

WMAP Cosmological Parameters

Model: lcdm+yhe

Data: wmap9+snls3+bao+h0

$10^9 \Delta_{\mathcal{R}}^2$	2.415 ± 0.080	H_0	$69.63 \pm 0.87 \text{ km/s/Mpc}$
$\ell(\ell+1)C_{220}/(2\pi)$	$5748 \pm 33 \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$14138_{-160}^{+159} \text{ Mpc}$
$d_A(z_*)$	$13972_{-162}^{+160} \text{ Mpc}$	$D_v(z=0.57)/r_s(z_d)$	13.35 ± 0.11
η	$(6.21 \pm 0.12) \times 10^{-10}$	k_{eq}	0.01009 ± 0.00029
ℓ_{eq}	$140.9_{-2.4}^{+2.5}$	ℓ_*	302.2 ± 1.3
n_b	$(2.549 \pm 0.048) \times 10^{-7} \text{ cm}^{-3}$	n_s	0.974 ± 0.015
Ω_b	0.0468 ± 0.0010	$\Omega_b h^2$	0.02269 ± 0.00043
Ω_c	0.238 ± 0.010	$\Omega_c h^2$	$0.1155_{-0.0038}^{+0.0039}$
Ω_Λ	0.715 ± 0.011	Ω_m	0.285 ± 0.011
$\Omega_m h^2$	$0.1382_{-0.0039}^{+0.0040}$	$r_s(z_d)$	$151.7_{-1.3}^{+1.2} \text{ Mpc}$
$r_s(z_d)/D_v(z=0.106)$	0.3430 ± 0.0044	$r_s(z_d)/D_v(z=0.2)$	0.1874 ± 0.0022
$r_s(z_d)/D_v(z=0.35)$	0.1127 ± 0.0012	$r_s(z_d)/D_v(z=0.44)$	0.09254 ± 0.00089
$r_s(z_d)/D_v(z=0.54)$	0.07819 ± 0.00069	$r_s(z_d)/D_v(z=0.57)$	0.07489 ± 0.00064
$r_s(z_d)/D_v(z=0.6)$	0.07193 ± 0.00060	$r_s(z_d)/D_v(z=0.73)$	$0.06202_{-0.00046}^{+0.00047}$
$r_s(z_*)$	145.3 ± 1.1	R	1.7321 ± 0.0068
σ_8	0.832 ± 0.036	$\sigma_8 \Omega_m^{0.5}$	0.444 ± 0.025
$\sigma_8 \Omega_m^{0.6}$	0.392 ± 0.023	α_{SNLS}	1.43 ± 0.11
β_{SNLS}	3.25 ± 0.11	A_{SZ}	$< 2.0 \text{ (95\% CL)}$
t_0	$13.73 \pm 0.13 \text{ Gyr}$	τ	0.088 ± 0.013
θ_*	0.010397 ± 0.000045	θ_*	$0.5957 \pm 0.0026^\circ$
τ_{rec}	282.9 ± 2.7	t_{reion}	$450_{-82}^{+80} \text{ Myr}$
t_*	$374785_{-3512}^{+3466} \text{ yr}$	Y_{He}	$< 0.42 \text{ (95\% CL)}$
z_d	1021.0 ± 1.1	z_{eq}	3308_{-94}^{+95}
z_{reion}	$10.7_{-1.3}^{+1.4}$	z_*	1091.04 ± 0.63