

WMAP Cosmological Parameters

Model:  $\Lambda$ cdm+mnu

Data: wmap9+bao+h0

$10^9 \Delta_{\mathcal{R}}^2$	$2.44^{+0.10}_{-0.11}$	$H_0$	$68.8 \pm 1.0$ km/s/Mpc
$\ell(\ell+1)C_{220}/(2\pi)$	$5755^{+38}_{-36} \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$14144 \pm 110$ Mpc
$d_A(z_*)$	$13973^{+115}_{-114}$ Mpc	$D_v(z=0.57)/r_s(z_d)$	$13.38^{+0.13}_{-0.14}$
$\eta$	$(6.17 \pm 0.14) \times 10^{-10}$	$k_{\text{eq}}$	$0.01007 \pm 0.00031$
$\ell_{\text{eq}}$	$140.7 \pm 3.3$	$\ell_*$	$302.21^{+0.63}_{-0.64}$
$\sum m_\nu$	$< 1.1$ eV (95% CL)	$n_b$	$(2.534^{+0.059}_{-0.057}) \times 10^{-7} \text{ cm}^{-3}$
$n_s$	$0.969 \pm 0.013$	$\Omega_b h^2$	$0.02256^{+0.00052}_{-0.00051}$
$\Omega_c h^2$	$0.1153 \pm 0.0043$	$\Omega_k$	$0.0063^{+0.0447}_{-0.0077}$
$\Omega_k$	$-0.0064 < \Omega_k < 0.0510$ (95% CL)	$\Omega_\Lambda$	$0.692^{+0.021}_{-0.022}$
$\Omega_m h^2$	$0.1424^{+0.0059}_{-0.0060}$	$\Omega_\nu h^2$	$< 0.011$ (95% CL)
$\Omega_{\text{tot}}$	$0.9937^{+0.0077}_{-0.0447}$	$\Omega_{\text{tot}}$	$0.95 < \Omega_{\text{tot}} < 1.01$ (95% CL)
$r_s(z_d)$	$151.7 \pm 1.2$ Mpc	$r_s(z_d)/D_v(z=0.35)$	$0.1121 \pm 0.0012$
$r_s(z_d)/D_v(z=0.44)$	$0.09216^{+0.00099}_{-0.00095}$	$r_s(z_d)/D_v(z=0.54)$	$0.07798^{+0.00080}_{-0.00076}$
$r_s(z_d)/D_v(z=0.57)$	$0.07472^{+0.00077}_{-0.00072}$	$r_s(z_d)/D_v(z=0.6)$	$0.07180^{+0.00073}_{-0.00069}$
$r_s(z_d)/D_v(z=0.73)$	$0.06201^{+0.00062}_{-0.00058}$	$r_s(z_*)$	$145.3 \pm 1.1$
$R$	$1.758^{+0.027}_{-0.026}$	$\sigma_8$	$0.740^{+0.066}_{-0.069}$
$\sigma_8 \Omega_m^{0.5}$	$0.406 \pm 0.032$	$\sigma_8 \Omega_m^{0.6}$	$0.360 \pm 0.028$
$A_{\text{SZ}}$	$< 2.0$ (95% CL)	$t_0$	$13.67^{+0.20}_{-0.21}$ Gyr
$\tau$	$0.088^{+0.013}_{-0.014}$	$\theta_*$	$0.010395 \pm 0.000022$
$\theta_*$	$0.5956^{+0.0013}_{-0.0012} \circ$	$\tau_{\text{rec}}$	$282.8 \pm 2.4$
$t_{\text{reion}}$	$440^{+61}_{-63}$ Myr	$t_*$	$374313^{+4218}_{-4080}$ yr
$z_d$	$1020.7 \pm 1.1$	$z_{\text{eq}}$	$3300^{+101}_{-102}$
$z_{\text{rec}}$	$1088.40^{+0.84}_{-0.83}$	$z_{\text{reion}}$	$10.7 \pm 1.1$
$z_*$	$1091.21^{+0.85}_{-0.87}$		