

WMAP Cosmological Parameters

Model: lcdm+nrel+yhe

Data: wmap9+spt+act+bao

$10^9 \Delta_{\mathcal{R}}^2$	$2.444^{+0.082}_{-0.081}$	H_0	66.9 ± 3.4 km/s/Mpc
N_{eff}	2.58 ± 0.67	$A_{\text{clustered}}$	$5.8^{+4.3}_{-5.8}$
$A_{\text{Poisson}}^{\text{ACT}}$	13.4 ± 2.7	$A_{\text{Poisson}}^{\text{SPT}}$	21.6 ± 4.6
$\ell(\ell+1)C_{220}/(2\pi)$	$5745 \pm 31 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	14515^{+616}_{-625} Mpc
$d_A(z_*)$	14341^{+607}_{-616} Mpc	$D_v(z=0.57)/r_s(z_d)$	13.43 ± 0.12
	$0.000000000612 \pm 0.000000000011$	η	$(6.12 \pm 0.11) \times 10^{-10}$
k_{eq}	$0.01001^{+0.00037}_{-0.00036}$	ℓ_{eq}	143.3 ± 2.1
ℓ_*	301.0 ± 1.0	n_b	$(2.512 \pm 0.045) \times 10^{-7} \text{ cm}^{-3}$
n_s	0.965 ± 0.015	Ω_b	0.0504 ± 0.0048
$\Omega_b h^2$	$0.02237^{+0.00040}_{-0.00041}$	Ω_c	$0.2468^{+0.0099}_{-0.0097}$
$\Omega_c h^2$	0.111 ± 0.011	Ω_Λ	0.703 ± 0.012
Ω_m	0.297 ± 0.012	$\Omega_m h^2$	0.133 ± 0.011
$r_s(z_d)$	$156.4^{+7.1}_{-7.2}$ Mpc	$r_s(z_d)/D_v(z=0.106)$	$0.3395^{+0.0047}_{-0.0046}$
$r_s(z_d)/D_v(z=0.2)$	0.1856 ± 0.0023	$r_s(z_d)/D_v(z=0.35)$	0.1118 ± 0.0012
$r_s(z_d)/D_v(z=0.44)$	$0.09192^{+0.00093}_{-0.00094}$	$r_s(z_d)/D_v(z=0.54)$	$0.07774^{+0.00072}_{-0.00073}$
$r_s(z_d)/D_v(z=0.57)$	0.07448 ± 0.00067	$r_s(z_d)/D_v(z=0.6)$	$0.07156^{+0.00062}_{-0.00063}$
$r_s(z_d)/D_v(z=0.73)$	0.06177 ± 0.00048	$r_s(z_*)$	$149.7^{+6.7}_{-6.9}$
R	$1.7393^{+0.0071}_{-0.0070}$	σ_8	0.823 ± 0.031
A_{SZ}	$0.62^{+0.46}_{-0.62}$	t_0	$14.16^{+0.63}_{-0.64}$ Gyr
τ	0.082 ± 0.012	θ_*	0.010437 ± 0.000035
θ_*	0.5980 ± 0.0020 °	τ_{rec}	291 ± 13
t_{reion}	469 ± 71 Myr	t_*	384986^{+17053}_{-17249} yr
Y_{He}	$0.311^{+0.036}_{-0.037}$	z_d	1019.7 ± 1.7
z_{eq}	3394^{+76}_{-75}	z_{rec}	1090.5 ± 1.0
z_{reion}	10.5 ± 1.1	z_*	1091.02 ± 0.91