

CMB

part 2

Recombination

Seager, Sasselov, & Scott (1999), RECFAST code

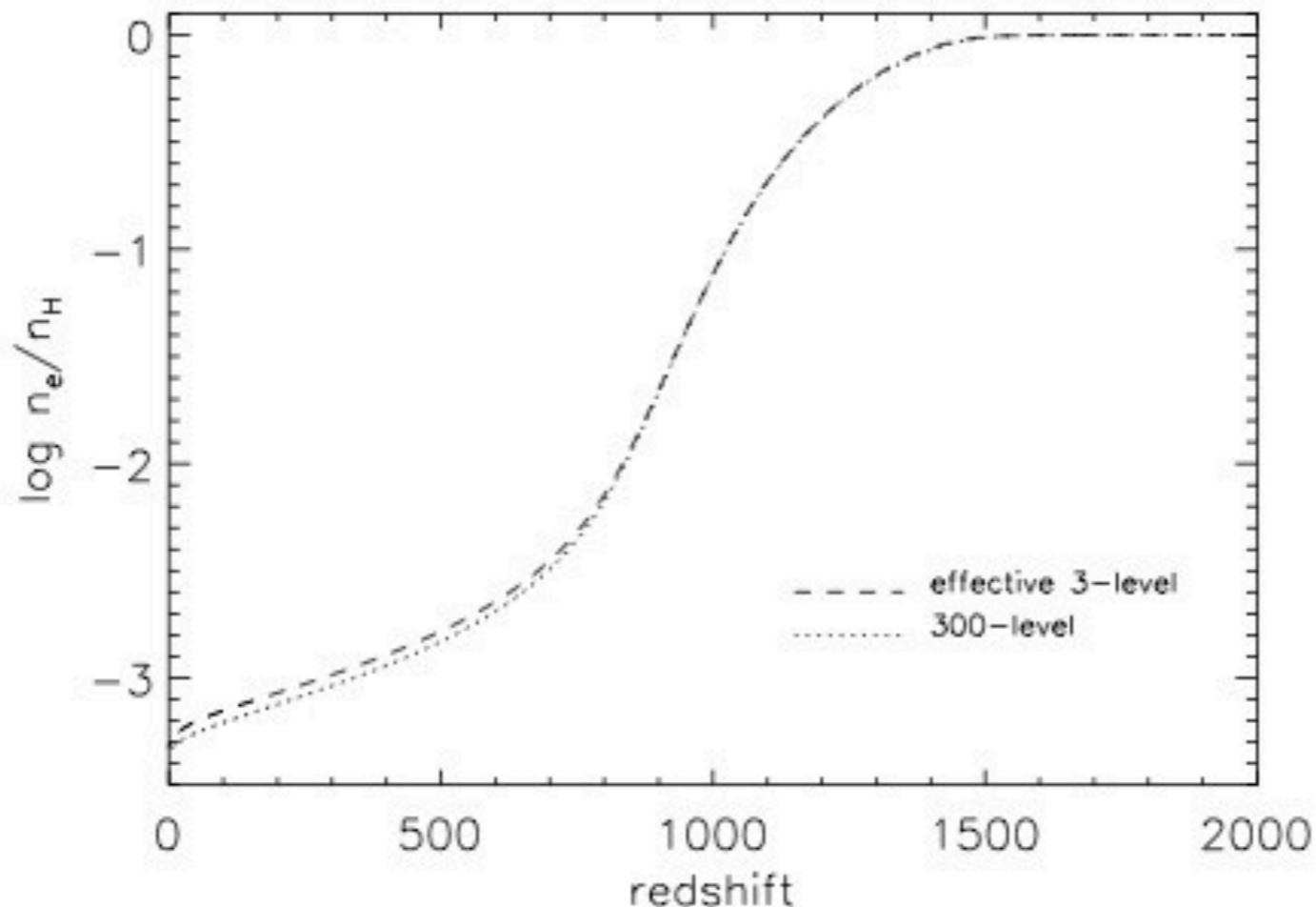
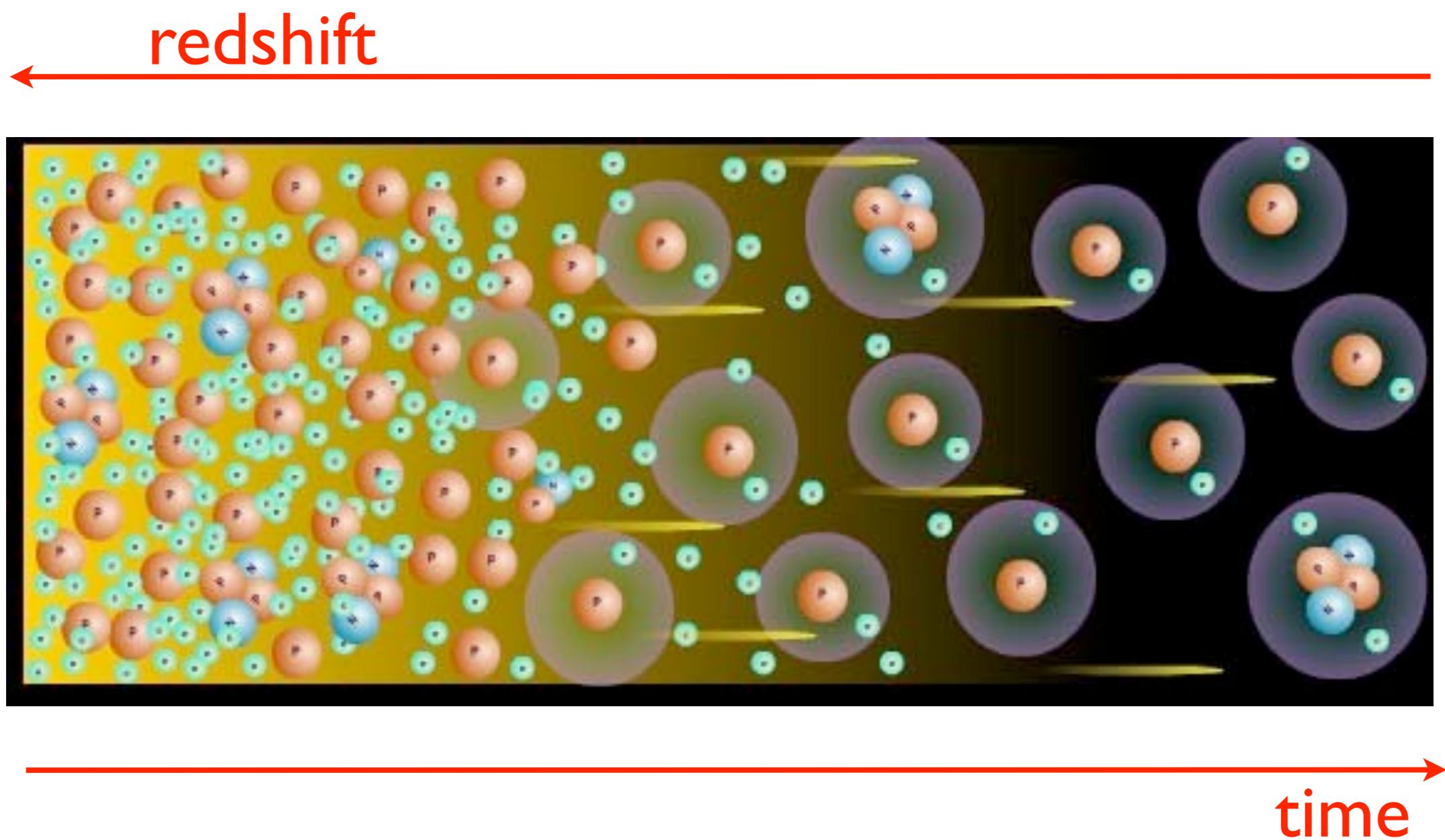


Fig. 1: Multi-level hydrogen recombination for the standard CDM parameters $\Omega_{\text{tot}} = 1.0$, $\Omega_B = 0.05$, $H_0 = 50$, $Y_P = 0.24$, $T_0 = 2.728$ K. The two lines are the complete calculation of Paper I (dotted) and the standard (effective 3-level atom) calculation (dashed).

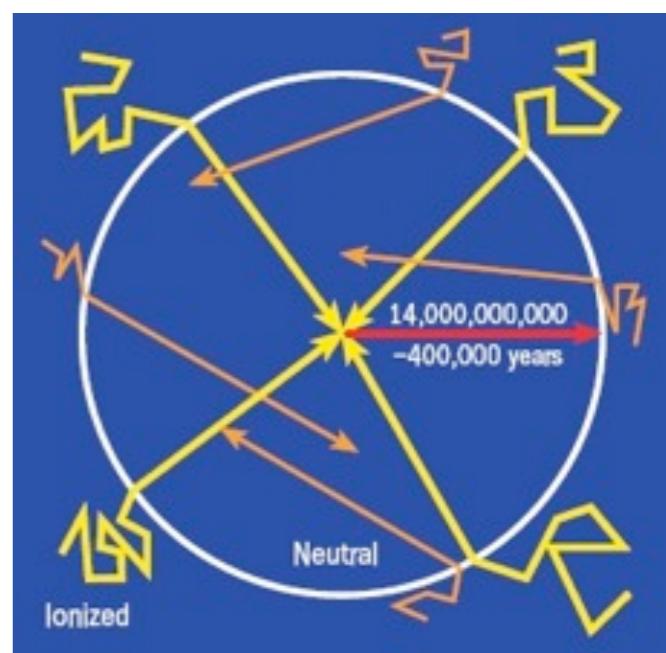
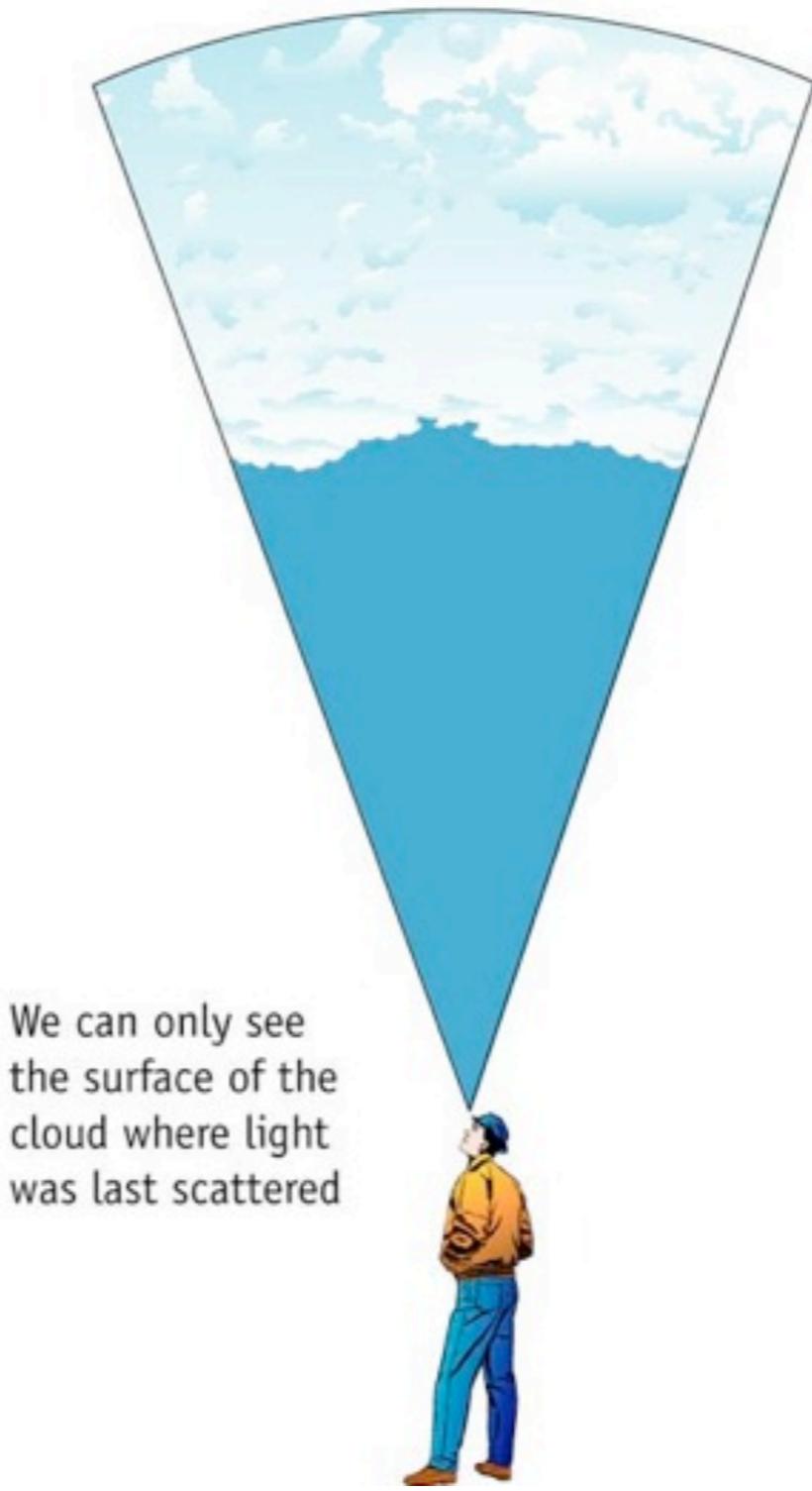
Photon decoupling



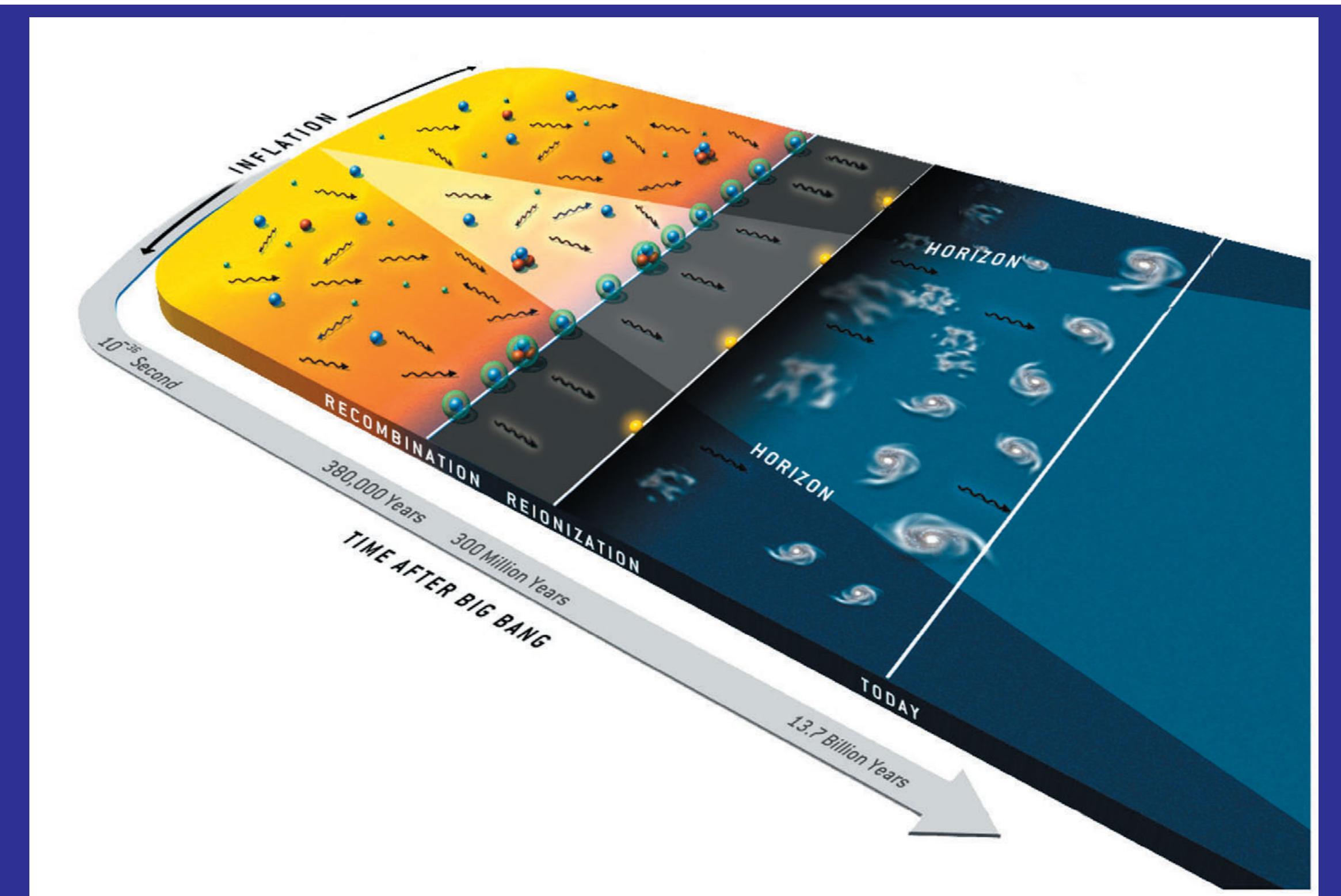
Last Scattering Surface



The cosmic microwave background Radiation's "surface of last scatter" is analogous to the light coming through the clouds to our eye on a cloudy day.



Reionization



Hu & White (2004); artist:B. Christie/SciAm; available at <http://background.uchicago.edu>

