

WMAP Cosmological Parameters

Model: Λ CDM+mnu

Data: wmap9+bao

$10^9 \Delta_{\mathcal{R}}^2$	2.45 ± 0.11	$\ell(\ell+1)C_{220}/(2\pi)$	$5753_{-35}^{+37} \mu\text{K}^2$
$d_A(z_{\text{eq}})$	$14170_{-114}^{+117} \text{Mpc}$	$d_A(z_*)$	$14000_{-119}^{+122} \text{Mpc}$
$D_v(z=0.57)/r_s(z_d)$	13.51 ± 0.14	η	$(6.12 \pm 0.14) \times 10^{-10}$
k_{eq}	$0.01002_{-0.00032}^{+0.00031}$	ℓ_{eq}	$140.3_{-3.3}^{+3.2}$
ℓ_*	$302.32_{-0.64}^{+0.63}$	$\sum m_\nu$	$< 1.2 \text{ eV (95\% CL)}$
n_b	$(2.513 \pm 0.059) \times 10^{-7} \text{ cm}^{-3}$	n_s	0.965 ± 0.014
$\Omega_b h^2$	$0.02237_{-0.00052}^{+0.00053}$	$\Omega_c h^2$	$0.1148_{-0.0044}^{+0.0043}$
Ω_k	$0.0062_{-0.0084}^{+0.0448}$	Ω_k	$-0.0083 < \Omega_k < 0.0510 \text{ (95\% CL)}$
Ω_Λ	0.682 ± 0.025	$\Omega_m h^2$	$0.1427_{-0.0063}^{+0.0062}$
$\Omega_\nu h^2$	$< 0.013 \text{ (95\% CL)}$	Ω_{tot}	$0.9938_{-0.0448}^{+0.0084}$
Ω_{tot}	$0.95 < \Omega_{\text{tot}} < 1.01 \text{ (95\% CL)}$	$r_s(z_d)$	$152.0 \pm 1.3 \text{ Mpc}$
$r_s(z_d)/D_v(z=0.106)$	$0.3351_{-0.0050}^{+0.0051}$	$r_s(z_d)/D_v(z=0.2)$	$0.1835_{-0.0025}^{+0.0026}$
$r_s(z_d)/D_v(z=0.35)$	0.1108 ± 0.0013	$r_s(z_d)/D_v(z=0.44)$	0.0912 ± 0.0010
$r_s(z_d)/D_v(z=0.54)$	0.07726 ± 0.00083	$r_s(z_d)/D_v(z=0.57)$	0.07405 ± 0.00078
$r_s(z_d)/D_v(z=0.6)$	0.07117 ± 0.00074	$r_s(z_d)/D_v(z=0.73)$	$0.06152_{-0.00063}^{+0.00061}$
$r_s(z_*)$	145.5 ± 1.2	R	1.764 ± 0.029
σ_8	$0.716_{-0.073}^{+0.074}$	$\sigma_8 \Omega_m^{0.5}$	$0.399_{-0.035}^{+0.034}$
$\sigma_8 \Omega_m^{0.6}$	$0.355_{-0.030}^{+0.029}$	A_{SZ}	$< 2.0 \text{ (95\% CL)}$
t_0	$13.76_{-0.22}^{+0.21} \text{ Gyr}$	τ	0.087 ± 0.013
θ_*	0.010392 ± 0.000022	θ_*	$0.5954 \pm 0.0012^\circ$
τ_{rec}	283.0 ± 2.4	t_{reion}	$440_{-64}^{+62} \text{ Myr}$
t_*	$374574_{-4174}^{+4199} \text{ yr}$	z_d	1020.2 ± 1.2
z_{eq}	3283_{-104}^{+101}	z_{rec}	1088.59 ± 0.85
z_{reion}	10.7 ± 1.1	z_*	1091.41 ± 0.87