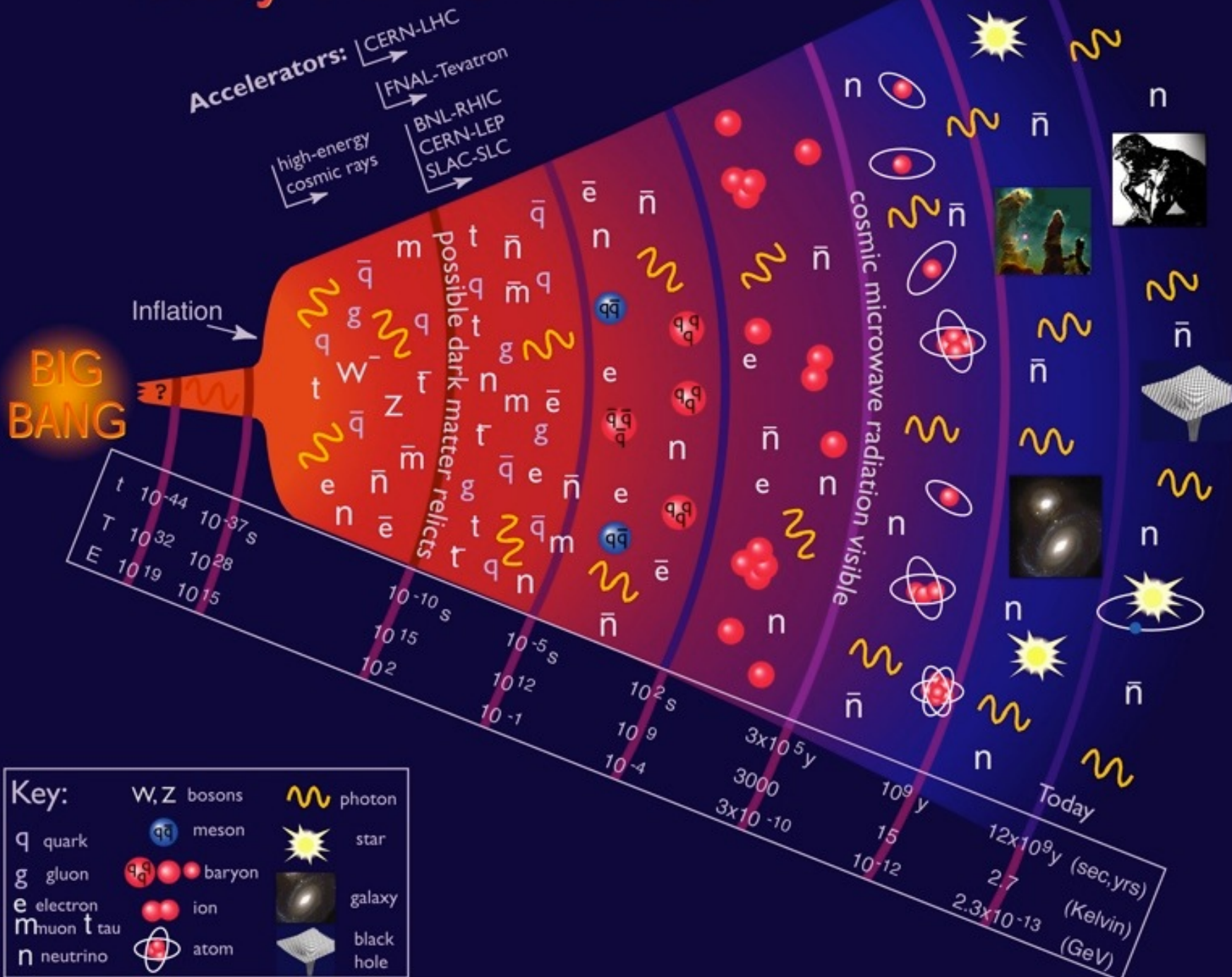
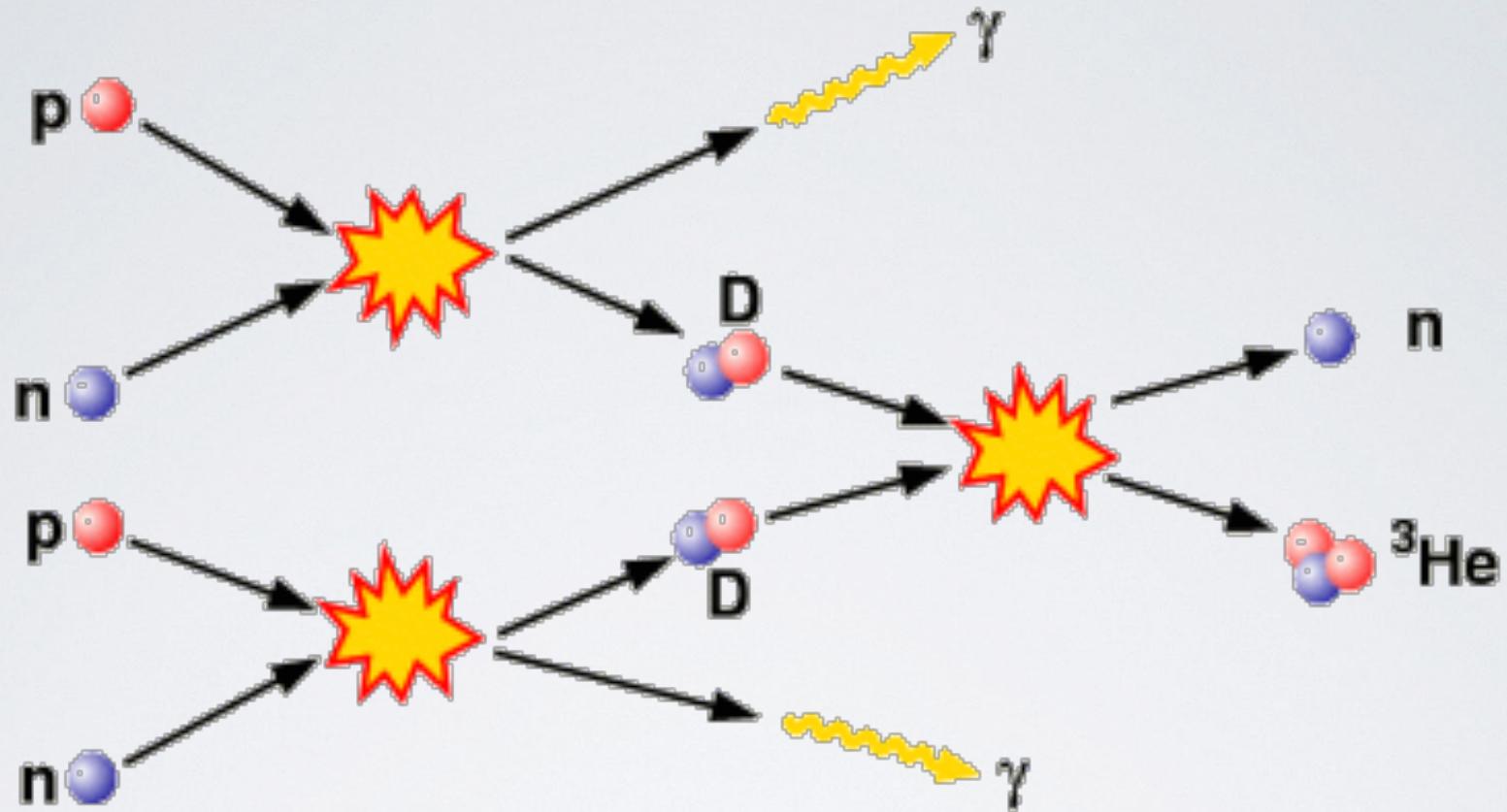


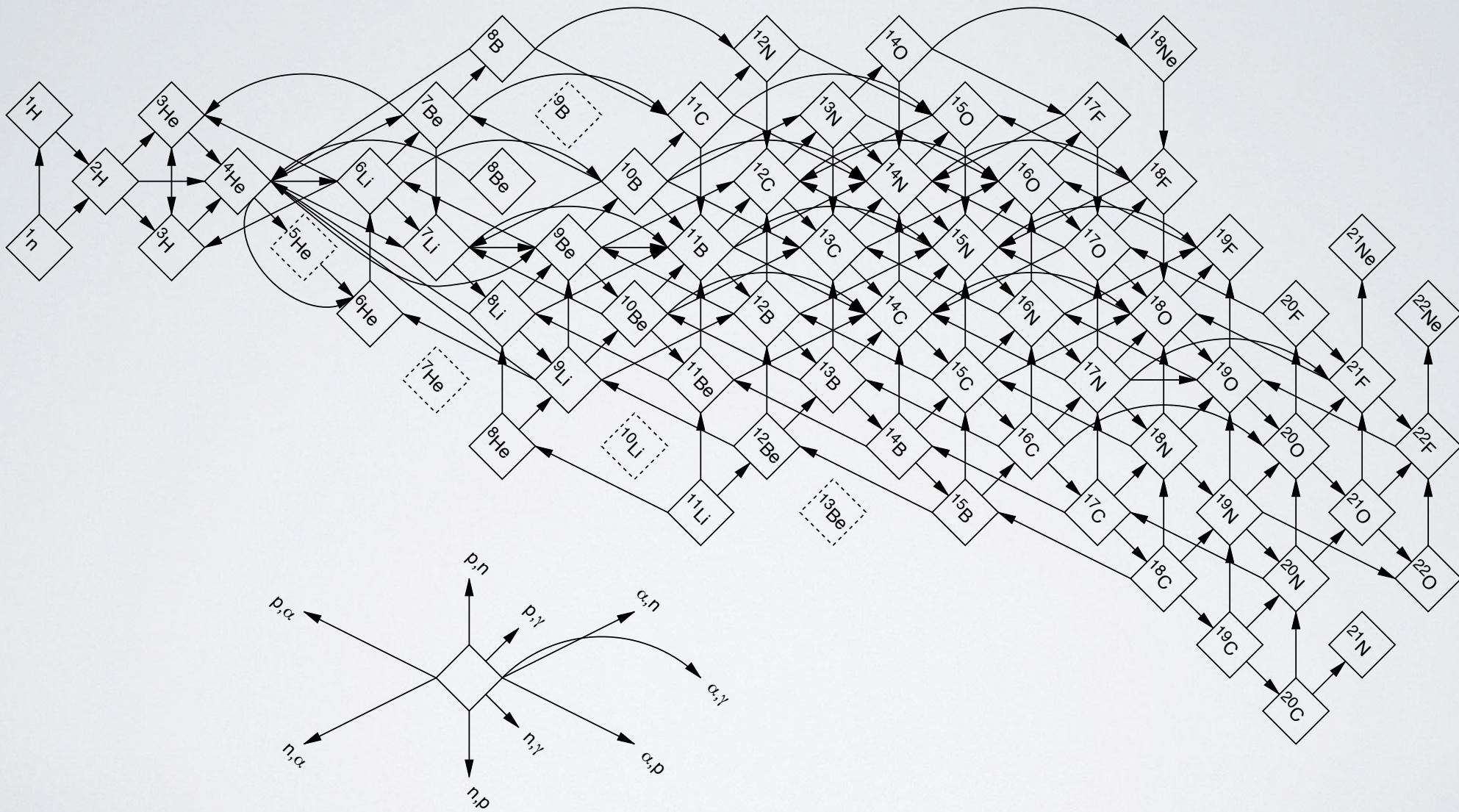
History of the Universe





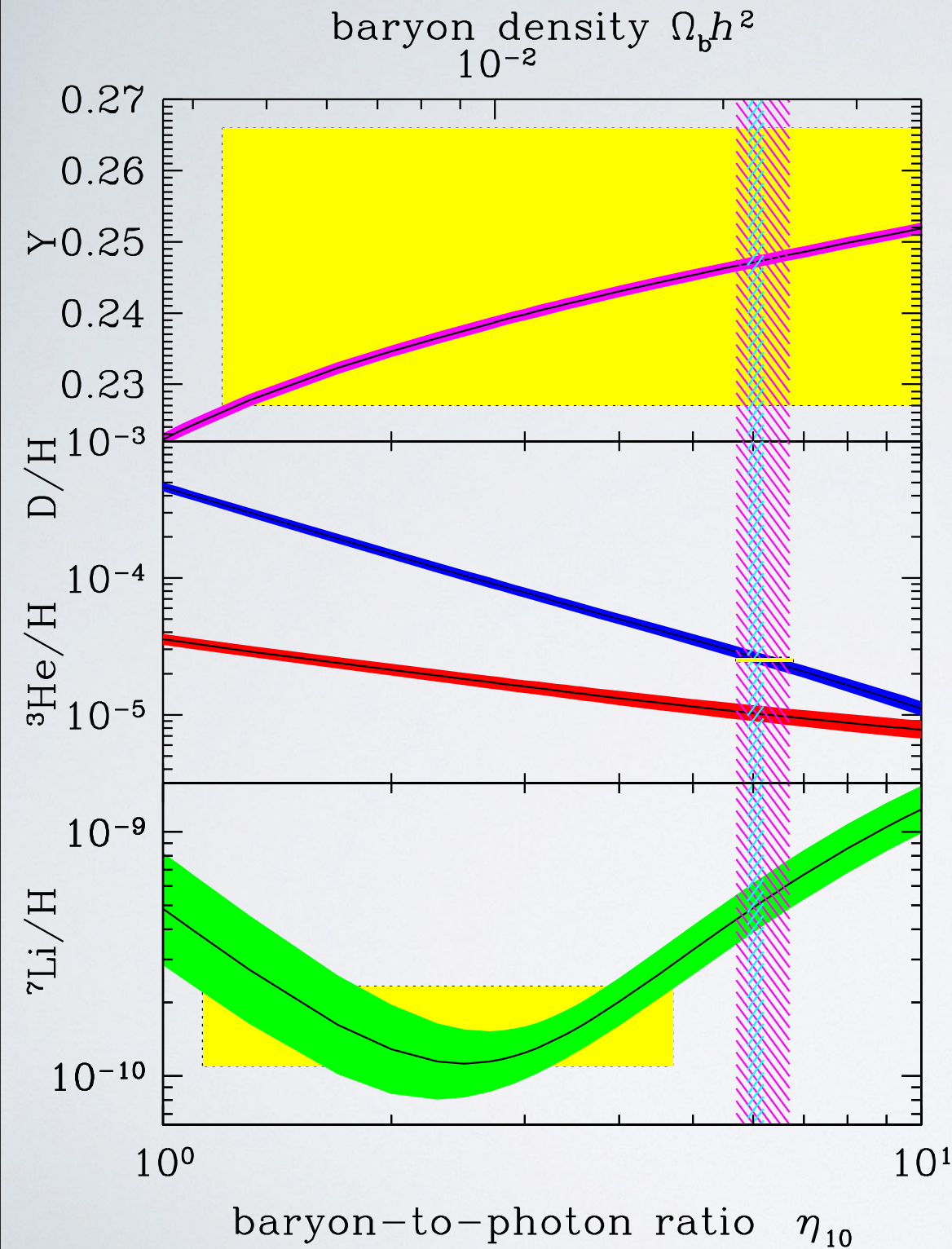
^3He synthesis is only one part of the full network of reactions...

The full network used in current BBN codes:



from K. A. Olive, arXiv: 1005.3955

BBN: current predictions and observations



from Beringer et al, PRD 86, 010001 (2012) + update for 2014 edition

[particle data group - <http://pdg.lbl.gov>]

Figure 22.1: The abundances of ${}^4\text{He}$, D , ${}^3\text{He}$, and ${}^7\text{Li}$ as predicted by the standard model of Big-Bang nucleosynthesis — the bands show the 95% CL range. Boxes indicate the observed light element abundances. The narrow vertical band indicates the CMB measure of the cosmic baryon density, while the wider band indicates the BBN concordance range (both at 95% CL).