}_{-0.033}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.457^{+0.022}_{-0.023}$	$H(0.38)$	$82.7^{+1.2}_{-1.1}$
$\ln(10^{10}A_{\text{s}})$	$3.045^{+0.045}_{-0.031}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.609^{+0.020}_{-0.021}$	$D_{\text{M}}(0.38)$	1537^{+31}_{-31}
n_{s}	$0.962^{+0.018}_{-0.018}$	$\sigma_8/h^{0.5}$	$0.990^{+0.029}_{-0.029}$	$H(0.51)$	$89.49^{+0.98}_{-0.94}$
y_{cal}	$1.0006^{+0.0061}_{-0.0063}$	$r_{\text{drag}}h$	$98.8^{+2.9}_{-2.8}$	$D_{\text{M}}(0.51)$	1990^{+36}_{-36}
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.074}_{-0.073}$	$H(0.61)$	$95.16^{+0.83}_{-0.79}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	z_{re}	< 9.61	$D_{\text{M}}(0.61)$	2315^{+39}_{-39}
A_{143}^{tSZ}	> 1.02	$10^9 A_{\text{s}}$	$2.101^{+0.097}_{-0.065}$	$H(2.33)$	$236.6^{+2.0}_{-2.1}$
A_{100}^{PS}	257^{+70}_{-70}	$10^9 A_{\text{s}}e^{-2\tau}$	$1.882^{+0.031}_{-0.031}$	$D_{\text{M}}(2.33)$	5770^{+41}_{-41}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1236^{+41}_{-41}	$f\sigma_8(0.15)$	$0.461^{+0.020}_{-0.021}$
$A_{143 \times 217}^{\text{PS}}$	42^{+20}_{-20}	D_{220}	5733^{+100}_{-99}	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.016}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2538^{+33}_{-35}	$f\sigma_8(0.38)$	$0.478^{+0.017}_{-0.017}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.017}_{-0.014}$
A_{100}^{dustTT}	$8.9^{+4.6}_{-4.7}$	D_{2000}	$231.3^{+4.7}_{-4.7}$	$f\sigma_8(0.51)$	$0.476^{+0.015}_{-0.015}$
A_{143}^{dustTT}	$10.8^{+4.7}_{-4.8}$	$n_{\text{s},0.002}$	$0.962^{+0.018}_{-0.018}$	$\sigma_8(0.51)$	$0.621^{+0.016}_{-0.013}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.5^{+8.5}_{-8.3}$	Y_{P}	$0.240^{+0.032}_{-0.033}$	$f\sigma_8(0.61)$	$0.471^{+0.013}_{-0.014}$
A_{217}^{dustTT}	94^{+20}_{-20}	$Y_{\text{P}}^{\text{BBN}}$	$0.241^{+0.032}_{-0.033}$	$\sigma_8(0.61)$	$0.590^{+0.015}_{-0.012}$
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.095}$	Age/Gyr	$13.812^{+0.094}_{-0.095}$	$f\sigma_8(2.33)$	$0.2975^{+0.0080}_{-0.0061}$
$A_{100 \times 143}^{\text{dustTE}}$	$0.134^{+0.076}_{-0.074}$	z_*	$1089.8^{+1.1}_{-1.1}$	$\sigma_8(2.33)$	$0.3064^{+0.0087}_{-0.0065}$
$A_{100 \times 217}^{\text{dustTE}}$	$0.48^{+0.22}_{-0.21}$	r_*	$144.45^{+0.84}_{-0.79}$	f_{2000}^{143}	29^{+8}_{-8}
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04103^{+0.00088}_{-0.00086}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{143 \times 217}^{\text{dustTE}}$	$0.67^{+0.21}_{-0.20}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.876^{+0.079}_{-0.078}$	f_{2000}^{217}	$106.6^{+5.6}_{-5.1}$
A_{217}^{dustTE}	$2.09^{+0.69}_{-0.69}$	z_{drag}	$1059.6^{+1.9}_{-2.0}$	χ_{simall}^2	$397.1 (\nu: 2.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	r_{drag}	$147.13^{+0.87}_{-0.83}$	χ_{lowl}^2	$24.1 (\nu: 1.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.1410^{+0.0011}_{-0.0011}$	χ_{plik}^2	$2359.7 (\nu: 17.9)$
H_0	$67.2^{+1.8}_{-1.7}$	$100\theta_{\text{D}}$	$0.1606^{+0.0012}_{-0.0012}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_{Λ}	$0.682^{+0.022}_{-0.023}$	z_{eq}	3406^{+78}_{-78}	χ_{CMB}^2	$2780.8 (\nu: 17.5)$
Ω_{m}	$0.318^{+0.023}_{-0.022}$	k_{eq}	$0.01039^{+0.00024}_{-0.00024}$		

$\bar{\chi}_{\text{eff}}^2 = 2792.32; R - 1 = 0.01241$

20.17 base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00044}_{-0.00046}$	$\Omega_{\mathrm{m}}h^3$	$0.0962^{+0.0013}_{-0.0013}$	$H(0.15)$	$72.9^{+1.1}_{-1.1}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0026}_{-0.0026}$	σ_8	$0.810^{+0.022}_{-0.019}$	$D_{\mathrm{M}}(0.15)$	641^{+11}_{-11}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0013}$	S_8	$0.825^{+0.033}_{-0.032}$	$H(0.38)$	$83.02^{+0.87}_{-0.87}$
τ	$0.057^{+0.021}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1529^{+23}_{-22}
Y_{P}	$0.243^{+0.030}_{-0.032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.019}_{-0.018}$	$H(0.51)$	$89.74^{+0.77}_{-0.76}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.048}_{-0.034}$	$\sigma_8/h^{0.5}$	$0.985^{+0.028}_{-0.026}$	$D_{\mathrm{M}}(0.51)$	1981^{+27}_{-26}
n_{s}	$0.966^{+0.016}_{-0.015}$	$r_{\mathrm{drag}}h$	$99.6^{+2.1}_{-2.1}$	$H(0.61)$	$95.36^{+0.69}_{-0.68}$
y_{cal}	$1.0006^{+0.0062}_{-0.0066}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.065}_{-0.059}$	$D_{\mathrm{M}}(0.61)$	2305^{+29}_{-29}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.83	$H(2.33)$	$236.1^{+1.7}_{-1.6}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.071}$	$D_{\mathrm{M}}(2.33)$	5761^{+35}_{-35}
A_{143}^{tSZ}	> 1.02	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.030}_{-0.031}$	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.017}$
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1229^{+38}_{-38}	$\sigma_8(0.15)$	$0.748^{+0.020}_{-0.017}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5736^{+100}_{-100}	$f\sigma_8(0.38)$	$0.475^{+0.015}_{-0.014}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+34}_{-35}	$\sigma_8(0.38)$	$0.663^{+0.018}_{-0.015}$
A_{217}^{PS}	115^{+20}_{-30}	D_{1420}	818^{+12}_{-12}	$f\sigma_8(0.51)$	$0.473^{+0.014}_{-0.013}$
A^{kSZ}	—	D_{2000}	$231.3^{+4.8}_{-4.8}$	$\sigma_8(0.51)$	$0.621^{+0.016}_{-0.014}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.016}_{-0.015}$	$f\sigma_8(0.61)$	$0.468^{+0.013}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.9}_{-4.6}$	Y_{P}	$0.243^{+0.030}_{-0.032}$	$\sigma_8(0.61)$	$0.591^{+0.016}_{-0.013}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.1}_{-8.2}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.244^{+0.030}_{-0.032}$	$f\sigma_8(2.33)$	$0.2979^{+0.0083}_{-0.0064}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	Age/Gyr	$13.792^{+0.082}_{-0.080}$	$\sigma_8(2.33)$	$0.3071^{+0.0088}_{-0.0068}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.098}_{-0.091}$	z_*	$1089.7^{+1.1}_{-1.0}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.074}_{-0.076}$	r_*	$144.61^{+0.69}_{-0.72}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-5}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.22}$	$100\theta_*$	$1.04117^{+0.00082}_{-0.00078}$	f_{2000}^{217}	$106.6^{+5.8}_{-5.2}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.13}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.066}_{-0.070}$	χ_{simall}^2	$397.3 (\nu: 2.6)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.66^{+0.20}_{-0.20}$	z_{drag}	$1059.9^{+1.9}_{-1.9}$	χ_{lowl}^2	$23.4 (\nu: 0.7)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.68}_{-0.68}$	r_{drag}	$147.27^{+0.78}_{-0.78}$	χ_{plik}^2	$2360.2 (\nu: 17.9)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14080^{+0.00096}_{-0.00094}$	$\chi_{6\mathrm{DF}}^2$	$0.060 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0011}$	χ_{MGS}^2	$1.25 (\nu: 0.1)$
H_0	$67.6^{+1.3}_{-1.3}$	z_{eq}	3385^{+61}_{-58}	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.2)$
Ω_{Λ}	$0.689^{+0.015}_{-0.017}$	k_{eq}	$0.01033^{+0.00018}_{-0.00018}$	χ_{prior}^2	$11.6 (\nu: 10.3)$
Ω_{m}	$0.311^{+0.017}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	$6.2 (\nu: 0.8)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0025}_{-0.0024}$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0057}_{-0.0057}$	χ_{CMB}^2	$2780.9 (\nu: 17.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2798.67; R - 1 = 0.03223$$

20.18 base_yhe_plikHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02231^{+0.00051}_{-0.00050}$	$\Omega_{\mathrm{m}}h^2$	$0.1430^{+0.0028}_{-0.0028}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.013}_{-0.012}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0030}_{-0.0030}$	$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0013}_{-0.0014}$	$100\theta_{\mathrm{s,eq}}$	$0.4494^{+0.0065}_{-0.0064}$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0014}_{-0.0014}$	σ_8	$0.810^{+0.018}_{-0.015}$	$H(0.15)$	$72.6^{+1.4}_{-1.3}$
τ	$0.055^{+0.019}_{-0.014}$	S_8	$0.832^{+0.032}_{-0.033}$	$D_{\mathrm{M}}(0.15)$	645^{+13}_{-14}
Y_{P}	$0.239^{+0.031}_{-0.034}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.017}_{-0.018}$	$H(0.38)$	$82.8^{+1.1}_{-1.0}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.042}_{-0.030}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.016}_{-0.017}$	$D_{\mathrm{M}}(0.38)$	1536^{+27}_{-28}
n_{s}	$0.963^{+0.018}_{-0.017}$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.023}$	$H(0.51)$	$89.52^{+0.92}_{-0.88}$
y_{cal}	$1.0005^{+0.0062}_{-0.0064}$	$r_{\mathrm{drag}}h$	$99.0^{+2.6}_{-2.5}$	$D_{\mathrm{M}}(0.51)$	1989^{+33}_{-33}
A_{217}^{CIB}	46^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.451^{+0.059}_{-0.059}$	$H(0.61)$	$95.18^{+0.79}_{-0.77}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 9.50	$D_{\mathrm{M}}(0.61)$	2314^{+35}_{-36}
A_{143}^{tSZ}	> 1.04	$10^9 A_{\mathrm{s}}$	$2.099^{+0.090}_{-0.061}$	$H(2.33)$	$236.5^{+1.8}_{-1.8}$
A_{100}^{PS}	257^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.029}_{-0.030}$	$D_{\mathrm{M}}(2.33)$	5769^{+40}_{-39}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1236^{+38}_{-38}	$f\sigma_8(0.15)$	$0.460^{+0.016}_{-0.017}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5735^{+100}_{-99}	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2538^{+34}_{-33}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.014}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.5}$	D_{2000}	$231.3^{+4.8}_{-4.8}$	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.7}_{-4.7}$	$n_{\mathrm{s},0.002}$	$0.963^{+0.018}_{-0.017}$	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.012}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.2}_{-8.2}$	Y_{P}	$0.239^{+0.031}_{-0.034}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.240^{+0.031}_{-0.034}$	$\sigma_8(0.61)$	$0.590^{+0.015}_{-0.011}$
$A_{100}^{\mathrm{dustTE}}$	$0.113^{+0.10}_{-0.092}$	Age/Gyr	$13.810^{+0.092}_{-0.091}$	$f\sigma_8(2.33)$	$0.2972^{+0.0078}_{-0.0059}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.134^{+0.074}_{-0.076}$	z_*	$1089.8^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	$0.3062^{+0.0084}_{-0.0064}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.21}_{-0.21}$	r_*	$144.50^{+0.74}_{-0.72}$	f_{2000}^{143}	29^{+8}_{-8}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.13}_{-0.14}$	$100\theta_*$	$1.04104^{+0.00085}_{-0.00083}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-6}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.20}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.880^{+0.071}_{-0.069}$	f_{2000}^{217}	$106.5^{+5.7}_{-5.1}$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.68}_{-0.68}$	z_{drag}	$1059.6^{+1.9}_{-2.0}$	$\chi_{\mathrm{lensing}}^2$	$9.17 (\nu: 0.2)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.18^{+0.78}_{-0.76}$	χ_{simall}^2	$396.9 (\nu: 1.6)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14097^{+0.00099}_{-0.0010}$	χ_{lowl}^2	$24.0 (\nu: 0.9)$
H_0	$67.2^{+1.6}_{-1.5}$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0012}$	χ_{plik}^2	$2359.5 (\nu: 17.0)$
Ω_{Λ}	$0.684^{+0.020}_{-0.021}$	z_{eq}	3401^{+68}_{-67}	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{m}	$0.316^{+0.021}_{-0.020}$	k_{eq}	$0.01038^{+0.00021}_{-0.00020}$	χ_{CMB}^2	$2789.6 (\nu: 17.6)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2801.11; R - 1 = 0.01737$$

20.19 base_yhe_plikHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00045}_{-0.00045}$	σ_8	$0.810^{+0.019}_{-0.016}$	$H(0.38)$	$83.01^{+0.87}_{-0.85}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0024}_{-0.0023}$	S_8	$0.825^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1529^{+22}_{-22}
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0013}_{-0.0013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	$89.72^{+0.76}_{-0.75}$
τ	$0.057^{+0.019}_{-0.015}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.51)$	1981^{+26}_{-26}
Y_{P}	$0.242^{+0.030}_{-0.031}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.021}$	$H(0.61)$	$95.34^{+0.67}_{-0.66}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.043}_{-0.032}$	$r_{\mathrm{drag}}h$	$99.6^{+2.0}_{-1.9}$	$D_{\mathrm{M}}(0.61)$	2305^{+28}_{-28}
n_{s}	$0.965^{+0.016}_{-0.015}$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.055}_{-0.053}$	$H(2.33)$	$236.1^{+1.6}_{-1.4}$
y_{cal}	$1.0007^{+0.0062}_{-0.0066}$	z_{re}	< 9.66	$D_{\mathrm{M}}(2.33)$	5762^{+35}_{-34}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.106^{+0.092}_{-0.067}$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.029}_{-0.029}$	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.015}$
A_{143}^{tSZ}	> 1.02	D_{40}	1231^{+36}_{-35}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5740^{+100}_{-98}	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.013}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+34}_{-33}	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-12}	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.012}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.4^{+4.7}_{-4.8}$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.010}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.016}_{-0.015}$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.012}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.7}_{-4.5}$	Y_{P}	$0.242^{+0.030}_{-0.031}$	$f\sigma_8(2.33)$	$0.2979^{+0.0076}_{-0.0061}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.8}_{-4.6}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.243^{+0.030}_{-0.031}$	$\sigma_8(2.33)$	$0.3071^{+0.0080}_{-0.0064}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.1}_{-8.2}$	Age/Gyr	$13.793^{+0.081}_{-0.079}$	f_{2000}^{143}	29^{+8}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.7^{+1.1}_{-1.0}$	$f_{2000}^{143\times 217}$	32^{+6}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.112^{+0.098}_{-0.091}$	r_*	$144.62^{+0.65}_{-0.66}$	f_{2000}^{217}	$106.5^{+5.8}_{-5.2}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.074}_{-0.076}$	$100\theta_*$	$1.04115^{+0.00081}_{-0.00078}$	$\chi_{\mathrm{lensing}}^2$	$9.05\ (\nu: 0.2)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.21}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.063}_{-0.064}$	χ_{simall}^2	$397.3\ (\nu: 2.1)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.8^{+1.9}_{-1.9}$	χ_{lowl}^2	$23.5\ (\nu: 0.7)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.67^{+0.20}_{-0.20}$	r_{drag}	$147.27^{+0.73}_{-0.71}$	χ_{plik}^2	$2359.9\ (\nu: 17.3)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.67}_{-0.68}$	k_{D}	$0.14082^{+0.00093}_{-0.00092}$	$\chi_{6\mathrm{DF}}^2$	$0.058\ (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.1606^{+0.0012}_{-0.0011}$	χ_{MGS}^2	$1.23\ (\nu: 0.1)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3385^{+56}_{-53}	$\chi_{\mathrm{DR12BAO}}^2$	$4.9\ (\nu: 1.0)$
H_0	$67.6^{+1.3}_{-1.2}$	k_{eq}	$0.01033^{+0.00017}_{-0.00016}$	χ_{prior}^2	$11.6\ (\nu: 10.2)$
Ω_{Λ}	$0.689^{+0.015}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.8164^{+0.0099}_{-0.010}$	χ_{CMB}^2	$2789.7\ (\nu: 17.6)$
Ω_{m}	$0.311^{+0.016}_{-0.015}$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0051}_{-0.0053}$	χ_{BAO}^2	$6.2\ (\nu: 0.7)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0023}_{-0.0022}$	$H(0.15)$	$72.9^{+1.1}_{-1.1}$		
$\Omega_{\mathrm{m}}h^3$	$0.0962^{+0.0013}_{-0.0013}$	$D_{\mathrm{M}}(0.15)$	641^{+11}_{-11}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.47; R - 1 = 0.03003$$

20.20 base_yhe_plikHM_TTTEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02251^{+0.00049}_{-0.00048}$	$\Omega_{\mathrm{m}}h^2$	$0.1417^{+0.0031}_{-0.0029}$	$100\theta_{\mathrm{eq}}$	$0.820^{+0.014}_{-0.014}$
$\Omega_{\mathrm{c}}h^2$	$0.1186^{+0.0033}_{-0.0031}$	$\Omega_{\mathrm{m}}h^3$	$0.0965^{+0.0013}_{-0.0013}$	$100\theta_{\mathrm{s,eq}}$	$0.4526^{+0.0074}_{-0.0073}$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0013}_{-0.0014}$	σ_8	$0.810^{+0.023}_{-0.019}$	$H(0.15)$	$73.3^{+1.5}_{-1.4}$
τ	$0.058^{+0.023}_{-0.017}$	S_8	$0.818^{+0.039}_{-0.032}$	$D_{\mathrm{M}}(0.15)$	637^{+14}_{-14}
Y_{P}	$0.248^{+0.030}_{-0.032}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.021}_{-0.018}$	$H(0.38)$	$83.3^{+1.1}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.050^{+0.053}_{-0.037}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.021}_{-0.019}$	$D_{\mathrm{M}}(0.38)$	1521^{+29}_{-28}
n_{s}	$0.970^{+0.017}_{-0.018}$	$\sigma_8/h^{0.5}$	$0.981^{+0.031}_{-0.025}$	$H(0.51)$	$89.99^{+0.90}_{-0.90}$
y_{cal}	$1.0007^{+0.0062}_{-0.0068}$	$r_{\mathrm{drag}}h$	$100.3^{+2.9}_{-2.7}$	$D_{\mathrm{M}}(0.51)$	1972^{+34}_{-34}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.426^{+0.073}_{-0.061}$	$H(0.61)$	$95.57^{+0.80}_{-0.78}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 10.1	$D_{\mathrm{M}}(0.61)$	2295^{+37}_{-36}
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.4}$	$10^9 A_{\mathrm{s}}$	$2.11^{+0.11}_{-0.076}$	$H(2.33)$	$235.8^{+2.0}_{-1.8}$
A_{100}^{PS}	259^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.030}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5751^{+39}_{-40}
A_{143}^{PS}	45^{+20}_{-20}	D_{40}	1223^{+41}_{-39}	$f\sigma_8(0.15)$	$0.453^{+0.020}_{-0.018}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{220}	5740^{+99}_{-100}	$\sigma_8(0.15)$	$0.749^{+0.021}_{-0.017}$
A_{217}^{PS}	115^{+20}_{-30}	D_{810}	2539^{+34}_{-35}	$f\sigma_8(0.38)$	$0.472^{+0.017}_{-0.015}$
A^{kSZ}	—	D_{1420}	818^{+12}_{-14}	$\sigma_8(0.38)$	$0.664^{+0.019}_{-0.015}$
$A_{100}^{\mathrm{dustTT}}$	$9.0^{+4.8}_{-4.8}$	D_{2000}	$231.3^{+4.7}_{-5.1}$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.013}$
$A_{143}^{\mathrm{dustTT}}$	$11.0^{+4.9}_{-4.6}$	$n_{\mathrm{s},0.002}$	$0.970^{+0.017}_{-0.018}$	$\sigma_8(0.51)$	$0.622^{+0.018}_{-0.014}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.1}_{-7.7}$	Y_{P}	$0.248^{+0.030}_{-0.032}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.012}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.249^{+0.030}_{-0.033}$	$\sigma_8(0.61)$	$0.592^{+0.017}_{-0.013}$
$A_{100}^{\mathrm{dustTE}}$	$0.111^{+0.094}_{-0.094}$	Age/Gyr	$13.769^{+0.088}_{-0.091}$	$f\sigma_8(2.33)$	$0.2987^{+0.0090}_{-0.0067}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.133^{+0.075}_{-0.073}$	z_*	$1089.7^{+1.1}_{-1.0}$	$\sigma_8(2.33)$	$0.3082^{+0.0097}_{-0.0070}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.28}_{-0.22}$	r_*	$144.69^{+0.80}_{-0.81}$	f_{2000}^{143}	29^{+7}_{-8}
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$100\theta_*$	$1.04130^{+0.00084}_{-0.00083}$	$f_{2000}^{143 \times 217}$	32^{+6}_{-5}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.22}_{-0.20}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.896^{+0.080}_{-0.076}$	f_{2000}^{217}	$106.8^{+5.6}_{-5.3}$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.70}_{-0.65}$	z_{drag}	$1060.2^{+1.8}_{-1.9}$	χ_{simall}^2	$397.7 (\nu: 3.6)$
c_{100}	$0.9997^{+0.0015}_{-0.0015}$	r_{drag}	$147.32^{+0.88}_{-0.83}$	χ_{lowl}^2	$22.8 (\nu: 0.7)$
c_{217}	$0.9982^{+0.0015}_{-0.0016}$	k_{D}	$0.1406^{+0.0010}_{-0.0012}$	χ_{plik}^2	$2362.0 (\nu: 21.5)$
H_0	$68.1^{+1.7}_{-1.6}$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0011}_{-0.0012}$	$\chi_{\mathrm{H073p45}}^2$	$10.6 (\nu: 3.1)$
Ω_{Λ}	$0.694^{+0.021}_{-0.021}$	z_{eq}	3371^{+75}_{-70}	χ_{prior}^2	$11.6 (\nu: 11.6)$
Ω_{m}	$0.306^{+0.021}_{-0.021}$	k_{eq}	$0.01029^{+0.00023}_{-0.00021}$	χ_{CMB}^2	$2782.5 (\nu: 20.3)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 2804.74; R - 1 = 0.08577$$

20.21 base_yhe_CamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02213	$0.02211^{+0.00077}_{-0.00076} \quad (-0.0\sigma)$	S_8	0.837	$0.838^{+0.069}_{-0.065} \quad (-0.1\sigma)$	$100\theta_{s,eq}$	0.4488	$0.449^{+0.013}_{-0.012} \quad (+0.0\sigma)$
$\Omega_c h^2$	0.1204	$0.1205^{+0.0059}_{-0.0058} \quad (-0.0\sigma)$	$\sigma_8 \Omega_m^{0.5}$	0.4583	$0.459^{+0.038}_{-0.036} \quad (-0.1\sigma)$	$H(0.15)$	72.37	$72.3^{+2.6}_{-2.5} \quad (-0.0\sigma)$
$100\theta_{MC}$	1.04094	$1.0407^{+0.0022}_{-0.0023} \quad (-0.1\sigma)$	$\sigma_8 \Omega_m^{0.25}$	0.6099	$0.610^{+0.032}_{-0.031} \quad (-0.1\sigma)$	$D_M(0.15)$	646.4	$648^{+27}_{-25} \quad (+0.0\sigma)$
τ	0.0525	$0.052^{+0.022}_{-0.022} \quad (+0.0\sigma)$	$\sigma_8/h^{0.5}$	0.9914	$0.991^{+0.043}_{-0.042} \quad (-0.1\sigma)$	$H(0.38)$	82.61	$82.5^{+2.0}_{-1.9} \quad (-0.0\sigma)$
Y_P	0.248	$0.242^{+0.052}_{-0.056} \quad (-0.2\sigma)$	$r_{drag} h$	98.67	$98.5^{+5.0}_{-4.8} \quad (+0.0\sigma)$	$D_M(0.38)$	1540	$1542^{+53}_{-52} \quad (+0.0\sigma)$
$\ln(10^{10} A_s)$	3.0397	$3.038^{+0.047}_{-0.047} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	2.447	$2.45^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$H(0.51)$	89.39	$89.3^{+1.6}_{-1.5} \quad (-0.0\sigma)$
n_s	0.9644	$0.963^{+0.028}_{-0.029} \quad (-0.0\sigma)$	z_{re}	7.57	$7.5^{+2.2}_{-2.4} \quad (+0.0\sigma)$	$D_M(0.51)$	1994	$1996^{+62}_{-61} \quad (+0.0\sigma)$
y_{cal}	1.0003	$1.0004^{+0.0064}_{-0.0062} \quad (+0.0\sigma)$	$10^9 A_s$	2.090	$2.09^{+0.10}_{-0.096} \quad (-0.1\sigma)$	$H(0.61)$	95.07	$95.0^{+1.4}_{-1.3} \quad (-0.0\sigma)$
A_{100}^{PS}	247	$242^{+70}_{-70} \quad (-0.8\sigma)$	$10^9 A_s e^{-2\tau}$	1.8815	$1.880^{+0.040}_{-0.039} \quad (-0.3\sigma)$	$D_M(0.61)$	2319	$2322^{+67}_{-66} \quad (+0.0\sigma)$
A_{143}^{PS}	38	$40^{+30}_{-20} \quad (-1.0\sigma)$	D_{40}	1228	$1232^{+59}_{-56} \quad (-0.1\sigma)$	$H(2.33)$	236.61	$236.6^{+3.5}_{-3.3} \quad (-0.1\sigma)$
A_{217}^{PS}	99.1	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	5701	$5703^{+110}_{-110} \quad (-0.2\sigma)$	$D_M(2.33)$	5775	$5778^{+65}_{-65} \quad (+0.0\sigma)$
A_{217}^{CIB}	43.2	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	2532.9	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	0.4623	$0.463^{+0.034}_{-0.033} \quad (-0.1\sigma)$
A_{143}^{tSZ}	3.96	$< 8.79 \quad (-0.6\sigma)$	D_{1420}	813.2	$814^{+14}_{-14} \quad (+0.0\sigma)$	$\sigma_8(0.15)$	0.7492	$0.748^{+0.022}_{-0.022} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	0.554	$0.65^{+0.32}_{-0.33}$	D_{2000}	229.0	$229.8^{+6.5}_{-6.5} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	0.4790	$0.479^{+0.026}_{-0.025} \quad (-0.1\sigma)$
$r_{143 \times 217}^{CIB}$	0.63	—	$n_{s,0.002}$	0.9644	$0.963^{+0.028}_{-0.029} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	0.6633	$0.662^{+0.019}_{-0.019} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	0.00	—	Y_P	0.248	$0.242^{+0.052}_{-0.056} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	0.4767	$0.477^{+0.022}_{-0.022} \quad (-0.1\sigma)$
A^{kSZ}	4.3	—	Y_P^{BBN}	0.249	$0.244^{+0.052}_{-0.056} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	0.6204	$0.619^{+0.018}_{-0.018} \quad (-0.1\sigma)$
A_{100}^{dust}	1.01	$1.01^{+0.52}_{-0.51}$	Age/Gyr	13.823	$13.83^{+0.15}_{-0.15} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	0.4711	$0.471^{+0.019}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{dust}	0.979	$0.97^{+0.45}_{-0.44}$	z_*	1090.36	$1090.2^{+1.8}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	0.5901	$0.589^{+0.018}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{dust}	0.962	$0.97^{+0.26}_{-0.27}$	r_*	144.49	$144.5^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.2973	$0.2967^{+0.0094}_{-0.0089} \quad (-0.1\sigma)$
$A_{143 \times 217}^{dust}$	1.011	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	1.04108	$1.0410^{+0.0013}_{-0.0013} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	0.3061	$0.306^{+0.010}_{-0.0097} \quad (-0.1\sigma)$
c_{100}	0.99736	$0.9975^{+0.0027}_{-0.0028} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	13.879	$13.88^{+0.12}_{-0.12} \quad (+0.1\sigma)$	f_{2000}^{143}	31.7	$30^{+10}_{-10} \quad (-0.2\sigma)$
c_{217}	1.00131	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	1059.51	$1059.3^{+3.1}_{-3.1} \quad (-0.1\sigma)$	f_{2000}^{217}	108.1	$107.3^{+7.1}_{-7.1} \quad (-0.4\sigma)$
H_0	67.01	$66.9^{+3.0}_{-2.9} \quad (+0.0\sigma)$	r_{drag}	147.23	$147.3^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	33.5	$33^{+8}_{-8} \quad (-0.4\sigma)$
Ω_Λ	0.6811	$0.679^{+0.038}_{-0.042} \quad (+0.0\sigma)$	k_D	0.14043	$0.1406^{+0.0021}_{-0.0020} \quad (+0.1\sigma)$	χ_{small}^2	395.89	$397.0 \quad (\nu: 1.4) \quad (+0.0\sigma)$
Ω_m	0.3189	$0.321^{+0.042}_{-0.038} \quad (-0.0\sigma)$	$100\theta_D$	0.16118	$0.1610^{+0.0020}_{-0.0020} \quad (-0.2\sigma)$	χ_{lowl}^2	23.3	$23.9 \quad (\nu: 2.2) \quad (-0.0\sigma)$
$\Omega_m h^2$	0.1432	$0.1433^{+0.0055}_{-0.0054} \quad (-0.0\sigma)$	z_{eq}	3407	$3409^{+130}_{-130} \quad (-0.0\sigma)$	$\chi_{CamSpec}^2$	7050.2	$7063.9 \quad (\nu: 15.9)$
$\Omega_m h^3$	0.09597	$0.0958^{+0.0020}_{-0.0019} \quad (-0.1\sigma)$	k_{eq}	0.010398	$0.01040^{+0.00040}_{-0.00039} \quad (-0.0\sigma)$	χ_{prior}^2	2.4	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	0.8116	$0.811^{+0.025}_{-0.025} \quad (-0.1\sigma)$	$100\theta_{eq}$	0.8118	$0.811^{+0.026}_{-0.024} \quad (+0.0\sigma)$	χ_{CMB}^2	7469.4	$7484.8 \quad (\nu: 16.2) \quad (+1110.3\sigma)$

Best-fit $\chi_{eff}^2 = 7471.80$; $\Delta\chi_{eff}^2 = 6292.24$; $\bar{\chi}_{eff}^2 = 7492.39$; $\Delta\bar{\chi}_{eff}^2 = 6291.97$; $R - 1 = 0.00648$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.89 (Δ 0.05) commander_dx12_v3.2_29: 23.34 (Δ -0.35) CamSpec like_10.7HM: 7050.19

20.22 base_yhe_CamSpecHM_TT_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00064}_{-0.00065} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.022}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+29}_{-27} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.031}_{-0.031} \quad (-0.1\sigma)$	$H(0.51)$	$89.75^{+0.98}_{-0.98} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0018}_{-0.0019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.5} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+34}_{-33} \quad (+0.0\sigma)$
τ	$0.054^{+0.022}_{-0.022} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.422^{+0.073}_{-0.073} \quad (-0.1\sigma)$	$H(0.61)$	$95.35^{+0.90}_{-0.89} \quad (-0.0\sigma)$
Y_{P}	$0.250^{+0.046}_{-0.051} \quad (-0.2\sigma)$	z_{re}	$7.7^{+2.1}_{-2.4} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+37}_{-36} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.045}_{-0.047} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.097}_{-0.097} \quad (-0.1\sigma)$	$H(2.33)$	$235.8^{+2.1}_{-2.1} \quad (-0.1\sigma)$
n_{s}	$0.969^{+0.021}_{-0.022} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.037}_{-0.039} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+48}_{-47} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	$1219^{+44}_{-43} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.020} \quad (-0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5709^{+110}_{-110} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.021}_{-0.021} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.018}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.019}_{-0.019} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.5^{+6.4}_{-6.2} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.021}_{-0.022} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.018}_{-0.018} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	Y_{P}	$0.250^{+0.046}_{-0.051} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.251^{+0.047}_{-0.052} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Age/Gyr	$13.80^{+0.11}_{-0.11} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2976^{+0.0089}_{-0.0087} \quad (-0.1\sigma)$
A^{kSZ}	—	z_*	$1090.2^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3069^{+0.0095}_{-0.0092} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.54}_{-0.51}$	r_*	$144.78^{+0.98}_{-0.99} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+10}_{-10} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.98^{+0.47}_{-0.44}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.8^{+7.0}_{-7.1} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.096}_{-0.096} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{drag}	$1059.8^{+2.8}_{-2.8} \quad (-0.1\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	r_{drag}	$147.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1402^{+0.0016}_{-0.0016} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.8 \quad (\nu: 15.4)$
H_0	$67.7^{+1.6}_{-1.6} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0020} \quad (-0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.054 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.019}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	$3374^{+76}_{-74} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.43 \quad (\nu: 0.2) \quad (+0.0\sigma)$
Ω_{m}	$0.309^{+0.020}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00022} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.1) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0019}_{-0.0019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0071}_{-0.0071} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.0\sigma)$
σ_8	$0.808^{+0.023}_{-0.024} \quad (-0.1\sigma)$	$H(0.15)$	$73.0^{+1.4}_{-1.4} \quad (-0.0\sigma)$	χ_{CMB}^2	$7484.5 \quad (\nu: 15.3) \quad (+1123.3\sigma)$
S_8	$0.820^{+0.039}_{-0.038} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+14}_{-13} \quad (+0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$H(0.38)$	$83.1^{+1.1}_{-1.1} \quad (-0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7498.32$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.79$; $R - 1 = 0.01513$

20.23 base_yhe_CamSpecHM_TT_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02211^{+0.00074}_{-0.00073} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.024} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$647^{+20}_{-20} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1203^{+0.0042}_{-0.0042} \quad (+0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (+0.0\sigma)$	$H(0.38)$	$82.6^{+1.6}_{-1.6} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0407^{+0.0022}_{-0.0022} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.028} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1541^{+42}_{-41} \quad (+0.1\sigma)$
τ	$0.053^{+0.023}_{-0.022} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$98.7^{+3.7}_{-3.6} \quad (-0.0\sigma)$	$H(0.51)$	$89.3^{+1.4}_{-1.3} \quad (-0.1\sigma)$
Y_{P}	$0.241^{+0.051}_{-0.056} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.074}_{-0.074} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1995^{+50}_{-48} \quad (+0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.045}_{-0.045} \quad (-0.0\sigma)$	z_{re}	$7.5^{+2.2}_{-2.4} \quad (+0.1\sigma)$	$H(0.61)$	$95.0^{+1.2}_{-1.2} \quad (-0.1\sigma)$
n_{s}	$0.962^{+0.026}_{-0.025} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.087^{+0.096}_{-0.093} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2320^{+54}_{-53} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0062} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.037}_{-0.036} \quad (-0.3\sigma)$	$H(2.33)$	$236.5^{+2.5}_{-2.5} \quad (+0.0\sigma)$
A_{100}^{PS}	$241^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1232^{+49}_{-49} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5778^{+61}_{-61} \quad (+0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+110}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.022} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2533^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.019}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.017} \quad (+0.0\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.6\sigma)$	D_{2000}	$230.0^{+6.4}_{-6.5} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.018}_{-0.017} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.962^{+0.026}_{-0.025} \quad (-0.1\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.241^{+0.051}_{-0.056} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.018}_{-0.016} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.242^{+0.051}_{-0.056} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.83^{+0.14}_{-0.14} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.017}_{-0.016} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	z_*	$1090.1^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2966^{+0.0095}_{-0.0086} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.45}$	r_*	$144.57^{+0.99}_{-0.99} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.305^{+0.011}_{-0.0096} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.24}_{-0.27}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.095}_{-0.096} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.1^{+7.2}_{-7.2} \quad (-0.4\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	z_{drag}	$1059.2^{+3.2}_{-3.1} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+8}_{-8} \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	$147.3^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.50 \quad (\nu: 0.4) \quad (+0.0\sigma)$
H_0	$67.0^{+2.3}_{-2.3} \quad (-0.1\sigma)$	k_{D}	$0.1406^{+0.0018}_{-0.0018} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.1\sigma)$
Ω_{Λ}	$0.681^{+0.028}_{-0.031} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0020}_{-0.0020} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.9 \quad (\nu: 1.6) \quad (-0.0\sigma)$
Ω_{m}	$0.319^{+0.031}_{-0.028} \quad (+0.0\sigma)$	z_{eq}	$3403^{+95}_{-94} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.4 \quad (\nu: 14.4)$
$\Omega_{\mathrm{m}} h^2$	$0.1431^{+0.0040}_{-0.0039} \quad (+0.0\sigma)$	k_{eq}	$0.01039^{+0.00029}_{-0.00029} \quad (+0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.8) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0958^{+0.0020}_{-0.0019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.019}_{-0.018} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.8 \quad (\nu: 15.9) \quad (+1100.1\sigma)$
σ_8	$0.810^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4491^{+0.0095}_{-0.0091} \quad (-0.0\sigma)$		
S_8	$0.835^{+0.043}_{-0.043} \quad (+0.0\sigma)$	$H(0.15)$	$72.3^{+2.0}_{-2.0} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 7501.32; \Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.93; R - 1 = 0.00730$$

20.24 base_yhe_CamSpecHM_TT_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02225^{+0.00065}_{-0.00062} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+27}_{-27} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0028}_{-0.0028} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.025} \quad (-0.0\sigma)$	$H(0.51)$	$89.70^{+0.98}_{-0.96} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0018}_{-0.0019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+2.4}_{-2.3} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+33}_{-32} \quad (+0.0\sigma)$
τ	$0.056^{+0.021}_{-0.019} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.060}_{-0.060} \quad (+0.0\sigma)$	$H(0.61)$	$95.31^{+0.90}_{-0.87} \quad (-0.1\sigma)$
Y_{P}	$0.248^{+0.046}_{-0.052} \quad (-0.2\sigma)$	z_{re}	$7.8^{+2.0}_{-2.0} \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+36}_{-36} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.041}_{-0.040} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.101^{+0.088}_{-0.082} \quad (+0.0\sigma)$	$H(2.33)$	$235.9^{+1.9}_{-1.9} \quad (-0.0\sigma)$
n_{s}	$0.968^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.035}_{-0.035} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+47}_{-47} \quad (+0.1\sigma)$
y_{cal}	$1.0007^{+0.0063}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	$1223^{+42}_{-42} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{100}^{PS}	$243^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5715^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.019} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+14}_{-14} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.017}_{-0.017} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.8^{+6.5}_{-6.4} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.016}_{-0.016} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	Y_{P}	$0.248^{+0.046}_{-0.052} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.249^{+0.046}_{-0.052} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.016}_{-0.015} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Age/Gyr	$13.80^{+0.11}_{-0.11} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0084}_{-0.0078} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.1^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0091}_{-0.0084} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.54}_{-0.51}$	r_*	$144.74^{+0.86}_{-0.92} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+10}_{-10} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.47}_{-0.44}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.6^{+7.0}_{-7.0} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.086}_{-0.090} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{drag}	$1059.7^{+2.8}_{-2.7} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.42 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.3\sigma)$	r_{drag}	$147.5^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (+0.1\sigma)$
c_{217}	$1.0012^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1403^{+0.0015}_{-0.0016} \quad (+0.2\sigma)$	χ_{lowl}^2	$23.0 \quad (\nu: 0.9) \quad (-0.0\sigma)$
H_0	$67.6^{+1.5}_{-1.5} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0020} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.1 \quad (\nu: 14.6)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019} \quad (-0.0\sigma)$	z_{eq}	$3378^{+67}_{-66} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.057 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.311^{+0.019}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00020} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.33 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0027} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.012}_{-0.012} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 \quad (\nu: 1.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0960^{+0.0019}_{-0.0018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0064}_{-0.0062} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
σ_8	$0.810^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$H(0.15)$	$72.9^{+1.4}_{-1.3} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.7 \quad (\nu: 15.4) \quad (+1116.0\sigma)$
S_8	$0.824^{+0.032}_{-0.031} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+13}_{-13} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.2 \quad (\nu: 0.8) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.0^{+1.1}_{-1.1} \quad (-0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7507.45$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.93$; $R - 1 = 0.01905$

20.25 **base_yhe_CamSpecHM_TT_lowl_lowE_post_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02213^{+0.00076}_{-0.00075} \quad (-0.0\sigma)$	S_8	$0.838^{+0.069}_{-0.065} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.449^{+0.013}_{-0.013} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1204^{+0.0058}_{-0.0058} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.459^{+0.038}_{-0.036} \quad (-0.1\sigma)$	$H(0.15)$	$72.3^{+2.6}_{-2.5} \quad (+0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0022}_{-0.0023} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.610^{+0.032}_{-0.031} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$647^{+26}_{-25} \quad (-0.0\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.992^{+0.043}_{-0.042} \quad (-0.1\sigma)$	$H(0.38)$	$82.6^{+2.0}_{-1.9} \quad (-0.0\sigma)$
Y_{P}	$0.243^{+0.051}_{-0.054} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$98.6^{+5.0}_{-4.8} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1541^{+52}_{-51} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.044}_{-0.033} \quad (-0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.45^{+0.12}_{-0.11} \quad (-0.0\sigma)$	$H(0.51)$	$89.4^{+1.6}_{-1.5} \quad (-0.0\sigma)$
n_{s}	$0.963^{+0.028}_{-0.028} \quad (-0.0\sigma)$	z_{re}	$< 9.49 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1995^{+62}_{-61} \quad (+0.0\sigma)$
y_{cal}	$1.0004^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.095}_{-0.068} \quad (-0.1\sigma)$	$H(0.61)$	$95.0^{+1.4}_{-1.3} \quad (-0.0\sigma)$
A_{100}^{PS}	$242^{+70}_{-70} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.880^{+0.040}_{-0.039} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2320^{+67}_{-66} \quad (+0.0\sigma)$
A_{143}^{PS}	$40^{+30}_{-20} \quad (-1.0\sigma)$	D_{40}	$1231^{+59}_{-55} \quad (-0.1\sigma)$	$H(2.33)$	$236.6^{+3.5}_{-3.3} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5704^{+110}_{-110} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5777^{+63}_{-64} \quad (+0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.463^{+0.034}_{-0.033} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.6\sigma)$	D_{1420}	$814^{+14}_{-14} \quad (+0.0\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.022}_{-0.020} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	D_{2000}	$229.8^{+6.5}_{-6.5} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.479^{+0.026}_{-0.026} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.963^{+0.028}_{-0.028} \quad (-0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.019}_{-0.016} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.243^{+0.051}_{-0.054} \quad (-0.2\sigma)$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.022} \quad (-0.1\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.244^{+0.052}_{-0.054} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.018}_{-0.015} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.51}$	Age/Gyr	$13.83^{+0.14}_{-0.14} \quad (+0.0\sigma)$	$f\sigma_8(0.61)$	$0.471^{+0.019}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.45}_{-0.44}$	z_*	$1090.2^{+1.8}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.017}_{-0.014} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.5^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0090}_{-0.0073} \quad (-0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	$1.0410^{+0.0013}_{-0.0013} \quad (+0.1\sigma)$	$\sigma_8(2.33)$	$0.3062^{+0.0099}_{-0.0080} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0028} \quad (-3.4\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.12}_{-0.12} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (-0.2\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.3^{+3.1}_{-3.0} \quad (-0.1\sigma)$	f_{2000}^{217}	$107.4^{+7.0}_{-7.1} \quad (-0.4\sigma)$
H_0	$67.0^{+3.0}_{-2.9} \quad (+0.0\sigma)$	r_{drag}	$147.3^{+1.3}_{-1.3} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
Ω_{Λ}	$0.680^{+0.038}_{-0.042} \quad (+0.0\sigma)$	k_{D}	$0.1406^{+0.0020}_{-0.0020} \quad (+0.1\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (+0.0\sigma)$
Ω_{m}	$0.320^{+0.042}_{-0.038} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0020}_{-0.0020} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.8 \quad (\nu: 2.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1432^{+0.0056}_{-0.0054} \quad (-0.0\sigma)$	z_{eq}	$3407^{+130}_{-130} \quad (-0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.8 \quad (\nu: 15.9)$
$\Omega_{\mathrm{m}} h^3$	$0.0959^{+0.0020}_{-0.0019} \quad (-0.1\sigma)$	k_{eq}	$0.01040^{+0.00041}_{-0.00039} \quad (-0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 5.9) \quad (+0.1\sigma)$
σ_8	$0.812^{+0.024}_{-0.023} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.026}_{-0.024} \quad (+0.0\sigma)$	χ_{CMB}^2	$7484.5 \quad (\nu: 15.8) \quad (+1125.9\sigma)$

$\bar{\chi}_{\mathrm{eff}}^2 = 7492.12$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.97$; $R - 1 = 0.00634$

20.26 base_yhe_CamSpecHM_TT_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02227^{+0.00064}_{-0.00064} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+29}_{-27} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.031}_{-0.030} \quad (-0.1\sigma)$	$H(0.51)$	$89.76^{+0.98}_{-0.97} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0412^{+0.0018}_{-0.0019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.5}_{-2.5} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+34}_{-32} \quad (+0.0\sigma)$
τ	$0.055^{+0.019}_{-0.014} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.425^{+0.072}_{-0.070} \quad (-0.1\sigma)$	$H(0.61)$	$95.36^{+0.89}_{-0.88} \quad (-0.0\sigma)$
Y_{P}	$0.250^{+0.046}_{-0.051} \quad (-0.2\sigma)$	z_{re}	$< 9.53 \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+37}_{-35} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.045}_{-0.035} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.096}_{-0.073} \quad (-0.1\sigma)$	$H(2.33)$	$235.8^{+2.2}_{-2.0} \quad (-0.1\sigma)$
n_{s}	$0.969^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.037}_{-0.038} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(2.33)$	$5762^{+48}_{-47} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0066} \quad (+0.0\sigma)$	D_{40}	$1219^{+44}_{-42} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.020} \quad (-0.1\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5710^{+110}_{-110} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.021}_{-0.019} \quad (-0.1\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+36}_{-35} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+14}_{-13} \quad (+0.0\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.018}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.5^{+6.4}_{-6.3} \quad (+0.1\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.88 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.969^{+0.021}_{-0.021} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.017}_{-0.016} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.32}$	Y_{P}	$0.250^{+0.046}_{-0.051} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.015}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.251^{+0.046}_{-0.051} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.016}_{-0.015} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Age/Gyr	$13.79^{+0.11}_{-0.11} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2979^{+0.0086}_{-0.0075} \quad (-0.1\sigma)$
A^{kSZ}	—	z_*	$1090.2^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0091}_{-0.0079} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.54}_{-0.52}$	r_*	$144.78^{+0.96}_{-1.0} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+10}_{-10} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.98^{+0.46}_{-0.44}$	$100\theta_*$	$1.0413^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.8^{+6.9}_{-7.1} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.094}_{-0.098} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{drag}	$1059.8^{+2.7}_{-2.8} \quad (-0.1\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.7) \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0028} \quad (-3.4\sigma)$	r_{drag}	$147.5^{+1.1}_{-1.1} \quad (+0.1\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1402^{+0.0016}_{-0.0016} \quad (+0.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.7 \quad (\nu: 15.5)$
H_0	$67.8^{+1.6}_{-1.6} \quad (+0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1612^{+0.0019}_{-0.0019} \quad (-0.2\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.053 \quad (\nu: 0.0) \quad (-0.0\sigma)$
Ω_{Λ}	$0.691^{+0.019}_{-0.020} \quad (+0.0\sigma)$	z_{eq}	$3373^{+76}_{-73} \quad (-0.1\sigma)$	χ_{MGS}^2	$1.45 \quad (\nu: 0.2) \quad (+0.0\sigma)$
Ω_{m}	$0.309^{+0.020}_{-0.019} \quad (-0.0\sigma)$	k_{eq}	$0.01030^{+0.00023}_{-0.00022} \quad (-0.1\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 1.2) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0032}_{-0.0031} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.014} \quad (+0.1\sigma)$	χ_{prior}^2	$7.7 \quad (\nu: 6.2) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0019}_{-0.0019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4522^{+0.0071}_{-0.0071} \quad (+0.1\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.0\sigma)$
σ_8	$0.809^{+0.022}_{-0.022} \quad (-0.1\sigma)$	$H(0.15)$	$73.0^{+1.4}_{-1.4} \quad (+0.0\sigma)$	χ_{CMB}^2	$7484.4 \quad (\nu: 15.1) \quad (+1132.4\sigma)$
S_8	$0.821^{+0.039}_{-0.038} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+14}_{-13} \quad (-0.0\sigma)$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.021}_{-0.021} \quad (-0.1\sigma)$	$H(0.38)$	$83.1^{+1.1}_{-1.1} \quad (-0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7498.14$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.76$; $R - 1 = 0.01531$

20.27 base_yhe_CamSpecHM_TT_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02213^{+0.00074}_{-0.00068} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.024}_{-0.024} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$646^{+19}_{-19} \quad (+0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1201^{+0.0040}_{-0.0041} \quad (+0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.020}_{-0.020} \quad (-0.0\sigma)$	$H(0.38)$	$82.6^{+1.6}_{-1.5} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0021}_{-0.0021} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.990^{+0.027}_{-0.027} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1539^{+38}_{-39} \quad (+0.1\sigma)$
τ	$0.054^{+0.019}_{-0.013} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$98.8^{+3.6}_{-3.4} \quad (-0.0\sigma)$	$H(0.51)$	$89.4^{+1.3}_{-1.2} \quad (-0.1\sigma)$
Y_{P}	$0.242^{+0.050}_{-0.054} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.074}_{-0.074} \quad (+0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1993^{+46}_{-47} \quad (+0.1\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.043}_{-0.031} \quad (-0.0\sigma)$	z_{re}	$< 9.49 \quad (+0.1\sigma)$	$H(0.61)$	$95.1^{+1.2}_{-1.1} \quad (-0.1\sigma)$
n_{s}	$0.963^{+0.026}_{-0.025} \quad (-0.0\sigma)$	10^9A_{s}	$2.094^{+0.092}_{-0.065} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2318^{+50}_{-51} \quad (+0.1\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0062} \quad (+0.0\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.036}_{-0.036} \quad (-0.2\sigma)$	$H(2.33)$	$236.4^{+2.4}_{-2.4} \quad (+0.0\sigma)$
A_{100}^{PS}	$241^{+70}_{-70} \quad (-0.8\sigma)$	D_{40}	$1231^{+48}_{-49} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(2.33)$	$5776^{+56}_{-59} \quad (+0.1\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5707^{+110}_{-100} \quad (-0.2\sigma)$	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.022} \quad (+0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2533^{+36}_{-34} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.019}_{-0.017} \quad (-0.1\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$815^{+14}_{-14} \quad (+0.1\sigma)$	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.017} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	D_{2000}	$230.0^{+6.4}_{-6.5} \quad (+0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.018}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.963^{+0.026}_{-0.025} \quad (-0.0\sigma)$	$f\sigma_8(0.51)$	$0.476^{+0.014}_{-0.014} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.242^{+0.050}_{-0.054} \quad (-0.2\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.017}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.243^{+0.051}_{-0.054} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.470^{+0.013}_{-0.013} \quad (-0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.83^{+0.13}_{-0.14} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.017}_{-0.014} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.52}_{-0.50}$	z_*	$1090.1^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2971^{+0.0091}_{-0.0073} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.44}$	r_*	$144.59^{+0.99}_{-0.97} \quad (+0.0\sigma)$	$\sigma_8(2.33)$	$0.306^{+0.010}_{-0.0082} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.24}_{-0.26}$	$100\theta_*$	$1.0411^{+0.0012}_{-0.0012} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (-0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.095}_{-0.095} \quad (+0.0\sigma)$	f_{2000}^{217}	$107.2^{+7.0}_{-7.2} \quad (-0.4\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.3^{+3.2}_{-3.0} \quad (-0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.6\sigma)$	r_{drag}	$147.3^{+1.1}_{-1.1} \quad (+0.0\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.48 \quad (\nu: 0.4) \quad (+0.0\sigma)$
H_0	$67.1^{+2.3}_{-2.1} \quad (-0.0\sigma)$	k_{D}	$0.1406^{+0.0017}_{-0.0018} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (+0.1\sigma)$
Ω_{Λ}	$0.682^{+0.028}_{-0.029} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0020}_{-0.0020} \quad (-0.2\sigma)$	χ_{lowl}^2	$23.8 \quad (\nu: 1.5) \quad (-0.0\sigma)$
Ω_{m}	$0.318^{+0.029}_{-0.028} \quad (+0.0\sigma)$	z_{eq}	$3400^{+90}_{-92} \quad (+0.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7063.4 \quad (\nu: 14.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1429^{+0.0037}_{-0.0039} \quad (+0.0\sigma)$	k_{eq}	$0.01038^{+0.00027}_{-0.00028} \quad (+0.0\sigma)$	χ_{prior}^2	$7.5 \quad (\nu: 5.9) \quad (+0.1\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0958^{+0.0020}_{-0.0019} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.018}_{-0.017} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.5 \quad (\nu: 15.5) \quad (+1117.4\sigma)$
σ_8	$0.811^{+0.020}_{-0.018} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4494^{+0.0092}_{-0.0086} \quad (-0.0\sigma)$		
S_8	$0.835^{+0.043}_{-0.043} \quad (+0.0\sigma)$	$H(0.15)$	$72.4^{+2.0}_{-1.8} \quad (-0.1\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7501.05$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 6291.92$; $R - 1 = 0.00841$

20.28 base_yhe_CamSpecHM_TT_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02226^{+0.00065}_{-0.00063} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+27}_{-27} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0028}_{-0.0028} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.025}_{-0.024} \quad (-0.0\sigma)$	$H(0.51)$	$89.71^{+0.98}_{-0.95} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0018}_{-0.0019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.3}_{-2.3} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+32}_{-32} \quad (+0.0\sigma)$
τ	$0.056^{+0.019}_{-0.015} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.060}_{-0.058} \quad (+0.0\sigma)$	$H(0.61)$	$95.32^{+0.89}_{-0.87} \quad (-0.1\sigma)$
Y_{P}	$0.248^{+0.046}_{-0.052} \quad (-0.2\sigma)$	z_{re}	$< 9.57 \quad (+0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+35}_{-35} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.040}_{-0.033} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}}$	$2.103^{+0.086}_{-0.069} \quad (-0.0\sigma)$	$H(2.33)$	$235.9^{+1.9}_{-1.9} \quad (-0.0\sigma)$
n_{s}	$0.968^{+0.021}_{-0.022} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.035}_{-0.035} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+47}_{-47} \quad (+0.1\sigma)$
y_{cal}	$1.0007^{+0.0063}_{-0.0066} \quad (+0.1\sigma)$	D_{40}	$1223^{+42}_{-43} \quad (-0.1\sigma)$	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016} \quad (-0.0\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.8\sigma)$	D_{220}	$5715^{+100}_{-100} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.749^{+0.019}_{-0.017} \quad (-0.0\sigma)$
A_{143}^{PS}	$41^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.2\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.014} \quad (-0.0\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{1420}	$815^{+14}_{-14} \quad (+0.1\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.017}_{-0.015} \quad (-0.0\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-1.1\sigma)$	D_{2000}	$229.8^{+6.3}_{-6.4} \quad (+0.2\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.012} \quad (-0.0\sigma)$
A_{143}^{tSZ}	$< 8.87 \quad (-0.6\sigma)$	$n_{\mathrm{s},0.002}$	$0.968^{+0.021}_{-0.022} \quad (-0.0\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.016}_{-0.015} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.32}_{-0.31}$	Y_{P}	$0.248^{+0.046}_{-0.052} \quad (-0.2\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.012}_{-0.012} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.249^{+0.046}_{-0.052} \quad (-0.2\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.014} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Age/Gyr	$13.80^{+0.11}_{-0.11} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2982^{+0.0083}_{-0.0074} \quad (-0.0\sigma)$
A^{kSZ}	—	z_*	$1090.1^{+1.7}_{-1.7} \quad (-0.2\sigma)$	$\sigma_8(2.33)$	$0.3075^{+0.0089}_{-0.0079} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.54}_{-0.51}$	r_*	$144.74^{+0.86}_{-0.92} \quad (+0.1\sigma)$	f_{2000}^{143}	$31^{+10}_{-10} \quad (-0.3\sigma)$
A_{143}^{dust}	$0.97^{+0.47}_{-0.44}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0011} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.6^{+7.0}_{-7.0} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.25}_{-0.27}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.901^{+0.086}_{-0.090} \quad (+0.1\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+8}_{-8} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	z_{drag}	$1059.7^{+2.8}_{-2.8} \quad (-0.1\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.38 \quad (\nu: 0.3) \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0026}_{-0.0027} \quad (-3.3\sigma)$	r_{drag}	$147.5^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 1.9) \quad (+0.1\sigma)$
c_{217}	$1.0012^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	k_{D}	$0.1403^{+0.0015}_{-0.0016} \quad (+0.2\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 0.9) \quad (-0.0\sigma)$
H_0	$67.7^{+1.5}_{-1.5} \quad (-0.0\sigma)$	$100\theta_{\mathrm{D}}$	$0.1611^{+0.0019}_{-0.0020} \quad (-0.2\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$7064.1 \quad (\nu: 14.6)$
Ω_{Λ}	$0.690^{+0.018}_{-0.018} \quad (-0.0\sigma)$	z_{eq}	$3378^{+67}_{-66} \quad (-0.0\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.055 \quad (\nu: 0.0) \quad (+0.0\sigma)$
Ω_{m}	$0.310^{+0.018}_{-0.018} \quad (+0.0\sigma)$	k_{eq}	$0.01031^{+0.00020}_{-0.00020} \quad (-0.0\sigma)$	χ_{MGS}^2	$1.34 \quad (\nu: 0.1) \quad (-0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0028}_{-0.0027} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.012} \quad (+0.0\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 1.2) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0019}_{-0.0018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0063}_{-0.0062} \quad (+0.0\sigma)$	χ_{prior}^2	$7.6 \quad (\nu: 6.1) \quad (+0.1\sigma)$
σ_8	$0.810^{+0.020}_{-0.019} \quad (-0.0\sigma)$	$H(0.15)$	$72.9^{+1.4}_{-1.3} \quad (-0.0\sigma)$	χ_{CMB}^2	$7493.6 \quad (\nu: 15.3) \quad (+1124.0\sigma)$
S_8	$0.824^{+0.032}_{-0.031} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+13}_{-13} \quad (+0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.8) \quad (-0.0\sigma)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017} \quad (-0.0\sigma)$	$H(0.38)$	$83.0^{+1.1}_{-1.1} \quad (-0.0\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 7507.34$; $\Delta \bar{\chi}_{\mathrm{eff}}^2 = 6291.96$; $R - 1 = 0.01969$

20.29 base_yhe_CamSpecHM_TTTEEE_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02231	$0.02230^{+0.00058}_{-0.00055}$ (+0.0 σ)	σ_8	0.8081	$0.808^{+0.022}_{-0.022}$ (−0.3 σ)	$100\theta_{s,eq}$	0.4507	$0.4504^{+0.0083}_{-0.0078}$ (+0.5 σ)
$\Omega_c h^2$	0.11944	$0.1196^{+0.0036}_{-0.0037}$ (−0.5 σ)	S_8	0.8248	$0.826^{+0.042}_{-0.043}$ (−0.5 σ)	$H(0.15)$	72.79	$72.7^{+1.8}_{-1.7}$ (+0.4 σ)
$100\theta_{MC}$	1.04093	$1.0409^{+0.0019}_{-0.0018}$ (+0.4 σ)	$\sigma_8 \Omega_m^{0.5}$	0.4517	$0.452^{+0.023}_{-0.024}$ (−0.5 σ)	$D_M(0.15)$	642.2	643^{+17}_{-17} (−0.4 σ)
τ	0.0532	$0.053^{+0.023}_{-0.021}$ (−0.1 σ)	$\sigma_8 \Omega_m^{0.25}$	0.6042	$0.605^{+0.022}_{-0.022}$ (−0.5 σ)	$H(0.38)$	82.92	$82.9^{+1.4}_{-1.3}$ (+0.4 σ)
Y_P	0.2463	$0.246^{+0.045}_{-0.047}$ (+0.5 σ)	$\sigma_8/h^{0.5}$	0.9835	$0.984^{+0.031}_{-0.032}$ (−0.4 σ)	$D_M(0.38)$	1531.3	1532^{+34}_{-35} (−0.4 σ)
$\ln(10^{10} A_s)$	3.0389	$3.039^{+0.048}_{-0.045}$ (−0.2 σ)	$r_{drag} h$	99.43	$99.3^{+3.2}_{-3.1}$ (+0.5 σ)	$H(0.51)$	89.65	$89.6^{+1.2}_{-1.1}$ (+0.4 σ)
n_s	0.9671	$0.966^{+0.023}_{-0.021}$ (+0.6 σ)	$\langle d^2 \rangle^{1/2}$	2.430	$2.433^{+0.079}_{-0.084}$ (−0.7 σ)	$D_M(0.51)$	1983.5	1985^{+40}_{-42} (−0.4 σ)
y_{cal}	1.0002	$1.0004^{+0.0065}_{-0.0063}$ (−0.0 σ)	z_{re}	7.57	$7.5^{+2.2}_{-2.3}$ (−0.1 σ)	$H(0.61)$	95.28	$95.3^{+1.0}_{-0.94}$ (+0.3 σ)
A_{100}^{PS}	232	240^{+60}_{-70} (−0.6 σ)	$10^9 A_s$	2.088	$2.09^{+0.10}_{-0.092}$ (−0.2 σ)	$D_M(0.61)$	2307.9	2309^{+43}_{-45} (−0.4 σ)
A_{143}^{PS}	41	40^{+20}_{-20} (−0.6 σ)	$10^9 A_s e^{-2\tau}$	1.8777	$1.879^{+0.037}_{-0.034}$ (−0.2 σ)	$H(2.33)$	236.14	$236.2^{+2.1}_{-2.1}$ (−0.5 σ)
A_{217}^{PS}	102.7	102^{+30}_{-40} (−1.3 σ)	D_{40}	1223.0	1226^{+44}_{-44} (−0.7 σ)	$D_M(2.33)$	5764.8	5766^{+48}_{-51} (−0.3 σ)
A_{217}^{CIB}	44.1	40^{+20}_{-20} (−1.0 σ)	D_{220}	5714	5718^{+99}_{-99} (−0.4 σ)	$f\sigma_8(0.15)$	0.4562	$0.457^{+0.021}_{-0.022}$ (−0.5 σ)
A_{143}^{tSZ}	6.67	< 8.77 (−0.9 σ)	D_{810}	2534.5	2535^{+36}_{-34} (−0.3 σ)	$\sigma_8(0.15)$	0.7466	$0.747^{+0.020}_{-0.020}$ (−0.2 σ)
$r_{143 \times 217}^{PS}$	0.625	$0.66^{+0.31}_{-0.33}$	D_{1420}	815.7	816^{+13}_{-13} (−0.4 σ)	$f\sigma_8(0.38)$	0.4743	$0.475^{+0.018}_{-0.018}$ (−0.5 σ)
$r_{143 \times 217}^{CIB}$	0.80	—	D_{2000}	230.2	$230.1^{+5.8}_{-5.9}$ (−0.6 σ)	$\sigma_8(0.38)$	0.6617	$0.662^{+0.018}_{-0.018}$ (−0.2 σ)
$\xi^{tSZ \times CIB}$	0.21	—	$n_{s,0.002}$	0.9671	$0.966^{+0.023}_{-0.021}$ (+0.6 σ)	$f\sigma_8(0.51)$	0.4728	$0.473^{+0.016}_{-0.016}$ (−0.5 σ)
A^{kSZ}	0.0	—	Y_P	0.2463	$0.246^{+0.045}_{-0.047}$ (+0.5 σ)	$\sigma_8(0.51)$	0.6192	$0.619^{+0.017}_{-0.017}$ (−0.1 σ)
A_{100}^{dust}	1.01	$1.01^{+0.51}_{-0.51}$	Y_P^{BBN}	0.2477	$0.247^{+0.045}_{-0.047}$ (+0.5 σ)	$f\sigma_8(0.61)$	0.4677	$0.468^{+0.015}_{-0.015}$ (−0.4 σ)
A_{143}^{dust}	0.979	$0.96^{+0.46}_{-0.45}$	Age/Gyr	13.801	$13.80^{+0.11}_{-0.12}$ (−0.3 σ)	$\sigma_8(0.61)$	0.5891	$0.589^{+0.016}_{-0.016}$ (−0.1 σ)
A_{217}^{dust}	0.973	$0.97^{+0.27}_{-0.27}$	z_*	1089.98	$1090.0^{+1.5}_{-1.4}$ (+0.5 σ)	$f\sigma_8(2.33)$	0.2970	$0.2969^{+0.0086}_{-0.0082}$ (−0.1 σ)
$A_{143 \times 217}^{dust}$	1.008	$1.03^{+0.41}_{-0.41}$	r_*	144.62	$144.59^{+0.84}_{-0.83}$ (+0.5 σ)	$\sigma_8(2.33)$	0.3062	$0.3060^{+0.0094}_{-0.0088}$ (+0.0 σ)
c_{100}	0.99764	$0.9975^{+0.0027}_{-0.0027}$ (−3.5 σ)	$100\theta_*$	1.04109	$1.04107^{+0.00090}_{-0.00092}$ (+0.1 σ)	f_{2000}^{143}	30.0	30^{+10}_{-10} (+0.3 σ)
c_{217}	1.00130	$1.0012^{+0.0042}_{-0.0040}$ (+4.7 σ)	$D_M(z_*)/\text{Gpc}$	13.891	$13.889^{+0.080}_{-0.079}$ (+0.4 σ)	f_{2000}^{217}	106.8	$107.0^{+6.6}_{-6.7}$ (+0.2 σ)
c_{TE}	0.9968	$0.997^{+0.014}_{-0.014}$	z_{drag}	1059.78	$1059.8^{+2.6}_{-2.5}$ (+0.2 σ)	$f_{2000}^{143 \times 217}$	32.2	32^{+7}_{-7} (+0.3 σ)
c_{EE}	0.9923	$0.992^{+0.017}_{-0.017}$	r_{drag}	147.30	$147.28^{+0.88}_{-0.86}$ (+0.4 σ)	χ_{small}^2	395.88	$396.9 (\nu: 1.5)$ (−0.1 σ)
H_0	67.50	$67.4^{+2.0}_{-1.9}$ (+0.5 σ)	k_D	0.14056	$0.1406^{+0.0015}_{-0.0015}$ (−1.0 σ)	χ_{lowl}^2	22.85	$23.2 (\nu: 1.0)$ (−0.6 σ)
Ω_Λ	0.6875	$0.686^{+0.024}_{-0.025}$ (+0.5 σ)	$100\theta_D$	0.16090	$0.1609^{+0.0018}_{-0.0017}$ (+0.7 σ)	$\chi_{CamSpec}^2$	11499.8	$11515.4 (\nu: 17.0)$
Ω_m	0.3125	$0.314^{+0.025}_{-0.024}$ (−0.5 σ)	z_{eq}	3388	3391^{+81}_{-81} (−0.5 σ)	χ_{prior}^2	2.2	$7.9 (\nu: 6.0)$ (−0.8 σ)
$\Omega_m h^2$	0.14240	$0.1425^{+0.0034}_{-0.0034}$ (−0.5 σ)	k_{eq}	0.010339	$0.01035^{+0.00025}_{-0.00025}$ (−0.5 σ)	χ_{CMB}^2	11918.5	$11935.5 (\nu: 17.2)$ (+1529.6 σ)
$\Omega_m h^3$	0.09612	$0.0961^{+0.0016}_{-0.0015}$ (+0.0 σ)	$100\theta_{eq}$	0.8158	$0.815^{+0.016}_{-0.015}$ (+0.5 σ)			

Best-fit $\chi_{eff}^2 = 11920.73$; $\Delta\chi_{eff}^2 = 9155.47$; $\bar{\chi}_{eff}^2 = 11943.34$; $\Delta\bar{\chi}_{eff}^2 = 9150.78$; $R - 1 = 0.01242$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 (Δ -0.18) commander_dx12.v3.2.29: 22.85 (Δ -1.09) CamSpec like_10.7HM_1400.unified: 11499.82

20.30 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_b h^2$	$0.02237^{+0.00048}_{-0.00048} \quad (-0.1\sigma)$	S_8	$0.819^{+0.034}_{-0.035} \quad (-0.4\sigma)$	$D_M(0.15)$	$640^{+12}_{-12} \quad (-0.3\sigma)$
$\Omega_c h^2$	$0.1189^{+0.0026}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_m^{0.5}$	$0.449^{+0.018}_{-0.019} \quad (-0.4\sigma)$	$H(0.38)$	$83.1^{+1.0}_{-0.95} \quad (+0.3\sigma)$
$100\theta_{MC}$	$1.0411^{+0.0017}_{-0.0016} \quad (+0.4\sigma)$	$\sigma_8 \Omega_m^{0.25}$	$0.602^{+0.019}_{-0.020} \quad (-0.3\sigma)$	$D_M(0.38)$	$1526^{+24}_{-25} \quad (-0.3\sigma)$
τ	$0.054^{+0.023}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.029}_{-0.029} \quad (-0.3\sigma)$	$H(0.51)$	$89.81^{+0.87}_{-0.83} \quad (+0.3\sigma)$
Y_P	$0.250^{+0.041}_{-0.045} \quad (+0.6\sigma)$	$r_{drag} h$	$99.9^{+2.2}_{-2.1} \quad (+0.4\sigma)$	$D_M(0.51)$	$1977^{+29}_{-30} \quad (-0.3\sigma)$
$\ln(10^{10} A_s)$	$3.040^{+0.049}_{-0.047} \quad (-0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.421^{+0.069}_{-0.070} \quad (-0.6\sigma)$	$H(0.61)$	$95.41^{+0.78}_{-0.74} \quad (+0.2\sigma)$
n_s	$0.969^{+0.020}_{-0.018} \quad (+0.5\sigma)$	z_{re}	$7.6^{+2.2}_{-2.4} \quad (-0.2\sigma)$	$D_M(0.61)$	$2301^{+31}_{-33} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0065} \quad (-0.1\sigma)$	$10^9 A_s$	$2.09^{+0.10}_{-0.096} \quad (-0.3\sigma)$	$H(2.33)$	$235.9^{+1.7}_{-1.7} \quad (-0.4\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.5\sigma)$	$10^9 A_s e^{-2\tau}$	$1.878^{+0.036}_{-0.033} \quad (-0.1\sigma)$	$D_M(2.33)$	$5759^{+39}_{-40} \quad (-0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.5\sigma)$	D_{40}	$1220^{+39}_{-39} \quad (-0.6\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.018}_{-0.018} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5721^{+98}_{-98} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.021}_{-0.021} \quad (-0.2\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2535^{+36}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.016} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.75 \quad (-0.9\sigma)$	D_{1420}	$815^{+13}_{-14} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.018}_{-0.019} \quad (-0.1\sigma)$
$r_{143 \times 217}^{PS}$	$0.65^{+0.31}_{-0.33}$	D_{2000}	$229.9^{+5.8}_{-6.1} \quad (-0.8\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.015} \quad (-0.3\sigma)$
$r_{143 \times 217}^{CIB}$	—	$n_{s,0.002}$	$0.969^{+0.020}_{-0.018} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.017}_{-0.017} \quad (-0.1\sigma)$
$\xi^{tSZ \times CIB}$	—	Y_P	$0.250^{+0.041}_{-0.045} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A^{kSZ}	—	Y_P^{BBN}	$0.251^{+0.042}_{-0.045} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.016}_{-0.016} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.52}$	Age/Gyr	$13.787^{+0.089}_{-0.092} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0085}_{-0.0083} \quad (-0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.47}_{-0.46}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0090}_{-0.0086} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.69^{+0.77}_{-0.74} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+9}_{-10} \quad (+0.4\sigma)$
$A_{143 \times 217}^{dust}$	$1.03^{+0.40}_{-0.43}$	$100\theta_*$	$1.04118^{+0.00081}_{-0.00081} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+6.4}_{-6.7} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_M(z_*)/\text{Gpc}$	$13.897^{+0.074}_{-0.072} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+7}_{-8} \quad (+0.4\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0039} \quad (+4.8\sigma)$	z_{drag}	$1060.0^{+2.3}_{-2.3} \quad (+0.2\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.014}$	r_{drag}	$147.36^{+0.82}_{-0.80} \quad (+0.3\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.7) \quad (-0.6\sigma)$
c_{EE}	$0.994^{+0.017}_{-0.016}$	k_D	$0.1404^{+0.0013}_{-0.0013} \quad (-1.1\sigma)$	$\chi_{CamSpec}^2$	$11515.5 \quad (\nu: 16.4)$
H_0	$67.8^{+1.4}_{-1.4} \quad (+0.3\sigma)$	$100\theta_D$	$0.1610^{+0.0017}_{-0.0017} \quad (+0.9\sigma)$	χ_{6DF}^2	$0.044 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_Λ	$0.691^{+0.017}_{-0.017} \quad (+0.4\sigma)$	z_{eq}	$3377^{+61}_{-61} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.42 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_m	$0.309^{+0.017}_{-0.017} \quad (-0.4\sigma)$	k_{eq}	$0.01031^{+0.00019}_{-0.00019} \quad (-0.4\sigma)$	$\chi_{DR12BAO}^2$	$4.5 \quad (\nu: 0.8) \quad (-0.3\sigma)$
$\Omega_m h^2$	$0.1419^{+0.0026}_{-0.0025} \quad (-0.4\sigma)$	$100\theta_{eq}$	$0.818^{+0.012}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_m h^3$	$0.0962^{+0.0014}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{s,eq}$	$0.4519^{+0.0060}_{-0.0058} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.2\sigma)$
σ_8	$0.807^{+0.023}_{-0.023} \quad (-0.2\sigma)$	$H(0.15)$	$73.1^{+1.3}_{-1.2} \quad (+0.3\sigma)$	χ_{CMB}^2	$11935.2 \quad (\nu: 16.5) \quad (+1537.4\sigma)$

$$\bar{\chi}_{eff}^2 = 11949.00; \Delta\bar{\chi}_{eff}^2 = 9150.09; R - 1 = 0.01838$$

20.31 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02228^{+0.00054}_{-0.00052} \quad (-0.1\sigma)$	σ_8	$0.809^{+0.019}_{-0.018} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4501^{+0.0072}_{-0.0072} \quad (+0.3\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1197^{+0.0033}_{-0.0033} \quad (-0.3\sigma)$	S_8	$0.828^{+0.034}_{-0.034} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.6}_{-1.5} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0018}_{-0.0017} \quad (+0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+15}_{-16} \quad (-0.3\sigma)$
τ	$0.054^{+0.022}_{-0.020} \quad (-0.0\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.017}_{-0.017} \quad (-0.2\sigma)$	$H(0.38)$	$82.8^{+1.3}_{-1.2} \quad (+0.2\sigma)$
Y_{P}	$0.244^{+0.044}_{-0.047} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.024}_{-0.025} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+31}_{-32} \quad (-0.3\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.041} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	$99.2^{+2.8}_{-2.7} \quad (+0.3\sigma)$	$H(0.51)$	$89.6^{+1.1}_{-1.0} \quad (+0.2\sigma)$
n_{s}	$0.965^{+0.022}_{-0.020} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.062}_{-0.065} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1987^{+37}_{-38} \quad (-0.2\sigma)$
y_{cal}	$1.0006^{+0.0064}_{-0.0063} \quad (+0.0\sigma)$	z_{re}	$7.6^{+2.1}_{-2.1} \quad (+0.0\sigma)$	$H(0.61)$	$95.21^{+0.95}_{-0.87} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.088}_{-0.084} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+40}_{-41} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.879^{+0.036}_{-0.030} \quad (-0.1\sigma)$	$H(2.33)$	$236.3^{+1.9}_{-1.9} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1229^{+41}_{-43} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5768^{+46}_{-47} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5721^{+99}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.70 \quad (-0.8\sigma)$	D_{810}	$2535^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.018}_{-0.017} \quad (-0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+13}_{-13} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.4^{+5.7}_{-6.0} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.016}_{-0.016} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.022}_{-0.020} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_{P}	$0.244^{+0.044}_{-0.047} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.016}_{-0.015} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.044}_{-0.047} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.012} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.45}$	Age/Gyr	$13.81^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.015}_{-0.015} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2970^{+0.0081}_{-0.0078} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	r_*	$144.58^{+0.75}_{-0.76} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3061^{+0.0091}_{-0.0085} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04104^{+0.00087}_{-0.00091} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0040} \quad (+4.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.073}_{-0.073} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.8^{+6.6}_{-6.6} \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.014}$	z_{drag}	$1059.7^{+2.5}_{-2.4} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.017}_{-0.017}$	r_{drag}	$147.27^{+0.82}_{-0.81} \quad (+0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.29 \quad (\nu: 0.3) \quad (+0.2\sigma)$
H_0	$67.4^{+1.8}_{-1.7} \quad (+0.3\sigma)$	k_{D}	$0.1407^{+0.0014}_{-0.0015} \quad (-0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.685^{+0.021}_{-0.022} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0017}_{-0.0017} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 1.0) \quad (-0.5\sigma)$
Ω_{m}	$0.315^{+0.022}_{-0.021} \quad (-0.3\sigma)$	z_{eq}	$3393^{+73}_{-72} \quad (-0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 15.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0031}_{-0.0030} \quad (-0.3\sigma)$	k_{eq}	$0.01036^{+0.00022}_{-0.00022} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.0961^{+0.0016}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.014} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.3 \quad (\nu: 17.1) \quad (+1522.9\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.12; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.78; R - 1 = 0.01489$$

20.32 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02236^{+0.00048}_{-0.00047} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+23}_{-24} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0024}_{-0.0025} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.015}_{-0.016} \quad (-0.2\sigma)$	$H(0.51)$	$89.76^{+0.88}_{-0.82} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0017}_{-0.0016} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.023}_{-0.023} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+28}_{-29} \quad (-0.2\sigma)$
τ	$0.055^{+0.021}_{-0.019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$H(0.61)$	$95.37^{+0.79}_{-0.73} \quad (+0.1\sigma)$
Y_{P}	$0.248^{+0.042}_{-0.044} \quad (+0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.430^{+0.055}_{-0.057} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+30}_{-32} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.039}_{-0.040} \quad (-0.1\sigma)$	z_{re}	$7.8^{+2.0}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	$236.0^{+1.6}_{-1.6} \quad (-0.3\sigma)$
n_{s}	$0.968^{+0.020}_{-0.018} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.083}_{-0.083} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5760^{+38}_{-40} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0065}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.035}_{-0.030} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1224^{+38}_{-40} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.018}_{-0.017} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5725^{+96}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.013} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+36}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.016} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012} \quad (-0.1\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.9\sigma)$	D_{2000}	$230.2^{+5.8}_{-6.0} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.015} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.020}_{-0.018} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.248^{+0.042}_{-0.044} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.015}_{-0.014} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.250^{+0.042}_{-0.044} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0078}_{-0.0074} \quad (+0.0\sigma)$
A^{kSZ}	—	Age/Gyr	$13.791^{+0.088}_{-0.092} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0083}_{-0.0080} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.52}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+9}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.48}_{-0.45}$	r_*	$144.67^{+0.69}_{-0.70} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.1^{+6.4}_{-6.6} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.04115^{+0.00080}_{-0.00080} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.895^{+0.068}_{-0.069} \quad (+0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.33 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.4\sigma)$	z_{drag}	$1059.9^{+2.2}_{-2.3} \quad (+0.2\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	$147.34^{+0.78}_{-0.77} \quad (+0.2\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 0.7) \quad (-0.5\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	k_{D}	$0.1405^{+0.0013}_{-0.0013} \quad (-1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.8 \quad (\nu: 15.8)$
c_{EE}	$0.993^{+0.016}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0016} \quad (+0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.4}_{-1.3} \quad (+0.2\sigma)$	z_{eq}	$3380^{+56}_{-57} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.34 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.016}_{-0.016} \quad (+0.3\sigma)$	k_{eq}	$0.01032^{+0.00017}_{-0.00017} \quad (-0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.9) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0023}_{-0.0024} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0055}_{-0.0053} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.2 \quad (\nu: 16.6) \quad (+1528.7\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0014}_{-0.0014} \quad (-0.0\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.1} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.2\sigma)$
σ_8	$0.809^{+0.019}_{-0.018} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+11}_{-12} \quad (-0.2\sigma)$		
S_8	$0.822^{+0.028}_{-0.028} \quad (-0.2\sigma)$	$H(0.38)$	$83.1^{+1.0}_{-0.92} \quad (+0.2\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.04; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.40; R - 1 = 0.02077$$

20.33 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02255^{+0.00053}_{-0.00053} \quad (+0.2\sigma)$	σ_8	$0.807^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4545^{+0.0067}_{-0.0077} \quad (+0.7\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1178^{+0.0035}_{-0.0030} \quad (-0.6\sigma)$	S_8	$0.807^{+0.041}_{-0.036} \quad (-0.7\sigma)$	$H(0.15)$	$73.7^{+1.4}_{-1.6} \quad (+0.8\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0416^{+0.0015}_{-0.0018} \quad (+0.9\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.023}_{-0.020} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.15)$	$633^{+16}_{-13} \quad (-0.8\sigma)$
τ	$0.056^{+0.021}_{-0.023} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.597^{+0.022}_{-0.020} \quad (-0.6\sigma)$	$H(0.38)$	$83.6^{+1.1}_{-1.2} \quad (+0.8\sigma)$
Y_{P}	$0.261^{+0.037}_{-0.043} \quad (+1.1\sigma)$	$\sigma_8/h^{0.5}$	$0.975^{+0.031}_{-0.030} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1513^{+32}_{-28} \quad (-0.8\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.047}_{-0.048} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$101.1^{+2.6}_{-2.9} \quad (+0.8\sigma)$	$H(0.51)$	$90.24^{+0.91}_{-1.1} \quad (+0.7\sigma)$
n_{s}	$0.976^{+0.019}_{-0.021} \quad (+1.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.398^{+0.080}_{-0.076} \quad (-1.0\sigma)$	$D_{\mathrm{M}}(0.51)$	$1962^{+38}_{-33} \quad (-0.8\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	$7.8^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	$95.78^{+0.83}_{-0.92} \quad (+0.7\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.5\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.099} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2285^{+41}_{-36} \quad (-0.8\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-0.3\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.034}_{-0.032} \quad (+0.0\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-1.9} \quad (-0.6\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1208^{+43}_{-37} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(2.33)$	$5741^{+46}_{-43} \quad (-0.7\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5727^{+92}_{-99} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.447^{+0.021}_{-0.019} \quad (-0.7\sigma)$
A_{143}^{tSZ}	$< 9.07 \quad (-0.9\sigma)$	D_{810}	$2537^{+33}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.020}_{-0.021} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.29}_{-0.31}$	D_{1420}	$815^{+13}_{-13} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	$0.468^{+0.018}_{-0.016} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$229.3^{+6.6}_{-5.9} \quad (-1.1\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.017}_{-0.019} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.976^{+0.019}_{-0.021} \quad (+1.0\sigma)$	$f\sigma_8(0.51)$	$0.468^{+0.016}_{-0.015} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_{P}	$0.261^{+0.037}_{-0.043} \quad (+1.1\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.017}_{-0.018} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.46}_{-0.53}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.262^{+0.038}_{-0.043} \quad (+1.1\sigma)$	$f\sigma_8(0.61)$	$0.464^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.97^{+0.42}_{-0.47}$	Age/Gyr	$13.75^{+0.11}_{-0.098} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.016}_{-0.018} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	z_*	$1090.1^{+1.5}_{-1.5} \quad (+1.0\sigma)$	$f\sigma_8(2.33)$	$0.2986^{+0.0082}_{-0.0088} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.04^{+0.38}_{-0.40}$	r_*	$144.82^{+0.76}_{-0.82} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3084^{+0.0080}_{-0.0093} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.6\sigma)$	$100\theta_*$	$1.04140^{+0.00080}_{-0.00088} \quad (+0.3\sigma)$	f_{2000}^{143}	$31^{+9}_{-10} \quad (+0.7\sigma)$
c_{217}	$1.0013^{+0.0042}_{-0.0043} \quad (+5.1\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.075}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	$108.1^{+6.7}_{-7.3} \quad (+0.6\sigma)$
c_{TE}	$0.999^{+0.014}_{-0.014}$	z_{drag}	$1060.7^{+2.2}_{-2.3} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-7} \quad (+0.7\sigma)$
c_{EE}	$0.996^{+0.015}_{-0.017}$	r_{drag}	$147.44^{+0.83}_{-0.83} \quad (+0.4\sigma)$	χ_{small}^2	$397.2 \quad (\nu: 2.0) \quad (-0.2\sigma)$
H_0	$68.5^{+1.6}_{-1.8} \quad (+0.8\sigma)$	k_{D}	$0.1400^{+0.0014}_{-0.0012} \quad (-1.6\sigma)$	χ_{lowl}^2	$21.8 \quad (\nu: 0.6) \quad (-0.9\sigma)$
Ω_{Λ}	$0.700^{+0.018}_{-0.023} \quad (+0.7\sigma)$	$100\theta_{\mathrm{D}}$	$0.1614^{+0.0017}_{-0.0018} \quad (+1.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11518.2 \quad (\nu: 20.7)$
Ω_{m}	$0.300^{+0.023}_{-0.018} \quad (-0.7\sigma)$	z_{eq}	$3353^{+76}_{-71} \quad (-0.6\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$8.9 \quad (\nu: 3.3) \quad (-0.7\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0032}_{-0.0030} \quad (-0.6\sigma)$	k_{eq}	$0.01023^{+0.00023}_{-0.00022} \quad (-0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0966^{+0.0014}_{-0.0015} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.013}_{-0.015} \quad (+0.7\sigma)$	χ_{CMB}^2	$11937.2 \quad (\nu: 19.4) \quad (+1424.5\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11954.03; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.08; R - 1 = 0.04865$$

20.34 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02231^{+0.00058}_{-0.00054} \quad (+0.1\sigma)$	σ_8	$0.809^{+0.021}_{-0.018} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0082}_{-0.0077} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1195^{+0.0035}_{-0.0037} \quad (-0.5\sigma)$	S_8	$0.827^{+0.042}_{-0.043} \quad (-0.5\sigma)$	$H(0.15)$	$72.8^{+1.8}_{-1.6} \quad (+0.5\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0409^{+0.0019}_{-0.0018} \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$642^{+17}_{-17} \quad (-0.5\sigma)$
τ	$0.054^{+0.020}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	$82.9^{+1.4}_{-1.3} \quad (+0.4\sigma)$
Y_{P}	$0.246^{+0.045}_{-0.046} \quad (+0.5\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.029} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1532^{+34}_{-36} \quad (-0.4\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.045}_{-0.032} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.4^{+3.2}_{-3.0} \quad (+0.5\sigma)$	$H(0.51)$	$89.6^{+1.2}_{-1.1} \quad (+0.4\sigma)$
n_{s}	$0.967^{+0.023}_{-0.021} \quad (+0.6\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.435^{+0.078}_{-0.081} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.51)$	$1984^{+40}_{-42} \quad (-0.4\sigma)$
y_{cal}	$1.0004^{+0.0065}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	$< 9.54 \quad (-0.1\sigma)$	$H(0.61)$	$95.3^{+1.0}_{-0.94} \quad (+0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.094^{+0.097}_{-0.065} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2309^{+43}_{-46} \quad (-0.4\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.036}_{-0.033} \quad (-0.3\sigma)$	$H(2.33)$	$236.2^{+2.1}_{-2.1} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{40}	$1225^{+44}_{-44} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(2.33)$	$5765^{+48}_{-51} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5717^{+99}_{-99} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.021}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.9\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.019}_{-0.016} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.1^{+5.8}_{-6.0} \quad (-0.6\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.017}_{-0.014} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.967^{+0.023}_{-0.021} \quad (+0.6\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.015}_{-0.015} \quad (-0.4\sigma)$
A^{kSZ}	—	Y_{P}	$0.246^{+0.045}_{-0.046} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.016}_{-0.013} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.51}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.248^{+0.045}_{-0.046} \quad (+0.5\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.014}_{-0.013} \quad (-0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.45}$	Age/Gyr	$13.80^{+0.11}_{-0.12} \quad (-0.3\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.016}_{-0.013} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.27}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0083}_{-0.0066} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.41}$	r_*	$144.59^{+0.84}_{-0.82} \quad (+0.5\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0090}_{-0.0072} \quad (+0.0\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.6\sigma)$	$100\theta_*$	$1.04108^{+0.00090}_{-0.00092} \quad (+0.1\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.3\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.079}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	$107.0^{+6.6}_{-6.7} \quad (+0.2\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.014}$	z_{drag}	$1059.8^{+2.5}_{-2.5} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (+0.3\sigma)$
c_{EE}	$0.992^{+0.018}_{-0.017}$	r_{drag}	$147.28^{+0.88}_{-0.86} \quad (+0.4\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.5) \quad (-0.1\sigma)$
H_0	$67.5^{+2.0}_{-1.9} \quad (+0.5\sigma)$	k_{D}	$0.1406^{+0.0015}_{-0.0015} \quad (-1.0\sigma)$	χ_{lowl}^2	$23.2 \quad (\nu: 1.0) \quad (-0.6\sigma)$
Ω_{Λ}	$0.687^{+0.024}_{-0.024} \quad (+0.5\sigma)$	$100\theta_{\mathrm{D}}$	$0.1609^{+0.0018}_{-0.0017} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.2 \quad (\nu: 16.9)$
Ω_{m}	$0.313^{+0.024}_{-0.024} \quad (-0.5\sigma)$	z_{eq}	$3390^{+79}_{-81} \quad (-0.5\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0033}_{-0.0034} \quad (-0.5\sigma)$	k_{eq}	$0.01035^{+0.00024}_{-0.00025} \quad (-0.5\sigma)$	χ_{CMB}^2	$11935.1 \quad (\nu: 16.8) \quad (+1545.6\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0016}_{-0.0015} \quad (+0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.016}_{-0.015} \quad (+0.5\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11943.03; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.71; R - 1 = 0.01121$$

20.35 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02237^{+0.00049}_{-0.00048} \quad (-0.1\sigma)$	S_8	$0.820^{+0.033}_{-0.033} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+12}_{-12} \quad (-0.3\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0026}_{-0.0027} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.4\sigma)$	$H(0.38)$	$83.1^{+1.0}_{-0.95} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0017}_{-0.0016} \quad (+0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1526^{+24}_{-25} \quad (-0.3\sigma)$
τ	$0.055^{+0.020}_{-0.014} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.027}_{-0.025} \quad (-0.3\sigma)$	$H(0.51)$	$89.82^{+0.87}_{-0.81} \quad (+0.3\sigma)$
Y_{P}	$0.250^{+0.041}_{-0.043} \quad (+0.6\sigma)$	$r_{\mathrm{drag}} h$	$99.9^{+2.2}_{-2.1} \quad (+0.4\sigma)$	$D_{\mathrm{M}}(0.51)$	$1977^{+29}_{-30} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.047}_{-0.032} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.066}_{-0.065} \quad (-0.6\sigma)$	$H(0.61)$	$95.42^{+0.78}_{-0.73} \quad (+0.2\sigma)$
n_{s}	$0.969^{+0.020}_{-0.018} \quad (+0.5\sigma)$	z_{re}	$< 9.62 \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2301^{+31}_{-33} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0064}_{-0.0064} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.10^{+0.10}_{-0.067} \quad (-0.2\sigma)$	$H(2.33)$	$235.9^{+1.7}_{-1.7} \quad (-0.4\sigma)$
A_{100}^{PS}	$242^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.035}_{-0.033} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5758^{+38}_{-40} \quad (-0.2\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.5\sigma)$	D_{40}	$1220^{+39}_{-39} \quad (-0.6\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.017}_{-0.017} \quad (-0.4\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{220}	$5720^{+97}_{-97} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.020}_{-0.016} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-0.9\sigma)$	D_{810}	$2535^{+35}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.015}_{-0.015} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.81 \quad (-0.9\sigma)$	D_{1420}	$815^{+13}_{-14} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.017}_{-0.014} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{2000}	$229.9^{+5.8}_{-6.2} \quad (-0.8\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.014}_{-0.013} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.969^{+0.020}_{-0.018} \quad (+0.5\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.016}_{-0.013} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.250^{+0.041}_{-0.043} \quad (+0.6\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.013}_{-0.012} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.251^{+0.041}_{-0.044} \quad (+0.6\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.016}_{-0.013} \quad (-0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.52}$	Age/Gyr	$13.786^{+0.089}_{-0.092} \quad (-0.2\sigma)$	$f\sigma_8(2.33)$	$0.2978^{+0.0081}_{-0.0066} \quad (-0.0\sigma)$
A_{143}^{dust}	$0.97^{+0.47}_{-0.45}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3071^{+0.0086}_{-0.0069} \quad (-0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.26}$	r_*	$144.69^{+0.76}_{-0.74} \quad (+0.3\sigma)$	f_{2000}^{143}	$30^{+9}_{-10} \quad (+0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.41}_{-0.43}$	$100\theta_*$	$1.04118^{+0.00084}_{-0.00081} \quad (+0.1\sigma)$	f_{2000}^{217}	$107.3^{+6.3}_{-6.6} \quad (+0.3\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.897^{+0.074}_{-0.072} \quad (+0.3\sigma)$	$f_{2000}^{143 \times 217}$	$33^{+7}_{-7} \quad (+0.4\sigma)$
c_{217}	$1.0012^{+0.0041}_{-0.0040} \quad (+4.9\sigma)$	z_{drag}	$1060.0^{+2.3}_{-2.3} \quad (+0.2\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.7) \quad (-0.2\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.014}$	r_{drag}	$147.36^{+0.82}_{-0.80} \quad (+0.3\sigma)$	χ_{lowl}^2	$22.7 \quad (\nu: 0.7) \quad (-0.6\sigma)$
c_{EE}	$0.994^{+0.017}_{-0.016}$	k_{D}	$0.1404^{+0.0013}_{-0.0013} \quad (-1.1\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11515.3 \quad (\nu: 16.2)$
H_0	$67.8^{+1.4}_{-1.4} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0017} \quad (+0.9\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.043 \quad (\nu: 0.0) \quad (-0.2\sigma)$
Ω_{Λ}	$0.691^{+0.017}_{-0.017} \quad (+0.4\sigma)$	z_{eq}	$3376^{+61}_{-61} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.43 \quad (\nu: 0.1) \quad (+0.4\sigma)$
Ω_{m}	$0.309^{+0.017}_{-0.017} \quad (-0.4\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00019} \quad (-0.4\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.5 \quad (\nu: 0.8) \quad (-0.3\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0025}_{-0.0026} \quad (-0.4\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.9) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0015}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0060}_{-0.0058} \quad (+0.4\sigma)$	χ_{BAO}^2	$5.95 \quad (\nu: 0.5) \quad (-0.2\sigma)$
σ_8	$0.808^{+0.022}_{-0.018} \quad (-0.2\sigma)$	$H(0.15)$	$73.1^{+1.3}_{-1.2} \quad (+0.3\sigma)$	χ_{CMB}^2	$11934.9 \quad (\nu: 16.0) \quad (+1557.6\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11948.72; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.05; R - 1 = 0.01724$$

20.36 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02229^{+0.00054}_{-0.00052} \quad (-0.1\sigma)$	σ_8	$0.810^{+0.018}_{-0.016} \quad (-0.1\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0072}_{-0.0068} \quad (+0.4\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0031}_{-0.0032} \quad (-0.3\sigma)$	S_8	$0.828^{+0.034}_{-0.034} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.6}_{-1.5} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0018}_{-0.0017} \quad (+0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.019}_{-0.018} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+14}_{-15} \quad (-0.3\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.017} \quad (-0.3\sigma)$	$H(0.38)$	$82.9^{+1.3}_{-1.1} \quad (+0.2\sigma)$
Y_{P}	$0.244^{+0.044}_{-0.046} \quad (+0.4\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.023} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1533^{+30}_{-31} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.039}_{-0.030} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.3^{+2.8}_{-2.6} \quad (+0.3\sigma)$	$H(0.51)$	$89.6^{+1.1}_{-0.98} \quad (+0.2\sigma)$
n_{s}	$0.965^{+0.022}_{-0.019} \quad (+0.4\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.440^{+0.062}_{-0.064} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+35}_{-37} \quad (-0.3\sigma)$
y_{cal}	$1.0005^{+0.0063}_{-0.0062} \quad (+0.0\sigma)$	z_{re}	$< 9.51 \quad (+0.0\sigma)$	$H(0.61)$	$95.23^{+0.93}_{-0.87} \quad (+0.2\sigma)$
A_{100}^{PS}	$240^{+60}_{-70} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.096^{+0.084}_{-0.063} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2310^{+38}_{-41} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.7\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.034}_{-0.030} \quad (-0.1\sigma)$	$H(2.33)$	$236.2^{+1.9}_{-1.9} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{40}	$1228^{+41}_{-43} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5767^{+46}_{-47} \quad (-0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5721^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.017}_{-0.017} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.73 \quad (-0.9\sigma)$	D_{810}	$2535^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.015} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+13}_{-13} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.014} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.4^{+5.7}_{-6.0} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.013} \quad (-0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.022}_{-0.019} \quad (+0.4\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A^{kSZ}	—	Y_{P}	$0.244^{+0.044}_{-0.046} \quad (+0.4\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.013} \quad (+0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.50}_{-0.51}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.246^{+0.044}_{-0.046} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.47}_{-0.45}$	Age/Gyr	$13.81^{+0.11}_{-0.11} \quad (-0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.015}_{-0.012} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.98^{+0.27}_{-0.27}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2974^{+0.0079}_{-0.0065} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.42}$	r_*	$144.59^{+0.75}_{-0.75} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0087}_{-0.0071} \quad (+0.1\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04105^{+0.00086}_{-0.00090} \quad (+0.0\sigma)$	f_{2000}^{143}	$30^{+10}_{-10} \quad (+0.3\sigma)$
c_{217}	$1.0011^{+0.0040}_{-0.0040} \quad (+4.8\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.889^{+0.072}_{-0.072} \quad (+0.3\sigma)$	f_{2000}^{217}	$106.8^{+6.6}_{-6.6} \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.014}_{-0.014}$	z_{drag}	$1059.7^{+2.4}_{-2.4} \quad (+0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (+0.2\sigma)$
c_{EE}	$0.992^{+0.017}_{-0.017}$	r_{drag}	$147.28^{+0.82}_{-0.80} \quad (+0.3\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.26 \quad (\nu: 0.2) \quad (+0.1\sigma)$
H_0	$67.4^{+1.8}_{-1.6} \quad (+0.3\sigma)$	k_{D}	$0.1406^{+0.0014}_{-0.0015} \quad (-0.8\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
Ω_{Λ}	$0.686^{+0.021}_{-0.021} \quad (+0.3\sigma)$	$100\theta_{\mathrm{D}}$	$0.1608^{+0.0018}_{-0.0017} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.4 \quad (\nu: 0.9) \quad (-0.5\sigma)$
Ω_{m}	$0.314^{+0.021}_{-0.021} \quad (-0.3\sigma)$	z_{eq}	$3392^{+70}_{-71} \quad (-0.3\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.6 \quad (\nu: 15.9)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0029}_{-0.0030} \quad (-0.3\sigma)$	k_{eq}	$0.01035^{+0.00021}_{-0.00022} \quad (-0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0961^{+0.0015}_{-0.0015} \quad (-0.0\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.1 \quad (\nu: 16.7) \quad (+1541.4\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11951.89; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.79; R - 1 = 0.01571$$

20.37 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02236^{+0.00048}_{-0.00048} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.38)$	$1527^{+23}_{-24} \quad (-0.2\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1191^{+0.0024}_{-0.0024} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.015}_{-0.015} \quad (-0.2\sigma)$	$H(0.51)$	$89.77^{+0.88}_{-0.80} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0411^{+0.0017}_{-0.0016} \quad (+0.3\sigma)$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.021} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.51)$	$1979^{+27}_{-29} \quad (-0.2\sigma)$
τ	$0.056^{+0.019}_{-0.014} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$H(0.61)$	$95.38^{+0.78}_{-0.71} \quad (+0.1\sigma)$
Y_{P}	$0.248^{+0.041}_{-0.043} \quad (+0.5\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.055}_{-0.055} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2303^{+30}_{-31} \quad (-0.2\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.045^{+0.038}_{-0.032} \quad (-0.1\sigma)$	z_{re}	$< 9.60 \quad (-0.1\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.6} \quad (-0.3\sigma)$
n_{s}	$0.968^{+0.020}_{-0.017} \quad (+0.4\sigma)$	$10^9 A_{\mathrm{s}}$	$2.102^{+0.082}_{-0.066} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(2.33)$	$5760^{+38}_{-40} \quad (-0.1\sigma)$
y_{cal}	$1.0007^{+0.0063}_{-0.0065} \quad (-0.0\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.879^{+0.034}_{-0.030} \quad (-0.0\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.2\sigma)$
A_{100}^{PS}	$241^{+60}_{-70} \quad (-0.6\sigma)$	D_{40}	$1224^{+37}_{-40} \quad (-0.5\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.015} \quad (-0.0\sigma)$
A_{143}^{PS}	$40^{+20}_{-20} \quad (-0.6\sigma)$	D_{220}	$5725^{+96}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.2\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2536^{+35}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.014} \quad (+0.0\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+13}_{-13} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.011} \quad (-0.2\sigma)$
A_{143}^{tSZ}	$< 8.85 \quad (-0.9\sigma)$	D_{2000}	$230.2^{+5.7}_{-6.0} \quad (-0.7\sigma)$	$\sigma_8(0.51)$	$0.621^{+0.015}_{-0.013} \quad (+0.0\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.968^{+0.020}_{-0.017} \quad (+0.4\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.010} \quad (-0.1\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.248^{+0.041}_{-0.043} \quad (+0.5\sigma)$	$\sigma_8(0.61)$	$0.591^{+0.014}_{-0.013} \quad (+0.0\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.250^{+0.042}_{-0.044} \quad (+0.5\sigma)$	$f\sigma_8(2.33)$	$0.2980^{+0.0076}_{-0.0065} \quad (+0.1\sigma)$
A^{kSZ}	—	Age/Gyr	$13.790^{+0.088}_{-0.092} \quad (-0.1\sigma)$	$\sigma_8(2.33)$	$0.3073^{+0.0082}_{-0.0069} \quad (+0.1\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.52}$	z_*	$1090.0^{+1.5}_{-1.4} \quad (+0.7\sigma)$	f_{2000}^{143}	$30^{+9}_{-10} \quad (+0.4\sigma)$
A_{143}^{dust}	$0.96^{+0.48}_{-0.45}$	r_*	$144.67^{+0.68}_{-0.70} \quad (+0.2\sigma)$	f_{2000}^{217}	$107.1^{+6.4}_{-6.6} \quad (+0.3\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	$100\theta_*$	$1.04116^{+0.00079}_{-0.00080} \quad (+0.0\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+7}_{-7} \quad (+0.3\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.02^{+0.41}_{-0.43}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.895^{+0.068}_{-0.069} \quad (+0.2\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.28 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{100}	$0.9976^{+0.0027}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1060.0^{+2.3}_{-2.3} \quad (+0.2\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.7) \quad (-0.1\sigma)$
c_{217}	$1.0012^{+0.0042}_{-0.0040} \quad (+4.8\sigma)$	r_{drag}	$147.34^{+0.77}_{-0.77} \quad (+0.2\sigma)$	χ_{lowl}^2	$22.9 \quad (\nu: 0.7) \quad (-0.5\sigma)$
c_{TE}	$0.997^{+0.014}_{-0.013}$	k_{D}	$0.1405^{+0.0013}_{-0.0013} \quad (-1.0\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.8 \quad (\nu: 15.7)$
c_{EE}	$0.993^{+0.017}_{-0.017}$	$100\theta_{\mathrm{D}}$	$0.1610^{+0.0017}_{-0.0016} \quad (+0.8\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.046 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.4}_{-1.3} \quad (+0.2\sigma)$	z_{eq}	$3379^{+56}_{-57} \quad (-0.3\sigma)$	χ_{MGS}^2	$1.35 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.016}_{-0.016} \quad (+0.3\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.011}_{-0.010} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 6.0) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1421^{+0.0023}_{-0.0024} \quad (-0.3\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0055}_{-0.0053} \quad (+0.3\sigma)$	χ_{CMB}^2	$11944.0 \quad (\nu: 16.2) \quad (+1542.4\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0962^{+0.0014}_{-0.0014} \quad (-0.0\sigma)$	$H(0.15)$	$73.0^{+1.2}_{-1.1} \quad (+0.2\sigma)$	χ_{BAO}^2	$6.00 \quad (\nu: 0.5) \quad (-0.2\sigma)$
σ_8	$0.810^{+0.019}_{-0.017} \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+11}_{-12} \quad (-0.2\sigma)$		
S_8	$0.823^{+0.027}_{-0.027} \quad (-0.2\sigma)$	$H(0.38)$	$83.07^{+0.99}_{-0.91} \quad (+0.2\sigma)$		

$\bar{\chi}_{\mathrm{eff}}^2 = 11957.86$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.38$; $R - 1 = 0.02091$

20.38 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_post_Riess18_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02256^{+0.00052}_{-0.00053} \quad (+0.3\sigma)$	σ_8	$0.808^{+0.022}_{-0.020} \quad (-0.2\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4546^{+0.0066}_{-0.0076} \quad (+0.7\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1177^{+0.0034}_{-0.0030} \quad (-0.6\sigma)$	S_8	$0.808^{+0.041}_{-0.037} \quad (-0.7\sigma)$	$H(0.15)$	$73.7^{+1.4}_{-1.6} \quad (+0.8\sigma)$
$100\theta_{\mathrm{MC}}$	$1.0417^{+0.0014}_{-0.0018} \quad (+0.9\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.442^{+0.022}_{-0.020} \quad (-0.7\sigma)$	$D_{\mathrm{M}}(0.15)$	$633^{+16}_{-13} \quad (-0.8\sigma)$
τ	$0.057^{+0.021}_{-0.015} \quad (-0.2\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.598^{+0.021}_{-0.018} \quad (-0.6\sigma)$	$H(0.38)$	$83.6^{+1.1}_{-1.2} \quad (+0.8\sigma)$
Y_{P}	$0.261^{+0.037}_{-0.043} \quad (+1.1\sigma)$	$\sigma_8/h^{0.5}$	$0.975^{+0.031}_{-0.028} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1513^{+32}_{-27} \quad (-0.8\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.046^{+0.045}_{-0.035} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$101.1^{+2.6}_{-2.9} \quad (+0.8\sigma)$	$H(0.51)$	$90.3^{+1.0}_{-1.0} \quad (+0.8\sigma)$
n_{s}	$0.976^{+0.018}_{-0.021} \quad (+1.0\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.400^{+0.077}_{-0.069} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(0.51)$	$1962^{+38}_{-33} \quad (-0.8\sigma)$
y_{cal}	$1.0006^{+0.0062}_{-0.0065} \quad (-0.0\sigma)$	z_{re}	$< 9.83 \quad (-0.2\sigma)$	$H(0.61)$	$95.79^{+0.88}_{-0.92} \quad (+0.7\sigma)$
A_{100}^{PS}	$244^{+60}_{-70} \quad (-0.5\sigma)$	$10^9 A_{\mathrm{s}}$	$2.104^{+0.097}_{-0.072} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(0.61)$	$2284^{+41}_{-36} \quad (-0.8\sigma)$
A_{143}^{PS}	$42^{+20}_{-20} \quad (-0.4\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.034}_{-0.031} \quad (+0.0\sigma)$	$H(2.33)$	$235.3^{+2.0}_{-1.9} \quad (-0.6\sigma)$
A_{217}^{PS}	$101^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1208^{+43}_{-37} \quad (-0.9\sigma)$	$D_{\mathrm{M}}(2.33)$	$5741^{+46}_{-43} \quad (-0.7\sigma)$
A_{217}^{CIB}	$41^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5727^{+91}_{-96} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.448^{+0.021}_{-0.019} \quad (-0.7\sigma)$
A_{143}^{tSZ}	$< 9.08 \quad (-0.9\sigma)$	D_{810}	$2537^{+33}_{-33} \quad (-0.2\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.020}_{-0.018} \quad (-0.2\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.65^{+0.30}_{-0.31}$	D_{1420}	$815^{+13}_{-13} \quad (-0.6\sigma)$	$f\sigma_8(0.38)$	$0.469^{+0.017}_{-0.015} \quad (-0.6\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$229.3^{+6.7}_{-6.0} \quad (-1.1\sigma)$	$\sigma_8(0.38)$	$0.664^{+0.017}_{-0.015} \quad (-0.1\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.976^{+0.018}_{-0.021} \quad (+1.0\sigma)$	$f\sigma_8(0.51)$	$0.469^{+0.016}_{-0.014} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_{P}	$0.261^{+0.037}_{-0.043} \quad (+1.1\sigma)$	$\sigma_8(0.51)$	$0.622^{+0.016}_{-0.014} \quad (-0.0\sigma)$
A_{100}^{dust}	$1.01^{+0.46}_{-0.52}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.262^{+0.037}_{-0.044} \quad (+1.1\sigma)$	$f\sigma_8(0.61)$	$0.465^{+0.015}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.97^{+0.42}_{-0.47}$	Age/Gyr	$13.75^{+0.10}_{-0.097} \quad (-0.6\sigma)$	$\sigma_8(0.61)$	$0.592^{+0.015}_{-0.013} \quad (+0.0\sigma)$
A_{217}^{dust}	$0.97^{+0.26}_{-0.27}$	z_*	$1090.1^{+1.5}_{-1.5} \quad (+1.0\sigma)$	$f\sigma_8(2.33)$	$0.2990^{+0.0080}_{-0.0070} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.04^{+0.39}_{-0.40}$	r_*	$144.82^{+0.74}_{-0.82} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3088^{+0.0082}_{-0.0075} \quad (+0.2\sigma)$
c_{100}	$0.9975^{+0.0027}_{-0.0026} \quad (-3.6\sigma)$	$100\theta_*$	$1.04140^{+0.00079}_{-0.00088} \quad (+0.3\sigma)$	f_{2000}^{143}	$31^{+10}_{-10} \quad (+0.7\sigma)$
c_{217}	$1.0013^{+0.0042}_{-0.0043} \quad (+5.1\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.071}_{-0.078} \quad (+0.4\sigma)$	f_{2000}^{217}	$108.1^{+6.7}_{-7.3} \quad (+0.6\sigma)$
c_{TE}	$0.999^{+0.015}_{-0.014}$	z_{drag}	$1060.7^{+2.2}_{-2.4} \quad (+0.7\sigma)$	$f_{2000}^{143 \times 217}$	$34^{+6}_{-7} \quad (+0.7\sigma)$
c_{EE}	$0.996^{+0.015}_{-0.017}$	r_{drag}	$147.44^{+0.83}_{-0.83} \quad (+0.4\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 2.1) \quad (-0.2\sigma)$
H_0	$68.6^{+1.6}_{-1.8} \quad (+0.8\sigma)$	k_{D}	$0.1400^{+0.0014}_{-0.0012} \quad (-1.6\sigma)$	χ_{lowl}^2	$21.8 \quad (\nu: 0.6) \quad (-0.9\sigma)$
Ω_{Λ}	$0.700^{+0.019}_{-0.023} \quad (+0.7\sigma)$	$100\theta_{\mathrm{D}}$	$0.1614^{+0.0017}_{-0.0018} \quad (+1.4\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11518.1 \quad (\nu: 20.3)$
Ω_{m}	$0.300^{+0.023}_{-0.019} \quad (-0.7\sigma)$	z_{eq}	$3352^{+75}_{-70} \quad (-0.6\sigma)$	$\chi_{\mathrm{H073p45}}^2$	$8.9 \quad (\nu: 3.3) \quad (-0.7\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1409^{+0.0032}_{-0.0029} \quad (-0.6\sigma)$	k_{eq}	$0.01023^{+0.00023}_{-0.00021} \quad (-0.6\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 6.2) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.0966^{+0.0014}_{-0.0015} \quad (+0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.823^{+0.013}_{-0.015} \quad (+0.7\sigma)$	χ_{CMB}^2	$11937.0 \quad (\nu: 18.7) \quad (+1435.0\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11953.75; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9149.01; R - 1 = 0.05858$$

20.39 base_yhe_plikHM_TE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02218	$0.02222^{+0.00097}_{-0.00084}$	$r_{\text{drag}} h$	99.4	$99.6^{+5.8}_{-4.9}$	$H(0.15)$	72.47	$72.6^{+3.5}_{-2.8}$
$\Omega_c h^2$	0.1185	$0.1184^{+0.0054}_{-0.0055}$	$\langle d^2 \rangle^{1/2}$	2.434	$2.43^{+0.14}_{-0.16}$	$D_M(0.15)$	645.1	644^{+28}_{-32}
$100\theta_{\text{MC}}$	1.03933	$1.0396^{+0.0050}_{-0.0037}$	z_{re}	7.00	$6.9^{+2.2}_{-2.9}$	$H(0.38)$	82.57	$82.7^{+2.9}_{-2.1}$
τ	0.0498	$0.049^{+0.021}_{-0.026}$	$10^9 A_s$	2.045	$2.04^{+0.10}_{-0.12}$	$D_M(0.38)$	1538	1535^{+57}_{-68}
Y_P	0.186	< 0.314	$10^9 A_s e^{-2\tau}$	1.8509	$1.852^{+0.048}_{-0.045}$	$H(0.51)$	89.27	$89.4^{+2.5}_{-1.8}$
$\ln(10^{10} A_s)$	3.018	$3.016^{+0.049}_{-0.058}$	D_{40}	1251	1247^{+100}_{-110}	$D_M(0.51)$	1992	1989^{+68}_{-82}
n_s	0.9500	$0.952^{+0.049}_{-0.042}$	D_{220}	5746	5741^{+180}_{-190}	$H(0.61)$	94.88	$95.0^{+2.2}_{-1.6}$
A_{100}^{dustTE}	0.114	$0.114^{+0.098}_{-0.095}$	D_{810}	2532	2530^{+82}_{-86}	$D_M(0.61)$	2318	2314^{+74}_{-90}
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.135^{+0.076}_{-0.076}$	D_{1420}	826	825^{+49}_{-53}	$H(2.33)$	235.22	$235.2^{+3.1}_{-3.1}$
$A_{100 \times 217}^{\text{dustTE}}$	0.477	$0.48^{+0.22}_{-0.22}$	D_{2000}	237.6	237^{+22}_{-25}	$D_M(2.33)$	5789	5783^{+81}_{-110}
A_{143}^{dustTE}	0.223	$0.22^{+0.14}_{-0.14}$	$n_{s,0.002}$	0.9500	$0.952^{+0.049}_{-0.042}$	$f\sigma_8(0.15)$	0.4465	$0.445^{+0.033}_{-0.034}$
$A_{143 \times 217}^{\text{dustTE}}$	0.658	$0.66^{+0.20}_{-0.21}$	Y_P	0.186	$0.191^{+0.13}_{-0.098}$	$\sigma_8(0.15)$	0.7302	$0.730^{+0.027}_{-0.026}$
A_{217}^{dustTE}	2.05	$2.04^{+0.71}_{-0.70}$	Y_P^{BBN}	0.187	$0.192^{+0.13}_{-0.098}$	$f\sigma_8(0.38)$	0.4641	$0.463^{+0.026}_{-0.027}$
c_{100}	1.00016	$1.0002^{+0.0018}_{-0.0018}$	Age/Gyr	13.858	$13.85^{+0.19}_{-0.26}$	$\sigma_8(0.38)$	0.6471	$0.647^{+0.024}_{-0.023}$
c_{217}	0.99798	$0.9980^{+0.0016}_{-0.0017}$	z_*	1087.79	$1088.0^{+4.3}_{-3.1}$	$f\sigma_8(0.51)$	0.4625	$0.462^{+0.022}_{-0.023}$
y_{cal}	0.99999	$1.0001^{+0.0064}_{-0.0064}$	r_*	145.17	$145.1^{+1.3}_{-1.3}$	$\sigma_8(0.51)$	0.6055	$0.606^{+0.023}_{-0.022}$
H_0	67.19	$67.4^{+3.9}_{-3.1}$	$100\theta_*$	1.04097	$1.0410^{+0.0020}_{-0.0017}$	$f\sigma_8(0.61)$	0.4576	$0.457^{+0.020}_{-0.021}$
Ω_Λ	0.6870	$0.688^{+0.041}_{-0.041}$	$D_M(z_*)/\text{Gpc}$	13.945	$13.94^{+0.13}_{-0.14}$	$\sigma_8(0.61)$	0.5761	$0.576^{+0.022}_{-0.021}$
Ω_m	0.3130	$0.312^{+0.041}_{-0.041}$	z_{drag}	1057.5	$1057.9^{+5.8}_{-4.3}$	$f\sigma_8(2.33)$	0.2904	$0.291^{+0.012}_{-0.011}$
$\Omega_m h^2$	0.1413	$0.1413^{+0.0050}_{-0.0050}$	r_{drag}	147.88	$147.8^{+1.4}_{-1.4}$	$\sigma_8(2.33)$	0.2994	$0.300^{+0.013}_{-0.012}$
$\Omega_m h^3$	0.09495	$0.0951^{+0.0037}_{-0.0026}$	k_D	0.14219	$0.1420^{+0.0033}_{-0.0045}$	χ_{simall}^2	395.56	$396.7 (\nu: 1.2)$
σ_8	0.7904	$0.790^{+0.029}_{-0.029}$	$100\theta_D$	0.15843	$0.1587^{+0.0054}_{-0.0038}$	χ_{plikTE}^2	851.8	$859.4 (\nu: 7.3)$
S_8	0.807	$0.805^{+0.066}_{-0.067}$	z_{eq}	3361	3360^{+120}_{-120}	χ_{prior}^2	0.4	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_m^{0.5}$	0.4422	$0.441^{+0.036}_{-0.037}$	k_{eq}	0.010259	$0.01026^{+0.00036}_{-0.00037}$	χ_{CMB}^2	1247.4	$1256.1 (\nu: 8.6)$
$\sigma_8 \Omega_m^{0.25}$	0.5912	$0.590^{+0.031}_{-0.033}$	$100\theta_{\text{eq}}$	0.8189	$0.820^{+0.026}_{-0.023}$			
$\sigma_8/h^{0.5}$	0.9642	$0.963^{+0.044}_{-0.046}$	$100\theta_{s,\text{eq}}$	0.4524	$0.453^{+0.013}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 1247.84$; $\bar{\chi}_{\text{eff}}^2 = 1263.54$; $R - 1 = 0.00777$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.56 plik_rd12_HM_v22_TE: 851.83

20.40 base_yhe_plikHM_TE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.02225	$0.02230^{+0.00073}_{-0.00074}$	$\langle d^2 \rangle^{1/2}$	2.416	$2.409^{+0.095}_{-0.10}$	$H(0.38)$	82.87	$83.0^{+1.5}_{-1.3}$
$\Omega_c h^2$	0.11773	$0.1178^{+0.0033}_{-0.0033}$	z_{re}	7.01	$6.9^{+2.1}_{-2.9}$	$D_{\text{M}}(0.38)$	1530.0	1528^{+33}_{-34}
$100\theta_{\text{MC}}$	1.03971	$1.0400^{+0.0042}_{-0.0032}$	$10^9 A_{\text{s}}$	2.043	$2.04^{+0.11}_{-0.11}$	$H(0.51)$	89.52	$89.6^{+1.4}_{-1.2}$
τ	0.0498	$0.049^{+0.021}_{-0.026}$	$10^9 A_{\text{s}} e^{-2\tau}$	1.8489	$1.850^{+0.044}_{-0.042}$	$D_{\text{M}}(0.51)$	1982.7	1980^{+40}_{-41}
Y_{P}	0.195	< 0.301	D_{40}	1243	1237^{+84}_{-84}	$H(0.61)$	95.09	$95.2^{+1.3}_{-1.2}$
$\ln(10^{10} A_{\text{s}})$	3.017	$3.016^{+0.050}_{-0.057}$	D_{220}	5742	5733^{+180}_{-170}	$D_{\text{M}}(0.61)$	2307.7	2305^{+44}_{-45}
n_{s}	0.9539	$0.956^{+0.037}_{-0.034}$	D_{810}	2528	2526^{+80}_{-79}	$H(2.33)$	234.82	$234.9^{+2.6}_{-2.5}$
y_{cal}	1.0001	$1.0001^{+0.0063}_{-0.0065}$	D_{1420}	823.9	822^{+47}_{-47}	$D_{\text{M}}(2.33)$	5779	5774^{+63}_{-72}
A_{100}^{dustTE}	0.114	$0.114^{+0.096}_{-0.094}$	D_{2000}	236.2	235^{+22}_{-22}	$f\sigma_8(0.15)$	0.4419	$0.442^{+0.021}_{-0.021}$
$A_{100 \times 143}^{\text{dustTE}}$	0.136	$0.135^{+0.074}_{-0.076}$	$n_{\text{s},0.002}$	0.9539	$0.956^{+0.037}_{-0.034}$	$\sigma_8(0.15)$	0.7291	$0.730^{+0.027}_{-0.024}$
$A_{100 \times 217}^{\text{dustTE}}$	0.478	$0.48^{+0.22}_{-0.22}$	Y_{P}	0.195	$0.201^{+0.11}_{-0.097}$	$f\sigma_8(0.38)$	0.4607	$0.461^{+0.019}_{-0.019}$
A_{143}^{dustTE}	0.222	$0.22^{+0.15}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	0.197	$0.203^{+0.11}_{-0.098}$	$\sigma_8(0.38)$	0.6468	$0.647^{+0.024}_{-0.022}$
$A_{143 \times 217}^{\text{dustTE}}$	0.658	$0.65^{+0.20}_{-0.20}$	Age/Gyr	13.836	$13.82^{+0.15}_{-0.17}$	$f\sigma_8(0.51)$	0.4598	$0.460^{+0.018}_{-0.017}$
A_{217}^{dustTE}	2.03	$2.03^{+0.73}_{-0.69}$	z_*	1087.98	$1088.2^{+4.1}_{-3.1}$	$\sigma_8(0.51)$	0.6055	$0.606^{+0.023}_{-0.021}$
c_{100}	1.00018	$1.0002^{+0.0019}_{-0.0018}$	r_*	145.28	$145.2^{+1.2}_{-1.4}$	$f\sigma_8(0.61)$	0.4553	$0.455^{+0.018}_{-0.016}$
c_{217}	0.99799	$0.9980^{+0.0016}_{-0.0017}$	$100\theta_*$	1.04113	$1.0412^{+0.0015}_{-0.0015}$	$\sigma_8(0.61)$	0.5762	$0.577^{+0.022}_{-0.020}$
H_0	67.65	$67.8^{+1.9}_{-1.8}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.954	$13.95^{+0.13}_{-0.14}$	$f\sigma_8(2.33)$	0.2907	$0.291^{+0.011}_{-0.010}$
Ω_{Λ}	0.6928	$0.694^{+0.020}_{-0.020}$	z_{drag}	1057.95	$1058.3^{+5.1}_{-4.0}$	$\sigma_8(2.33)$	0.2999	$0.300^{+0.011}_{-0.011}$
Ω_{m}	0.3072	$0.306^{+0.020}_{-0.020}$	r_{drag}	147.97	$147.9^{+1.3}_{-1.5}$	χ_{small}^2	395.6	$396.7 (\nu: 1.2)$
$\Omega_{\text{m}} h^2$	0.14062	$0.1407^{+0.0035}_{-0.0034}$	k_{D}	0.14179	$0.1416^{+0.0029}_{-0.0032}$	χ_{plikTE}^2	852.0	$859.0 (\nu: 7.0)$
$\Omega_{\text{m}} h^3$	0.09514	$0.0954^{+0.0032}_{-0.0026}$	$100\theta_{\text{D}}$	0.15878	$0.1591^{+0.0047}_{-0.0037}$	$\chi_{6\text{DF}}^2$	0.006	$0.047 (\nu: 0.0)$
σ_8	0.7886	$0.789^{+0.030}_{-0.026}$	z_{eq}	3345	3347^{+84}_{-81}	χ_{MGS}^2	1.47	$1.62 (\nu: 0.2)$
S_8	0.7981	$0.798^{+0.042}_{-0.041}$	k_{eq}	0.010209	$0.01022^{+0.00026}_{-0.00025}$	χ_{DR12BAO}^2	3.79	$4.4 (\nu: 0.9)$
$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4371	$0.437^{+0.023}_{-0.022}$	$100\theta_{\text{eq}}$	0.8224	$0.822^{+0.014}_{-0.014}$	χ_{prior}^2	0.4	$7.4 (\nu: 6.9)$
$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.5871	$0.587^{+0.024}_{-0.023}$	$100\theta_{\text{s,eq}}$	0.4542	$0.4542^{+0.0073}_{-0.0072}$	χ_{BAO}^2	5.26	$6.0 (\nu: 0.7)$
$\sigma_8/h^{0.5}$	0.9588	$0.959^{+0.036}_{-0.034}$	$H(0.15)$	72.87	$73.0^{+1.7}_{-1.6}$	χ_{CMB}^2	1247.6	$1255.7 (\nu: 8.2)$
$r_{\text{drag}} h$	100.11	$100.2^{+2.7}_{-2.6}$	$D_{\text{M}}(0.15)$	641.1	640^{+16}_{-16}			

Best-fit $\chi_{\text{eff}}^2 = 1253.32$; $\bar{\chi}_{\text{eff}}^2 = 1269.20$; $R - 1 = 0.01067$

χ_{eff}^2 : BAO - 6DF: 0.01 MGS: 1.47 DR12BAO: 3.79 CMB - small_100x143.offlike5_EE_Aplanck_B: 395.61 plik_rd12_HM_v22_TE: 852.01

20.41 base_yhe_plikHM_TE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\rm b} h^2$	$0.02226^{+0.00096}_{-0.00084}$	$r_{\rm drag} h$	$99.8^{+5.9}_{-4.9}$	$H(0.15)$	$72.7^{+3.5}_{-2.8}$
$\Omega_{\rm c} h^2$	$0.1182^{+0.0053}_{-0.0055}$	$\langle d^2 \rangle^{1/2}$	$2.43^{+0.14}_{-0.16}$	$D_{\rm M}(0.15)$	643^{+28}_{-33}
$100\theta_{\rm MC}$	$1.0397^{+0.0050}_{-0.0038}$	$z_{\rm re}$	< 8.94	$H(0.38)$	$82.8^{+2.9}_{-2.1}$
τ	$0.053^{+0.017}_{-0.010}$	$10^9 A_{\rm s}$	$2.059^{+0.092}_{-0.067}$	$D_{\rm M}(0.38)$	1533^{+57}_{-69}
$Y_{\rm P}$	< 0.318	$10^9 A_{\rm s} e^{-2\tau}$	$1.852^{+0.047}_{-0.045}$	$H(0.51)$	$89.5^{+2.6}_{-1.8}$
$\ln(10^{10} A_{\rm s})$	$3.025^{+0.044}_{-0.033}$	D_{40}	1243^{+100}_{-110}	$D_{\rm M}(0.51)$	1986^{+68}_{-82}
$n_{\rm s}$	$0.955^{+0.049}_{-0.041}$	D_{220}	5736^{+180}_{-190}	$H(0.61)$	$95.1^{+2.3}_{-1.6}$
$A_{100}^{\rm dustTE}$	$0.114^{+0.098}_{-0.096}$	D_{810}	2529^{+82}_{-86}	$D_{\rm M}(0.61)$	2311^{+74}_{-91}
$A_{100 \times 143}^{\rm dustTE}$	$0.135^{+0.076}_{-0.076}$	D_{1420}	824^{+49}_{-54}	$H(2.33)$	$235.2^{+3.1}_{-3.0}$
$A_{100 \times 217}^{\rm dustTE}$	$0.48^{+0.21}_{-0.22}$	D_{2000}	236^{+22}_{-25}	$D_{\rm M}(2.33)$	5779^{+83}_{-110}
$A_{143}^{\rm dustTE}$	$0.22^{+0.14}_{-0.14}$	$n_{\rm s,0.002}$	$0.955^{+0.049}_{-0.041}$	$f\sigma_8(0.15)$	$0.446^{+0.033}_{-0.035}$
$A_{143 \times 217}^{\rm dustTE}$	$0.66^{+0.20}_{-0.21}$	$Y_{\rm P}$	$0.20^{+0.13}_{-0.10}$	$\sigma_8(0.15)$	$0.733^{+0.025}_{-0.021}$
$A_{217}^{\rm dustTE}$	$2.04^{+0.70}_{-0.70}$	$Y_{\rm P}^{\rm BBN}$	$0.20^{+0.13}_{-0.10}$	$f\sigma_8(0.38)$	$0.465^{+0.025}_{-0.027}$
c_{100}	$1.0002^{+0.0018}_{-0.0018}$	Age/Gyr	$13.84^{+0.19}_{-0.26}$	$\sigma_8(0.38)$	$0.650^{+0.022}_{-0.017}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	z_*	$1088.1^{+4.3}_{-3.2}$	$f\sigma_8(0.51)$	$0.463^{+0.021}_{-0.023}$
$y_{\rm cal}$	$1.0001^{+0.0064}_{-0.0064}$	r_*	$145.1^{+1.3}_{-1.3}$	$\sigma_8(0.51)$	$0.609^{+0.022}_{-0.016}$
H_0	$67.5^{+3.9}_{-3.1}$	$100\theta_*$	$1.0411^{+0.0019}_{-0.0017}$	$f\sigma_8(0.61)$	$0.459^{+0.019}_{-0.020}$
Ω_{Λ}	$0.690^{+0.042}_{-0.040}$	$D_{\rm M}(z_*)/\text{Gpc}$	$13.94^{+0.13}_{-0.14}$	$\sigma_8(0.61)$	$0.579^{+0.021}_{-0.016}$
$\Omega_{\rm m}$	$0.310^{+0.040}_{-0.042}$	$z_{\rm drag}$	$1058.1^{+5.9}_{-4.5}$	$f\sigma_8(2.33)$	$0.292^{+0.011}_{-0.0080}$
$\Omega_{\rm m} h^2$	$0.1411^{+0.0049}_{-0.0050}$	$r_{\rm drag}$	$147.8^{+1.4}_{-1.4}$	$\sigma_8(2.33)$	$0.301^{+0.012}_{-0.0089}$
$\Omega_{\rm m} h^3$	$0.0952^{+0.0036}_{-0.0026}$	$k_{\rm D}$	$0.1419^{+0.0035}_{-0.0043}$	$\chi_{\rm simall}^2$	$396.4 \ (\nu: 0.7)$
σ_8	$0.793^{+0.027}_{-0.024}$	$100\theta_{\rm D}$	$0.1589^{+0.0054}_{-0.0040}$	$\chi_{\rm plikTE}^2$	$859.5 \ (\nu: 7.5)$
S_8	$0.807^{+0.065}_{-0.068}$	$z_{\rm eq}$	3357^{+120}_{-120}	$\chi_{\rm prior}^2$	$7.4 \ (\nu: 6.8)$
$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.442^{+0.036}_{-0.037}$	$k_{\rm eq}$	$0.01025^{+0.00036}_{-0.00036}$	$\chi_{\rm CMB}^2$	$1255.9 \ (\nu: 8.4)$
$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.592^{+0.031}_{-0.032}$	$100\theta_{\rm eq}$	$0.820^{+0.026}_{-0.023}$		
$\sigma_8/h^{0.5}$	$0.966^{+0.043}_{-0.044}$	$100\theta_{\rm s,eq}$	$0.453^{+0.013}_{-0.012}$		

$\bar{\chi}_{\rm eff}^2 = 1263.26$; $R - 1 = 0.00933$

20.42 base_yhe_plikHM_TE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02231^{+0.00073}_{-0.00074}$	$\langle d^2 \rangle^{1/2}$	$2.417^{+0.092}_{-0.091}$	$H(0.38)$	$83.0^{+1.5}_{-1.3}$
$\Omega_{\text{c}}h^2$	$0.1178^{+0.0033}_{-0.0032}$	z_{re}	< 8.95	$D_{\text{M}}(0.38)$	1527^{+33}_{-34}
$100\theta_{\text{MC}}$	$1.0400^{+0.0041}_{-0.0032}$	$10^9 A_{\text{s}}$	$2.058^{+0.091}_{-0.068}$	$H(0.51)$	$89.7^{+1.4}_{-1.2}$
τ	$0.053^{+0.017}_{-0.011}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.851^{+0.045}_{-0.043}$	$D_{\text{M}}(0.51)$	1979^{+40}_{-42}
Y_{P}	< 0.301	D_{40}	1236^{+81}_{-85}	$H(0.61)$	$95.2^{+1.3}_{-1.2}$
$\ln(10^{10}A_{\text{s}})$	$3.024^{+0.043}_{-0.033}$	D_{220}	5731^{+170}_{-180}	$D_{\text{M}}(0.61)$	2304^{+44}_{-46}
n_{s}	$0.958^{+0.037}_{-0.034}$	D_{810}	2527^{+82}_{-79}	$H(2.33)$	$234.9^{+2.7}_{-2.5}$
y_{cal}	$1.0001^{+0.0063}_{-0.0065}$	D_{1420}	822^{+49}_{-47}	$D_{\text{M}}(2.33)$	5772^{+64}_{-72}
A_{100}^{dustTE}	$0.114^{+0.097}_{-0.094}$	D_{2000}	235^{+22}_{-22}	$f\sigma_8(0.15)$	$0.444^{+0.021}_{-0.020}$
$A_{100\times 143}^{\text{dustTE}}$	$0.135^{+0.074}_{-0.076}$	$n_{\text{s},0.002}$	$0.958^{+0.037}_{-0.034}$	$\sigma_8(0.15)$	$0.733^{+0.026}_{-0.021}$
$A_{100\times 217}^{\text{dustTE}}$	$0.48^{+0.21}_{-0.22}$	Y_{P}	$0.203^{+0.11}_{-0.099}$	$f\sigma_8(0.38)$	$0.463^{+0.018}_{-0.018}$
A_{143}^{dustTE}	$0.22^{+0.14}_{-0.14}$	$Y_{\text{P}}^{\text{BBN}}$	$0.20^{+0.11}_{-0.10}$	$\sigma_8(0.38)$	$0.650^{+0.022}_{-0.019}$
$A_{143\times 217}^{\text{dustTE}}$	$0.66^{+0.20}_{-0.20}$	Age/Gyr	$13.82^{+0.15}_{-0.17}$	$f\sigma_8(0.51)$	$0.462^{+0.018}_{-0.016}$
A_{217}^{dustTE}	$2.03^{+0.71}_{-0.68}$	z_*	$1088.3^{+4.0}_{-3.1}$	$\sigma_8(0.51)$	$0.609^{+0.021}_{-0.017}$
c_{100}	$1.0002^{+0.0018}_{-0.0017}$	r_*	$145.2^{+1.3}_{-1.4}$	$f\sigma_8(0.61)$	$0.457^{+0.017}_{-0.015}$
c_{217}	$0.9980^{+0.0016}_{-0.0017}$	$100\theta_*$	$1.0412^{+0.0015}_{-0.0015}$	$\sigma_8(0.61)$	$0.580^{+0.020}_{-0.016}$
H_0	$67.8^{+1.9}_{-1.8}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.94^{+0.13}_{-0.14}$	$f\sigma_8(2.33)$	$0.292^{+0.011}_{-0.0083}$
Ω_{Λ}	$0.694^{+0.019}_{-0.020}$	z_{drag}	$1058.4^{+5.0}_{-4.0}$	$\sigma_8(2.33)$	$0.302^{+0.011}_{-0.0086}$
Ω_{m}	$0.306^{+0.020}_{-0.019}$	r_{drag}	$147.9^{+1.4}_{-1.5}$	χ_{simall}^2	$396.4\ (\nu: 0.7)$
$\Omega_{\text{m}}h^2$	$0.1407^{+0.0035}_{-0.0033}$	k_{D}	$0.1416^{+0.0029}_{-0.0031}$	χ_{plikTE}^2	$859.1\ (\nu: 7.3)$
$\Omega_{\text{m}}h^3$	$0.0954^{+0.0032}_{-0.0027}$	$100\theta_{\text{D}}$	$0.1591^{+0.0046}_{-0.0037}$	$\chi_{6\text{DF}}^2$	$0.046\ (\nu: 0.0)$
σ_8	$0.793^{+0.028}_{-0.023}$	z_{eq}	3347^{+85}_{-80}	χ_{MGS}^2	$1.64\ (\nu: 0.2)$
S_8	$0.801^{+0.040}_{-0.039}$	k_{eq}	$0.01022^{+0.00026}_{-0.00024}$	χ_{DR12BAO}^2	$4.3\ (\nu: 0.8)$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.439^{+0.022}_{-0.021}$	$100\theta_{\text{eq}}$	$0.822^{+0.014}_{-0.014}$	χ_{prior}^2	$7.4\ (\nu: 6.8)$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.590^{+0.023}_{-0.022}$	$100\theta_{\text{s,eq}}$	$0.4542^{+0.0072}_{-0.0072}$	χ_{BAO}^2	$6.0\ (\nu: 0.6)$
$\sigma_8/h^{0.5}$	$0.963^{+0.034}_{-0.031}$	$H(0.15)$	$73.0^{+1.7}_{-1.6}$	χ_{CMB}^2	$1255.4\ (\nu: 8.1)$
$r_{\text{drag}}h$	$100.3^{+2.6}_{-2.6}$	$D_{\text{M}}(0.15)$	640^{+16}_{-16}		

$\bar{\chi}_{\text{eff}}^2 = 1268.83; R - 1 = 0.01490$

20.43 base_yhe_plikHM_EE_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02336	$0.0235^{+0.0038}_{-0.0035}$	D_{40}	1259	1254^{+110}_{-140}	$H(0.38)$	83.7	$84.0^{+6.3}_{-5.7}$
$\Omega_{\mathrm{c}}h^2$	0.1161	$0.116^{+0.013}_{-0.011}$	D_{220}	5977	5981^{+510}_{-510}	$D_{\mathrm{M}}(0.38)$	1511	1506^{+150}_{-140}
$100\theta_{\mathrm{MC}}$	1.0382	$1.0386^{+0.0074}_{-0.0049}$	D_{810}	2612	2606^{+120}_{-130}	$H(0.51)$	90.2	$90.6^{+5.6}_{-4.8}$
τ	0.0521	$0.052^{+0.023}_{-0.025}$	D_{1420}	859	856^{+66}_{-75}	$D_{\mathrm{M}}(0.51)$	1960	1954^{+180}_{-160}
Y_{P}	0.196	< 0.365	D_{2000}	249.1	247^{+30}_{-30}	$H(0.61)$	95.73	$96.0^{+5.1}_{-4.3}$
$\ln(10^{10}A_{\mathrm{s}})$	3.049	$3.050^{+0.057}_{-0.058}$	$n_{\mathrm{s},0.002}$	0.966	$0.969^{+0.067}_{-0.052}$	$D_{\mathrm{M}}(0.61)$	2283	2275^{+190}_{-180}
n_{s}	0.966	$0.969^{+0.067}_{-0.052}$	Y_{P}	0.196	$0.20^{+0.16}_{-0.11}$	$H(2.33)$	234.7	$234.9^{+6.1}_{-5.3}$
y_{cal}	1.0001	$1.0001^{+0.0064}_{-0.0062}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.197	$0.21^{+0.16}_{-0.11}$	$D_{\mathrm{M}}(2.33)$	5746	5732^{+220}_{-240}
H_0	68.7	69^{+8}_{-8}	Age/Gyr	13.76	$13.73^{+0.52}_{-0.55}$	$f\sigma_8(0.15)$	0.438	$0.437^{+0.086}_{-0.074}$
Ω_{Λ}	0.703	$0.703^{+0.074}_{-0.11}$	z_{*}	1086.6	$1086.9^{+6.5}_{-5.1}$	$\sigma_8(0.15)$	0.7344	$0.734^{+0.039}_{-0.040}$
Ω_{m}	0.297	$0.297^{+0.11}_{-0.074}$	r_{*}	144.85	$144.7^{+2.1}_{-2.5}$	$f\sigma_8(0.38)$	0.459	$0.458^{+0.062}_{-0.060}$
$\Omega_{\mathrm{m}}h^2$	0.1401	$0.140^{+0.010}_{-0.0090}$	$100\theta_{*}$	1.03950	$1.0396^{+0.0031}_{-0.0028}$	$\sigma_8(0.38)$	0.6526	$0.652^{+0.032}_{-0.031}$
$\Omega_{\mathrm{m}}h^3$	0.0962	$0.0967^{+0.0084}_{-0.0065}$	$D_{\mathrm{M}}(z_{*})/\mathrm{Gpc}$	13.935	$13.92^{+0.21}_{-0.27}$	$f\sigma_8(0.51)$	0.459	$0.458^{+0.051}_{-0.052}$
σ_8	0.7933	$0.793^{+0.048}_{-0.050}$	z_{drag}	1060.4	$1061^{+12}_{-9.7}$	$\sigma_8(0.51)$	0.6114	$0.611^{+0.030}_{-0.027}$
S_8	0.789	$0.79^{+0.17}_{-0.14}$	r_{drag}	147.18	$147.0^{+2.5}_{-3.1}$	$f\sigma_8(0.61)$	0.4556	$0.454^{+0.044}_{-0.047}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.432	$0.431^{+0.095}_{-0.077}$	k_{D}	0.14341	$0.1433^{+0.0041}_{-0.0045}$	$\sigma_8(0.61)$	0.5822	$0.582^{+0.029}_{-0.025}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.586	$0.584^{+0.077}_{-0.070}$	$100\theta_{\mathrm{D}}$	0.1572	$0.1576^{+0.0069}_{-0.0050}$	$f\sigma_8(2.33)$	0.2941	$0.294^{+0.015}_{-0.012}$
$\sigma_8/h^{0.5}$	0.957	$0.96^{+0.11}_{-0.10}$	z_{eq}	3332	3334^{+250}_{-210}	$\sigma_8(2.33)$	0.3039	$0.304^{+0.017}_{-0.013}$
$r_{\mathrm{drag}}h$	101.1	101^{+11}_{-12}	k_{eq}	0.01017	$0.01018^{+0.00076}_{-0.00065}$	χ_{simall}^2	395.57	$396.7 (\nu: 1.2)$
$\langle d^2 \rangle^{1/2}$	2.411	$2.40^{+0.24}_{-0.23}$	$100\theta_{\mathrm{eq}}$	0.827	$0.828^{+0.049}_{-0.053}$	χ_{plikEE}^2	738.5	$744.0 (\nu: 5.6)$
z_{re}	6.99	$7.0^{+2.2}_{-2.6}$	$100\theta_{\mathrm{s,eq}}$	0.4556	$0.456^{+0.024}_{-0.026}$	χ_{prior}^2	0.00	$0.99 (\nu: 0.9)$
$10^9 A_{\mathrm{s}}$	2.110	$2.11^{+0.12}_{-0.12}$	$H(0.15)$	73.8	$74.2^{+7.5}_{-7.1}$	χ_{CMB}^2	1134.1	$1140.7 (\nu: 6.9)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.901	$1.902^{+0.064}_{-0.063}$	$D_{\mathrm{M}}(0.15)$	632	630^{+70}_{-60}			

Best-fit $\chi_{\mathrm{eff}}^2 = 1134.10$; $\bar{\chi}_{\mathrm{eff}}^2 = 1141.72$; $R - 1 = 0.00767$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.57 plik_rd12_HM_v22_EE: 738.53

20.44 base_yhe_plikHM_EE_lowE_post_BAO

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.02321	$0.0233^{+0.0018}_{-0.0018}$	D_{220}	5981	5957^{+380}_{-430}	$H(0.51)$	89.97	$90.1^{+2.4}_{-1.9}$
$\Omega_{\mathrm{c}}h^2$	0.11641	$0.1167^{+0.0054}_{-0.0044}$	D_{810}	2610	2605^{+110}_{-140}	$D_{\mathrm{M}}(0.51)$	1968	1966^{+56}_{-61}
$100\theta_{\mathrm{MC}}$	1.0379	$1.0384^{+0.0063}_{-0.0045}$	D_{1420}	859	855^{+56}_{-82}	$H(0.61)$	95.50	$95.6^{+2.3}_{-1.8}$
τ	0.0512	$0.052^{+0.021}_{-0.022}$	D_{2000}	249.3	248^{+27}_{-34}	$D_{\mathrm{M}}(0.61)$	2292	2289^{+61}_{-69}
Y_{P}	0.188	< 0.348	$n_{\mathrm{s},0.002}$	0.9608	$0.965^{+0.048}_{-0.038}$	$H(2.33)$	234.74	$235.0^{+4.7}_{-3.6}$
$\ln(10^{10}A_{\mathrm{s}})$	3.047	$3.049^{+0.056}_{-0.056}$	Y_{P}	0.188	$0.20^{+0.15}_{-0.11}$	$D_{\mathrm{M}}(2.33)$	5758	5750^{+100}_{-130}
n_{s}	0.9608	$0.965^{+0.048}_{-0.038}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.189	$0.20^{+0.16}_{-0.11}$	$f\sigma_8(0.15)$	0.4397	$0.442^{+0.029}_{-0.026}$
y_{cal}	0.9999	$1.0001^{+0.0068}_{-0.0063}$	Age/Gyr	13.787	$13.77^{+0.25}_{-0.31}$	$\sigma_8(0.15)$	0.7332	$0.736^{+0.036}_{-0.031}$
H_0	68.31	$68.4^{+2.6}_{-2.3}$	z_*	1086.5	$1087.0^{+6.0}_{-4.2}$	$f\sigma_8(0.38)$	0.4600	$0.462^{+0.027}_{-0.024}$
Ω_{Λ}	0.6994	$0.699^{+0.023}_{-0.023}$	r_*	144.90	$144.7^{+2.0}_{-2.6}$	$\sigma_8(0.38)$	0.6511	$0.654^{+0.034}_{-0.025}$
Ω_{m}	0.3006	$0.301^{+0.023}_{-0.023}$	$100\theta_*$	1.03934	$1.0395^{+0.0028}_{-0.0023}$	$f\sigma_8(0.51)$	0.4599	$0.462^{+0.027}_{-0.022}$
$\Omega_{\mathrm{m}}h^2$	0.1403	$0.1406^{+0.0059}_{-0.0046}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.942	$13.92^{+0.20}_{-0.27}$	$\sigma_8(0.51)$	0.6098	$0.613^{+0.032}_{-0.023}$
$\Omega_{\mathrm{m}}h^3$	0.0958	$0.0962^{+0.0061}_{-0.0044}$	z_{drag}	1059.9	$1060.4^{+8.5}_{-6.3}$	$f\sigma_8(0.61)$	0.4559	$0.458^{+0.026}_{-0.021}$
σ_8	0.7923	$0.796^{+0.044}_{-0.031}$	r_{drag}	147.27	$147.1^{+2.6}_{-3.0}$	$\sigma_8(0.61)$	0.5805	$0.583^{+0.031}_{-0.022}$
S_8	0.793	$0.797^{+0.054}_{-0.050}$	k_{D}	0.14351	$0.1432^{+0.0038}_{-0.0046}$	$f\sigma_8(2.33)$	0.2932	$0.294^{+0.015}_{-0.011}$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4344	$0.436^{+0.030}_{-0.027}$	$100\theta_{\mathrm{D}}$	0.1570	$0.1576^{+0.0068}_{-0.0047}$	$\sigma_8(2.33)$	0.3027	$0.304^{+0.016}_{-0.012}$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.5866	$0.589^{+0.034}_{-0.030}$	z_{eq}	3336	3345^{+140}_{-110}	χ_{small}^2	395.52	$396.7 (\nu: 1.1)$
$\sigma_8/h^{0.5}$	0.9586	$0.962^{+0.047}_{-0.043}$	k_{eq}	0.010183	$0.01021^{+0.00043}_{-0.00034}$	χ_{plikEE}^2	738.5	$743.1 (\nu: 4.7)$
$r_{\mathrm{drag}}h$	100.60	$100.6^{+3.0}_{-2.8}$	$100\theta_{\mathrm{eq}}$	0.8252	$0.824^{+0.018}_{-0.020}$	$\chi_{6\mathrm{DF}}^2$	0.000	$0.054 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	2.423	$2.42^{+0.10}_{-0.11}$	$100\theta_{\mathrm{s,eq}}$	0.4549	$0.4544^{+0.0094}_{-0.010}$	χ_{MGS}^2	1.75	$1.84 (\nu: 0.2)$
z_{re}	6.91	$7.0^{+2.1}_{-2.4}$	$H(0.15)$	73.47	$73.6^{+2.5}_{-2.2}$	$\chi_{\mathrm{DR12BAO}}^2$	3.72	$4.5 (\nu: 0.8)$
$10^9 A_{\mathrm{s}}$	2.105	$2.11^{+0.12}_{-0.12}$	$D_{\mathrm{M}}(0.15)$	635.4	635^{+21}_{-22}	χ_{prior}^2	0.00	$0.98 (\nu: 1.0)$
$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.900	$1.902^{+0.066}_{-0.064}$	$H(0.38)$	83.37	$83.5^{+2.4}_{-2.0}$	χ_{BAO}^2	5.47	$6.4 (\nu: 0.8)$
D_{40}	1269	1259^{+110}_{-140}	$D_{\mathrm{M}}(0.38)$	1518.1	1516^{+46}_{-49}	χ_{CMB}^2	1134.0	$1139.8 (\nu: 6.2)$

Best-fit $\chi_{\mathrm{eff}}^2 = 1139.52$; $\bar{\chi}_{\mathrm{eff}}^2 = 1147.22$; $R - 1 = 0.01379$

χ_{eff}^2 : BAO - 6DF: 0.00 MGS: 1.75 DR12BAO: 3.72 CMB - simall_100x143.offlike5_EE_Aplanck_B: 395.52 plik_rd12_HM_v22_EE: 738.52

20.45 base_yhe_plikHM_EE_lowE_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0236^{+0.0038}_{-0.0037}$	D_{40}	1249^{+110}_{-140}	$H(0.38)$	$84.1^{+6.4}_{-5.8}$
$\Omega_{\text{c}}h^2$	$0.116^{+0.014}_{-0.011}$	D_{220}	5966^{+510}_{-500}	$D_{\text{M}}(0.38)$	1505^{+150}_{-140}
$100\theta_{\text{MC}}$	$1.0389^{+0.0073}_{-0.0050}$	D_{810}	2602^{+120}_{-130}	$H(0.51)$	$90.6^{+5.7}_{-5.0}$
τ	$0.056^{+0.019}_{-0.014}$	D_{1420}	853^{+64}_{-76}	$D_{\text{M}}(0.51)$	1952^{+180}_{-160}
Y_{P}	< 0.369	D_{2000}	246^{+30}_{-30}	$H(0.61)$	$96.1^{+5.2}_{-4.4}$
$\ln(10^{10}A_{\text{s}})$	$3.057^{+0.051}_{-0.046}$	$n_{\text{s},0.002}$	$0.971^{+0.066}_{-0.053}$	$D_{\text{M}}(0.61)$	2273^{+200}_{-180}
n_{s}	$0.971^{+0.066}_{-0.053}$	Y_{P}	$0.21^{+0.16}_{-0.12}$	$H(2.33)$	$235.0^{+6.2}_{-5.4}$
y_{cal}	$1.0001^{+0.0066}_{-0.0062}$	$Y_{\text{P}}^{\text{BBN}}$	$0.21^{+0.16}_{-0.12}$	$D_{\text{M}}(2.33)$	5728^{+230}_{-250}
H_0	69^{+8}_{-8}	Age/Gyr	$13.72^{+0.53}_{-0.56}$	$f\sigma_8(0.15)$	$0.438^{+0.086}_{-0.073}$
Ω_{Λ}	$0.704^{+0.074}_{-0.11}$	z_*	$1087.1^{+6.5}_{-5.2}$	$\sigma_8(0.15)$	$0.738^{+0.037}_{-0.037}$
Ω_{m}	$0.296^{+0.11}_{-0.074}$	r_*	$144.6^{+2.2}_{-2.5}$	$f\sigma_8(0.38)$	$0.460^{+0.062}_{-0.060}$
$\Omega_{\text{m}}h^2$	$0.140^{+0.010}_{-0.0090}$	$100\theta_*$	$1.0397^{+0.0030}_{-0.0028}$	$\sigma_8(0.38)$	$0.656^{+0.031}_{-0.027}$
$\Omega_{\text{m}}h^3$	$0.0969^{+0.0084}_{-0.0067}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.91^{+0.22}_{-0.27}$	$f\sigma_8(0.51)$	$0.460^{+0.051}_{-0.052}$
σ_8	$0.797^{+0.045}_{-0.047}$	z_{drag}	1061^{+12}_{-10}	$\sigma_8(0.51)$	$0.614^{+0.029}_{-0.023}$
S_8	$0.79^{+0.18}_{-0.14}$	r_{drag}	$146.9^{+2.5}_{-3.1}$	$f\sigma_8(0.61)$	$0.457^{+0.043}_{-0.046}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.433^{+0.097}_{-0.077}$	k_{D}	$0.1431^{+0.0041}_{-0.0045}$	$\sigma_8(0.61)$	$0.585^{+0.027}_{-0.021}$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.587^{+0.077}_{-0.069}$	$100\theta_{\text{D}}$	$0.1579^{+0.0069}_{-0.0050}$	$f\sigma_8(2.33)$	$0.296^{+0.014}_{-0.010}$
$\sigma_8/h^{0.5}$	$0.96^{+0.11}_{-0.10}$	z_{eq}	3336^{+250}_{-220}	$\sigma_8(2.33)$	$0.306^{+0.016}_{-0.012}$
$r_{\text{drag}}h$	102^{+10}_{-10}	k_{eq}	$0.01018^{+0.00076}_{-0.00066}$	χ_{small}^2	$396.5 (\nu: 0.9)$
$\langle d^2 \rangle^{1/2}$	$2.41^{+0.25}_{-0.23}$	$100\theta_{\text{eq}}$	$0.828^{+0.050}_{-0.054}$	χ_{plikEE}^2	$744.0 (\nu: 5.7)$
z_{re}	< 8.99	$100\theta_{\text{s,eq}}$	$0.456^{+0.024}_{-0.026}$	χ_{prior}^2	$1.0 (\nu: 1.0)$
$10^9 A_{\text{s}}$	$2.13^{+0.11}_{-0.097}$	$H(0.15)$	$74.2^{+7.6}_{-7.3}$	χ_{CMB}^2	$1140.4 (\nu: 6.7)$
$10^9 A_{\text{s}}e^{-2\tau}$	$1.902^{+0.065}_{-0.063}$	$D_{\text{M}}(0.15)$	629^{+80}_{-60}		

$\bar{\chi}_{\text{eff}}^2 = 1141.45; R - 1 = 0.00566$

20.46 base_yhe_plikHM_EE_lowE_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.0233^{+0.0019}_{-0.0019}$	D_{220}	5943^{+390}_{-460}	$H(0.51)$	$90.1^{+2.4}_{-1.9}$
$\Omega_{\text{c}}h^2$	$0.1168^{+0.0055}_{-0.0044}$	D_{810}	2601^{+110}_{-150}	$D_{\text{M}}(0.51)$	1965^{+55}_{-62}
$100\theta_{\text{MC}}$	$1.0386^{+0.0064}_{-0.0045}$	D_{1420}	853^{+62}_{-76}	$H(0.61)$	$95.7^{+2.4}_{-1.8}$
τ	$0.055^{+0.017}_{-0.012}$	D_{2000}	246^{+30}_{-30}	$D_{\text{M}}(0.61)$	2288^{+61}_{-70}
Y_{P}	< 0.355	$n_{\text{s},0.002}$	$0.967^{+0.048}_{-0.039}$	$H(2.33)$	$235.1^{+4.8}_{-3.7}$
$\ln(10^{10}A_{\text{s}})$	$3.056^{+0.052}_{-0.046}$	Y_{P}	$0.20^{+0.16}_{-0.12}$	$D_{\text{M}}(2.33)$	5748^{+100}_{-130}
n_{s}	$0.967^{+0.048}_{-0.039}$	$Y_{\text{P}}^{\text{BBN}}$	$0.20^{+0.16}_{-0.12}$	$f\sigma_8(0.15)$	$0.444^{+0.029}_{-0.025}$
y_{cal}	$1.0001^{+0.0066}_{-0.0060}$	Age/Gyr	$13.76^{+0.25}_{-0.31}$	$\sigma_8(0.15)$	$0.740^{+0.038}_{-0.026}$
H_0	$68.4^{+2.6}_{-2.3}$	z_*	$1087.2^{+6.1}_{-4.3}$	$f\sigma_8(0.38)$	$0.464^{+0.027}_{-0.022}$
Ω_{Λ}	$0.699^{+0.023}_{-0.023}$	r_*	$144.7^{+2.1}_{-2.6}$	$\sigma_8(0.38)$	$0.657^{+0.033}_{-0.022}$
Ω_{m}	$0.301^{+0.023}_{-0.023}$	$100\theta_*$	$1.0396^{+0.0027}_{-0.0024}$	$f\sigma_8(0.51)$	$0.464^{+0.026}_{-0.020}$
$\Omega_{\text{m}}h^2$	$0.1407^{+0.0063}_{-0.0046}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.92^{+0.20}_{-0.27}$	$\sigma_8(0.51)$	$0.615^{+0.031}_{-0.020}$
$\Omega_{\text{m}}h^3$	$0.0963^{+0.0063}_{-0.0045}$	z_{drag}	$1060.5^{+8.8}_{-6.2}$	$f\sigma_8(0.61)$	$0.460^{+0.026}_{-0.019}$
σ_8	$0.800^{+0.042}_{-0.028}$	r_{drag}	$147.1^{+2.6}_{-3.1}$	$\sigma_8(0.61)$	$0.586^{+0.029}_{-0.019}$
S_8	$0.800^{+0.055}_{-0.047}$	k_{D}	$0.1431^{+0.0039}_{-0.0051}$	$f\sigma_8(2.33)$	$0.296^{+0.015}_{-0.0099}$
$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.438^{+0.030}_{-0.026}$	$100\theta_{\text{D}}$	$0.1578^{+0.0069}_{-0.0049}$	$\sigma_8(2.33)$	$0.305^{+0.015}_{-0.010}$
$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.592^{+0.034}_{-0.027}$	z_{eq}	3348^{+150}_{-110}	χ_{small}^2	$396.5 (\nu: 1.0)$
$\sigma_8/h^{0.5}$	$0.967^{+0.046}_{-0.038}$	k_{eq}	$0.01022^{+0.00046}_{-0.00034}$	χ_{plikEE}^2	$743.1 (\nu: 4.7)$
$r_{\text{drag}}h$	$100.6^{+3.0}_{-2.8}$	$100\theta_{\text{eq}}$	$0.824^{+0.018}_{-0.020}$	$\chi_{6\text{DF}}^2$	$0.054 (\nu: 0.0)$
$\langle d^2 \rangle^{1/2}$	$2.425^{+0.098}_{-0.10}$	$100\theta_{\text{s,eq}}$	$0.4542^{+0.0096}_{-0.011}$	χ_{MGS}^2	$1.85 (\nu: 0.2)$
z_{re}	< 8.98	$H(0.15)$	$73.6^{+2.5}_{-2.2}$	χ_{DR12BAO}^2	$4.5 (\nu: 0.8)$
10^9A_{s}	$2.12^{+0.11}_{-0.096}$	$D_{\text{M}}(0.15)$	634^{+21}_{-22}	χ_{prior}^2	$1.0 (\nu: 1.0)$
$10^9A_{\text{s}}e^{-2\tau}$	$1.901^{+0.066}_{-0.065}$	$H(0.38)$	$83.5^{+2.5}_{-2.0}$	χ_{BAO}^2	$6.4 (\nu: 0.8)$
D_{40}	1256^{+100}_{-140}	$D_{\text{M}}(0.38)$	1516^{+45}_{-49}	χ_{CMB}^2	$1139.6 (\nu: 5.7)$
$\bar{\chi}_{\text{eff}}^2 = 1146.96; R - 1 = 0.01420$					

20.47 base_yhe_plikHM_TT_lowl_lowE_Aver15

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\text{b}}h^2$	$0.02209^{+0.00056}_{-0.00056}$	$\sigma_8\Omega_{\text{m}}^{0.5}$	$0.460^{+0.035}_{-0.033}$	$H(0.15)$	$72.2^{+2.1}_{-2.0}$
$\Omega_{\text{c}}h^2$	$0.1207^{+0.0055}_{-0.0055}$	$\sigma_8\Omega_{\text{m}}^{0.25}$	$0.611^{+0.030}_{-0.030}$	$D_{\text{M}}(0.15)$	648^{+21}_{-20}
$100\theta_{\text{MC}}$	$1.0407^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.993^{+0.041}_{-0.042}$	$H(0.38)$	$82.5^{+1.5}_{-1.4}$
τ	$0.052^{+0.023}_{-0.023}$	$r_{\text{drag}}h$	$98.4^{+4.3}_{-4.2}$	$D_{\text{M}}(0.38)$	1543^{+42}_{-41}
Y_{P}	$0.2437^{+0.0099}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.455^{+0.098}_{-0.096}$	$H(0.51)$	$89.3^{+1.2}_{-1.1}$
$\ln(10^{10}A_{\text{s}})$	$3.040^{+0.045}_{-0.045}$	z_{re}	$7.5^{+2.2}_{-2.5}$	$D_{\text{M}}(0.51)$	1997^{+49}_{-48}
n_{s}	$0.962^{+0.015}_{-0.016}$	$10^9 A_{\text{s}}$	$2.091^{+0.095}_{-0.092}$	$H(0.61)$	$94.98^{+0.96}_{-0.88}$
y_{cal}	$1.0005^{+0.0064}_{-0.0064}$	$10^9 A_{\text{s}}e^{-2\tau}$	$1.884^{+0.035}_{-0.035}$	$D_{\text{M}}(0.61)$	2323^{+53}_{-51}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1235^{+41}_{-38}	$H(2.33)$	$236.7^{+3.3}_{-3.3}$
$\xi^{\text{tSZ} \times \text{CIB}}$	—	D_{220}	5712^{+100}_{-110}	$D_{\text{M}}(2.33)$	5779^{+43}_{-43}
A_{143}^{tSZ}	—	D_{810}	2536^{+36}_{-35}	$f\sigma_8(0.15)$	$0.464^{+0.032}_{-0.031}$
A_{100}^{PS}	263^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.749^{+0.020}_{-0.020}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.7^{+4.6}_{-4.6}$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.025}$
$A_{143 \times 217}^{\text{PS}}$	44^{+20}_{-20}	$n_{\text{s},0.002}$	$0.962^{+0.015}_{-0.016}$	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.016}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.2437^{+0.0099}_{-0.010}$	$f\sigma_8(0.51)$	$0.477^{+0.021}_{-0.022}$
A^{kSZ}	—	$Y_{\text{P}}^{\text{BBN}}$	$0.2450^{+0.0099}_{-0.010}$	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.015}$
A_{100}^{dustTT}	$8.9^{+4.8}_{-4.7}$	Age/Gyr	$13.833^{+0.097}_{-0.097}$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.019}$
A_{143}^{dustTT}	$10.7^{+4.6}_{-4.6}$	z_*	$1090.3^{+1.1}_{-1.1}$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\text{dustTT}}$	$18.3^{+8.6}_{-8.4}$	r_*	$144.5^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	$0.2969^{+0.0070}_{-0.0070}$
A_{217}^{dustTT}	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.3057^{+0.0074}_{-0.0074}$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	$D_{\text{M}}(z_*)/\text{Gpc}$	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	31^{+8}_{-7}
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	z_{drag}	$1059.3^{+1.3}_{-1.3}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
H_0	$66.8^{+2.4}_{-2.4}$	r_{drag}	$147.2^{+1.3}_{-1.2}$	f_{2000}^{217}	$108.0^{+5.0}_{-4.9}$
Ω_{Λ}	$0.679^{+0.033}_{-0.036}$	k_{D}	$0.1406^{+0.0014}_{-0.0014}$	χ_{simall}^2	$397.0 \ (\nu: 1.5)$
Ω_{m}	$0.321^{+0.036}_{-0.033}$	$100\theta_{\text{D}}$	$0.16103^{+0.00078}_{-0.00074}$	χ_{lowl}^2	$24.0 \ (\nu: 0.9)$
$\Omega_{\text{m}}h^2$	$0.1434^{+0.0052}_{-0.0052}$	z_{eq}	3412^{+130}_{-120}	χ_{plik}^2	$771.3 \ (\nu: 15.0)$
$\Omega_{\text{m}}h^3$	$0.0958^{+0.0012}_{-0.0012}$	k_{eq}	$0.01041^{+0.00038}_{-0.00038}$	χ_{Aver15}^2	$0.98 \ (\nu: 1.0)$
σ_8	$0.812^{+0.023}_{-0.024}$	$100\theta_{\text{eq}}$	$0.811^{+0.024}_{-0.023}$	χ_{prior}^2	$7.3 \ (\nu: 6.7)$
S_8	$0.840^{+0.063}_{-0.061}$	$100\theta_{\text{s,eq}}$	$0.448^{+0.012}_{-0.012}$	χ_{CMB}^2	$1192.2 \ (\nu: 15.5)$

$\bar{\chi}_{\text{eff}}^2 = 1200.47; R - 1 = 0.00717$

20.48 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02219^{+0.00051}_{-0.00048}$	$\sigma_8/h^{0.5}$	$0.982^{+0.031}_{-0.030}$	$H(0.51)$	$89.63^{+0.74}_{-0.73}$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0032}_{-0.0031}$	$r_{\mathrm{drag}} h$	$99.7^{+2.4}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1982^{+28}_{-28}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.429^{+0.074}_{-0.069}$	$H(0.61)$	$95.24^{+0.64}_{-0.62}$
τ	$0.054^{+0.024}_{-0.022}$	z_{re}	$7.6^{+2.2}_{-2.4}$	$D_{\mathrm{M}}(0.61)$	2307^{+31}_{-30}
Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$10^9 A_{\mathrm{s}}$	$2.09^{+0.10}_{-0.089}$	$H(2.33)$	$235.7^{+2.1}_{-2.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.047}_{-0.044}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5768^{+31}_{-31}
n_{s}	$0.966^{+0.012}_{-0.011}$	D_{40}	1226^{+33}_{-32}	$f\sigma_8(0.15)$	$0.454^{+0.020}_{-0.020}$
y_{cal}	$1.0005^{+0.0061}_{-0.0063}$	D_{220}	5719^{+100}_{-98}	$\sigma_8(0.15)$	$0.746^{+0.019}_{-0.019}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2535^{+33}_{-34}	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.017}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	816^{+12}_{-12}	$\sigma_8(0.38)$	$0.661^{+0.016}_{-0.016}$
A_{143}^{tSZ}	—	D_{2000}	$230.0^{+4.5}_{-4.6}$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.015}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.011}$	$\sigma_8(0.51)$	$0.619^{+0.015}_{-0.015}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.014}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0098}_{-0.010}$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.810^{+0.070}_{-0.073}$	$f\sigma_8(2.33)$	$0.2970^{+0.0072}_{-0.0068}$
A^{kSZ}	—	z_*	$1090.01^{+0.82}_{-0.80}$	$\sigma_8(2.33)$	$0.3063^{+0.0076}_{-0.0075}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.7}$	r_*	$144.84^{+0.84}_{-0.83}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.6}_{-4.8}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.8}_{-8.2}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.911^{+0.079}_{-0.082}$	f_{2000}^{217}	$107.8^{+5.0}_{-4.8}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.2}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.57^{+0.91}_{-0.92}$	χ_{lowl}^2	$23.15 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1403^{+0.0012}_{-0.0012}$	χ_{plik}^2	$772.1 (\nu: 14.5)$
H_0	$67.6^{+1.4}_{-1.4}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00079}_{-0.00074}$	χ_{Aver15}^2	$0.98 (\nu: 1.0)$
Ω_{Λ}	$0.689^{+0.018}_{-0.019}$	z_{eq}	3373^{+74}_{-74}	$\chi_{6\mathrm{DF}}^2$	$0.060 (\nu: 0.0)$
Ω_{m}	$0.311^{+0.019}_{-0.018}$	k_{eq}	$0.01030^{+0.00023}_{-0.00023}$	χ_{MGS}^2	$1.34 (\nu: 0.1)$
$\Omega_{\mathrm{m}} h^2$	$0.1418^{+0.0031}_{-0.0031}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.013}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.3)$
$\Omega_{\mathrm{m}} h^3$	$0.0958^{+0.0012}_{-0.0011}$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0071}_{-0.0070}$	χ_{prior}^2	$7.2 (\nu: 6.3)$
σ_8	$0.807^{+0.021}_{-0.021}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.821^{+0.039}_{-0.038}$	$D_{\mathrm{M}}(0.15)$	642^{+12}_{-11}	χ_{CMB}^2	$1192.3 (\nu: 14.5)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.021}_{-0.021}$	$H(0.38)$	$82.94^{+0.90}_{-0.89}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.021}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1530^{+24}_{-24}		

 $\bar{\chi}_{\mathrm{eff}}^2 = 1206.67; R - 1 = 0.01453$

20.49 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02212^{+0.00053}_{-0.00055}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.019}_{-0.020}$	$H(0.38)$	$82.6^{+1.1}_{-1.2}$
$\Omega_{\mathrm{c}} h^2$	$0.1202^{+0.0041}_{-0.0041}$	$\sigma_8 / h^{0.5}$	$0.990^{+0.026}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1540^{+32}_{-31}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0013}_{-0.0012}$	$r_{\mathrm{drag}} h$	$98.7^{+3.1}_{-3.1}$	$H(0.51)$	$89.37^{+0.92}_{-0.93}$
τ	$0.052^{+0.023}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.063}_{-0.064}$	$D_{\mathrm{M}}(0.51)$	1994^{+38}_{-37}
Y_{P}	$0.2437^{+0.0097}_{-0.010}$	z_{re}	$7.5^{+2.2}_{-2.4}$	$H(0.61)$	$95.04^{+0.76}_{-0.77}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.039^{+0.041}_{-0.039}$	$10^9 A_{\mathrm{s}}$	$2.090^{+0.087}_{-0.080}$	$D_{\mathrm{M}}(0.61)$	2319^{+41}_{-39}
n_{s}	$0.963^{+0.013}_{-0.013}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.882^{+0.031}_{-0.030}$	$H(2.33)$	$236.5^{+2.5}_{-2.5}$
y_{cal}	$1.0005^{+0.0061}_{-0.0065}$	D_{40}	1233^{+34}_{-33}	$D_{\mathrm{M}}(2.33)$	5777^{+38}_{-37}
A_{217}^{CIB}	48^{+20}_{-20}	D_{220}	5715^{+100}_{-100}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{810}	2536^{+34}_{-34}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014}$
A_{143}^{tSZ}	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.016}$
A_{100}^{PS}	263^{+70}_{-70}	D_{2000}	$229.8^{+4.6}_{-4.6}$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.012}$
A_{143}^{PS}	49^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.963^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	Y_{P}	$0.2437^{+0.0097}_{-0.010}$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.012}$
A_{217}^{PS}	115^{+30}_{-30}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2450^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.013}$
A^{kSZ}	—	Age/Gyr	$13.828^{+0.084}_{-0.083}$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.7}_{-4.7}$	z_*	$1090.20^{+0.94}_{-0.89}$	$f\sigma_8(2.33)$	$0.2968^{+0.0065}_{-0.0063}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.8}$	r_*	$144.57^{+0.97}_{-0.97}$	$\sigma_8(2.33)$	$0.3057^{+0.0074}_{-0.0070}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.6}_{-8.2}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.887^{+0.091}_{-0.091}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	z_{drag}	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	$108.0^{+5.0}_{-4.7}$
c_{217}	$0.9982^{+0.0015}_{-0.0017}$	r_{drag}	$147.3^{+1.0}_{-1.0}$	$\chi_{\mathrm{lensing}}^2$	$9.45 (\nu: 0.4)$
H_0	$67.0^{+1.8}_{-1.8}$	k_{D}	$0.1405^{+0.0012}_{-0.0012}$	χ_{simall}^2	$396.9 (\nu: 1.3)$
Ω_{Λ}	$0.681^{+0.024}_{-0.027}$	$100\theta_{\mathrm{D}}$	$0.16102^{+0.00078}_{-0.00072}$	χ_{lowl}^2	$23.8 (\nu: 0.6)$
Ω_{m}	$0.319^{+0.027}_{-0.024}$	z_{eq}	3402^{+95}_{-93}	χ_{plik}^2	$771.1 (\nu: 13.8)$
$\Omega_{\mathrm{m}} h^2$	$0.1430^{+0.0040}_{-0.0039}$	k_{eq}	$0.01038^{+0.00029}_{-0.00028}$	χ_{Aver15}^2	$0.97 (\nu: 0.9)$
$\Omega_{\mathrm{m}} h^3$	$0.0958^{+0.0012}_{-0.0012}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.018}_{-0.017}$	χ_{prior}^2	$7.2 (\nu: 6.5)$
σ_8	$0.810^{+0.016}_{-0.017}$	$100\theta_{\mathrm{s,eq}}$	$0.4492^{+0.0091}_{-0.0089}$	χ_{CMB}^2	$1201.2 (\nu: 15.3)$
S_8	$0.835^{+0.042}_{-0.041}$	$H(0.15)$	$72.4^{+1.6}_{-1.6}$		
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$D_{\mathrm{M}}(0.15)$	646^{+16}_{-15}		
$\bar{\chi}_{\mathrm{eff}}^2 = 1209.34; R - 1 = 0.01600$					

20.50 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00051}_{-0.00048}$	$\sigma_8/h^{0.5}$	$0.984^{+0.023}_{-0.023}$	$H(0.51)$	$89.61^{+0.68}_{-0.70}$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0028}_{-0.0029}$	$r_{\mathrm{drag}}h$	$99.6^{+2.2}_{-2.1}$	$D_{\mathrm{M}}(0.51)$	1984^{+26}_{-26}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.055}_{-0.055}$	$H(0.61)$	$95.22^{+0.60}_{-0.60}$
τ	$0.055^{+0.022}_{-0.019}$	z_{re}	$7.8^{+2.1}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2308^{+28}_{-28}
Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$10^9 A_{\mathrm{s}}$	$2.098^{+0.089}_{-0.076}$	$H(2.33)$	$235.8^{+1.9}_{-1.8}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.043^{+0.042}_{-0.037}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(2.33)$	5769^{+30}_{-30}
n_{s}	$0.966^{+0.011}_{-0.011}$	D_{40}	1228^{+31}_{-30}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
y_{cal}	$1.0006^{+0.0060}_{-0.0063}$	D_{220}	5723^{+100}_{-97}	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{810}	2537^{+33}_{-34}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	816^{+12}_{-12}	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012}$
A_{143}^{tSZ}	—	D_{2000}	$230.1^{+4.4}_{-4.4}$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.012}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2453^{+0.0098}_{-0.010}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.811^{+0.069}_{-0.069}$	$f\sigma_8(2.33)$	$0.2975^{+0.0064}_{-0.0058}$
A^{kSZ}	—	z_*	$1090.02^{+0.80}_{-0.79}$	$\sigma_8(2.33)$	$0.3067^{+0.0068}_{-0.0061}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.7}$	r_*	$144.80^{+0.75}_{-0.75}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143}^{\mathrm{dust}TT}$	$10.7^{+4.5}_{-4.8}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.3^{+8.8}_{-8.1}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.907^{+0.075}_{-0.075}$	f_{2000}^{217}	$107.8^{+4.8}_{-4.7}$
$A_{217}^{\mathrm{dust}TT}$	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.25 (\nu: 0.3)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.53^{+0.84}_{-0.86}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1403^{+0.0012}_{-0.0011}$	χ_{lowl}^2	$23.30 (\nu: 0.4)$
H_0	$67.5^{+1.3}_{-1.3}$	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00080}_{-0.00074}$	χ_{plik}^2	$771.5 (\nu: 13.5)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017}$	z_{eq}	3377^{+67}_{-67}	χ_{Aver15}^2	$0.98 (\nu: 0.9)$
Ω_{m}	$0.311^{+0.017}_{-0.016}$	k_{eq}	$0.01031^{+0.00020}_{-0.00020}$	$\chi_{6\mathrm{DF}}^2$	$0.060 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0028}_{-0.0028}$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.013}_{-0.012}$	χ_{MGS}^2	$1.27 (\nu: 0.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0066}_{-0.0063}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.2)$
σ_8	$0.809^{+0.016}_{-0.016}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$	χ_{prior}^2	$7.2 (\nu: 6.3)$
S_8	$0.824^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	642^{+11}_{-11}	χ_{CMB}^2	$1201.2 (\nu: 14.5)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$H(0.38)$	$82.90^{+0.83}_{-0.84}$	χ_{BAO}^2	$6.2 (\nu: 0.8)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.38)$	1531^{+22}_{-22}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 1215.53; R - 1 = 0.02107$$

20.51 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02210^{+0.00056}_{-0.00056}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.460^{+0.035}_{-0.033}$	$H(0.15)$	$72.3^{+2.0}_{-2.0}$
$\Omega_{\mathrm{c}}h^2$	$0.1206^{+0.0054}_{-0.0054}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.611^{+0.030}_{-0.030}$	$D_{\mathrm{M}}(0.15)$	648^{+21}_{-20}
$100\theta_{\mathrm{MC}}$	$1.0408^{+0.0013}_{-0.0013}$	$\sigma_8/h^{0.5}$	$0.994^{+0.041}_{-0.041}$	$H(0.38)$	$82.5^{+1.5}_{-1.4}$
τ	$0.054^{+0.019}_{-0.013}$	$r_{\mathrm{drag}}h$	$98.5^{+4.2}_{-4.1}$	$D_{\mathrm{M}}(0.38)$	1542^{+42}_{-40}
Y_{P}	$0.2437^{+0.0099}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.457^{+0.097}_{-0.095}$	$H(0.51)$	$89.3^{+1.2}_{-1.1}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.043^{+0.042}_{-0.030}$	z_{re}	< 9.47	$D_{\mathrm{M}}(0.51)$	1996^{+48}_{-47}
n_{s}	$0.962^{+0.015}_{-0.016}$	$10^9 A_{\mathrm{s}}$	$2.097^{+0.090}_{-0.062}$	$H(0.61)$	$95.00^{+0.95}_{-0.88}$
y_{cal}	$1.0005^{+0.0062}_{-0.0063}$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.035}_{-0.034}$	$D_{\mathrm{M}}(0.61)$	2322^{+52}_{-51}
A_{217}^{CIB}	48^{+20}_{-20}	D_{40}	1234^{+40}_{-38}	$H(2.33)$	$236.7^{+3.3}_{-3.3}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	D_{220}	5712^{+100}_{-110}	$D_{\mathrm{M}}(2.33)$	5778^{+42}_{-43}
A_{143}^{tSZ}	—	D_{810}	2536^{+34}_{-35}	$f\sigma_8(0.15)$	$0.464^{+0.032}_{-0.031}$
A_{100}^{PS}	262^{+70}_{-70}	D_{1420}	815^{+13}_{-13}	$\sigma_8(0.15)$	$0.750^{+0.019}_{-0.018}$
A_{143}^{PS}	49^{+20}_{-20}	D_{2000}	$229.8^{+4.6}_{-4.6}$	$f\sigma_8(0.38)$	$0.480^{+0.024}_{-0.025}$
$A_{143\times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$n_{\mathrm{s},0.002}$	$0.962^{+0.015}_{-0.016}$	$\sigma_8(0.38)$	$0.664^{+0.016}_{-0.013}$
A_{217}^{PS}	115^{+30}_{-30}	Y_{P}	$0.2437^{+0.0099}_{-0.010}$	$f\sigma_8(0.51)$	$0.478^{+0.021}_{-0.021}$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.010}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.012}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.7}$	Age/Gyr	$13.832^{+0.096}_{-0.096}$	$f\sigma_8(0.61)$	$0.472^{+0.018}_{-0.019}$
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.6}$	z_*	$1090.3^{+1.1}_{-1.1}$	$\sigma_8(0.61)$	$0.590^{+0.013}_{-0.011}$
$A_{143\times 217}^{\mathrm{dustTT}}$	$18.3^{+8.6}_{-8.4}$	r_*	$144.5^{+1.3}_{-1.2}$	$f\sigma_8(2.33)$	$0.2974^{+0.0066}_{-0.0049}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	$100\theta_*$	$1.0410^{+0.0012}_{-0.0012}$	$\sigma_8(2.33)$	$0.3062^{+0.0071}_{-0.0049}$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.88^{+0.12}_{-0.11}$	f_{2000}^{143}	31^{+8}_{-7}
c_{217}	$0.9983^{+0.0016}_{-0.0017}$	z_{drag}	$1059.3^{+1.2}_{-1.3}$	$f_{2000}^{143\times 217}$	33^{+5}_{-5}
H_0	$66.9^{+2.4}_{-2.4}$	r_{drag}	$147.2^{+1.3}_{-1.2}$	f_{2000}^{217}	$108.0^{+4.9}_{-4.9}$
Ω_{Λ}	$0.679^{+0.032}_{-0.035}$	k_{D}	$0.1406^{+0.0014}_{-0.0014}$	χ_{simall}^2	$396.8\ (\nu: 1.5)$
Ω_{m}	$0.321^{+0.035}_{-0.032}$	$100\theta_{\mathrm{D}}$	$0.16103^{+0.00079}_{-0.00075}$	χ_{lowl}^2	$24.0\ (\nu: 0.9)$
$\Omega_{\mathrm{m}}h^2$	$0.1433^{+0.0051}_{-0.0052}$	z_{eq}	3410^{+120}_{-120}	χ_{plik}^2	$771.1\ (\nu: 14.8)$
$\Omega_{\mathrm{m}}h^3$	$0.0958^{+0.0012}_{-0.0012}$	k_{eq}	$0.01041^{+0.00037}_{-0.00038}$	χ_{Aver15}^2	$0.98\ (\nu: 1.0)$
σ_8	$0.813^{+0.023}_{-0.022}$	$100\theta_{\mathrm{eq}}$	$0.811^{+0.024}_{-0.022}$	χ_{prior}^2	$7.2\ (\nu: 6.7)$
S_8	$0.840^{+0.063}_{-0.061}$	$100\theta_{\mathrm{s,eq}}$	$0.448^{+0.012}_{-0.012}$	χ_{CMB}^2	$1191.9\ (\nu: 14.8)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 1200.15; R - 1 = 0.00690$$

20.52 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00051}_{-0.00049}$	$\sigma_8/h^{0.5}$	$0.983^{+0.031}_{-0.029}$	$H(0.51)$	$89.64^{+0.74}_{-0.74}$
$\Omega_{\mathrm{c}}h^2$	$0.1189^{+0.0032}_{-0.0030}$	$r_{\mathrm{drag}}h$	$99.8^{+2.4}_{-2.4}$	$D_{\mathrm{M}}(0.51)$	1982^{+28}_{-28}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0011}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.431^{+0.073}_{-0.066}$	$H(0.61)$	$95.25^{+0.64}_{-0.62}$
τ	$0.055^{+0.020}_{-0.014}$	z_{re}	< 9.66	$D_{\mathrm{M}}(0.61)$	2307^{+31}_{-30}
Y_{P}	$0.2441^{+0.0097}_{-0.010}$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.090}_{-0.069}$	$H(2.33)$	$235.7^{+2.0}_{-2.1}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.042^{+0.046}_{-0.031}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.029}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5768^{+31}_{-31}
n_{s}	$0.966^{+0.012}_{-0.011}$	D_{40}	1226^{+33}_{-32}	$f\sigma_8(0.15)$	$0.455^{+0.020}_{-0.019}$
y_{cal}	$1.0005^{+0.0060}_{-0.0065}$	D_{220}	5719^{+100}_{-96}	$\sigma_8(0.15)$	$0.747^{+0.019}_{-0.015}$
A_{217}^{CIB}	48^{+20}_{-20}	D_{810}	2535^{+33}_{-34}	$f\sigma_8(0.38)$	$0.473^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	815^{+12}_{-12}	$\sigma_8(0.38)$	$0.662^{+0.016}_{-0.012}$
A_{143}^{tSZ}	—	D_{2000}	$230.0^{+4.4}_{-4.7}$	$f\sigma_8(0.51)$	$0.472^{+0.016}_{-0.014}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.966^{+0.012}_{-0.011}$	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.011}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.2441^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.467^{+0.014}_{-0.013}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2454^{+0.0097}_{-0.010}$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.010}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.809^{+0.070}_{-0.073}$	$f\sigma_8(2.33)$	$0.2973^{+0.0070}_{-0.0051}$
A^{kSZ}	—	z_*	$1090.00^{+0.82}_{-0.81}$	$\sigma_8(2.33)$	$0.3066^{+0.0073}_{-0.0052}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.9}_{-4.7}$	r_*	$144.85^{+0.84}_{-0.82}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.6}_{-4.8}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.8}_{-8.2}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.911^{+0.082}_{-0.082}$	f_{2000}^{217}	$107.8^{+4.8}_{-4.8}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.2}$	χ_{simall}^2	$397.0 (\nu: 1.8)$
c_{100}	$0.9996^{+0.0016}_{-0.0016}$	r_{drag}	$147.57^{+0.90}_{-0.91}$	χ_{lowl}^2	$23.16 (\nu: 0.4)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1403^{+0.0012}_{-0.0012}$	χ_{plik}^2	$771.9 (\nu: 14.3)$
H_0	$67.6^{+1.4}_{-1.4}$	$100\theta_{\mathrm{D}}$	$0.16100^{+0.00079}_{-0.00075}$	χ_{Aver15}^2	$0.97 (\nu: 1.0)$
Ω_{Λ}	$0.690^{+0.017}_{-0.019}$	z_{eq}	3373^{+74}_{-73}	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
Ω_{m}	$0.310^{+0.019}_{-0.017}$	k_{eq}	$0.01029^{+0.00023}_{-0.00022}$	χ_{MGS}^2	$1.35 (\nu: 0.1)$
$\Omega_{\mathrm{m}}h^2$	$0.1418^{+0.0031}_{-0.0031}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.014}_{-0.013}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.3)$
$\Omega_{\mathrm{m}}h^3$	$0.0958^{+0.0012}_{-0.0012}$	$100\theta_{\mathrm{s,eq}}$	$0.4521^{+0.0071}_{-0.0070}$	χ_{prior}^2	$7.2 (\nu: 6.3)$
σ_8	$0.808^{+0.021}_{-0.019}$	$H(0.15)$	$72.9^{+1.2}_{-1.2}$	χ_{BAO}^2	$6.2 (\nu: 0.9)$
S_8	$0.822^{+0.039}_{-0.038}$	$D_{\mathrm{M}}(0.15)$	641^{+12}_{-11}	χ_{CMB}^2	$1192.1 (\nu: 14.1)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.021}_{-0.021}$	$H(0.38)$	$82.95^{+0.89}_{-0.89}$		
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.021}_{-0.020}$	$D_{\mathrm{M}}(0.38)$	1530^{+24}_{-23}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1206.42$; $R - 1 = 0.01542$

20.53 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\rm b} h^2$	$0.02213^{+0.00053}_{-0.00052}$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.609^{+0.019}_{-0.020}$	$H(0.38)$	$82.6^{+1.1}_{-1.1}$
$\Omega_{\rm c} h^2$	$0.1201^{+0.0039}_{-0.0039}$	$\sigma_8/h^{0.5}$	$0.990^{+0.026}_{-0.027}$	$D_{\rm M}(0.38)$	1539^{+31}_{-30}
$100\theta_{\rm MC}$	$1.0408^{+0.0012}_{-0.0012}$	$r_{\rm drag} h$	$98.8^{+3.1}_{-3.0}$	$H(0.51)$	$89.40^{+0.89}_{-0.87}$
τ	$0.054^{+0.019}_{-0.013}$	$\langle d^2 \rangle^{1/2}$	$2.449^{+0.063}_{-0.065}$	$D_{\rm M}(0.51)$	1993^{+36}_{-35}
$Y_{\rm P}$	$0.2437^{+0.0097}_{-0.010}$	$z_{\rm re}$	< 9.39	$H(0.61)$	$95.06^{+0.75}_{-0.73}$
$\ln(10^{10} A_{\rm s})$	$3.042^{+0.040}_{-0.027}$	$10^9 A_{\rm s}$	$2.095^{+0.086}_{-0.056}$	$D_{\rm M}(0.61)$	2318^{+38}_{-38}
$n_{\rm s}$	$0.963^{+0.013}_{-0.013}$	$10^9 A_{\rm s} e^{-2\tau}$	$1.881^{+0.030}_{-0.029}$	$H(2.33)$	$236.4^{+2.4}_{-2.4}$
$y_{\rm cal}$	$1.0005^{+0.0061}_{-0.0064}$	D_{40}	1232^{+33}_{-33}	$D_{\rm M}(2.33)$	5776^{+36}_{-36}
$A_{217}^{\rm CIB}$	48^{+20}_{-20}	D_{220}	5715^{+100}_{-100}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$\xi^{\rm tSZ \times CIB}$	—	D_{810}	2536^{+33}_{-34}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.013}$
$A_{143}^{\rm tSZ}$	—	D_{1420}	815^{+13}_{-13}	$f\sigma_8(0.38)$	$0.478^{+0.016}_{-0.017}$
$A_{100}^{\rm PS}$	263^{+70}_{-70}	D_{2000}	$229.8^{+4.5}_{-4.6}$	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010}$
$A_{143}^{\rm PS}$	49^{+20}_{-20}	$n_{\rm s,0.002}$	$0.963^{+0.013}_{-0.013}$	$f\sigma_8(0.51)$	$0.476^{+0.013}_{-0.014}$
$A_{143 \times 217}^{\rm PS}$	43^{+20}_{-20}	$Y_{\rm P}$	$0.2437^{+0.0097}_{-0.010}$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0092}$
$A_{217}^{\rm PS}$	115^{+30}_{-30}	$Y_{\rm P}^{\rm BBN}$	$0.2450^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.470^{+0.012}_{-0.013}$
$A^{\rm kSZ}$	—	Age/Gyr	$13.826^{+0.081}_{-0.082}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0087}$
$A_{100}^{\rm dustTT}$	$8.9^{+4.7}_{-4.7}$	z_*	$1090.18^{+0.93}_{-0.87}$	$f\sigma_8(2.33)$	$0.2972^{+0.0063}_{-0.0044}$
$A_{143}^{\rm dustTT}$	$10.7^{+4.6}_{-4.7}$	r_*	$144.60^{+0.95}_{-0.94}$	$\sigma_8(2.33)$	$0.3062^{+0.0071}_{-0.0048}$
$A_{143 \times 217}^{\rm dustTT}$	$18.3^{+8.6}_{-8.1}$	$100\theta_*$	$1.0410^{+0.0012}_{-0.0011}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{217}^{\rm dustTT}$	93^{+20}_{-20}	$D_{\rm M}(z_*)/\text{Gpc}$	$13.890^{+0.091}_{-0.088}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	$z_{\rm drag}$	$1059.3^{+1.2}_{-1.3}$	f_{2000}^{217}	$107.9^{+4.9}_{-4.7}$
c_{217}	$0.9983^{+0.0015}_{-0.0017}$	$r_{\rm drag}$	$147.3^{+1.0}_{-1.0}$	$\chi_{\rm lensing}^2$	$9.43 \, (\nu: 0.4)$
H_0	$67.1^{+1.8}_{-1.8}$	$k_{\rm D}$	$0.1405^{+0.0012}_{-0.0012}$	$\chi_{\rm simall}^2$	$396.8 \, (\nu: 1.3)$
Ω_{Λ}	$0.682^{+0.023}_{-0.025}$	$100\theta_{\rm D}$	$0.16101^{+0.00078}_{-0.00072}$	$\chi_{\rm lowl}^2$	$23.7 \, (\nu: 0.5)$
$\Omega_{\rm m}$	$0.318^{+0.025}_{-0.023}$	$z_{\rm eq}$	3399^{+91}_{-92}	$\chi_{\rm plik}^2$	$770.9 \, (\nu: 13.8)$
$\Omega_{\rm m} h^2$	$0.1429^{+0.0038}_{-0.0038}$	$k_{\rm eq}$	$0.01037^{+0.00028}_{-0.00028}$	$\chi_{\rm Aver15}^2$	$0.97 \, (\nu: 0.9)$
$\Omega_{\rm m} h^3$	$0.0958^{+0.0012}_{-0.0012}$	$100\theta_{\rm eq}$	$0.813^{+0.017}_{-0.016}$	$\chi_{\rm prior}^2$	$7.2 \, (\nu: 6.5)$
σ_8	$0.811^{+0.016}_{-0.015}$	$100\theta_{\rm s,eq}$	$0.4495^{+0.0090}_{-0.0085}$	$\chi_{\rm CMB}^2$	$1200.9 \, (\nu: 14.9)$
S_8	$0.834^{+0.042}_{-0.041}$	$H(0.15)$	$72.4^{+1.5}_{-1.5}$		
$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.457^{+0.023}_{-0.023}$	$D_{\rm M}(0.15)$	646^{+15}_{-15}		

$\bar{\chi}_{\rm eff}^2 = 1209.04; R - 1 = 0.01844$

20.54 base_yhe_plikHM_TT_lowl_lowE_Aver15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02219^{+0.00051}_{-0.00048}$	$\sigma_8/h^{0.5}$	$0.985^{+0.023}_{-0.023}$	$H(0.51)$	$89.62^{+0.68}_{-0.69}$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0028}_{-0.0028}$	$r_{\mathrm{drag}}h$	$99.7^{+2.2}_{-2.1}$	$D_{\mathrm{M}}(0.51)$	1983^{+26}_{-26}
$100\theta_{\mathrm{MC}}$	$1.0410^{+0.0012}_{-0.0011}$	$\langle d^2 \rangle^{1/2}$	$2.436^{+0.055}_{-0.054}$	$H(0.61)$	$95.23^{+0.59}_{-0.59}$
τ	$0.056^{+0.020}_{-0.015}$	z_{re}	< 9.63	$D_{\mathrm{M}}(0.61)$	2308^{+28}_{-28}
Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$10^9 A_{\mathrm{s}}$	$2.100^{+0.088}_{-0.060}$	$H(2.33)$	$235.8^{+1.8}_{-1.8}$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.041}_{-0.029}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.026}_{-0.027}$	$D_{\mathrm{M}}(2.33)$	5769^{+30}_{-30}
n_{s}	$0.966^{+0.011}_{-0.011}$	D_{40}	1228^{+31}_{-30}	$f\sigma_8(0.15)$	$0.456^{+0.016}_{-0.016}$
y_{cal}	$1.0006^{+0.0060}_{-0.0064}$	D_{220}	5722^{+100}_{-97}	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.013}$
A_{217}^{CIB}	47^{+20}_{-20}	D_{810}	2536^{+33}_{-34}	$f\sigma_8(0.38)$	$0.474^{+0.013}_{-0.013}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	D_{1420}	816^{+12}_{-12}	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.010}$
A_{143}^{tSZ}	—	D_{2000}	$230.1^{+4.4}_{-4.4}$	$f\sigma_8(0.51)$	$0.473^{+0.012}_{-0.012}$
A_{100}^{PS}	262^{+70}_{-70}	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011}$	$\sigma_8(0.51)$	$0.620^{+0.013}_{-0.0097}$
A_{143}^{PS}	48^{+20}_{-20}	Y_{P}	$0.2440^{+0.0097}_{-0.010}$	$f\sigma_8(0.61)$	$0.468^{+0.011}_{-0.011}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2453^{+0.0098}_{-0.010}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.0092}$
A_{217}^{PS}	115^{+30}_{-30}	Age/Gyr	$13.810^{+0.069}_{-0.068}$	$f\sigma_8(2.33)$	$0.2976^{+0.0063}_{-0.0046}$
A^{kSZ}	—	z_*	$1090.01^{+0.80}_{-0.78}$	$\sigma_8(2.33)$	$0.3069^{+0.0066}_{-0.0049}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.9}_{-4.7}$	r_*	$144.81^{+0.76}_{-0.75}$	f_{2000}^{143}	31^{+8}_{-7}
$A_{143}^{\mathrm{dustTT}}$	$10.7^{+4.5}_{-4.8}$	$100\theta_*$	$1.0412^{+0.0011}_{-0.0010}$	$f_{2000}^{143 \times 217}$	33^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.3^{+8.8}_{-8.1}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.908^{+0.075}_{-0.073}$	f_{2000}^{217}	$107.8^{+4.8}_{-4.7}$
$A_{217}^{\mathrm{dustTT}}$	93^{+20}_{-20}	z_{drag}	$1059.4^{+1.2}_{-1.2}$	$\chi_{\mathrm{lensing}}^2$	$9.22 (\nu: 0.2)$
c_{100}	$0.9996^{+0.0015}_{-0.0016}$	r_{drag}	$147.54^{+0.83}_{-0.84}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
c_{217}	$0.9982^{+0.0016}_{-0.0017}$	k_{D}	$0.1403^{+0.0012}_{-0.0011}$	χ_{lowl}^2	$23.30 (\nu: 0.4)$
H_0	$67.5^{+1.3}_{-1.3}$	$100\theta_{\mathrm{D}}$	$0.16099^{+0.00079}_{-0.00074}$	χ_{plik}^2	$771.4 (\nu: 13.4)$
Ω_{Λ}	$0.689^{+0.016}_{-0.017}$	z_{eq}	3376^{+66}_{-66}	χ_{Aver15}^2	$0.97 (\nu: 0.9)$
Ω_{m}	$0.311^{+0.017}_{-0.016}$	k_{eq}	$0.01030^{+0.00020}_{-0.00020}$	$\chi_{6\mathrm{DF}}^2$	$0.057 (\nu: 0.0)$
$\Omega_{\mathrm{m}}h^2$	$0.1419^{+0.0027}_{-0.0028}$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.013}_{-0.012}$	χ_{MGS}^2	$1.28 (\nu: 0.1)$
$\Omega_{\mathrm{m}}h^3$	$0.0959^{+0.0012}_{-0.0012}$	$100\theta_{\mathrm{s,eq}}$	$0.4517^{+0.0065}_{-0.0061}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.8 (\nu: 1.1)$
σ_8	$0.809^{+0.016}_{-0.014}$	$H(0.15)$	$72.8^{+1.1}_{-1.1}$	χ_{prior}^2	$7.2 (\nu: 6.3)$
S_8	$0.824^{+0.031}_{-0.031}$	$D_{\mathrm{M}}(0.15)$	642^{+11}_{-11}	χ_{CMB}^2	$1201.0 (\nu: 14.3)$
$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.451^{+0.017}_{-0.017}$	$H(0.38)$	$82.91^{+0.83}_{-0.84}$	χ_{BAO}^2	$6.1 (\nu: 0.7)$
$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.016}_{-0.016}$	$D_{\mathrm{M}}(0.38)$	1531^{+22}_{-22}		

$\bar{\chi}_{\mathrm{eff}}^2 = 1215.36; R - 1 = 0.02251$

20.55 base_yhe_plikHM_TTTEE_lowl_lowE_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_b h^2$	0.022339	$0.02233^{+0.00040}_{-0.00038}$	Ω_m	0.3175	$0.317^{+0.023}_{-0.021}$	z_{eq}	3409	3407^{+81}_{-78}
$\Omega_c h^2$	0.12031	$0.1202^{+0.0036}_{-0.0034}$	$\Omega_m h^2$	0.14330	$0.1432^{+0.0034}_{-0.0032}$	k_{eq}	0.010404	$0.01040^{+0.00025}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04081	$1.04083^{+0.00085}_{-0.00090}$	$\Omega_m h^3$	0.09627	$0.09625^{+0.00085}_{-0.00082}$	$100\theta_{\text{eq}}$	0.8119	$0.812^{+0.015}_{-0.015}$
τ	0.0542	$0.054^{+0.021}_{-0.021}$	σ_8	0.8123	$0.812^{+0.020}_{-0.019}$	$100\theta_{\text{s,eq}}$	0.4487	$0.4489^{+0.0076}_{-0.0077}$
Y_{P}	0.2431	$0.2433^{+0.0093}_{-0.0096}$	S_8	0.8356	$0.834^{+0.042}_{-0.041}$	$H(0.15)$	72.53	$72.6^{+1.4}_{-1.3}$
$\ln(10^{10} A_{\text{s}})$	3.0445	$3.044^{+0.043}_{-0.043}$	$\sigma_8 \Omega_{\text{m}}^{0.5}$	0.4577	$0.457^{+0.023}_{-0.022}$	$D_{\text{M}}(0.15)$	644.9	645^{+14}_{-14}
n_{s}	0.9647	$0.964^{+0.012}_{-0.012}$	$\sigma_8 \Omega_{\text{m}}^{0.25}$	0.6097	$0.609^{+0.022}_{-0.021}$	$H(0.38)$	82.75	$82.8^{+1.0}_{-0.96}$
y_{cal}	1.0005	$1.0006^{+0.0061}_{-0.0065}$	$\sigma_8/h^{0.5}$	0.9910	$0.990^{+0.032}_{-0.030}$	$D_{\text{M}}(0.38)$	1536.6	1536^{+27}_{-27}
A_{217}^{CIB}	45.9	47^{+20}_{-20}	$r_{\text{drag}} h$	98.79	$98.9^{+2.8}_{-2.7}$	$H(0.51)$	89.53	$89.54^{+0.81}_{-0.76}$
$\xi^{\text{tSZ} \times \text{CIB}}$	0.60	—	$\langle d^2 \rangle^{1/2}$	2.450	$2.450^{+0.073}_{-0.072}$	$D_{\text{M}}(0.51)$	1989.5	1989^{+32}_{-32}
A_{143}^{tSZ}	7.09	> 0.856	z_{re}	7.67	$7.6^{+2.0}_{-2.3}$	$H(0.61)$	95.20	$95.21^{+0.65}_{-0.61}$
A_{100}^{PS}	248	257^{+70}_{-70}	$10^9 A_{\text{s}}$	2.100	$2.099^{+0.093}_{-0.090}$	$D_{\text{M}}(0.61)$	2314.3	2314^{+34}_{-35}
A_{143}^{PS}	49.4	46^{+20}_{-20}	$10^9 A_{\text{s}} e^{-2\tau}$	1.8844	$1.884^{+0.031}_{-0.030}$	$H(2.33)$	236.73	$236.7^{+2.2}_{-2.0}$
$A_{143 \times 217}^{\text{PS}}$	51.7	43^{+20}_{-20}	D_{40}	1231.4	1234^{+34}_{-32}	$D_{\text{M}}(2.33)$	5767.2	5767^{+29}_{-30}
A_{217}^{PS}	121.7	115^{+30}_{-30}	D_{220}	5729	5732^{+100}_{-98}	$f\sigma_8(0.15)$	0.4618	$0.461^{+0.022}_{-0.021}$
A^{kSZ}	0.0	—	D_{810}	2541.3	2540^{+34}_{-35}	$\sigma_8(0.15)$	0.7500	$0.749^{+0.018}_{-0.018}$
A_{100}^{dustTT}	8.78	$8.9^{+4.8}_{-4.8}$	D_{1420}	818.6	817^{+12}_{-13}	$f\sigma_8(0.38)$	0.4788	$0.478^{+0.018}_{-0.017}$
A_{143}^{dustTT}	11.01	$10.9^{+4.6}_{-4.5}$	D_{2000}	231.49	$231.1^{+4.1}_{-4.2}$	$\sigma_8(0.38)$	0.6641	$0.664^{+0.015}_{-0.015}$
$A_{143 \times 217}^{\text{dustTT}}$	19.9	$18.6^{+8.5}_{-8.8}$	$n_{\text{s},0.002}$	0.9647	$0.964^{+0.012}_{-0.012}$	$f\sigma_8(0.51)$	0.4767	$0.476^{+0.016}_{-0.015}$
A_{217}^{dustTT}	95.4	94^{+20}_{-20}	Y_{P}	0.2431	$0.2433^{+0.0093}_{-0.0096}$	$\sigma_8(0.51)$	0.6213	$0.621^{+0.014}_{-0.014}$
A_{100}^{dustTE}	0.115	$0.115^{+0.097}_{-0.095}$	$Y_{\text{P}}^{\text{BBN}}$	0.2444	$0.2446^{+0.0093}_{-0.0096}$	$f\sigma_8(0.61)$	0.4712	$0.471^{+0.015}_{-0.014}$
$A_{100 \times 143}^{\text{dustTE}}$	0.135	$0.135^{+0.073}_{-0.076}$	Age/Gyr	13.805	$13.805^{+0.064}_{-0.066}$	$\sigma_8(0.61)$	0.5910	$0.591^{+0.013}_{-0.013}$
$A_{100 \times 217}^{\text{dustTE}}$	0.482	$0.48^{+0.22}_{-0.22}$	z_*	1089.89	$1089.91^{+0.76}_{-0.75}$	$f\sigma_8(2.33)$	0.2977	$0.2975^{+0.0067}_{-0.0067}$
A_{143}^{dustTE}	0.224	$0.23^{+0.14}_{-0.14}$	r_*	144.38	$144.41^{+0.77}_{-0.79}$	$\sigma_8(2.33)$	0.3067	$0.3065^{+0.0071}_{-0.0070}$
$A_{143 \times 217}^{\text{dustTE}}$	0.666	$0.67^{+0.21}_{-0.21}$	$100\theta_*$	1.04105	$1.04107^{+0.00077}_{-0.00085}$	χ_{simall}^2	396.06	$397.1 (\nu: 1.7)$
A_{217}^{dustTE}	2.09	$2.09^{+0.70}_{-0.68}$	$D_{\text{M}}(z_*)/\text{Gpc}$	13.869	$13.871^{+0.071}_{-0.075}$	χ_{lowl}^2	23.48	$23.7 (\nu: 0.5)$
c_{100}	0.99972	$0.9997^{+0.0016}_{-0.0016}$	z_{drag}	1059.82	$1059.79^{+0.98}_{-0.92}$	χ_{plik}^2	2344.4	$2359.5 (\nu: 17.2)$
c_{217}	0.99816	$0.9982^{+0.0016}_{-0.0016}$	r_{drag}	147.05	$147.08^{+0.77}_{-0.80}$	χ_{Aver15}^2	0.02	$0.9 (\nu: 0.8)$
H_0	67.18	$67.2^{+1.6}_{-1.6}$	k_{D}	0.14098	$0.14093^{+0.00087}_{-0.00083}$	χ_{prior}^2	1.6	$11.5 (\nu: 9.9)$
Ω_{Λ}	0.6825	$0.683^{+0.021}_{-0.023}$	$100\theta_{\text{D}}$	0.16067	$0.16071^{+0.00057}_{-0.00053}$	χ_{CMB}^2	2764.0	$2780.3 (\nu: 17.4)$

Best-fit $\chi_{\text{eff}}^2 = 2765.57$; $\bar{\chi}_{\text{eff}}^2 = 2792.71$; $R - 1 = 0.01459$

χ_{eff}^2 : Abund - Yp_Aver2015: 0.02 CMB - simall_100x143_offlike5_EE_Aplanck_B: 396.06 commander_dx12_v3.2_29: 23.48 plik_rd12_HM_v22b_TTTEE: 2344.42

20.56 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02239^{+0.00038}_{-0.00035}$	σ_8	$0.809^{+0.020}_{-0.019}$	$H(0.38)$	$83.02^{+0.77}_{-0.73}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0026}_{-0.0026}$	S_8	$0.824^{+0.033}_{-0.032}$	$D_{\mathrm{M}}(0.38)$	1529^{+20}_{-20}
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00078}_{-0.00081}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.018}$	$H(0.51)$	$89.74^{+0.62}_{-0.59}$
τ	$0.055^{+0.021}_{-0.021}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.604^{+0.018}_{-0.017}$	$D_{\mathrm{M}}(0.51)$	1981^{+23}_{-24}
Y_{P}	$0.2435^{+0.0089}_{-0.0097}$	$\sigma_8/h^{0.5}$	$0.984^{+0.027}_{-0.026}$	$H(0.61)$	$95.36^{+0.52}_{-0.49}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.044^{+0.046}_{-0.043}$	$r_{\mathrm{drag}}h$	$99.6^{+2.1}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2305^{+25}_{-26}
n_{s}	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.064}_{-0.062}$	$H(2.33)$	$236.1^{+1.6}_{-1.5}$
y_{cal}	$1.0007^{+0.0058}_{-0.0065}$	z_{re}	$7.7^{+2.0}_{-2.3}$	$D_{\mathrm{M}}(2.33)$	5761^{+24}_{-25}
A_{217}^{CIB}	47^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.100^{+0.099}_{-0.088}$	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.027}_{-0.028}$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.017}$
A_{143}^{tSZ}	> 0.795	D_{40}	1229^{+32}_{-31}	$f\sigma_8(0.38)$	$0.474^{+0.015}_{-0.014}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5737^{+98}_{-95}	$\sigma_8(0.38)$	$0.663^{+0.016}_{-0.015}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-34}	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.013}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.620^{+0.015}_{-0.014}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.3^{+4.1}_{-4.4}$	$f\sigma_8(0.61)$	$0.468^{+0.013}_{-0.012}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010}$	$\sigma_8(0.61)$	$0.590^{+0.014}_{-0.013}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.8}$	Y_{P}	$0.2435^{+0.0089}_{-0.0097}$	$f\sigma_8(2.33)$	$0.2976^{+0.0070}_{-0.0067}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.6}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2448^{+0.0089}_{-0.0097}$	$\sigma_8(2.33)$	$0.3069^{+0.0074}_{-0.0068}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.7}$	Age/Gyr	$13.791^{+0.055}_{-0.056}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.76^{+0.64}_{-0.63}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.115^{+0.094}_{-0.091}$	r_*	$144.60^{+0.61}_{-0.62}$	f_{2000}^{217}	$106.8^{+4.6}_{-4.9}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.080}_{-0.075}$	$100\theta_*$	$1.04118^{+0.00073}_{-0.00076}$	χ_{simall}^2	$397.3 (\nu: 2.0)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.23}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.059}_{-0.060}$	χ_{lowl}^2	$23.26 (\nu: 0.4)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.88^{+0.93}_{-0.90}$	χ_{plik}^2	$2359.8 (\nu: 18.0)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$147.25^{+0.64}_{-0.65}$	χ_{Aver15}^2	$0.9 (\nu: 0.7)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.69}_{-0.67}$	k_{D}	$0.14079^{+0.00081}_{-0.00076}$	$\chi_{6\mathrm{DF}}^2$	$0.059 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00056}_{-0.00053}$	χ_{MGS}^2	$1.24 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3386^{+59}_{-58}	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.1)$
H_0	$67.6^{+1.2}_{-1.2}$	k_{eq}	$0.01034^{+0.00018}_{-0.00018}$	χ_{prior}^2	$11.5 (\nu: 10.2)$
Ω_{Λ}	$0.689^{+0.016}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	$6.2 (\nu: 0.7)$
Ω_{m}	$0.311^{+0.016}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0056}_{-0.0056}$	χ_{CMB}^2	$2780.4 (\nu: 17.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1424^{+0.0025}_{-0.0024}$	$H(0.15)$	$72.9^{+1.0}_{-1.0}$		
$\Omega_{\mathrm{m}}h^3$	$0.09627^{+0.00083}_{-0.00081}$	$D_{\mathrm{M}}(0.15)$	641^{+10}_{-10}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2799.01; R - 1 = 0.02003$$

20.57 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\rm b} h^2$	$0.02234^{+0.00040}_{-0.00038}$	$\Omega_{\rm m} h^3$	$0.09624^{+0.00086}_{-0.00080}$	$H(0.15)$	$72.6^{+1.3}_{-1.2}$
$\Omega_{\rm c} h^2$	$0.1200^{+0.0031}_{-0.0031}$	σ_8	$0.811^{+0.015}_{-0.015}$	$D_{\rm M}(0.15)$	644^{+12}_{-12}
$100\theta_{\rm MC}$	$1.04084^{+0.00081}_{-0.00090}$	S_8	$0.832^{+0.033}_{-0.032}$	$H(0.38)$	$82.82^{+0.93}_{-0.88}$
τ	$0.054^{+0.020}_{-0.019}$	$\sigma_8 \Omega_{\rm m}^{0.5}$	$0.456^{+0.018}_{-0.018}$	$D_{\rm M}(0.38)$	1535^{+25}_{-25}
$Y_{\rm P}$	$0.2432^{+0.0089}_{-0.0097}$	$\sigma_8 \Omega_{\rm m}^{0.25}$	$0.608^{+0.016}_{-0.016}$	$H(0.51)$	$89.58^{+0.74}_{-0.70}$
$\ln(10^{10} A_{\rm s})$	$3.043^{+0.039}_{-0.039}$	$\sigma_8/h^{0.5}$	$0.988^{+0.023}_{-0.024}$	$D_{\rm M}(0.51)$	1987^{+29}_{-29}
$n_{\rm s}$	$0.964^{+0.011}_{-0.011}$	$r_{\rm drag} h$	$99.0^{+2.4}_{-2.4}$	$H(0.61)$	$95.24^{+0.60}_{-0.58}$
$y_{\rm cal}$	$1.0006^{+0.0059}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.447^{+0.056}_{-0.056}$	$D_{\rm M}(0.61)$	2312^{+31}_{-32}
$A_{217}^{\rm CIB}$	47^{+20}_{-20}	$z_{\rm re}$	$7.6^{+1.9}_{-2.0}$	$H(2.33)$	$236.5^{+1.9}_{-1.9}$
$\xi^{\rm tSZ \times CIB}$	—	$10^9 A_{\rm s}$	$2.097^{+0.082}_{-0.080}$	$D_{\rm M}(2.33)$	5766^{+28}_{-28}
$A_{143}^{\rm tSZ}$	—	$10^9 A_{\rm s} e^{-2\tau}$	$1.883^{+0.028}_{-0.027}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.016}$
$A_{100}^{\rm PS}$	258^{+70}_{-70}	D_{40}	1233^{+32}_{-30}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.014}$
$A_{143}^{\rm PS}$	46^{+20}_{-20}	D_{220}	5734^{+98}_{-97}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013}$
$A_{143 \times 217}^{\rm PS}$	42^{+20}_{-20}	D_{810}	2539^{+33}_{-35}	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.013}$
$A_{217}^{\rm PS}$	115^{+20}_{-30}	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.012}$
$A^{\rm kSZ}$	—	D_{2000}	$231.0^{+4.1}_{-4.3}$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.012}$
$A_{100}^{\rm dustTT}$	$8.9^{+4.9}_{-4.8}$	$n_{\rm s,0.002}$	$0.964^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.011}$
$A_{143}^{\rm dustTT}$	$10.9^{+4.7}_{-4.4}$	$Y_{\rm P}$	$0.2432^{+0.0089}_{-0.0097}$	$\sigma_8(0.61)$	$0.590^{+0.012}_{-0.011}$
$A_{143 \times 217}^{\rm dustTT}$	$18.6^{+8.6}_{-8.9}$	$Y_{\rm P}^{\rm BBN}$	$0.2445^{+0.0090}_{-0.0097}$	$f\sigma_8(2.33)$	$0.2974^{+0.0060}_{-0.0060}$
$A_{217}^{\rm dustTT}$	94^{+20}_{-20}	Age/Gyr	$13.802^{+0.064}_{-0.062}$	$\sigma_8(2.33)$	$0.3064^{+0.0065}_{-0.0063}$
$A_{100}^{\rm dustTE}$	$0.115^{+0.094}_{-0.093}$	z_*	$1089.87^{+0.68}_{-0.72}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 143}^{\rm dustTE}$	$0.135^{+0.077}_{-0.075}$	r_*	$144.45^{+0.69}_{-0.70}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 217}^{\rm dustTE}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04109^{+0.00075}_{-0.00085}$	f_{2000}^{217}	$106.9^{+4.6}_{-5.0}$
$A_{143}^{\rm dustTE}$	$0.22^{+0.14}_{-0.14}$	$D_{\rm M}(z_*)/\text{Gpc}$	$13.875^{+0.064}_{-0.067}$	$\chi_{\rm lensing}^2$	$9.21\ (\nu: 0.2)$
$A_{143 \times 217}^{\rm dustTE}$	$0.67^{+0.21}_{-0.21}$	$z_{\rm drag}$	$1059.8^{+1.0}_{-0.90}$	$\chi_{\rm simall}^2$	$397.0\ (\nu: 1.4)$
$A_{217}^{\rm dustTE}$	$2.09^{+0.70}_{-0.68}$	$r_{\rm drag}$	$147.12^{+0.69}_{-0.71}$	$\chi_{\rm lowl}^2$	$23.64\ (\nu: 0.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$k_{\rm D}$	$0.14090^{+0.00079}_{-0.00078}$	$\chi_{\rm plik}^2$	$2359.3\ (\nu: 16.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\rm D}$	$0.16069^{+0.00057}_{-0.00053}$	$\chi_{\rm Aver15}^2$	$0.9\ (\nu: 0.8)$
H_0	$67.3^{+1.5}_{-1.4}$	$z_{\rm eq}$	3402^{+70}_{-70}	$\chi_{\rm prior}^2$	$11.5\ (\nu: 10.3)$
Ω_{Λ}	$0.684^{+0.019}_{-0.020}$	$k_{\rm eq}$	$0.01038^{+0.00021}_{-0.00021}$	$\chi_{\rm CMB}^2$	$2789.1\ (\nu: 17.4)$
$\Omega_{\rm m}$	$0.316^{+0.020}_{-0.019}$	$100\theta_{\rm eq}$	$0.813^{+0.013}_{-0.013}$		
$\Omega_{\rm m} h^2$	$0.1430^{+0.0029}_{-0.0029}$	$100\theta_{\rm s,eq}$	$0.4493^{+0.0068}_{-0.0067}$		

$\bar{\chi}_{\rm eff}^2 = 2801.50$; $R - 1 = 0.01555$

20.58 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00038}_{-0.00035}$	σ_8	$0.810^{+0.016}_{-0.016}$	$H(0.38)$	$83.02^{+0.75}_{-0.70}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0024}_{-0.0025}$	S_8	$0.825^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1529^{+19}_{-20}
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00074}_{-0.00081}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	$89.74^{+0.60}_{-0.57}$
τ	$0.056^{+0.020}_{-0.019}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.015}_{-0.015}$	$D_{\mathrm{M}}(0.51)$	1981^{+22}_{-23}
Y_{P}	$0.2434^{+0.0089}_{-0.0099}$	$\sigma_8/h^{0.5}$	$0.985^{+0.022}_{-0.021}$	$H(0.61)$	$95.36^{+0.50}_{-0.48}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.038}_{-0.038}$	$r_{\mathrm{drag}}h$	$99.6^{+1.9}_{-1.9}$	$D_{\mathrm{M}}(0.61)$	2305^{+24}_{-25}
n_{s}	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.052}_{-0.052}$	$H(2.33)$	$236.1^{+1.5}_{-1.5}$
y_{cal}	$1.0007^{+0.0058}_{-0.0065}$	z_{re}	$7.8^{+1.9}_{-2.1}$	$D_{\mathrm{M}}(2.33)$	5761^{+24}_{-24}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.103^{+0.081}_{-0.079}$	$f\sigma_8(0.15)$	$0.456^{+0.014}_{-0.014}$
$\xi^{\mathrm{tSZ}\times\mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.026}_{-0.027}$	$\sigma_8(0.15)$	$0.748^{+0.015}_{-0.014}$
A_{143}^{tSZ}	> 0.777	D_{40}	1230^{+31}_{-29}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.012}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5739^{+96}_{-93}	$\sigma_8(0.38)$	$0.663^{+0.013}_{-0.012}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-35}	$f\sigma_8(0.51)$	$0.473^{+0.011}_{-0.011}$
$A_{143\times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.012}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.3^{+4.1}_{-4.3}$	$f\sigma_8(0.61)$	$0.468^{+0.010}_{-0.010}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010}$	$\sigma_8(0.61)$	$0.591^{+0.012}_{-0.011}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.8}$	Y_{P}	$0.2434^{+0.0089}_{-0.0099}$	$f\sigma_8(2.33)$	$0.2978^{+0.0059}_{-0.0058}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.4}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2448^{+0.0090}_{-0.0099}$	$\sigma_8(2.33)$	$0.3071^{+0.0064}_{-0.0061}$
$A_{143\times 217}^{\mathrm{dust}TT}$	$18.6^{+8.3}_{-8.9}$	Age/Gyr	$13.791^{+0.054}_{-0.055}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.75^{+0.63}_{-0.62}$	$f_{2000}^{143\times 217}$	32^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.116^{+0.094}_{-0.092}$	r_*	$144.59^{+0.57}_{-0.57}$	f_{2000}^{217}	$106.8^{+4.5}_{-4.9}$
$A_{100\times 143}^{\mathrm{dust}TE}$	$0.134^{+0.080}_{-0.074}$	$100\theta_*$	$1.04118^{+0.00070}_{-0.00076}$	$\chi_{\mathrm{lensing}}^2$	$9.08\ (\nu: 0.2)$
$A_{100\times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.054}_{-0.056}$	χ_{simall}^2	$397.2\ (\nu: 1.8)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.88^{+0.96}_{-0.87}$	χ_{lowl}^2	$23.32\ (\nu: 0.3)$
$A_{143\times 217}^{\mathrm{dust}TE}$	$0.66^{+0.20}_{-0.21}$	r_{drag}	$147.25^{+0.60}_{-0.62}$	χ_{plik}^2	$2359.4\ (\nu: 17.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.67}$	k_{D}	$0.14080^{+0.00079}_{-0.00072}$	χ_{Aver15}^2	$0.9\ (\nu: 0.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00054}_{-0.00052}$	$\chi_{6\mathrm{DF}}^2$	$0.056\ (\nu: 0.0)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3387^{+55}_{-55}	χ_{MGS}^2	$1.23\ (\nu: 0.1)$
H_0	$67.6^{+1.2}_{-1.1}$	k_{eq}	$0.01034^{+0.00017}_{-0.00017}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9\ (\nu: 0.9)$
Ω_{Λ}	$0.689^{+0.015}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.010}$	χ_{prior}^2	$11.5\ (\nu: 10.1)$
Ω_{m}	$0.311^{+0.015}_{-0.015}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0054}_{-0.0052}$	χ_{CMB}^2	$2789.1\ (\nu: 17.5)$
$\Omega_{\mathrm{m}}h^2$	$0.1424^{+0.0023}_{-0.0023}$	$H(0.15)$	$72.9^{+1.0}_{-0.94}$	χ_{BAO}^2	$6.2\ (\nu: 0.6)$
$\Omega_{\mathrm{m}}h^3$	$0.09627^{+0.00083}_{-0.00081}$	$D_{\mathrm{M}}(0.15)$	$641.1^{+9.4}_{-9.8}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.65; R - 1 = 0.02242$$

20.59 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02233^{+0.00040}_{-0.00038}$	$\Omega_{\mathrm{m}}h^2$	$0.1432^{+0.0034}_{-0.0032}$	$100\theta_{\mathrm{eq}}$	$0.812^{+0.015}_{-0.015}$
$\Omega_{\mathrm{c}}h^2$	$0.1202^{+0.0035}_{-0.0035}$	$\Omega_{\mathrm{m}}h^3$	$0.09625^{+0.00085}_{-0.00082}$	$100\theta_{\mathrm{s,eq}}$	$0.4490^{+0.0075}_{-0.0076}$
$100\theta_{\mathrm{MC}}$	$1.04084^{+0.00085}_{-0.00090}$	σ_8	$0.812^{+0.020}_{-0.017}$	$H(0.15)$	$72.6^{+1.4}_{-1.3}$
τ	$0.055^{+0.019}_{-0.014}$	S_8	$0.835^{+0.042}_{-0.040}$	$D_{\mathrm{M}}(0.15)$	645^{+14}_{-14}
Y_{P}	$0.2433^{+0.0093}_{-0.0096}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.457^{+0.023}_{-0.022}$	$H(0.38)$	$82.8^{+1.0}_{-0.96}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.039}_{-0.031}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.609^{+0.022}_{-0.021}$	$D_{\mathrm{M}}(0.38)$	1536^{+27}_{-27}
n_{s}	$0.964^{+0.012}_{-0.012}$	$\sigma_8/h^{0.5}$	$0.991^{+0.031}_{-0.029}$	$H(0.51)$	$89.55^{+0.80}_{-0.76}$
y_{cal}	$1.0006^{+0.0061}_{-0.0065}$	$r_{\mathrm{drag}}h$	$98.9^{+2.8}_{-2.7}$	$D_{\mathrm{M}}(0.51)$	1989^{+32}_{-32}
A_{217}^{CIB}	47^{+20}_{-20}	$\langle d^2 \rangle^{1/2}$	$2.452^{+0.072}_{-0.069}$	$H(0.61)$	$95.22^{+0.65}_{-0.61}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	z_{re}	< 9.46	$D_{\mathrm{M}}(0.61)$	2313^{+34}_{-34}
A_{143}^{tSZ}	> 0.896	$10^9 A_{\mathrm{s}}$	$2.104^{+0.084}_{-0.066}$	$H(2.33)$	$236.6^{+2.1}_{-2.0}$
A_{100}^{PS}	257^{+70}_{-70}	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.883^{+0.031}_{-0.029}$	$D_{\mathrm{M}}(2.33)$	5767^{+29}_{-30}
A_{143}^{PS}	46^{+20}_{-20}	D_{40}	1234^{+34}_{-32}	$f\sigma_8(0.15)$	$0.461^{+0.021}_{-0.021}$
$A_{143 \times 217}^{\mathrm{PS}}$	43^{+20}_{-20}	D_{220}	5732^{+100}_{-97}	$\sigma_8(0.15)$	$0.750^{+0.017}_{-0.014}$
A_{217}^{PS}	115^{+30}_{-30}	D_{810}	2539^{+34}_{-35}	$f\sigma_8(0.38)$	$0.479^{+0.018}_{-0.017}$
A^{kSZ}	—	D_{1420}	817^{+12}_{-13}	$\sigma_8(0.38)$	$0.664^{+0.015}_{-0.011}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.8}_{-4.8}$	D_{2000}	$231.1^{+4.1}_{-4.2}$	$f\sigma_8(0.51)$	$0.477^{+0.016}_{-0.015}$
$A_{143}^{\mathrm{dustTT}}$	$10.8^{+4.7}_{-4.5}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.012}_{-0.012}$	$\sigma_8(0.51)$	$0.621^{+0.014}_{-0.010}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.5^{+8.5}_{-8.9}$	Y_{P}	$0.2433^{+0.0093}_{-0.0096}$	$f\sigma_8(0.61)$	$0.471^{+0.014}_{-0.013}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2446^{+0.0093}_{-0.0097}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.0096}$
$A_{100}^{\mathrm{dustTE}}$	$0.115^{+0.098}_{-0.095}$	Age/Gyr	$13.804^{+0.064}_{-0.066}$	$f\sigma_8(2.33)$	$0.2979^{+0.0065}_{-0.0047}$
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.073}_{-0.076}$	z_*	$1089.90^{+0.77}_{-0.75}$	$\sigma_8(2.33)$	$0.3069^{+0.0067}_{-0.0049}$
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	r_*	$144.42^{+0.77}_{-0.78}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{143}^{\mathrm{dustTE}}$	$0.23^{+0.14}_{-0.14}$	$100\theta_*$	$1.04108^{+0.00077}_{-0.00085}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.21}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.872^{+0.071}_{-0.074}$	f_{2000}^{217}	$106.9^{+4.7}_{-4.7}$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.70}_{-0.68}$	z_{drag}	$1059.80^{+0.98}_{-0.89}$	χ_{simall}^2	$397.1 (\nu: 1.8)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	r_{drag}	$147.09^{+0.76}_{-0.79}$	χ_{lowl}^2	$23.7 (\nu: 0.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	k_{D}	$0.14093^{+0.00087}_{-0.00083}$	χ_{plik}^2	$2359.3 (\nu: 17.1)$
H_0	$67.2^{+1.6}_{-1.6}$	$100\theta_{\mathrm{D}}$	$0.16070^{+0.00056}_{-0.00053}$	χ_{Aver15}^2	$0.9 (\nu: 0.8)$
Ω_{Λ}	$0.683^{+0.021}_{-0.023}$	z_{eq}	3406^{+80}_{-77}	χ_{prior}^2	$11.5 (\nu: 9.9)$
Ω_{m}	$0.317^{+0.023}_{-0.021}$	k_{eq}	$0.01040^{+0.00025}_{-0.00024}$	χ_{CMB}^2	$2780.1 (\nu: 17.0)$

$\bar{\chi}_{\mathrm{eff}}^2 = 2792.46$; $R - 1 = 0.01390$

20.60 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00038}_{-0.00035}$	σ_8	$0.810^{+0.019}_{-0.015}$	$H(0.38)$	$83.03^{+0.78}_{-0.73}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0026}_{-0.0026}$	S_8	$0.825^{+0.032}_{-0.031}$	$D_{\mathrm{M}}(0.38)$	1529^{+20}_{-20}
$100\theta_{\mathrm{MC}}$	$1.04096^{+0.00078}_{-0.00081}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.018}_{-0.017}$	$H(0.51)$	$89.74^{+0.62}_{-0.59}$
τ	$0.056^{+0.019}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.018}_{-0.016}$	$D_{\mathrm{M}}(0.51)$	1980^{+23}_{-24}
Y_{P}	$0.2436^{+0.0088}_{-0.0099}$	$\sigma_8/h^{0.5}$	$0.985^{+0.026}_{-0.024}$	$H(0.61)$	$95.36^{+0.52}_{-0.50}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.046^{+0.041}_{-0.032}$	$r_{\mathrm{drag}}h$	$99.6^{+2.1}_{-2.0}$	$D_{\mathrm{M}}(0.61)$	2305^{+25}_{-26}
n_{s}	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.438^{+0.063}_{-0.058}$	$H(2.33)$	$236.1^{+1.6}_{-1.6}$
y_{cal}	$1.0007^{+0.0058}_{-0.0065}$	z_{re}	< 9.59	$D_{\mathrm{M}}(2.33)$	5760^{+24}_{-25}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.104^{+0.087}_{-0.068}$	$f\sigma_8(0.15)$	$0.456^{+0.017}_{-0.016}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.028}_{-0.028}$	$\sigma_8(0.15)$	$0.748^{+0.017}_{-0.013}$
A_{143}^{tSZ}	$5.5^{+4.5}_{-4.6}$	D_{40}	1229^{+32}_{-31}	$f\sigma_8(0.38)$	$0.475^{+0.014}_{-0.013}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5737^{+100}_{-95}	$\sigma_8(0.38)$	$0.663^{+0.015}_{-0.011}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+33}_{-35}	$f\sigma_8(0.51)$	$0.473^{+0.013}_{-0.012}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.621^{+0.013}_{-0.011}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.3^{+4.1}_{-4.3}$	$f\sigma_8(0.61)$	$0.468^{+0.012}_{-0.011}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010}$	$\sigma_8(0.61)$	$0.591^{+0.013}_{-0.010}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.8}$	Y_{P}	$0.2436^{+0.0088}_{-0.0099}$	$f\sigma_8(2.33)$	$0.2979^{+0.0063}_{-0.0051}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.5}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2449^{+0.0088}_{-0.010}$	$\sigma_8(2.33)$	$0.3072^{+0.0066}_{-0.0053}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.2}_{-8.8}$	Age/Gyr	$13.791^{+0.056}_{-0.056}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.75^{+0.64}_{-0.63}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.116^{+0.095}_{-0.091}$	r_*	$144.60^{+0.62}_{-0.62}$	f_{2000}^{217}	$106.8^{+4.6}_{-5.0}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.080}_{-0.074}$	$100\theta_*$	$1.04119^{+0.00073}_{-0.00076}$	χ_{simall}^2	$397.2 (\nu: 2.1)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.23}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.059}_{-0.059}$	χ_{lowl}^2	$23.27 (\nu: 0.4)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.88^{+0.93}_{-0.87}$	χ_{plik}^2	$2359.7 (\nu: 17.9)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$147.26^{+0.65}_{-0.65}$	χ_{Aver15}^2	$0.9 (\nu: 0.7)$
$A_{217}^{\mathrm{dust}TE}$	$2.07^{+0.68}_{-0.66}$	k_{D}	$0.14079^{+0.00081}_{-0.00080}$	$\chi_{6\mathrm{DF}}^2$	$0.058 (\nu: 0.0)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16067^{+0.00056}_{-0.00053}$	χ_{MGS}^2	$1.25 (\nu: 0.1)$
c_{217}	$0.9982^{+0.0017}_{-0.0016}$	z_{eq}	3386^{+59}_{-59}	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 1.1)$
H_0	$67.6^{+1.2}_{-1.2}$	k_{eq}	$0.01033^{+0.00018}_{-0.00018}$	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{Λ}	$0.689^{+0.016}_{-0.016}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.011}_{-0.011}$	χ_{BAO}^2	$6.2 (\nu: 0.7)$
Ω_{m}	$0.311^{+0.016}_{-0.016}$	$100\theta_{\mathrm{s,eq}}$	$0.4510^{+0.0057}_{-0.0056}$	χ_{CMB}^2	$2780.2 (\nu: 17.2)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0025}_{-0.0025}$	$H(0.15)$	$72.9^{+1.0}_{-0.99}$		
$\Omega_{\mathrm{m}}h^3$	$0.09627^{+0.00083}_{-0.00081}$	$D_{\mathrm{M}}(0.15)$	641^{+10}_{-10}		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2798.81; R - 1 = 0.02120$$

20.61 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02235^{+0.00040}_{-0.00038}$	$\Omega_{\mathrm{m}}h^3$	$0.09625^{+0.00085}_{-0.00079}$	$H(0.15)$	$72.7^{+1.2}_{-1.2}$
$\Omega_{\mathrm{c}}h^2$	$0.1200^{+0.0031}_{-0.0031}$	σ_8	$0.811^{+0.015}_{-0.014}$	$D_{\mathrm{M}}(0.15)$	644^{+12}_{-12}
$100\theta_{\mathrm{MC}}$	$1.04085^{+0.00080}_{-0.00087}$	S_8	$0.832^{+0.033}_{-0.032}$	$H(0.38)$	$82.84^{+0.91}_{-0.88}$
τ	$0.055^{+0.018}_{-0.013}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.456^{+0.018}_{-0.018}$	$D_{\mathrm{M}}(0.38)$	1534^{+24}_{-25}
Y_{P}	$0.2433^{+0.0089}_{-0.0097}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.608^{+0.016}_{-0.016}$	$H(0.51)$	$89.60^{+0.73}_{-0.70}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.045^{+0.037}_{-0.027}$	$\sigma_8/h^{0.5}$	$0.989^{+0.023}_{-0.022}$	$D_{\mathrm{M}}(0.51)$	1987^{+29}_{-29}
n_{s}	$0.964^{+0.011}_{-0.011}$	$r_{\mathrm{drag}}h$	$99.1^{+2.4}_{-2.4}$	$H(0.61)$	$95.25^{+0.60}_{-0.57}$
y_{cal}	$1.0006^{+0.0058}_{-0.0064}$	$\langle d^2 \rangle^{1/2}$	$2.448^{+0.055}_{-0.054}$	$D_{\mathrm{M}}(0.61)$	2311^{+31}_{-31}
A_{217}^{CIB}	47^{+20}_{-20}	z_{re}	< 9.37	$H(2.33)$	$236.5^{+1.8}_{-1.8}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}$	$2.101^{+0.079}_{-0.056}$	$D_{\mathrm{M}}(2.33)$	5765^{+27}_{-27}
A_{143}^{tSZ}	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.882^{+0.028}_{-0.027}$	$f\sigma_8(0.15)$	$0.460^{+0.017}_{-0.016}$
A_{100}^{PS}	257^{+70}_{-70}	D_{40}	1233^{+32}_{-30}	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
A_{143}^{PS}	45^{+20}_{-20}	D_{220}	5734^{+99}_{-96}	$f\sigma_8(0.38)$	$0.477^{+0.013}_{-0.013}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{810}	2539^{+33}_{-35}	$\sigma_8(0.38)$	$0.664^{+0.012}_{-0.0098}$
A_{217}^{PS}	115^{+20}_{-30}	D_{1420}	817^{+12}_{-13}	$f\sigma_8(0.51)$	$0.475^{+0.012}_{-0.011}$
A^{kSZ}	—	D_{2000}	$231.1^{+4.1}_{-4.3}$	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0091}$
$A_{100}^{\mathrm{dustTT}}$	$8.9^{+4.9}_{-4.8}$	$n_{\mathrm{s},0.002}$	$0.964^{+0.011}_{-0.011}$	$f\sigma_8(0.61)$	$0.470^{+0.011}_{-0.010}$
$A_{143}^{\mathrm{dustTT}}$	$10.9^{+4.7}_{-4.4}$	Y_{P}	$0.2433^{+0.0089}_{-0.0097}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0086}$
$A_{143 \times 217}^{\mathrm{dustTT}}$	$18.6^{+8.6}_{-8.9}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2446^{+0.0089}_{-0.0098}$	$f\sigma_8(2.33)$	$0.2977^{+0.0058}_{-0.0044}$
$A_{217}^{\mathrm{dustTT}}$	94^{+20}_{-20}	Age/Gyr	$13.801^{+0.061}_{-0.061}$	$\sigma_8(2.33)$	$0.3067^{+0.0062}_{-0.0048}$
$A_{100}^{\mathrm{dustTE}}$	$0.116^{+0.094}_{-0.093}$	z_*	$1089.86^{+0.68}_{-0.71}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{100 \times 143}^{\mathrm{dustTE}}$	$0.135^{+0.078}_{-0.074}$	r_*	$144.47^{+0.68}_{-0.69}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100 \times 217}^{\mathrm{dustTE}}$	$0.48^{+0.22}_{-0.22}$	$100\theta_*$	$1.04109^{+0.00075}_{-0.00083}$	f_{2000}^{217}	$106.9^{+4.5}_{-4.9}$
$A_{143}^{\mathrm{dustTE}}$	$0.22^{+0.14}_{-0.14}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.876^{+0.064}_{-0.065}$	$\chi_{\mathrm{lensing}}^2$	$9.20 (\nu: 0.2)$
$A_{143 \times 217}^{\mathrm{dustTE}}$	$0.67^{+0.21}_{-0.21}$	z_{drag}	$1059.8^{+1.0}_{-0.91}$	χ_{simall}^2	$396.9 (\nu: 1.4)$
$A_{217}^{\mathrm{dustTE}}$	$2.08^{+0.68}_{-0.68}$	r_{drag}	$147.13^{+0.68}_{-0.69}$	χ_{lowl}^2	$23.62 (\nu: 0.4)$
c_{100}	$0.9997^{+0.0016}_{-0.0016}$	k_{D}	$0.14089^{+0.00080}_{-0.00077}$	χ_{plik}^2	$2359.1 (\nu: 16.5)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	$100\theta_{\mathrm{D}}$	$0.16069^{+0.00056}_{-0.00053}$	χ_{Aver15}^2	$0.9 (\nu: 0.8)$
H_0	$67.3^{+1.4}_{-1.4}$	z_{eq}	3401^{+69}_{-68}	χ_{prior}^2	$11.5 (\nu: 10.3)$
Ω_{Λ}	$0.685^{+0.018}_{-0.020}$	k_{eq}	$0.01038^{+0.00021}_{-0.00021}$	χ_{CMB}^2	$2788.9 (\nu: 17.0)$
Ω_{m}	$0.315^{+0.020}_{-0.018}$	$100\theta_{\mathrm{eq}}$	$0.813^{+0.013}_{-0.013}$		
$\Omega_{\mathrm{m}}h^2$	$0.1430^{+0.0029}_{-0.0028}$	$100\theta_{\mathrm{s,eq}}$	$0.4495^{+0.0067}_{-0.0065}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2801.26; R - 1 = 0.01556$$

20.62 base_yhe_plikHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02240^{+0.00038}_{-0.00035}$	σ_8	$0.810^{+0.015}_{-0.013}$	$H(0.38)$	$83.03^{+0.74}_{-0.69}$
$\Omega_{\mathrm{c}}h^2$	$0.1193^{+0.0024}_{-0.0024}$	S_8	$0.825^{+0.027}_{-0.027}$	$D_{\mathrm{M}}(0.38)$	1529^{+19}_{-20}
$100\theta_{\mathrm{MC}}$	$1.04095^{+0.00075}_{-0.00080}$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.452^{+0.015}_{-0.015}$	$H(0.51)$	$89.74^{+0.60}_{-0.57}$
τ	$0.057^{+0.018}_{-0.014}$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.015}_{-0.014}$	$D_{\mathrm{M}}(0.51)$	1981^{+22}_{-23}
Y_{P}	$0.2435^{+0.0089}_{-0.0099}$	$\sigma_8/h^{0.5}$	$0.985^{+0.021}_{-0.020}$	$H(0.61)$	$95.36^{+0.50}_{-0.48}$
$\ln(10^{10}A_{\mathrm{s}})$	$3.047^{+0.037}_{-0.029}$	$r_{\mathrm{drag}}h$	$99.6^{+1.9}_{-1.8}$	$D_{\mathrm{M}}(0.61)$	2305^{+24}_{-25}
n_{s}	$0.966^{+0.010}_{-0.010}$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.052}_{-0.050}$	$H(2.33)$	$236.1^{+1.5}_{-1.5}$
y_{cal}	$1.0007^{+0.0058}_{-0.0065}$	z_{re}	< 9.47	$D_{\mathrm{M}}(2.33)$	5760^{+24}_{-24}
A_{217}^{CIB}	46^{+20}_{-20}	$10^9 A_{\mathrm{s}}$	$2.105^{+0.079}_{-0.060}$	$f\sigma_8(0.15)$	$0.457^{+0.014}_{-0.014}$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.880^{+0.027}_{-0.027}$	$\sigma_8(0.15)$	$0.749^{+0.014}_{-0.012}$
A_{143}^{tSZ}	> 0.777	D_{40}	1230^{+31}_{-29}	$f\sigma_8(0.38)$	$0.475^{+0.012}_{-0.011}$
A_{100}^{PS}	257^{+70}_{-70}	D_{220}	5739^{+97}_{-92}	$\sigma_8(0.38)$	$0.664^{+0.013}_{-0.010}$
A_{143}^{PS}	45^{+20}_{-20}	D_{810}	2539^{+32}_{-35}	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.010}$
$A_{143 \times 217}^{\mathrm{PS}}$	42^{+20}_{-20}	D_{1420}	818^{+12}_{-13}	$\sigma_8(0.51)$	$0.621^{+0.012}_{-0.0093}$
A_{217}^{PS}	115^{+20}_{-30}	D_{2000}	$231.3^{+4.1}_{-4.3}$	$f\sigma_8(0.61)$	$0.4686^{+0.0099}_{-0.0094}$
A^{kSZ}	—	$n_{\mathrm{s},0.002}$	$0.966^{+0.010}_{-0.010}$	$\sigma_8(0.61)$	$0.591^{+0.011}_{-0.0089}$
$A_{100}^{\mathrm{dust}TT}$	$8.9^{+4.9}_{-4.8}$	Y_{P}	$0.2435^{+0.0089}_{-0.0099}$	$f\sigma_8(2.33)$	$0.2980^{+0.0058}_{-0.0046}$
$A_{143}^{\mathrm{dust}TT}$	$10.9^{+4.7}_{-4.4}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2448^{+0.0089}_{-0.0099}$	$\sigma_8(2.33)$	$0.3072^{+0.0063}_{-0.0049}$
$A_{143 \times 217}^{\mathrm{dust}TT}$	$18.6^{+8.3}_{-8.9}$	Age/Gyr	$13.791^{+0.054}_{-0.055}$	f_{2000}^{143}	29^{+7}_{-7}
$A_{217}^{\mathrm{dust}TT}$	94^{+20}_{-20}	z_*	$1089.75^{+0.63}_{-0.63}$	$f_{2000}^{143 \times 217}$	32^{+5}_{-5}
$A_{100}^{\mathrm{dust}TE}$	$0.116^{+0.094}_{-0.092}$	r_*	$144.60^{+0.57}_{-0.56}$	f_{2000}^{217}	$106.8^{+4.5}_{-5.0}$
$A_{100 \times 143}^{\mathrm{dust}TE}$	$0.134^{+0.080}_{-0.073}$	$100\theta_*$	$1.04118^{+0.00070}_{-0.00077}$	$\chi_{\mathrm{lensing}}^2$	$9.05 (\nu: 0.1)$
$A_{100 \times 217}^{\mathrm{dust}TE}$	$0.48^{+0.22}_{-0.22}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.054}_{-0.055}$	χ_{simall}^2	$397.2 (\nu: 1.9)$
$A_{143}^{\mathrm{dust}TE}$	$0.22^{+0.14}_{-0.14}$	z_{drag}	$1059.89^{+0.96}_{-0.87}$	χ_{lowl}^2	$23.32 (\nu: 0.3)$
$A_{143 \times 217}^{\mathrm{dust}TE}$	$0.66^{+0.21}_{-0.21}$	r_{drag}	$147.25^{+0.60}_{-0.61}$	χ_{plik}^2	$2359.4 (\nu: 17.0)$
$A_{217}^{\mathrm{dust}TE}$	$2.08^{+0.68}_{-0.67}$	k_{D}	$0.14080^{+0.00079}_{-0.00072}$	χ_{Aver15}^2	$0.9 (\nu: 0.7)$
c_{100}	$0.9997^{+0.0016}_{-0.0015}$	$100\theta_{\mathrm{D}}$	$0.16066^{+0.00054}_{-0.00053}$	$\chi_{6\mathrm{DF}}^2$	$0.055 (\nu: 0.0)$
c_{217}	$0.9982^{+0.0016}_{-0.0016}$	z_{eq}	3386^{+54}_{-54}	χ_{MGS}^2	$1.24 (\nu: 0.1)$
H_0	$67.6^{+1.1}_{-1.1}$	k_{eq}	$0.01033^{+0.00017}_{-0.00017}$	$\chi_{\mathrm{DR12BAO}}^2$	$4.9 (\nu: 0.9)$
Ω_{Λ}	$0.689^{+0.014}_{-0.015}$	$100\theta_{\mathrm{eq}}$	$0.816^{+0.010}_{-0.010}$	χ_{prior}^2	$11.5 (\nu: 10.1)$
Ω_{m}	$0.311^{+0.015}_{-0.014}$	$100\theta_{\mathrm{s,eq}}$	$0.4509^{+0.0053}_{-0.0052}$	χ_{CMB}^2	$2789.0 (\nu: 17.3)$
$\Omega_{\mathrm{m}}h^2$	$0.1423^{+0.0023}_{-0.0023}$	$H(0.15)$	$72.9^{+1.0}_{-0.93}$	χ_{BAO}^2	$6.2 (\nu: 0.6)$
$\Omega_{\mathrm{m}}h^3$	$0.09627^{+0.00083}_{-0.00081}$	$D_{\mathrm{M}}(0.15)$	$641.0^{+9.3}_{-9.7}$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 2807.50; R - 1 = 0.02309$$

20.63 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}}h^2$	0.022378	$0.02228^{+0.00042}_{-0.00042} \quad (-0.3\sigma)$	σ_8	0.8229	$0.808^{+0.020}_{-0.019} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	0.4516	$0.4503^{+0.0079}_{-0.0079} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}}h^2$	0.11902	$0.1196^{+0.0037}_{-0.0036} \quad (-0.4\sigma)$	S_8	0.8360	$0.826^{+0.042}_{-0.042} \quad (-0.5\sigma)$	$H(0.15)$	72.99	$72.7^{+1.4}_{-1.4} \quad (+0.2\sigma)$
$100\theta_{\mathrm{MC}}$	1.04099	$1.04081^{+0.00090}_{-0.00088} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	0.4579	$0.453^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	640.2	$643^{+14}_{-14} \quad (-0.3\sigma)$
τ	0.0706	$0.053^{+0.021}_{-0.022} \quad (-0.2\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	0.6138	$0.605^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	83.07	$82.8^{+1.0}_{-0.99} \quad (+0.2\sigma)$
Y_{P}	0.2447	$0.2438^{+0.0099}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	0.9999	$0.984^{+0.031}_{-0.030} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	1527.4	$1534^{+28}_{-28} \quad (-0.2\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	3.0785	$3.038^{+0.044}_{-0.043} \quad (-0.4\sigma)$	$r_{\mathrm{drag}}h$	99.79	$99.2^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$H(0.51)$	89.77	$89.58^{+0.82}_{-0.78} \quad (+0.1\sigma)$
n_{s}	0.9681	$0.965^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	2.471	$2.434^{+0.074}_{-0.072} \quad (-0.6\sigma)$	$D_{\mathrm{M}}(0.51)$	1978.9	$1986^{+32}_{-33} \quad (-0.2\sigma)$
y_{cal}	1.0030	$1.0004^{+0.0063}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	9.24	$7.5^{+2.1}_{-2.4} \quad (-0.2\sigma)$	$H(0.61)$	95.38	$95.21^{+0.67}_{-0.63} \quad (+0.0\sigma)$
A_{100}^{PS}	235	$240^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	2.173	$2.086^{+0.093}_{-0.087} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	2302.9	$2311^{+35}_{-35} \quad (-0.2\sigma)$
A_{143}^{PS}	42.8	$39^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	1.8866	$1.877^{+0.031}_{-0.029} \quad (-0.5\sigma)$	$H(2.33)$	235.93	$236.2^{+2.2}_{-2.2} \quad (-0.6\sigma)$
A_{217}^{PS}	105.0	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	1234.2	$1227^{+34}_{-33} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	5760.1	$5768^{+29}_{-31} \quad (+0.1\sigma)$
A_{217}^{CIB}	40.7	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	5753	$5717^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	0.4627	$0.457^{+0.021}_{-0.021} \quad (-0.5\sigma)$
A_{143}^{tSZ}	5.24	$< 8.83 \quad (-0.8\sigma)$	D_{810}	2548.6	$2534^{+35}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	0.7605	$0.746^{+0.018}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	0.674	$0.66^{+0.31}_{-0.33}$	D_{1420}	821.0	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	0.4818	$0.475^{+0.017}_{-0.017} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	0.73	—	D_{2000}	232.37	$230.3^{+4.1}_{-4.3} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	0.6744	$0.661^{+0.015}_{-0.014} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	0.54	—	$n_{\mathrm{s},0.002}$	0.9681	$0.965^{+0.013}_{-0.013} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	0.4806	$0.473^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A^{kSZ}	1.7	—	Y_{P}	0.2447	$0.2438^{+0.0099}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	0.6312	$0.618^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{100}^{dust}	1.009	$1.01^{+0.49}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.2460	$0.245^{+0.010}_{-0.0097} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	0.4756	$0.468^{+0.014}_{-0.014} \quad (-0.5\sigma)$
A_{143}^{dust}	0.953	$0.96^{+0.44}_{-0.45}$	Age/Gyr	13.791	$13.808^{+0.067}_{-0.069} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	0.6006	$0.588^{+0.013}_{-0.013} \quad (-0.4\sigma)$
A_{217}^{dust}	0.981	$0.97^{+0.27}_{-0.26}$	z_*	1089.80	$1089.94^{+0.82}_{-0.77} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	0.3029	$0.2966^{+0.0068}_{-0.0066} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	0.997	$1.03^{+0.42}_{-0.41}$	r_*	144.68	$144.61^{+0.82}_{-0.82} \quad (+0.6\sigma)$	$\sigma_8(2.33)$	0.3124	$0.3056^{+0.0072}_{-0.0070} \quad (-0.3\sigma)$
c_{100}	0.99773	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	1.04119	$1.04105^{+0.00081}_{-0.00081} \quad (-0.1\sigma)$	f_{2000}^{143}	28.8	$30^{+7}_{-7} \quad (+0.1\sigma)$
c_{217}	1.00116	$1.0011^{+0.0041}_{-0.0039} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.896	$13.890^{+0.076}_{-0.076} \quad (+0.7\sigma)$	f_{2000}^{217}	106.4	$106.8^{+5.1}_{-5.0} \quad (-0.1\sigma)$
c_{TE}	0.9951	$0.996^{+0.013}_{-0.013}$	z_{drag}	1059.86	$1059.64^{+0.98}_{-1.0} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	31.2	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{EE}	0.9916	$0.992^{+0.013}_{-0.013}$	r_{drag}	147.34	$147.30^{+0.83}_{-0.83} \quad (+0.7\sigma)$	χ_{small}^2	402.51	$396.9 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	67.73	$67.4^{+1.7}_{-1.6} \quad (+0.3\sigma)$	k_{D}	0.14064	$0.14064^{+0.00096}_{-0.00096} \quad (-0.9\sigma)$	χ_{lowl}^2	23.31	$23.3 \quad (\nu: 0.5) \quad (-0.4\sigma)$
Ω_{Λ}	0.6903	$0.686^{+0.022}_{-0.023} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	0.16076	$0.16082^{+0.00065}_{-0.00059} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	11498.1	$11514.6 \quad (\nu: 15.7)$
Ω_{m}	0.3097	$0.314^{+0.023}_{-0.022} \quad (-0.4\sigma)$	z_{eq}	3379	$3391^{+83}_{-81} \quad (-0.5\sigma)$	χ_{Aver15}^2	0.08	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}}h^2$	0.14204	$0.1425^{+0.0035}_{-0.0034} \quad (-0.5\sigma)$	k_{eq}	0.010313	$0.01035^{+0.00025}_{-0.00025} \quad (-0.5\sigma)$	χ_{prior}^2	3.4	$7.8 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	0.09620	$0.09604^{+0.00088}_{-0.00088} \quad (-0.7\sigma)$	$100\theta_{\mathrm{eq}}$	0.8175	$0.815^{+0.016}_{-0.016} \quad (+0.5\sigma)$	χ_{CMB}^2	11923.9	$11934.8 \quad (\nu: 16.1) \quad (+1550.3\sigma)$

Best-fit $\chi_{\mathrm{eff}}^2 = 11927.35$; $\Delta\chi_{\mathrm{eff}}^2 = 9161.78$; $\bar{\chi}_{\mathrm{eff}}^2 = 11943.52$; $\Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.81$; $R - 1 = 0.01118$
 χ_{eff}^2 : Abund - Yp_Aver2015: 0.08 (Δ 0.06) CMB - simall_100x143_offlike5_EE_Aplanck_B: 402.51 (Δ 6.45) commander_dx12_v3.2.29: 23.31 (Δ -0.17) CamSpec like_10.7HM_1400_unified: 11498.08

20.64 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02232^{+0.00039}_{-0.00039} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.448^{+0.018}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+21}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.601^{+0.019}_{-0.018} \quad (-0.5\sigma)$	$H(0.51)$	$89.73^{+0.63}_{-0.62} \quad (-0.1\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00083}_{-0.00085} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.979^{+0.028}_{-0.025} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+24}_{-24} \quad (-0.1\sigma)$
τ	$0.053^{+0.021}_{-0.021} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$H(0.61)$	$95.33^{+0.53}_{-0.52} \quad (-0.2\sigma)$
Y_{P}	$0.244^{+0.010}_{-0.0098} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.424^{+0.068}_{-0.061} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+26}_{-26} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.038^{+0.045}_{-0.041} \quad (-0.4\sigma)$	z_{re}	$7.6^{+2.1}_{-2.2} \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+1.6}_{-1.6} \quad (-0.5\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.087^{+0.095}_{-0.085} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+25}_{-25} \quad (+0.3\sigma)$
y_{cal}	$1.0004^{+0.0062}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.875^{+0.029}_{-0.027} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.453^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1224^{+32}_{-31} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.745^{+0.018}_{-0.016} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5721^{+98}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+34}_{-33} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.660^{+0.016}_{-0.014} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+3.9}_{-4.3} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.618^{+0.015}_{-0.013} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.012} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.244^{+0.010}_{-0.0098} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.588^{+0.014}_{-0.013} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0098} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2966^{+0.0070}_{-0.0064} \quad (-0.4\sigma)$
A^{kSZ}	—	Age/Gyr	$13.798^{+0.057}_{-0.057} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3059^{+0.0072}_{-0.0067} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.00^{+0.49}_{-0.51}$	z_*	$1089.83^{+0.68}_{-0.66} \quad (+0.3\sigma)$	f_{2000}^{143}	$29^{+8}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.45}$	r_*	$144.75^{+0.65}_{-0.64} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.6^{+5.1}_{-4.9} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	$1.04113^{+0.00075}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.40}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.903^{+0.063}_{-0.061} \quad (+0.7\sigma)$	χ_{small}^2	$397.0 \quad (\nu: 1.5) \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.70^{+0.96}_{-1.0} \quad (-0.5\sigma)$	χ_{lowl}^2	$22.93 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.44^{+0.71}_{-0.67} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.7 \quad (\nu: 15.9)$
c_{TE}	$0.997^{+0.012}_{-0.013}$	k_{D}	$0.14053^{+0.00083}_{-0.00086} \quad (-0.9\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16080^{+0.00063}_{-0.00058} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.046 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.1\sigma)$	z_{eq}	$3375^{+61}_{-61} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.36 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.016}_{-0.016} \quad (+0.3\sigma)$	k_{eq}	$0.01030^{+0.00019}_{-0.00018} \quad (-0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.011}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0025}_{-0.0025} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4519^{+0.0060}_{-0.0058} \quad (+0.4\sigma)$	χ_{BAO}^2	$6.0 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09604^{+0.00088}_{-0.00085} \quad (-0.7\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{CMB}^2	$11934.6 \quad (\nu: 15.8) \quad (+1548.6\sigma)$
σ_8	$0.806^{+0.020}_{-0.018} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$641^{+10}_{-10} \quad (-0.1\sigma)$		
S_8	$0.819^{+0.033}_{-0.032} \quad (-0.5\sigma)$	$H(0.38)$	$83.03^{+0.77}_{-0.75} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.33; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.32; R - 1 = 0.01547$$

20.65 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02228^{+0.00042}_{-0.00041} \quad (-0.4\sigma)$	S_8	$0.828^{+0.033}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$644^{+12}_{-13} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1197^{+0.0031}_{-0.0031} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$82.81^{+0.96}_{-0.88} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04080^{+0.00091}_{-0.00086} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.017} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+24}_{-25} \quad (-0.0\sigma)$
τ	$0.053^{+0.020}_{-0.020} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.024} \quad (-0.3\sigma)$	$H(0.51)$	$89.56^{+0.78}_{-0.71} \quad (-0.1\sigma)$
Y_{P}	$0.2437^{+0.0095}_{-0.0095} \quad (+0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.2^{+2.5}_{-2.4} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1987^{+29}_{-30} \quad (-0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.040^{+0.040}_{-0.039} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.439^{+0.057}_{-0.057} \quad (-0.3\sigma)$	$H(0.61)$	$95.20^{+0.63}_{-0.57} \quad (-0.2\sigma)$
n_{s}	$0.965^{+0.012}_{-0.012} \quad (+0.1\sigma)$	z_{re}	$7.6^{+1.9}_{-2.1} \quad (-0.1\sigma)$	$D_{\mathrm{M}}(0.61)$	$2312^{+31}_{-32} \quad (-0.0\sigma)$
y_{cal}	$1.0005^{+0.0062}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.091^{+0.084}_{-0.080} \quad (-0.2\sigma)$	$H(2.33)$	$236.3^{+1.9}_{-1.9} \quad (-0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.878^{+0.028}_{-0.028} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5769^{+28}_{-29} \quad (+0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1229^{+31}_{-32} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.016}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-40} \quad (-1.3\sigma)$	D_{220}	$5720^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2535^{+34}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.013} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{2000}	$230.3^{+4.0}_{-4.4} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.012} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2437^{+0.0095}_{-0.0095} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2450^{+0.0095}_{-0.0096} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.00^{+0.49}_{-0.51}$	Age/Gyr	$13.809^{+0.064}_{-0.067} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.2969^{+0.0062}_{-0.0060} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.45}$	z_*	$1089.95^{+0.77}_{-0.73} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3059^{+0.0066}_{-0.0067} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.26}$	r_*	$144.58^{+0.72}_{-0.72} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	$100\theta_*$	$1.04103^{+0.00080}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.8^{+5.0}_{-4.9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.888^{+0.067}_{-0.069} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.6^{+1.0}_{-1.0} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.28 \quad (\nu: 0.2) \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	r_{drag}	$147.27^{+0.73}_{-0.74} \quad (+0.6\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.3) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14067^{+0.00086}_{-0.00092} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.40 \quad (\nu: 0.4) \quad (-0.3\sigma)$
H_0	$67.3^{+1.5}_{-1.4} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00065}_{-0.00057} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 14.8)$
Ω_{Λ}	$0.685^{+0.019}_{-0.020} \quad (+0.2\sigma)$	z_{eq}	$3393^{+70}_{-70} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
Ω_{m}	$0.315^{+0.020}_{-0.019} \quad (-0.2\sigma)$	k_{eq}	$0.01036^{+0.00021}_{-0.00022} \quad (-0.3\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1426^{+0.0029}_{-0.0029} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.014}_{-0.013} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.6 \quad (\nu: 16.1) \quad (+1551.1\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09605^{+0.00088}_{-0.00087} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4501^{+0.0069}_{-0.0066} \quad (+0.3\sigma)$		
σ_8	$0.809^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$H(0.15)$	$72.6^{+1.3}_{-1.2} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.40; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.90; R - 1 = 0.01479$$

20.66 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02232^{+0.00039}_{-0.00039} \quad (-0.5\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+19}_{-20} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1191^{+0.0025}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$H(0.51)$	$89.70^{+0.62}_{-0.59} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00084}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.982^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+23}_{-23} \quad (+0.0\sigma)$
τ	$0.055^{+0.019}_{-0.019} \quad (-0.1\sigma)$	$r_{\mathrm{drag}}h$	$99.7^{+2.0}_{-1.9} \quad (+0.2\sigma)$	$H(0.61)$	$95.31^{+0.52}_{-0.51} \quad (-0.2\sigma)$
Y_{P}	$0.2439^{+0.0097}_{-0.0097} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.432^{+0.054}_{-0.052} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+25}_{-25} \quad (+0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.039}_{-0.038} \quad (-0.2\sigma)$	z_{re}	$7.7^{+1.9}_{-2.0} \quad (-0.1\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.4\sigma)$
n_{s}	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	10^9A_{s}	$2.096^{+0.084}_{-0.078} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+25}_{-25} \quad (+0.4\sigma)$
y_{cal}	$1.0006^{+0.0061}_{-0.0061} \quad (-0.1\sigma)$	$10^9A_{\mathrm{s}}e^{-2\tau}$	$1.876^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1226^{+30}_{-30} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.473^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2535^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.013} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.011} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.80 \quad (-0.8\sigma)$	D_{2000}	$230.5^{+3.9}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.012}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.011} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.011}_{-0.010} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2439^{+0.0097}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.012}_{-0.011} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2452^{+0.0098}_{-0.0098} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2973^{+0.0061}_{-0.0057} \quad (-0.3\sigma)$
A^{kSZ}	—	Age/Gyr	$13.799^{+0.057}_{-0.058} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3065^{+0.0064}_{-0.0061} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.49}_{-0.50}$	z_*	$1089.84^{+0.67}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.46}_{-0.44}$	r_*	$144.71^{+0.60}_{-0.59} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.6^{+5.0}_{-5.0} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.98^{+0.28}_{-0.27}$	$100\theta_*$	$1.04112^{+0.00076}_{-0.00073} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.058}_{-0.057} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.29 \quad (\nu: 0.3) \quad (+0.4\sigma)$
c_{100}	$0.9975^{+0.0029}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.71^{+0.99}_{-1.0} \quad (-0.5\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.40^{+0.64}_{-0.63} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.11 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.012}$	k_{D}	$0.14057^{+0.00080}_{-0.00085} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.1 \quad (\nu: 15.0)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00063}_{-0.00057} \quad (+0.6\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
H_0	$67.6^{+1.2}_{-1.1} \quad (+0.0\sigma)$	z_{eq}	$3379^{+56}_{-55} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.050 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.689^{+0.015}_{-0.015} \quad (+0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.29 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.311^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1420^{+0.0024}_{-0.0023} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4515^{+0.0054}_{-0.0054} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.09606^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	$H(0.15)$	$72.9^{+1.0}_{-0.96} \quad (-0.0\sigma)$	χ_{CMB}^2	$11943.5 \quad (\nu: 15.9) \quad (+1547.9\sigma)$
σ_8	$0.808^{+0.016}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$641.1^{+9.7}_{-9.8} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.1 \quad (\nu: 0.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$H(0.38)$	$83.00^{+0.76}_{-0.72} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.34; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.69; R - 1 = 0.01579$$

20.67 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02228^{+0.00042}_{-0.00042} \quad (-0.3\sigma)$	σ_8	$0.809^{+0.019}_{-0.017} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4505^{+0.0079}_{-0.0078} \quad (+0.5\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1196^{+0.0036}_{-0.0036} \quad (-0.5\sigma)$	S_8	$0.827^{+0.042}_{-0.042} \quad (-0.5\sigma)$	$H(0.15)$	$72.7^{+1.4}_{-1.3} \quad (+0.3\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04082^{+0.00091}_{-0.00088} \quad (-0.0\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.453^{+0.023}_{-0.023} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+14}_{-14} \quad (-0.3\sigma)$
τ	$0.054^{+0.018}_{-0.013} \quad (-0.1\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.605^{+0.021}_{-0.021} \quad (-0.5\sigma)$	$H(0.38)$	$82.9^{+1.0}_{-0.97} \quad (+0.2\sigma)$
Y_{P}	$0.2438^{+0.0099}_{-0.0096} \quad (+0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.985^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.38)$	$1533^{+27}_{-28} \quad (-0.3\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.041}_{-0.029} \quad (-0.4\sigma)$	$r_{\mathrm{drag}} h$	$99.3^{+2.8}_{-2.8} \quad (+0.4\sigma)$	$H(0.51)$	$89.59^{+0.81}_{-0.76} \quad (+0.1\sigma)$
n_{s}	$0.965^{+0.013}_{-0.012} \quad (+0.3\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.437^{+0.072}_{-0.071} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+32}_{-33} \quad (-0.2\sigma)$
y_{cal}	$1.0004^{+0.0063}_{-0.0063} \quad (-0.1\sigma)$	z_{re}	$< 9.41 \quad (-0.1\sigma)$	$H(0.61)$	$95.23^{+0.67}_{-0.61} \quad (+0.0\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.088}_{-0.060} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.61)$	$2310^{+34}_{-35} \quad (-0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.877^{+0.030}_{-0.029} \quad (-0.5\sigma)$	$H(2.33)$	$236.2^{+2.2}_{-2.2} \quad (-0.6\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{40}	$1227^{+34}_{-33} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(2.33)$	$5768^{+29}_{-31} \quad (+0.1\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{220}	$5717^{+100}_{-98} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.457^{+0.021}_{-0.022} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.83 \quad (-0.8\sigma)$	D_{810}	$2534^{+34}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.017}_{-0.015} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.31}_{-0.33}$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.475^{+0.017}_{-0.018} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	D_{2000}	$230.3^{+4.1}_{-4.3} \quad (-0.5\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.014}_{-0.012} \quad (-0.5\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.013}_{-0.012} \quad (+0.3\sigma)$	$f\sigma_8(0.51)$	$0.473^{+0.015}_{-0.015} \quad (-0.5\sigma)$
A^{kSZ}	—	Y_{P}	$0.2438^{+0.0099}_{-0.0096} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.013}_{-0.010} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.01^{+0.49}_{-0.50}$	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0097} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.468^{+0.014}_{-0.014} \quad (-0.5\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	Age/Gyr	$13.807^{+0.067}_{-0.069} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.013}_{-0.0097} \quad (-0.4\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	z_*	$1089.93^{+0.80}_{-0.78} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2970^{+0.0065}_{-0.0048} \quad (-0.4\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.41}$	r_*	$144.62^{+0.81}_{-0.82} \quad (+0.7\sigma)$	$\sigma_8(2.33)$	$0.3061^{+0.0068}_{-0.0049} \quad (-0.3\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$100\theta_*$	$1.04105^{+0.00082}_{-0.00081} \quad (-0.1\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
c_{217}	$1.0011^{+0.0041}_{-0.0039} \quad (+4.7\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.891^{+0.076}_{-0.076} \quad (+0.7\sigma)$	f_{2000}^{217}	$106.7^{+5.0}_{-5.0} \quad (-0.1\sigma)$
c_{TE}	$0.996^{+0.013}_{-0.013}$	z_{drag}	$1059.7^{+1.0}_{-1.0} \quad (-0.4\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	r_{drag}	$147.31^{+0.84}_{-0.83} \quad (+0.7\sigma)$	χ_{small}^2	$396.8 \quad (\nu: 1.4) \quad (-0.1\sigma)$
H_0	$67.4^{+1.6}_{-1.6} \quad (+0.3\sigma)$	k_{D}	$0.14063^{+0.00096}_{-0.00096} \quad (-0.9\sigma)$	χ_{lowl}^2	$23.3 \quad (\nu: 0.5) \quad (-0.4\sigma)$
Ω_{Λ}	$0.686^{+0.022}_{-0.023} \quad (+0.4\sigma)$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00064}_{-0.00059} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.4 \quad (\nu: 15.6)$
Ω_{m}	$0.314^{+0.023}_{-0.022} \quad (-0.4\sigma)$	z_{eq}	$3390^{+83}_{-81} \quad (-0.5\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1425^{+0.0035}_{-0.0034} \quad (-0.5\sigma)$	k_{eq}	$0.01035^{+0.00025}_{-0.00025} \quad (-0.5\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.6) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09604^{+0.00088}_{-0.00089} \quad (-0.7\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.015}_{-0.015} \quad (+0.5\sigma)$	χ_{CMB}^2	$11934.5 \quad (\nu: 15.7) \quad (+1569.9\sigma)$

$$\bar{\chi}_{\mathrm{eff}}^2 = 11943.23; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.77; R - 1 = 0.01041$$

20.68 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00039} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.449^{+0.018}_{-0.018} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(0.38)$	$1528^{+20}_{-20} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1189^{+0.0026}_{-0.0026} \quad (-0.4\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.602^{+0.018}_{-0.017} \quad (-0.5\sigma)$	$H(0.51)$	$89.73^{+0.63}_{-0.62} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04091^{+0.00084}_{-0.00086} \quad (-0.1\sigma)$	$\sigma_8/h^{0.5}$	$0.980^{+0.027}_{-0.025} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.51)$	$1980^{+24}_{-24} \quad (-0.1\sigma)$
τ	$0.055^{+0.019}_{-0.013} \quad (-0.2\sigma)$	$r_{\mathrm{drag}} h$	$99.8^{+2.1}_{-2.0} \quad (+0.3\sigma)$	$H(0.61)$	$95.33^{+0.53}_{-0.52} \quad (-0.1\sigma)$
Y_{P}	$0.2440^{+0.0099}_{-0.0098} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.427^{+0.066}_{-0.059} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.61)$	$2304^{+26}_{-26} \quad (-0.1\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.041^{+0.043}_{-0.030} \quad (-0.4\sigma)$	z_{re}	$< 9.47 \quad (-0.2\sigma)$	$H(2.33)$	$235.8^{+1.6}_{-1.7} \quad (-0.6\sigma)$
n_{s}	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$10^9 A_{\mathrm{s}}$	$2.092^{+0.092}_{-0.062} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5763^{+25}_{-25} \quad (+0.3\sigma)$
y_{cal}	$1.0004^{+0.0061}_{-0.0062} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.874^{+0.028}_{-0.027} \quad (-0.5\sigma)$	$f\sigma_8(0.15)$	$0.454^{+0.017}_{-0.017} \quad (-0.5\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1224^{+32}_{-30} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.746^{+0.017}_{-0.014} \quad (-0.5\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5721^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.472^{+0.015}_{-0.014} \quad (-0.5\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{810}	$2534^{+34}_{-34} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.661^{+0.015}_{-0.011} \quad (-0.4\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.471^{+0.014}_{-0.013} \quad (-0.5\sigma)$
A_{143}^{tSZ}	$< 8.82 \quad (-0.8\sigma)$	D_{2000}	$230.4^{+4.0}_{-4.2} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.619^{+0.014}_{-0.010} \quad (-0.4\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.34}$	$n_{\mathrm{s},0.002}$	$0.967^{+0.011}_{-0.011} \quad (+0.2\sigma)$	$f\sigma_8(0.61)$	$0.466^{+0.013}_{-0.012} \quad (-0.5\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2440^{+0.0099}_{-0.0098} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.589^{+0.014}_{-0.0096} \quad (-0.4\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.245^{+0.010}_{-0.0098} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2970^{+0.0068}_{-0.0049} \quad (-0.4\sigma)$
A^{kSZ}	—	Age/Gyr	$13.797^{+0.057}_{-0.057} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0069}_{-0.0049} \quad (-0.4\sigma)$
A_{100}^{dust}	$1.00^{+0.48}_{-0.49}$	z_*	$1089.82^{+0.68}_{-0.66} \quad (+0.3\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.97^{+0.46}_{-0.44}$	r_*	$144.76^{+0.65}_{-0.64} \quad (+0.6\sigma)$	f_{2000}^{217}	$106.6^{+5.2}_{-5.0} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.26}$	$100\theta_*$	$1.04113^{+0.00075}_{-0.00074} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (+0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.41}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.904^{+0.063}_{-0.061} \quad (+0.7\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.5) \quad (-0.2\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0028} \quad (-3.5\sigma)$	z_{drag}	$1059.71^{+0.99}_{-1.0} \quad (-0.5\sigma)$	χ_{lowl}^2	$22.95 \quad (\nu: 0.4) \quad (-0.4\sigma)$
c_{217}	$1.0011^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.44^{+0.71}_{-0.67} \quad (+0.7\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.5 \quad (\nu: 15.8)$
c_{TE}	$0.997^{+0.013}_{-0.013}$	k_{D}	$0.14052^{+0.00084}_{-0.00086} \quad (-0.9\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00063}_{-0.00058} \quad (+0.6\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.044 \quad (\nu: 0.0) \quad (-0.2\sigma)$
H_0	$67.7^{+1.2}_{-1.2} \quad (+0.2\sigma)$	z_{eq}	$3375^{+60}_{-61} \quad (-0.5\sigma)$	χ_{MGS}^2	$1.37 \quad (\nu: 0.1) \quad (+0.3\sigma)$
Ω_{Λ}	$0.690^{+0.016}_{-0.016} \quad (+0.3\sigma)$	k_{eq}	$0.01030^{+0.00018}_{-0.00019} \quad (-0.5\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.6 \quad (\nu: 0.8) \quad (-0.2\sigma)$
Ω_{m}	$0.310^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.818^{+0.012}_{-0.011} \quad (+0.4\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1419^{+0.0025}_{-0.0026} \quad (-0.5\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4520^{+0.0059}_{-0.0058} \quad (+0.5\sigma)$	χ_{BAO}^2	$5.97 \quad (\nu: 0.5) \quad (-0.2\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09605^{+0.00089}_{-0.00084} \quad (-0.7\sigma)$	$H(0.15)$	$73.0^{+1.0}_{-1.0} \quad (+0.1\sigma)$	χ_{CMB}^2	$11934.4 \quad (\nu: 15.6) \quad (+1558.9\sigma)$
σ_8	$0.807^{+0.019}_{-0.016} \quad (-0.5\sigma)$	$D_{\mathrm{M}}(0.15)$	$640^{+10}_{-9.9} \quad (-0.1\sigma)$		
S_8	$0.819^{+0.033}_{-0.033} \quad (-0.4\sigma)$	$H(0.38)$	$83.04^{+0.78}_{-0.76} \quad (+0.0\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11949.07; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.26; R - 1 = 0.01536$$

20.69 base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_lensing_zre6p5

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}}h^2$	$0.02228^{+0.00041}_{-0.00042} \quad (-0.4\sigma)$	S_8	$0.828^{+0.032}_{-0.033} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$643^{+12}_{-12} \quad (-0.1\sigma)$
$\Omega_{\mathrm{c}}h^2$	$0.1196^{+0.0030}_{-0.0031} \quad (-0.3\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.5}$	$0.454^{+0.018}_{-0.018} \quad (-0.3\sigma)$	$H(0.38)$	$82.83^{+0.95}_{-0.84} \quad (-0.0\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04081^{+0.00090}_{-0.00087} \quad (-0.1\sigma)$	$\sigma_8\Omega_{\mathrm{m}}^{0.25}$	$0.606^{+0.016}_{-0.016} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1534^{+23}_{-25} \quad (-0.1\sigma)$
τ	$0.055^{+0.018}_{-0.013} \quad (-0.0\sigma)$	$\sigma_8/h^{0.5}$	$0.986^{+0.023}_{-0.023} \quad (-0.3\sigma)$	$H(0.51)$	$89.58^{+0.77}_{-0.68} \quad (-0.1\sigma)$
Y_{P}	$0.2437^{+0.0095}_{-0.0096} \quad (+0.1\sigma)$	$r_{\mathrm{drag}}h$	$99.2^{+2.5}_{-2.3} \quad (+0.2\sigma)$	$D_{\mathrm{M}}(0.51)$	$1986^{+28}_{-30} \quad (-0.0\sigma)$
$\ln(10^{10}A_{\mathrm{s}})$	$3.042^{+0.038}_{-0.028} \quad (-0.2\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.441^{+0.057}_{-0.056} \quad (-0.3\sigma)$	$H(0.61)$	$95.21^{+0.62}_{-0.56} \quad (-0.1\sigma)$
n_{s}	$0.965^{+0.012}_{-0.011} \quad (+0.1\sigma)$	z_{re}	$< 9.38 \quad (-0.0\sigma)$	$D_{\mathrm{M}}(0.61)$	$2311^{+30}_{-32} \quad (-0.0\sigma)$
y_{cal}	$1.0004^{+0.0062}_{-0.0063} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.095^{+0.081}_{-0.057} \quad (-0.2\sigma)$	$H(2.33)$	$236.2^{+1.8}_{-1.9} \quad (-0.4\sigma)$
A_{100}^{PS}	$240^{+60}_{-60} \quad (-0.6\sigma)$	$10^9 A_{\mathrm{s}}e^{-2\tau}$	$1.878^{+0.027}_{-0.028} \quad (-0.4\sigma)$	$D_{\mathrm{M}}(2.33)$	$5768^{+28}_{-30} \quad (+0.2\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{40}	$1229^{+31}_{-31} \quad (-0.3\sigma)$	$f\sigma_8(0.15)$	$0.458^{+0.016}_{-0.017} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.3\sigma)$	D_{220}	$5720^{+100}_{-100} \quad (-0.4\sigma)$	$\sigma_8(0.15)$	$0.748^{+0.014}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{CIB}	$40^{+20}_{-20} \quad (-1.0\sigma)$	D_{810}	$2534^{+33}_{-34} \quad (-0.3\sigma)$	$f\sigma_8(0.38)$	$0.476^{+0.013}_{-0.014} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.8\sigma)$	D_{1420}	$816^{+12}_{-12} \quad (-0.4\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.012}_{-0.010} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.33}$	D_{2000}	$230.3^{+4.0}_{-4.4} \quad (-0.5\sigma)$	$f\sigma_8(0.51)$	$0.474^{+0.011}_{-0.012} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	$n_{\mathrm{s},0.002}$	$0.965^{+0.012}_{-0.011} \quad (+0.1\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0093} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	Y_{P}	$0.2437^{+0.0095}_{-0.0096} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.469^{+0.010}_{-0.011} \quad (-0.3\sigma)$
A^{kSZ}	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2450^{+0.0095}_{-0.0096} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0088} \quad (-0.3\sigma)$
A_{100}^{dust}	$1.00^{+0.49}_{-0.51}$	Age/Gyr	$13.808^{+0.063}_{-0.066} \quad (+0.3\sigma)$	$f\sigma_8(2.33)$	$0.2972^{+0.0059}_{-0.0045} \quad (-0.2\sigma)$
A_{143}^{dust}	$0.96^{+0.44}_{-0.45}$	z_*	$1089.93^{+0.73}_{-0.72} \quad (+0.3\sigma)$	$\sigma_8(2.33)$	$0.3063^{+0.0064}_{-0.0048} \quad (-0.2\sigma)$
A_{217}^{dust}	$0.97^{+0.27}_{-0.26}$	r_*	$144.60^{+0.72}_{-0.71} \quad (+0.5\sigma)$	f_{2000}^{143}	$30^{+7}_{-7} \quad (+0.1\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.42}_{-0.42}$	$100\theta_*$	$1.04104^{+0.00080}_{-0.00077} \quad (-0.2\sigma)$	f_{2000}^{217}	$106.7^{+4.9}_{-4.9} \quad (-0.1\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.890^{+0.068}_{-0.068} \quad (+0.5\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
c_{217}	$1.0011^{+0.0042}_{-0.0040} \quad (+4.7\sigma)$	z_{drag}	$1059.7^{+1.0}_{-1.0} \quad (-0.4\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.23 \quad (\nu: 0.2) \quad (+0.1\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.012}$	r_{drag}	$147.29^{+0.72}_{-0.73} \quad (+0.6\sigma)$	χ_{small}^2	$396.9 \quad (\nu: 1.4) \quad (-0.0\sigma)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	k_{D}	$0.14066^{+0.00087}_{-0.00091} \quad (-0.8\sigma)$	χ_{lowl}^2	$23.38 \quad (\nu: 0.4) \quad (-0.3\sigma)$
H_0	$67.4^{+1.5}_{-1.3} \quad (+0.1\sigma)$	$100\theta_{\mathrm{D}}$	$0.16081^{+0.00063}_{-0.00057} \quad (+0.5\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11513.9 \quad (\nu: 14.7)$
Ω_{Λ}	$0.686^{+0.019}_{-0.019} \quad (+0.2\sigma)$	z_{eq}	$3392^{+68}_{-69} \quad (-0.3\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
Ω_{m}	$0.314^{+0.019}_{-0.019} \quad (-0.2\sigma)$	k_{eq}	$0.01035^{+0.00021}_{-0.00021} \quad (-0.3\sigma)$	χ_{prior}^2	$7.9 \quad (\nu: 5.7) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}}h^2$	$0.1426^{+0.0028}_{-0.0029} \quad (-0.3\sigma)$	$100\theta_{\mathrm{eq}}$	$0.815^{+0.013}_{-0.013} \quad (+0.3\sigma)$	χ_{CMB}^2	$11943.4 \quad (\nu: 15.7) \quad (+1568.4\sigma)$
$\Omega_{\mathrm{m}}h^3$	$0.09605^{+0.00088}_{-0.00089} \quad (-0.6\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4503^{+0.0069}_{-0.0064} \quad (+0.3\sigma)$		
σ_8	$0.809^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.15)$	$72.7^{+1.3}_{-1.2} \quad (+0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11952.14; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.88; R - 1 = 0.01491$$

20.70 **base_yhe_CamSpecHM_TTTEEE_lowl_lowE_Aver15_post_BAO_lensing_zre6p5**

Parameter	99% limits	Parameter	99% limits	Parameter	99% limits
$\Omega_{\mathrm{b}} h^2$	$0.02233^{+0.00039}_{-0.00039} \quad (-0.5\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	$0.450^{+0.015}_{-0.015} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.38)$	$1529^{+19}_{-20} \quad (+0.0\sigma)$
$\Omega_{\mathrm{c}} h^2$	$0.1190^{+0.0024}_{-0.0024} \quad (-0.3\sigma)$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	$0.603^{+0.015}_{-0.014} \quad (-0.3\sigma)$	$H(0.51)$	$89.71^{+0.62}_{-0.60} \quad (-0.2\sigma)$
$100\theta_{\mathrm{MC}}$	$1.04089^{+0.00084}_{-0.00085} \quad (-0.2\sigma)$	$\sigma_8/h^{0.5}$	$0.983^{+0.022}_{-0.021} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.51)$	$1981^{+23}_{-23} \quad (+0.0\sigma)$
τ	$0.056^{+0.018}_{-0.014} \quad (-0.1\sigma)$	$r_{\mathrm{drag}} h$	$99.7^{+1.9}_{-1.9} \quad (+0.2\sigma)$	$H(0.61)$	$95.32^{+0.52}_{-0.51} \quad (-0.2\sigma)$
Y_{P}	$0.2439^{+0.0097}_{-0.0097} \quad (+0.1\sigma)$	$\langle d^2 \rangle^{1/2}$	$2.433^{+0.053}_{-0.051} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.61)$	$2305^{+25}_{-25} \quad (+0.0\sigma)$
$\ln(10^{10} A_{\mathrm{s}})$	$3.044^{+0.038}_{-0.029} \quad (-0.2\sigma)$	z_{re}	$< 9.46 \quad (-0.1\sigma)$	$H(2.33)$	$235.9^{+1.5}_{-1.5} \quad (-0.4\sigma)$
n_{s}	$0.966^{+0.011}_{-0.010} \quad (+0.1\sigma)$	$10^9 A_{\mathrm{s}}$	$2.099^{+0.082}_{-0.060} \quad (-0.2\sigma)$	$D_{\mathrm{M}}(2.33)$	$5764^{+25}_{-25} \quad (+0.4\sigma)$
y_{cal}	$1.0006^{+0.0060}_{-0.0061} \quad (-0.1\sigma)$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	$1.876^{+0.027}_{-0.027} \quad (-0.4\sigma)$	$f\sigma_8(0.15)$	$0.455^{+0.014}_{-0.014} \quad (-0.3\sigma)$
A_{100}^{PS}	$239^{+60}_{-60} \quad (-0.6\sigma)$	D_{40}	$1226^{+30}_{-30} \quad (-0.3\sigma)$	$\sigma_8(0.15)$	$0.747^{+0.015}_{-0.012} \quad (-0.3\sigma)$
A_{143}^{PS}	$39^{+20}_{-20} \quad (-0.8\sigma)$	D_{220}	$5725^{+100}_{-100} \quad (-0.4\sigma)$	$f\sigma_8(0.38)$	$0.474^{+0.012}_{-0.012} \quad (-0.3\sigma)$
A_{217}^{PS}	$102^{+30}_{-30} \quad (-1.2\sigma)$	D_{810}	$2535^{+33}_{-34} \quad (-0.3\sigma)$	$\sigma_8(0.38)$	$0.662^{+0.013}_{-0.010} \quad (-0.3\sigma)$
A_{217}^{CIB}	$39^{+20}_{-20} \quad (-1.1\sigma)$	D_{1420}	$816^{+11}_{-12} \quad (-0.4\sigma)$	$f\sigma_8(0.51)$	$0.472^{+0.011}_{-0.010} \quad (-0.3\sigma)$
A_{143}^{tSZ}	$< 8.77 \quad (-0.8\sigma)$	D_{2000}	$230.5^{+3.9}_{-4.1} \quad (-0.5\sigma)$	$\sigma_8(0.51)$	$0.620^{+0.012}_{-0.0095} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{PS}}$	$0.66^{+0.32}_{-0.33}$	$n_{\mathrm{s},0.002}$	$0.966^{+0.011}_{-0.010} \quad (+0.1\sigma)$	$f\sigma_8(0.61)$	$0.467^{+0.010}_{-0.0095} \quad (-0.3\sigma)$
$r_{143 \times 217}^{\mathrm{CIB}}$	—	Y_{P}	$0.2439^{+0.0097}_{-0.0097} \quad (+0.1\sigma)$	$\sigma_8(0.61)$	$0.590^{+0.011}_{-0.0090} \quad (-0.3\sigma)$
$\xi^{\mathrm{tSZ} \times \mathrm{CIB}}$	—	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	$0.2452^{+0.0097}_{-0.0098} \quad (+0.1\sigma)$	$f\sigma_8(2.33)$	$0.2975^{+0.0060}_{-0.0046} \quad (-0.2\sigma)$
A^{kSZ}	—	Age/Gyr	$13.799^{+0.057}_{-0.058} \quad (+0.4\sigma)$	$\sigma_8(2.33)$	$0.3067^{+0.0062}_{-0.0048} \quad (-0.2\sigma)$
A_{100}^{dust}	$1.00^{+0.49}_{-0.50}$	z_*	$1089.84^{+0.67}_{-0.65} \quad (+0.4\sigma)$	f_{2000}^{143}	$29^{+7}_{-7} \quad (+0.1\sigma)$
A_{143}^{dust}	$0.96^{+0.45}_{-0.44}$	r_*	$144.72^{+0.60}_{-0.59} \quad (+0.5\sigma)$	f_{2000}^{217}	$106.6^{+5.0}_{-5.0} \quad (-0.1\sigma)$
A_{217}^{dust}	$0.97^{+0.28}_{-0.27}$	$100\theta_*$	$1.04112^{+0.00077}_{-0.00073} \quad (-0.2\sigma)$	$f_{2000}^{143 \times 217}$	$32^{+5}_{-5} \quad (-0.0\sigma)$
$A_{143 \times 217}^{\mathrm{dust}}$	$1.03^{+0.43}_{-0.42}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	$13.900^{+0.057}_{-0.057} \quad (+0.6\sigma)$	$\chi_{\mathrm{lensing}}^2$	$9.23 \quad (\nu: 0.2) \quad (+0.4\sigma)$
c_{100}	$0.9975^{+0.0028}_{-0.0027} \quad (-3.5\sigma)$	z_{drag}	$1059.71^{+0.98}_{-1.0} \quad (-0.5\sigma)$	χ_{small}^2	$397.1 \quad (\nu: 1.6) \quad (-0.1\sigma)$
c_{217}	$1.0011^{+0.0043}_{-0.0040} \quad (+4.7\sigma)$	r_{drag}	$147.40^{+0.63}_{-0.63} \quad (+0.6\sigma)$	χ_{lowl}^2	$23.11 \quad (\nu: 0.3) \quad (-0.3\sigma)$
c_{TE}	$0.996^{+0.012}_{-0.012}$	k_{D}	$0.14056^{+0.00080}_{-0.00085} \quad (-0.8\sigma)$	$\chi_{\mathrm{CamSpec}}^2$	$11514.0 \quad (\nu: 14.9)$
c_{EE}	$0.992^{+0.013}_{-0.013}$	$100\theta_{\mathrm{D}}$	$0.16079^{+0.00063}_{-0.00058} \quad (+0.6\sigma)$	χ_{Aver15}^2	$0.9 \quad (\nu: 0.8) \quad (+0.0\sigma)$
H_0	$67.6^{+1.1}_{-1.1} \quad (+0.0\sigma)$	z_{eq}	$3378^{+55}_{-55} \quad (-0.4\sigma)$	$\chi_{6\mathrm{DF}}^2$	$0.048 \quad (\nu: 0.0) \quad (-0.1\sigma)$
Ω_{Λ}	$0.690^{+0.015}_{-0.015} \quad (+0.1\sigma)$	k_{eq}	$0.01031^{+0.00017}_{-0.00017} \quad (-0.4\sigma)$	χ_{MGS}^2	$1.30 \quad (\nu: 0.1) \quad (+0.2\sigma)$
Ω_{m}	$0.310^{+0.015}_{-0.015} \quad (-0.1\sigma)$	$100\theta_{\mathrm{eq}}$	$0.817^{+0.010}_{-0.010} \quad (+0.3\sigma)$	$\chi_{\mathrm{DR12BAO}}^2$	$4.7 \quad (\nu: 0.8) \quad (-0.1\sigma)$
$\Omega_{\mathrm{m}} h^2$	$0.1420^{+0.0023}_{-0.0023} \quad (-0.4\sigma)$	$100\theta_{\mathrm{s,eq}}$	$0.4516^{+0.0053}_{-0.0053} \quad (+0.3\sigma)$	χ_{prior}^2	$7.8 \quad (\nu: 5.8) \quad (-0.8\sigma)$
$\Omega_{\mathrm{m}} h^3$	$0.09606^{+0.00088}_{-0.00086} \quad (-0.7\sigma)$	$H(0.15)$	$72.9^{+1.0}_{-0.95} \quad (-0.0\sigma)$	χ_{CMB}^2	$11943.4 \quad (\nu: 15.6) \quad (+1554.5\sigma)$
σ_8	$0.808^{+0.016}_{-0.014} \quad (-0.3\sigma)$	$D_{\mathrm{M}}(0.15)$	$641.0^{+9.6}_{-9.7} \quad (-0.0\sigma)$	χ_{BAO}^2	$6.02 \quad (\nu: 0.5) \quad (-0.1\sigma)$
S_8	$0.822^{+0.028}_{-0.027} \quad (-0.3\sigma)$	$H(0.38)$	$83.00^{+0.75}_{-0.72} \quad (-0.1\sigma)$		

$$\bar{\chi}_{\mathrm{eff}}^2 = 11958.15; \Delta\bar{\chi}_{\mathrm{eff}}^2 = 9150.65; R - 1 = 0.01663$$

20.71 base_yhe_CleanedCamSpecHM_TT_lowl_lowE

Parameter	Best fit	99% limits	Parameter	Best fit	99% limits	Parameter	Best fit	99% limits
$\Omega_{\mathrm{b}} h^2$	0.02214	$0.02212^{+0.00077}_{-0.00077}$	$\sigma_8 \Omega_{\mathrm{m}}^{0.25}$	0.6098	$0.608^{+0.031}_{-0.030}$	$H(0.15)$	72.42	$72.4^{+2.5}_{-2.5}$
$\Omega_{\mathrm{c}} h^2$	0.1204	$0.1203^{+0.0058}_{-0.0053}$	$\sigma_8/h^{0.5}$	0.9914	$0.989^{+0.042}_{-0.042}$	$D_{\mathrm{M}}(0.15)$	645.9	646^{+26}_{-24}
$100\theta_{\mathrm{MC}}$	1.04103	$1.0408^{+0.0024}_{-0.0024}$	$r_{\mathrm{drag}} h$	98.75	$98.7^{+4.6}_{-4.7}$	$H(0.38)$	82.64	$82.6^{+2.0}_{-1.9}$
τ	0.0524	$0.052^{+0.022}_{-0.022}$	$\langle d^2 \rangle^{1/2}$	2.446	$2.45^{+0.11}_{-0.11}$	$D_{\mathrm{M}}(0.38)$	1539	1540^{+52}_{-50}
Y_{P}	0.253	$0.246^{+0.054}_{-0.056}$	z_{re}	7.57	$7.5^{+2.1}_{-2.5}$	$H(0.51)$	89.43	$89.4^{+1.6}_{-1.5}$
$\ln(10^{10} A_{\mathrm{s}})$	3.0406	$3.038^{+0.050}_{-0.048}$	$10^9 A_{\mathrm{s}}$	2.092	$2.09^{+0.11}_{-0.097}$	$D_{\mathrm{M}}(0.51)$	1992	1994^{+61}_{-59}
n_{s}	0.9647	$0.963^{+0.029}_{-0.028}$	$10^9 A_{\mathrm{s}} e^{-2\tau}$	1.8836	$1.880^{+0.041}_{-0.040}$	$H(0.61)$	95.10	$95.1^{+1.4}_{-1.3}$
y_{cal}	1.0004	$1.0004^{+0.0065}_{-0.0063}$	D_{40}	1229	1231^{+59}_{-55}	$D_{\mathrm{M}}(0.61)$	2318	2319^{+66}_{-64}
A_{100}^{PS}	260	257^{+70}_{-80}	D_{220}	5706	5707^{+110}_{-110}	$H(2.33)$	236.58	$236.5^{+3.4}_{-3.1}$
A_{143}^{tSZ}	6.00	< 8.94	D_{810}	2532.5	2531^{+37}_{-38}	$D_{\mathrm{M}}(2.33)$	5773	5776^{+67}_{-68}
A^{kSZ}	0.6	—	D_{1420}	811.5	812^{+14}_{-15}	$f\sigma_8(0.15)$	0.4621	$0.461^{+0.033}_{-0.031}$
A_{100}^{dust}	1.001	$1.01^{+0.50}_{-0.49}$	D_{2000}	228.1	$228.8^{+6.6}_{-7.0}$	$\sigma_8(0.15)$	0.7496	$0.748^{+0.023}_{-0.023}$
A_{143}^{power}	13.4	$10.7^{+8.2}_{-6.7}$	$n_{\mathrm{s},0.002}$	0.9647	$0.963^{+0.029}_{-0.028}$	$f\sigma_8(0.38)$	0.4789	$0.478^{+0.025}_{-0.025}$
A_{217}^{power}	12.8	$8.5^{+8.5}_{-5.4}$	Y_{P}	0.253	$0.246^{+0.054}_{-0.056}$	$\sigma_8(0.38)$	0.6637	$0.662^{+0.020}_{-0.019}$
$A_{143 \times 217}^{\mathrm{power}}$	9.0	< 12.4	$Y_{\mathrm{P}}^{\mathrm{BBN}}$	0.254	$0.247^{+0.054}_{-0.056}$	$f\sigma_8(0.51)$	0.4767	$0.475^{+0.021}_{-0.022}$
$\gamma_{143}^{\mathrm{power}}$	1.27	> 0.342	Age/Gyr	13.819	$13.83^{+0.15}_{-0.15}$	$\sigma_8(0.51)$	0.6208	$0.619^{+0.019}_{-0.018}$
$\gamma_{217}^{\mathrm{power}}$	1.06	—	z_*	1090.55	$1090.3^{+1.8}_{-1.7}$	$f\sigma_8(0.61)$	0.4712	$0.470^{+0.019}_{-0.019}$
$\gamma_{143 \times 217}^{\mathrm{power}}$	1.04	—	r_*	144.49	$144.5^{+1.2}_{-1.2}$	$\sigma_8(0.61)$	0.5905	$0.589^{+0.018}_{-0.017}$
c_{100}	0.99799	$0.9978^{+0.0027}_{-0.0028}$	$100\theta_*$	1.04104	$1.0410^{+0.0013}_{-0.0013}$	$f\sigma_8(2.33)$	0.2975	$0.2967^{+0.0095}_{-0.0089}$
c_{217}	0.99944	$0.9994^{+0.0045}_{-0.0035}$	$D_{\mathrm{M}}(z_*)/\mathrm{Gpc}$	13.879	$13.89^{+0.12}_{-0.12}$	$\sigma_8(2.33)$	0.3064	$0.306^{+0.010}_{-0.0098}$
H_0	67.07	$67.0^{+2.9}_{-2.9}$	z_{drag}	1059.67	$1059.4^{+3.3}_{-3.2}$	f_{2000}^{143}	25.2	24^{+10}_{-10}
Ω_{Λ}	0.6818	$0.681^{+0.035}_{-0.041}$	r_{drag}	147.23	$147.3^{+1.3}_{-1.3}$	f_{2000}^{217}	18.0	$17.1^{+7.7}_{-7.1}$
Ω_{m}	0.3182	$0.319^{+0.041}_{-0.035}$	k_{D}	0.14024	$0.1404^{+0.0020}_{-0.0019}$	$f_{2000}^{143 \times 217}$	12.8	$11.4^{+8.5}_{-7.6}$
$\Omega_{\mathrm{m}} h^2$	0.1431	$0.1431^{+0.0053}_{-0.0049}$	$100\theta_{\mathrm{D}}$	0.16140	$0.1611^{+0.0021}_{-0.0020}$	χ_{simall}^2	395.88	$396.9 (\nu: 1.4)$
$\Omega_{\mathrm{m}} h^3$	0.09601	$0.0959^{+0.0021}_{-0.0020}$	z_{eq}	3405	3403^{+130}_{-120}	χ_{lowl}^2	23.3	$23.9 (\nu: 2.2)$
σ_8	0.8119	$0.810^{+0.026}_{-0.026}$	k_{eq}	0.010394	$0.01039^{+0.00039}_{-0.00036}$	$\chi_{\mathrm{CamSpec}}^2$	6704.6	$6717.0 (\nu: 14.9)$
S_8	0.836	$0.835^{+0.065}_{-0.062}$	$100\theta_{\mathrm{eq}}$	0.8122	$0.812^{+0.023}_{-0.024}$	χ_{prior}^2	1.2	$5.3 (\nu: 4.3)$
$\sigma_8 \Omega_{\mathrm{m}}^{0.5}$	0.4580	$0.457^{+0.036}_{-0.034}$	$100\theta_{\mathrm{s,eq}}$	0.4490	$0.449^{+0.012}_{-0.012}$	χ_{CMB}^2	7123.8	$7137.8 (\nu: 14.9)$

Best-fit $\chi_{\mathrm{eff}}^2 = 7125.00$; $\bar{\chi}_{\mathrm{eff}}^2 = 7143.10$; $R - 1 = 0.00767$

χ_{eff}^2 : CMB - simall_100x143_offlike5_EE_Aplanck_B: 395.88 commander_dx12_v3_2_29: 23.34 CamSpec like_10.7cleaned: 6704.60