WMAP Cosmological Parameters

Model: owcdm

Data: wmap9

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|---|---|---|---|
| $10^9\Delta^2_{\mathcal{R}}$ | $2.42 \pm 0.12$ | $H_0$ | $37 < H_0 < 84\ km/s/Mpc$ (95% CL) |
| $\ell(\ell+1)C_{220}/(2\pi)$ | $5748 \pm 35\ \mu\mathrm{K}^2$ | $d_A(z_{\rm eq})$ | $14168 \pm 124$ Mpc |
| $d_A(z_*)$ | $14022^{+122}_{-121}$ Mpc | $D_v(z=0.57)/r_s(z_d)$ | $15.9 \pm 2.2$ |
| $\eta$ | $(6.17 \pm 0.15) \times 10^{-10}$ | $k_{\rm eq}$ | $0.00999^{+0.00035}_{-0.00034}$ |
| $\ell_{\rm eq}$ | $140.1^{+3.9}_{-3.8}$ | $\ell_*$ | $302.42^{+0.67}_{-0.66}$ |
| $n_b$ | $(2.535^{+0.063}_{-0.062}) \times 10^{-7}$ cm$^{-3}$ | $n_s$ | $0.971^{+0.015}_{-0.016}$ |
| $\Omega_b$ | $0.032 < \Omega_b < 0.167$ (95% CL) | $\Omega_b h^2$ | $0.02257^{+0.00056}_{-0.00055}$ |
| $\Omega_c$ | $0.16 < \Omega_c < 0.88$ (95% CL) | $\Omega_c h^2$ | $0.1143^{+0.0050}_{-0.0049}$ |
| $\Omega_k$ | $-0.052^{+0.051}_{-0.054}$ | $\Omega_k$ | $-0.228 < \Omega_k < 0.021$ (95% CL) |
| $\Omega_\Lambda$ | $< 0.81$ (95% CL) | $\Omega_m$ | $0.19 < \Omega_m < 1.04$ (95% CL) |
| $\Omega_m h^2$ | $0.13 < \Omega_m h^2 < 0.14$ (95% CL) | $\Omega_{\rm tot}$ | $1.052^{+0.054}_{-0.051}$ |
| $\Omega_{\rm tot}$ | $0.98 < \Omega_{\rm tot} < 1.23$ (95% CL) | $r_s(z_d)$ | $152.2 \pm 1.3$ Mpc |
| $r_s(z_d)/D_v(z=0.106)$ | $0.276^{+0.063}_{-0.058}$ | $r_s(z_d)/D_v(z=0.2)$ | $0.153^{+0.031}_{-0.029}$ |
| $r_s(z_d)/D_v(z=0.35)$ | $0.094^{+0.016}_{-0.015}$ | $r_s(z_d)/D_v(z=0.44)$ | $0.078 \pm 0.012$ |
| $r_s(z_d)/D_v(z=0.54)$ | $0.0668^{+0.0093}_{-0.0094}$ | $r_s(z_d)/D_v(z=0.57)$ | $0.0642^{+0.0087}_{-0.0089}$ |
| $r_s(z_d)/D_v(z=0.6)$ | $0.0619^{+0.0082}_{-0.0084}$ | $r_s(z_d)/D_v(z=0.73)$ | $0.0541^{+0.0065}_{-0.0067}$ |
| $r_s(z_*)$ | $145.7 \pm 1.2$ | $R$ | $1.730 \pm 0.018$ |
| $\sigma_8$ | $0.75 \pm 0.13$ | $\sigma_8\Omega_m^{0.5}$ | $0.52^{+0.11}_{-0.10}$ |
| $\sigma_8\Omega_m^{0.6}$ | $0.49 \pm 0.12$ | $A_{\rm SZ}$ | $< 2.0$ (95% CL) |
| $t_0$ | $15.3 \pm 1.4$ Gyr | $\tau$ | $0.087 \pm 0.014$ |
| $\theta_*$ | $0.010388 \pm 0.000023$ | $\theta_*$ | $0.5952 \pm 0.0013$ ° |
| $\tau_{\rm rec}$ | $283.6^{+2.5}_{-2.6}$ | $t_{\rm reion}$ | $458^{+68}_{-69}$ Myr |
| $t_*$ | $375840^{+4413}_{-4505}$ yr | $w$ | $> -2.1$ (95% CL) |
| $z_d$ | $1020.6 \pm 1.1$ | $z_{\rm eq}$ | $3276^{+116}_{-112}$ |
| $z_{\rm rec}$ | $1088.27^{+0.89}_{-0.88}$ | $z_{\rm reion}$ | $10.5 \pm 1.2$ |
| $z_*$ | $1091.10^{+0.99}_{-0.98}$ | | |