

WMAP Cosmological Parameters

Model: Λ cdm+yhe

Data: wmap9+bao+h0

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|-------------------------------|--|---------------------------|---------------------------|
| $10^9 \Delta_{\mathcal{R}}^2$ | 2.422 ± 0.080 | H_0 | 69.39 ± 0.89 km/s/Mpc |
| $\ell(\ell+1)C_{220}/(2\pi)$ | $5747 \pm 33 \mu\text{K}^2$ | $d_A(z_{\text{eq}})$ | 14099_{-169}^{+168} Mpc |
| $d_A(z_*)$ | 13932_{-170}^{+169} Mpc | $D_v(z=0.57)/r_s(z_d)$ | 13.40 ± 0.12 |
| η | $(6.20 \pm 0.12) \times 10^{-10}$ | k_{eq} | 0.01018 ± 0.00031 |
| ℓ_{eq} | 141.8 ± 2.6 | ℓ_* | 301.9 ± 1.4 |
| n_b | $(2.545 \pm 0.048) \times 10^{-7} \text{ cm}^{-3}$ | n_s | $0.975_{-0.015}^{+0.016}$ |
| Ω_b | 0.0471 ± 0.0011 | $\Omega_b h^2$ | 0.02266 ± 0.00043 |
| Ω_c | 0.243 ± 0.011 | $\Omega_c h^2$ | 0.1168 ± 0.0042 |
| Ω_Λ | 0.710 ± 0.012 | Ω_m | 0.290 ± 0.012 |
| $\Omega_m h^2$ | 0.1395 ± 0.0042 | $r_s(z_d)$ | 151.4 ± 1.3 Mpc |
| $r_s(z_d)/D_v(z=0.106)$ | 0.3413 ± 0.0046 | $r_s(z_d)/D_v(z=0.2)$ | 0.1865 ± 0.0023 |
| $r_s(z_d)/D_v(z=0.35)$ | 0.1122 ± 0.0012 | $r_s(z_d)/D_v(z=0.44)$ | 0.09221 ± 0.00092 |
| $r_s(z_d)/D_v(z=0.54)$ | 0.07793 ± 0.00071 | $r_s(z_d)/D_v(z=0.57)$ | 0.07465 ± 0.00066 |
| $r_s(z_d)/D_v(z=0.6)$ | 0.07171 ± 0.00062 | $r_s(z_d)/D_v(z=0.73)$ | 0.06186 ± 0.00048 |
| $r_s(z_*)$ | 145.0 ± 1.2 | R | 1.7349 ± 0.0071 |
| σ_8 | 0.841 ± 0.038 | $\sigma_8 \Omega_m^{0.5}$ | 0.453 ± 0.027 |
| $\sigma_8 \Omega_m^{0.6}$ | 0.400 ± 0.025 | A_{SZ} | < 2.0 (95% CL) |
| t_0 | 13.72 ± 0.14 Gyr | τ | 0.088 ± 0.013 |
| θ_* | 0.010405 ± 0.000047 | θ_* | $0.5962 \pm 0.0027^\circ$ |
| τ_{rec} | 282.1 ± 2.9 | t_{reion} | 441 ± 81 Myr |
| t_* | 373641_{-3738}^{+3722} yr | Y_{He} | < 0.44 (95% CL) |
| z_d | 1021.0 ± 1.1 | z_{eq} | 3338_{-101}^{+102} |
| z_{reion} | 10.8 ± 1.4 | z_* | $1091.20_{-0.65}^{+0.64}$ |