L10. CAMB Plots of C_l

- The following figures show the C_l^{TT}, C_l^{EE}, C_l^{BB}, C_l^{TE} angular power spectra for various cosmological models, calculated with CAMB.[*] We have chosen as a reference model one with only scalar perturbations, and with the background universe cosmological parameters

$$\Omega_0 = 1 \qquad \omega_m = 0.147 \qquad \tau = 0.1$$

$$\Omega_\Lambda = 0.7 \qquad \omega_b = 0.022$$

(the same as in Cosmology II §12.9; these correspond to $H_0 = 70$ km/s/Mpc; H_0 is a dependent parameter, which changes when Ω_0, Ω_Λ, or ω_m is changed) and the perturbation parameters (scalar primordial power spectrum amplitude A and spectral index n_s)

$$A = \text{something to make the plots roughly match WMAP data}$$

$$n_s = 1.0$$

- Note that the plots have various lin/log combinations[**] of axes to bring out different effects. They are also in temperature units, i.e., the C_l have been multiplied by $T_0^2 = (2.725 \times 10^6 \, \mu K)^2$.

- Note also that scalar perturbations do not give B mode polarization (except for higher order effects, especially lensing, see below). Therefore most figures do not show C_l^{BB}.

**) and the same C_l appear with different lin/log axes in figure pairs.

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