CAMB, CMB Power Spectra, Baryon Effects

Goto `camb.info`, download and compile the CAMB Einstein-Boltzmann code. Run the $\Omega_m = 0.27$, $h = 0.7$, $n = 0.966$, $A_S = (4.657 \times 10^{-5})^2$, $\Omega_b h^2 = 0.022$, $\tau = 0.085$ standard cosmology.

- Plot the temperature and E polarization power spectra against multipole moment ℓ.

- Extract the transfer function (recall we normalize so that $T(k = 0) = 1$) and replace the CDM-only analytic form used in the previous problem sets with the numerical, baryon included results. Plot the two against each other and discuss the origin of the differences.

- Use the numerical transfer function to calculate σ_8 and compare it with the value CAMB reports.