WMAP Cosmological Parameters

Model: wcdm

Data: wmap9

| | | | |
|---|---|---|---|
| $10^9\Delta^2_{\mathcal{R}}$ | $2.39 \pm 0.12$ | $H_0$ | $> 50$ km/s/Mpc (95% CL) |
| $\ell(\ell+1)C_{220}/(2\pi)$ | $5745 \pm 35$ $\mu$K$^2$ | $d_A(z_{\rm eq})$ | $14196 \pm 120$ Mpc |
| $d_A(z_*)$ | $14030^{+122}_{-121}$ Mpc | $D_v(z=0.57)/r_s(z_d)$ | $13.54^{+0.84}_{-0.79}$ |
| $\eta$ | $(6.21 \pm 0.15) \times 10^{-10}$ | $k_{\rm eq}$ | $0.00994^{+0.00034}_{-0.00035}$ |
| $\ell_{\rm eq}$ | $139.4 \pm 3.8$ | $\ell_*$ | $302.32 \pm 0.66$ |
| $n_b$ | $(2.549^{+0.060}_{-0.061}) \times 10^{-7}$ cm$^{-3}$ | $n_s$ | $0.975 \pm 0.015$ |
| $\Omega_b$ | $0.025 < \Omega_b < 0.091$ (95% CL) | $\Omega_b h^2$ | $0.02269 \pm 0.00054$ |
| $\Omega_c$ | $0.13 < \Omega_c < 0.44$ (95% CL) | $\Omega_c h^2$ | $0.1135 \pm 0.0049$ |
| $\Omega_\Lambda$ | $0.47 < \Omega_\Lambda < 0.85$ (95% CL) | $\Omega_m$ | $0.15 < \Omega_m < 0.53$ (95% CL) |
| $\Omega_m h^2$ | $0.1362 \pm 0.0047$ | $r_s(z_d)$ | $152.3 \pm 1.3$ Mpc |
| $r_s(z_d)/D_v(z=0.106)$ | $0.344^{+0.062}_{-0.058}$ | $r_s(z_d)/D_v(z=0.2)$ | $0.187^{+0.027}_{-0.026}$ |
| $r_s(z_d)/D_v(z=0.35)$ | $0.112 \pm 0.011$ | $r_s(z_d)/D_v(z=0.44)$ | $0.0917^{+0.0074}_{-0.0075}$ |
| $r_s(z_d)/D_v(z=0.54)$ | $0.0774^{+0.0049}_{-0.0051}$ | $r_s(z_d)/D_v(z=0.57)$ | $0.0741^{+0.0043}_{-0.0046}$ |
| $r_s(z_d)/D_v(z=0.6)$ | $0.0712^{+0.0039}_{-0.0041}$ | $r_s(z_d)/D_v(z=0.73)$ | $0.0614^{+0.0025}_{-0.0027}$ |
| $r_s(z_*)$ | $145.8 \pm 1.2$ | $R$ | $1.726^{+0.018}_{-0.017}$ |
| $\sigma_8$ | $0.81^{+0.16}_{-0.15}$ | $\sigma_8\Omega_m^{0.5}$ | $0.427^{+0.032}_{-0.031}$ |
| $\sigma_8\Omega_m^{0.6}$ | $0.378 \pm 0.036$ | $A_{\rm SZ}$ | $< 2.0$ (95% CL) |
| $t_0$ | $13.86^{+0.35}_{-0.34}$ Gyr | $\tau$ | $0.089 \pm 0.014$ |
| $\theta_*$ | $0.010392 \pm 0.000023$ | $\theta_*$ | $0.5954 \pm 0.0013$ ° |
| $\tau_{\rm rec}$ | $284.1 \pm 2.6$ | $t_{\rm reion}$ | $449 \pm 64$ Myr |
| $t_*$ | $376618^{+4454}_{-4462}$ yr | $w$ | $-1.71 < w < -0.34$ (95% CL) |
| $z_d$ | $1020.8 \pm 1.1$ | $z_{\rm eq}$ | $3260 \pm 113$ |
| $z_{\rm rec}$ | $1088.09 \pm 0.86$ | $z_{\rm reion}$ | $10.6 \pm 1.1$ |
| $z_*$ | $1090.87^{+0.96}_{-0.95}$ | | |