

The Hubble tension: Who should care about it?

The current Hubble expansion rate, H_0 , is one of the fundamental parameters determining the geometry of the Universe. How would the following quantities be modified if H_0 increases by 6%? You may set other relevant parameters intact, but please clarify your assumptions.

- (a) Age of the Universe
- (b) Angular diameter distance to the CMB last-scattering surface
- (c) Luminosity distance to the supernovae
- (d) Sound horizon scale of the CMB
- (e) Primordial Helium abundance
- (f) Dark-matter relic abundance