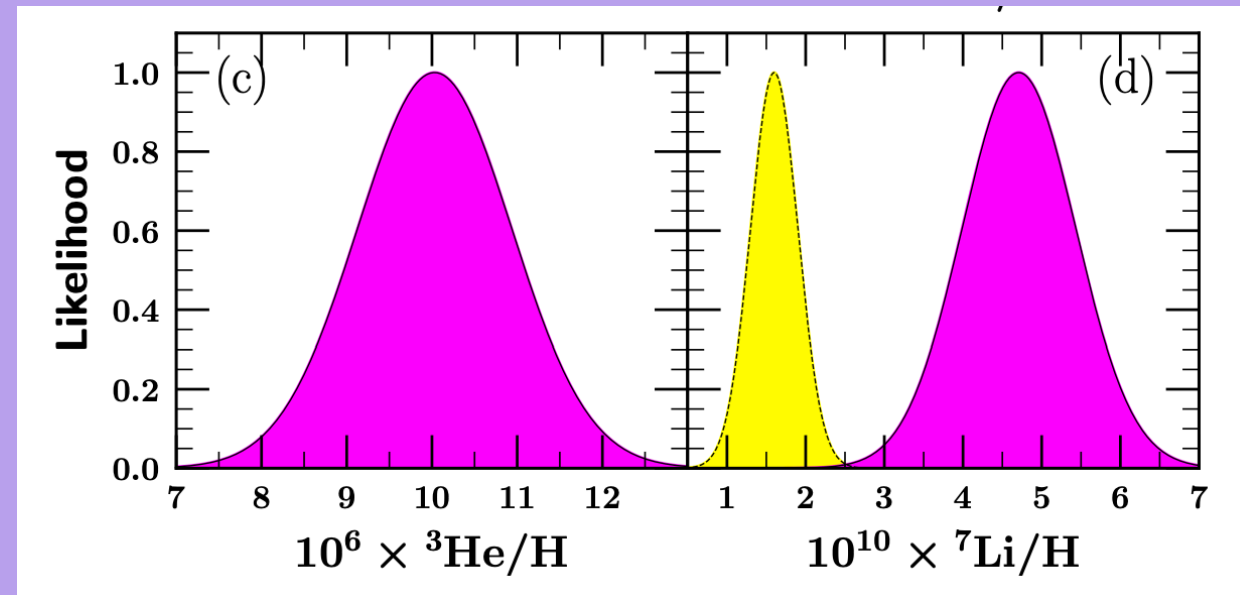
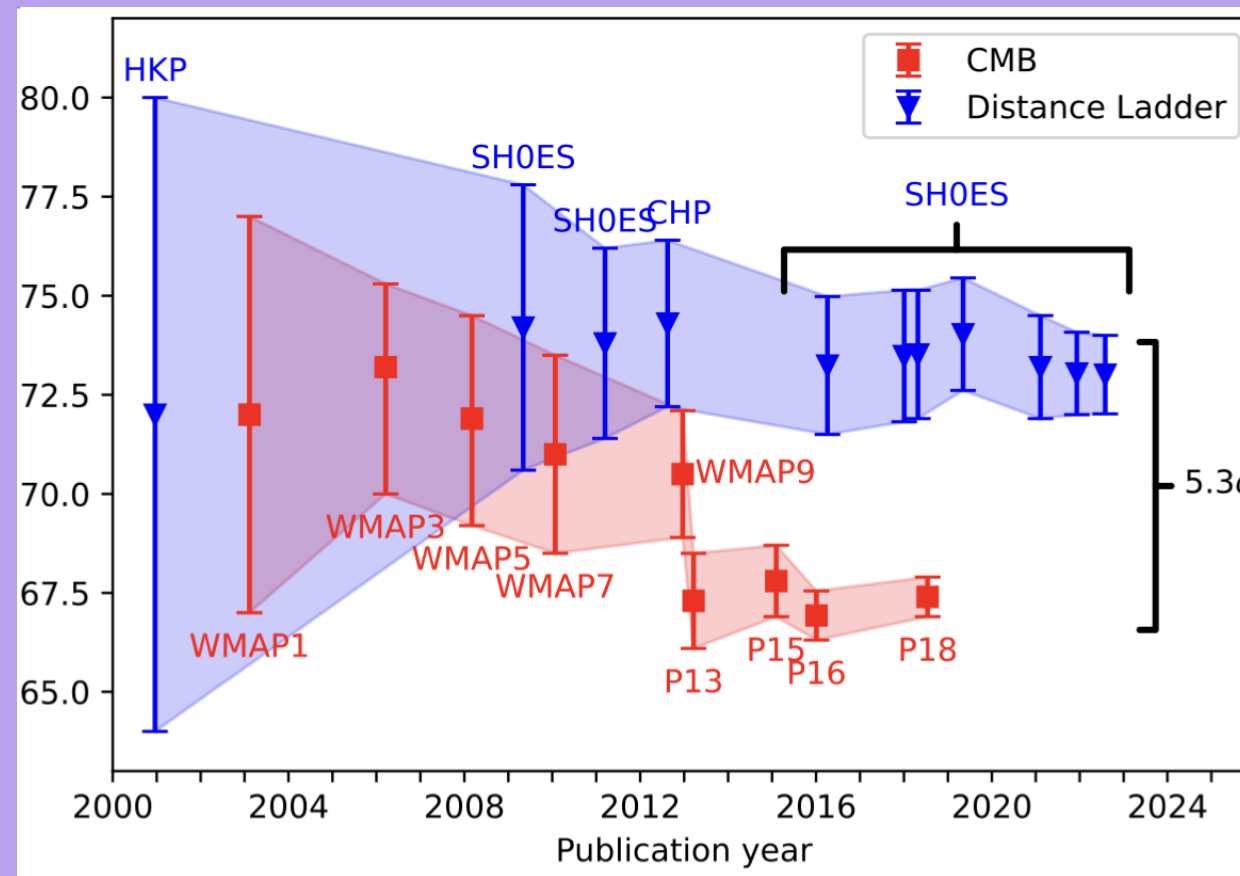


Alleviating the Hubble tension with Torsion Condensation

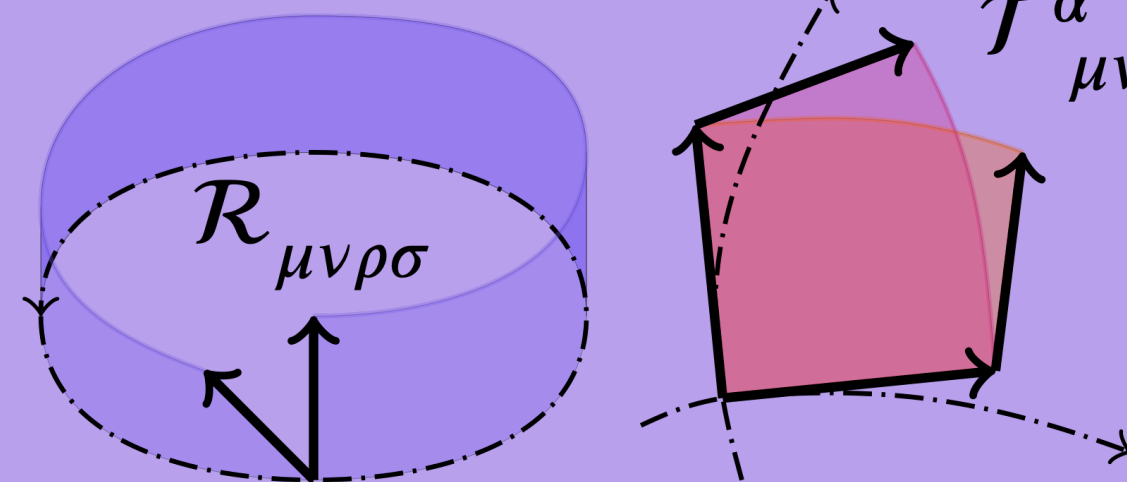
Cosmological Tensions



Exploration of different theory of gravity

Torsion Condensation (TorC)

$$\mathcal{L} \propto R^2 + T^2 \quad [2003.02690]$$

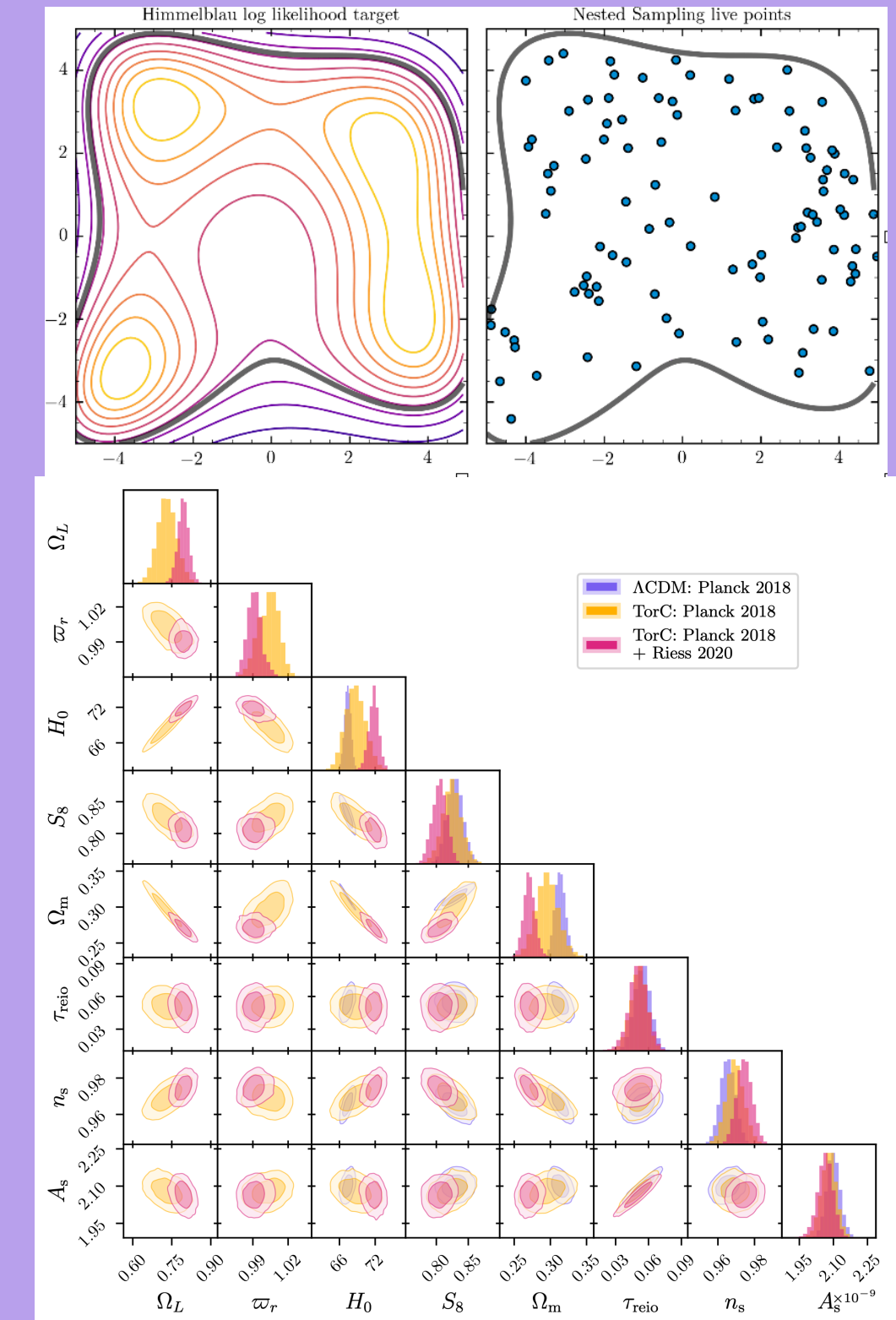


Has GR-coincident solution

Motivates

Analysis

Constraining TorC parameters



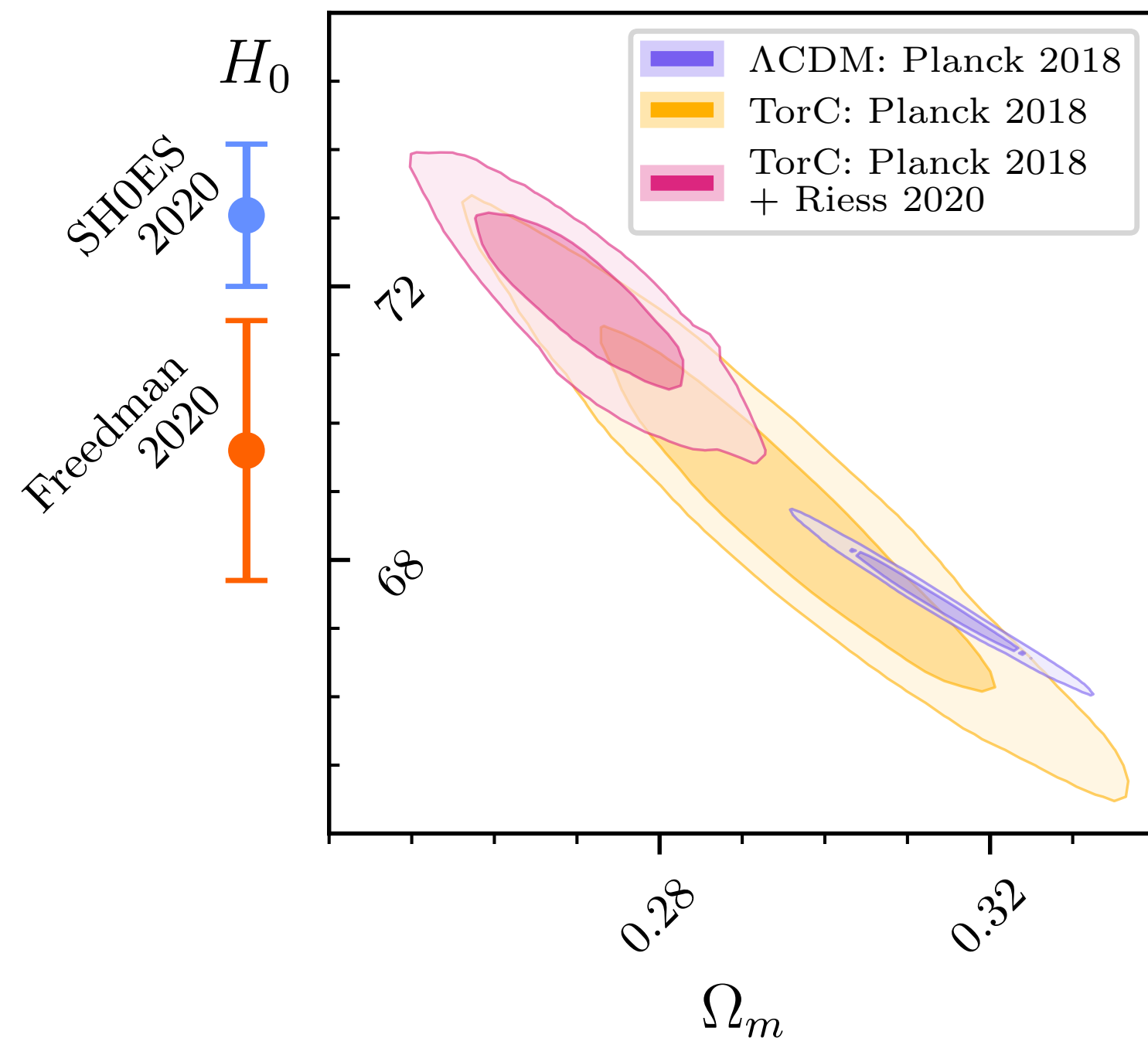
Alleviate Tension?

ArXiv: 2507.09228

Comparison with Λ CDM

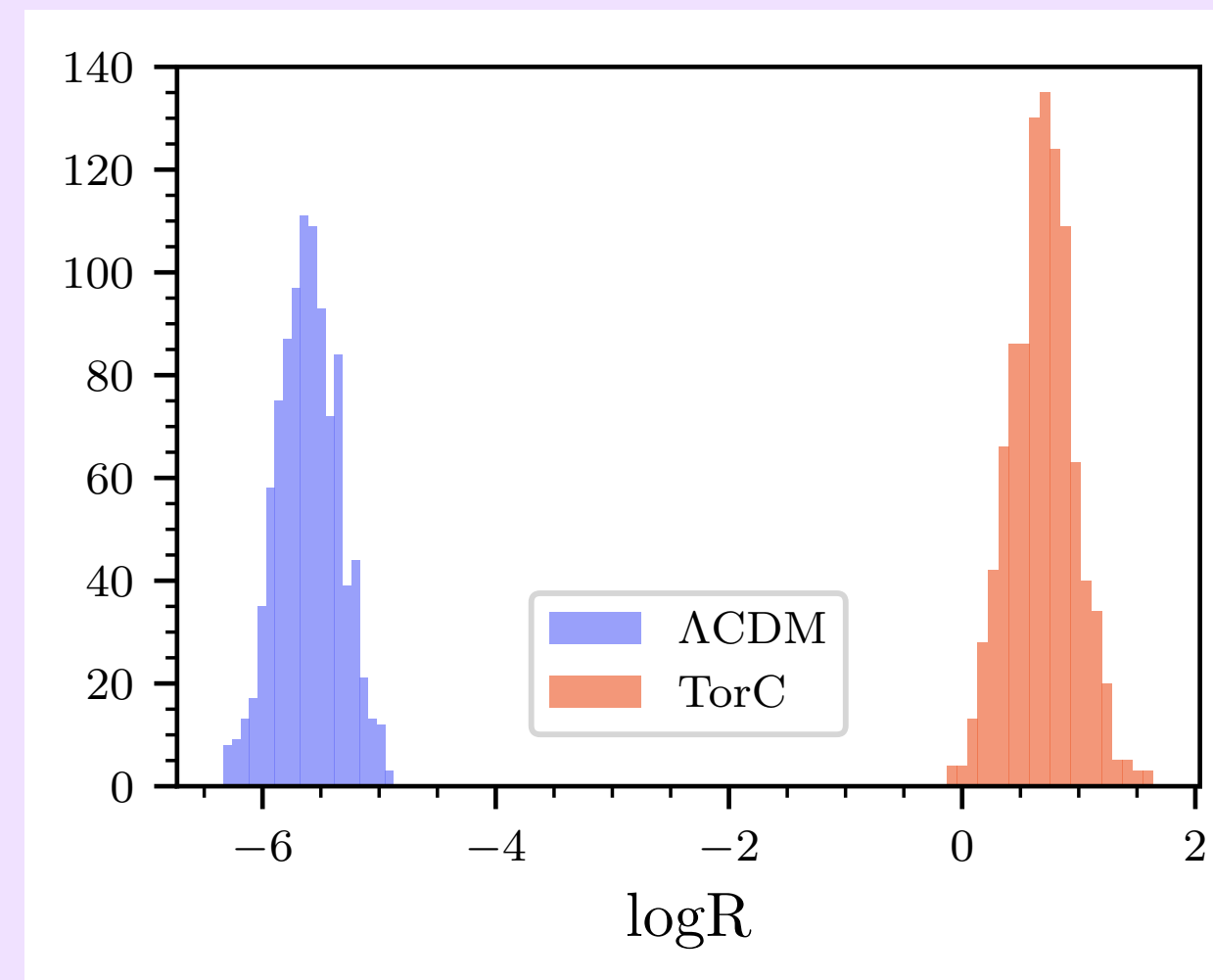
Alleviating the Hubble tension with Torsion Condensation

Posterior Result



TorC with Planck dataset is consistent with SH0ES measurement

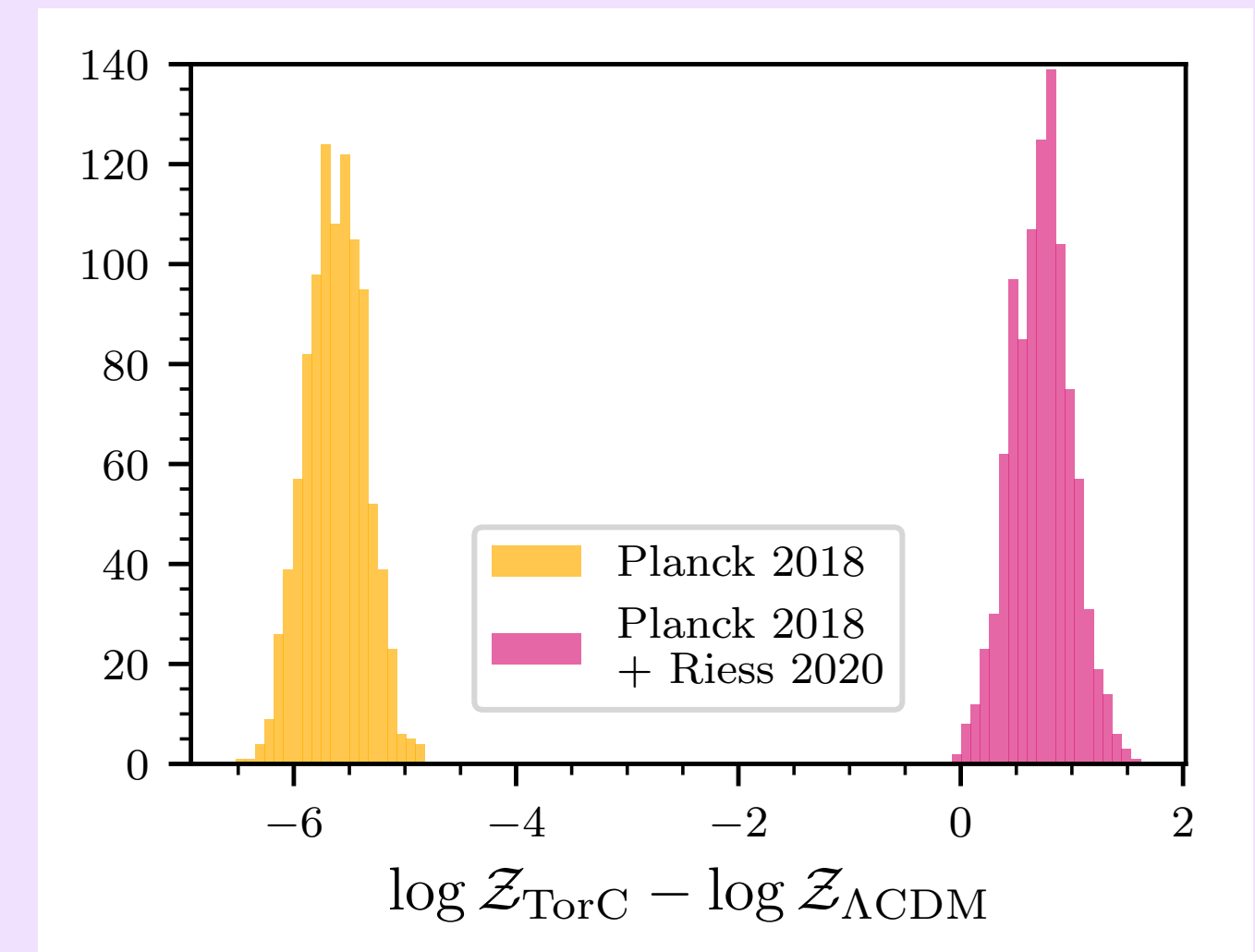
Tension Quantification



Assess the level of agreement between two datasets: Planck 2018 & SH0ES 2020

Tension Alleviated!

Bayesian Evidence



Given data, compare the overall viability of models: TorC & Λ CDM

The TorC model is not decisively favoured