



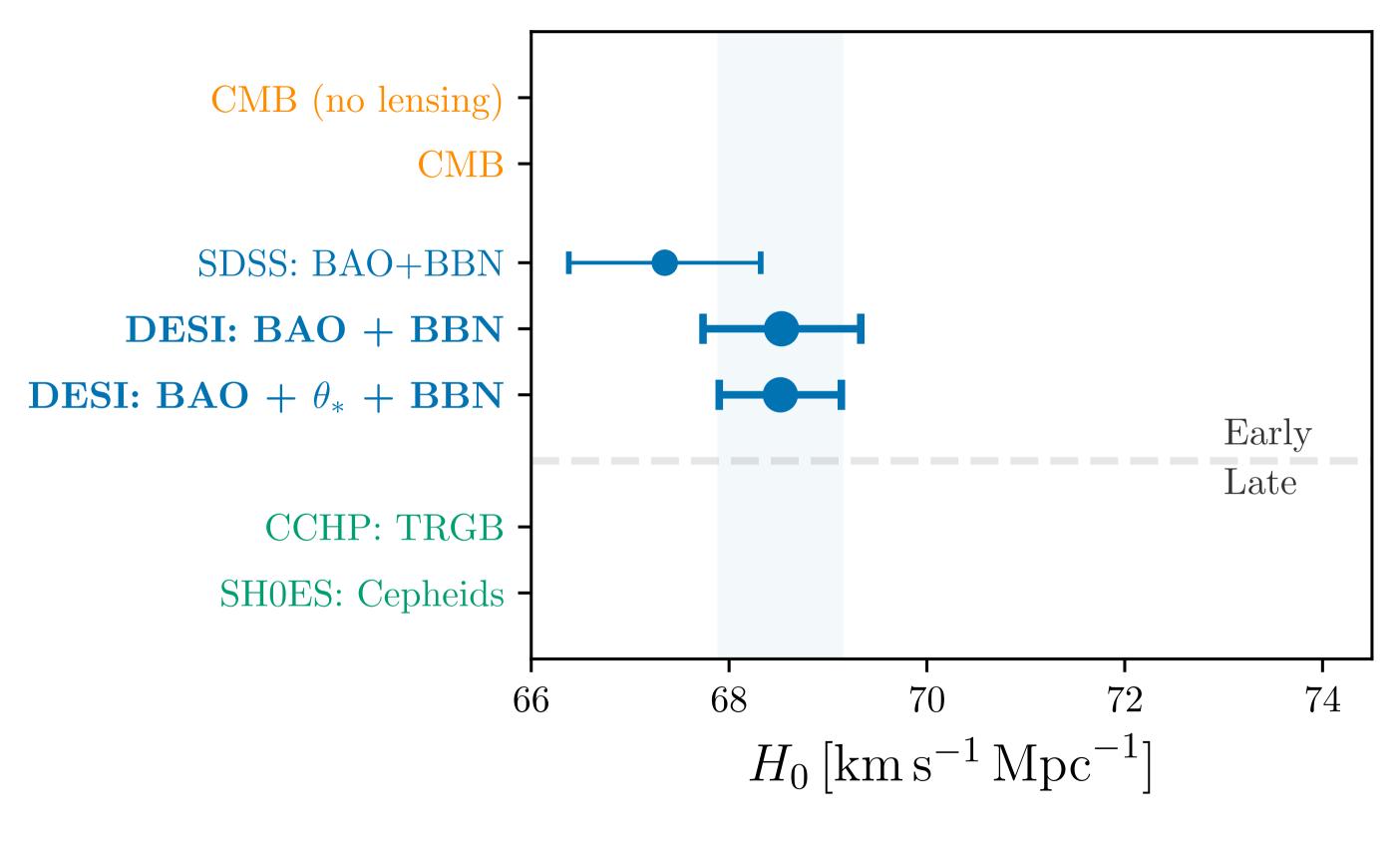
DARK ENERGY **SPECTROSCOPIC** INSTRUMENT

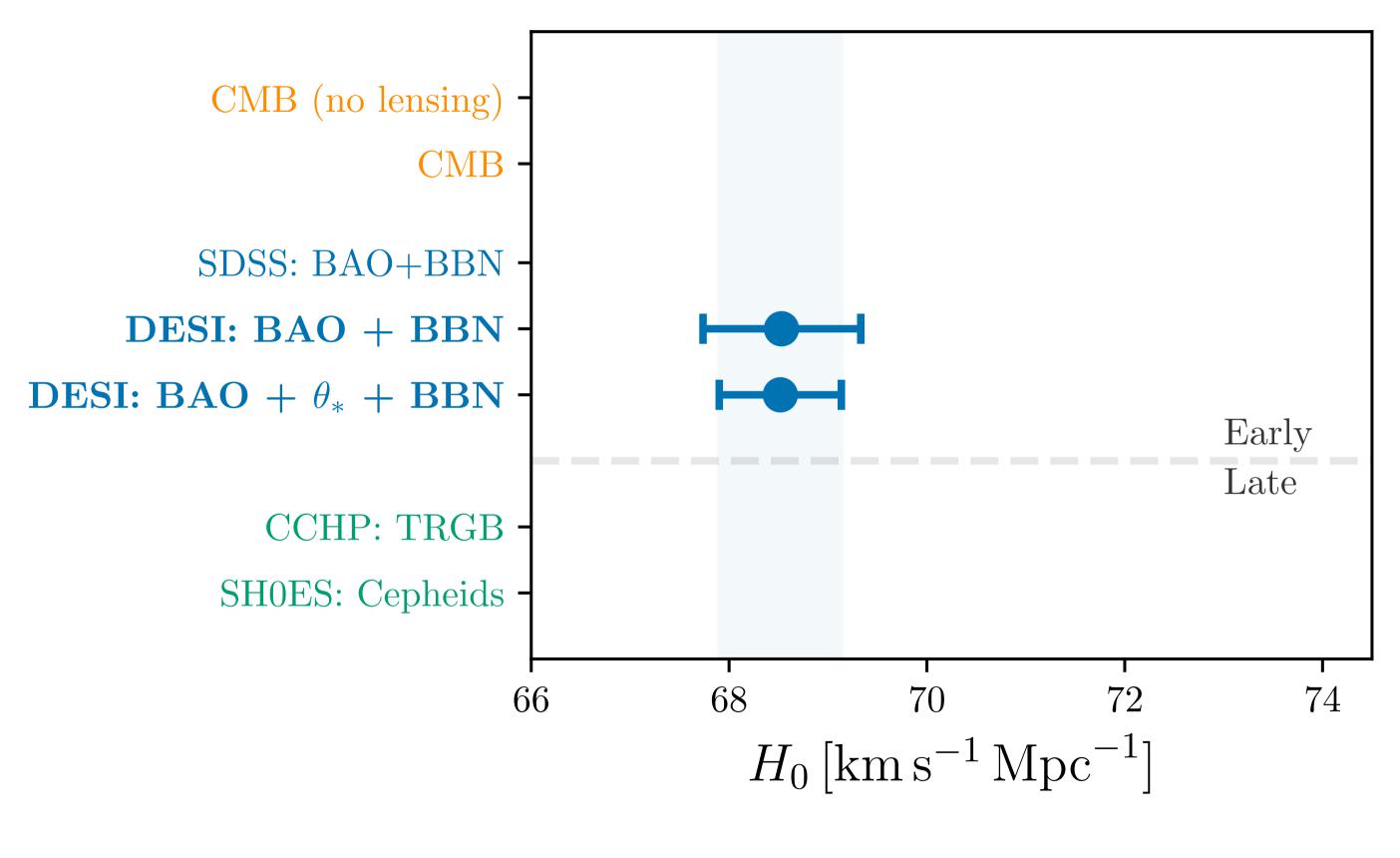
U.S. Department of Energy Office of Science

DESI VI. Cosmological constraints - Aug 2024 XII ICNFP @ Crete, Greece, 2024

Uendert Andrade (UMichigan)











DESI + θ_* + BBN

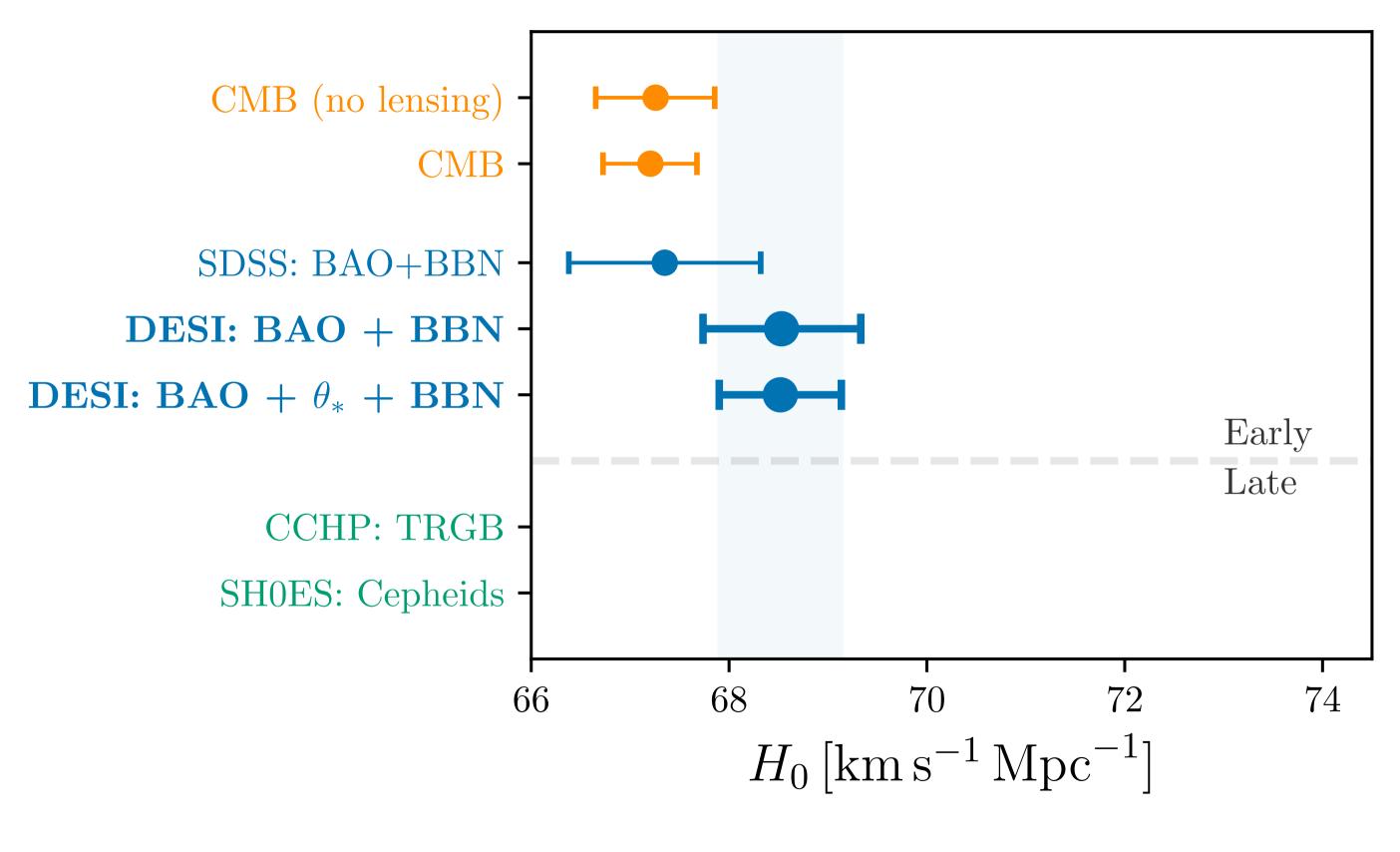


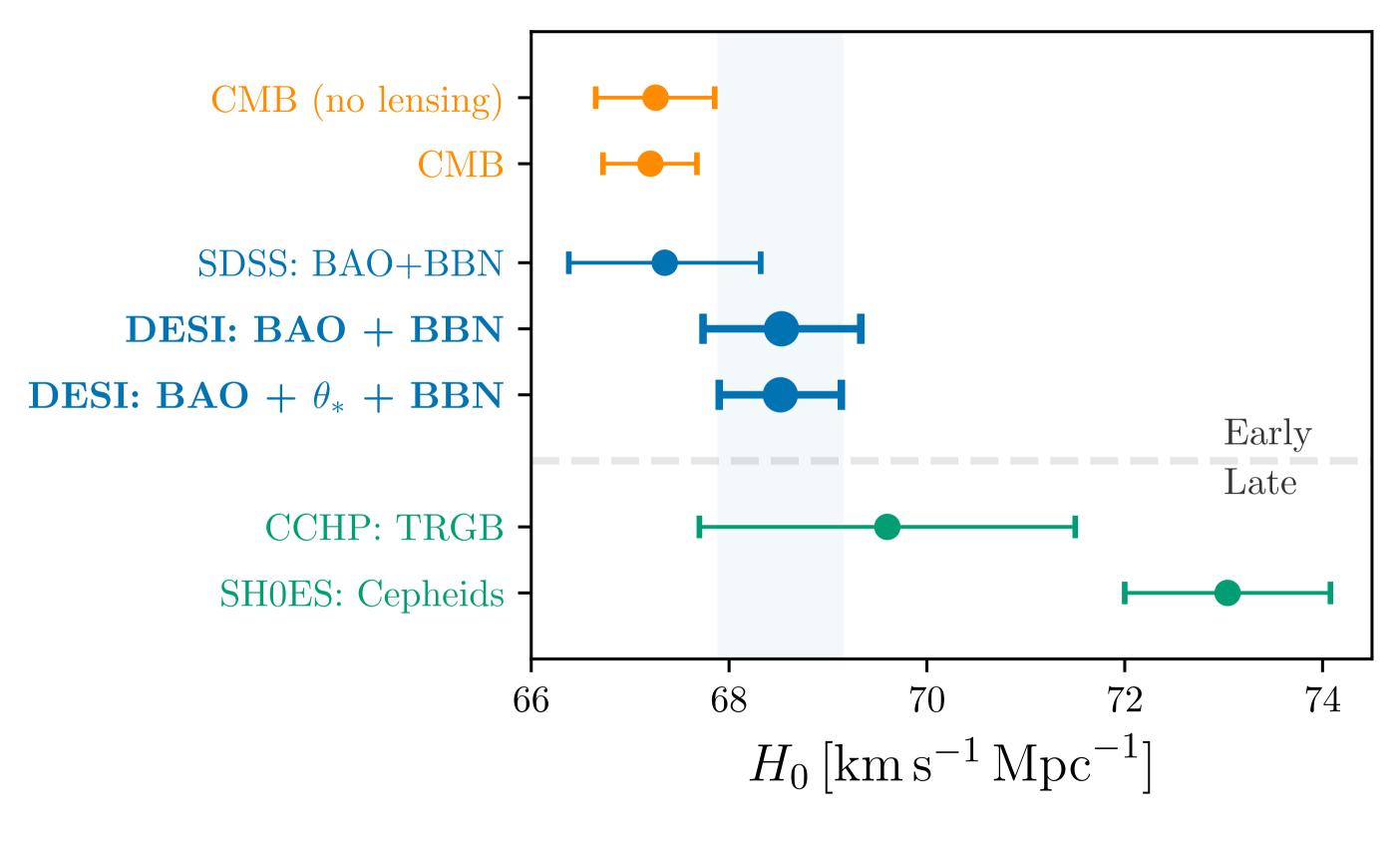






Flat ACDM model







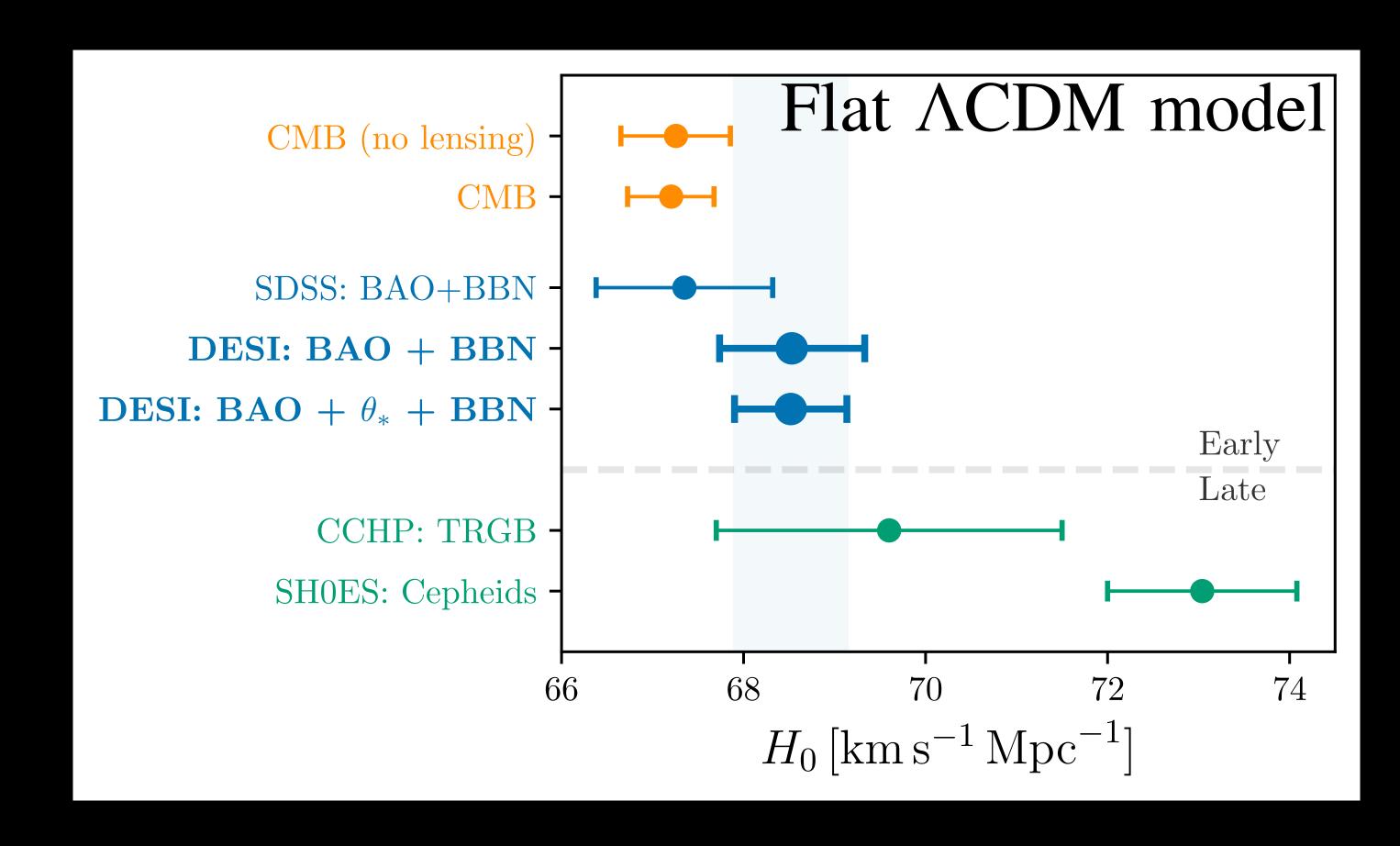
Hubble constant

$$H_0 = (68.53 \pm 0.80) \text{ kms}^{-1} \text{ Mpc}^{-1}$$
DESI + BBN

$$H_0 = (68.52 \pm 0.62) \text{ kms}^{-1} \text{ Mpc}^{-1}$$

$$DESI + \theta_* + BBN$$

- Consistency with SDSS
- In agreement with CMB
- In 3.7σ tension with SHOES



 $\theta_* \to \text{CMB}$ angular acoustic scale



Spatial curvature

DESI + CMB measurements favor a flat Universe

