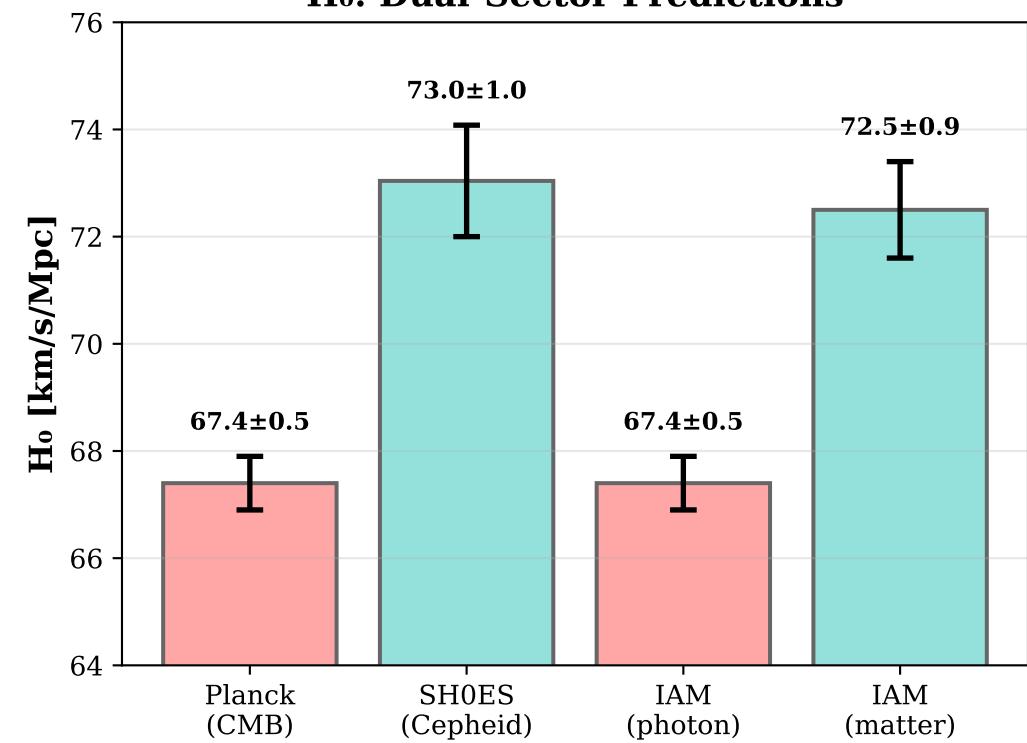
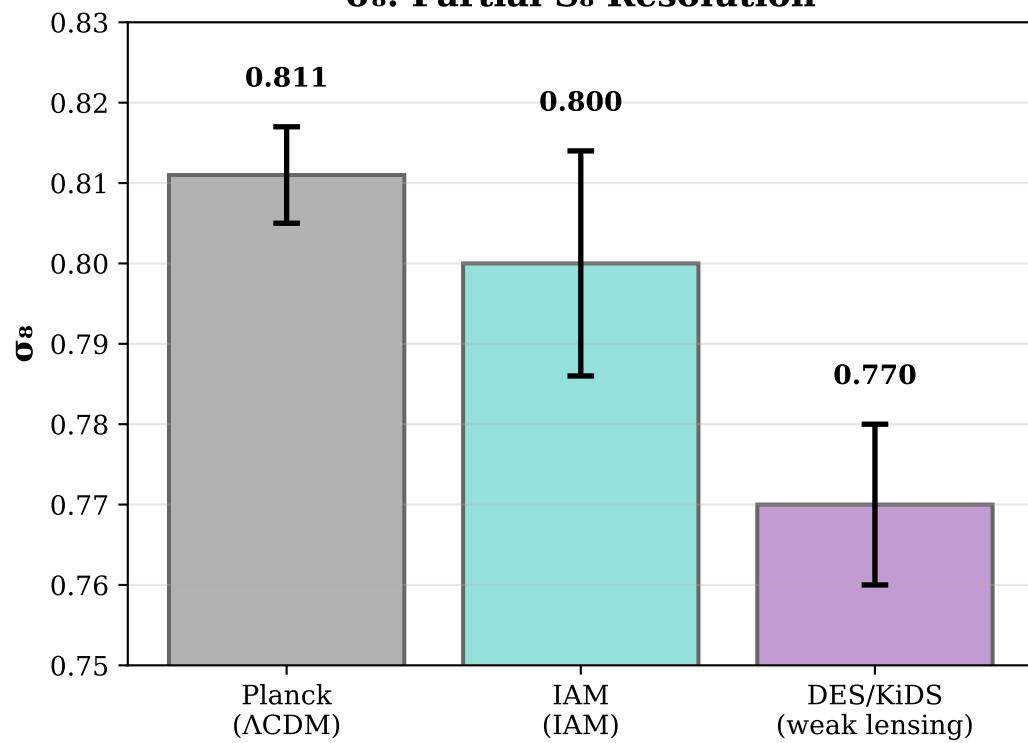


IAM Physical Quantities & Performance Summary

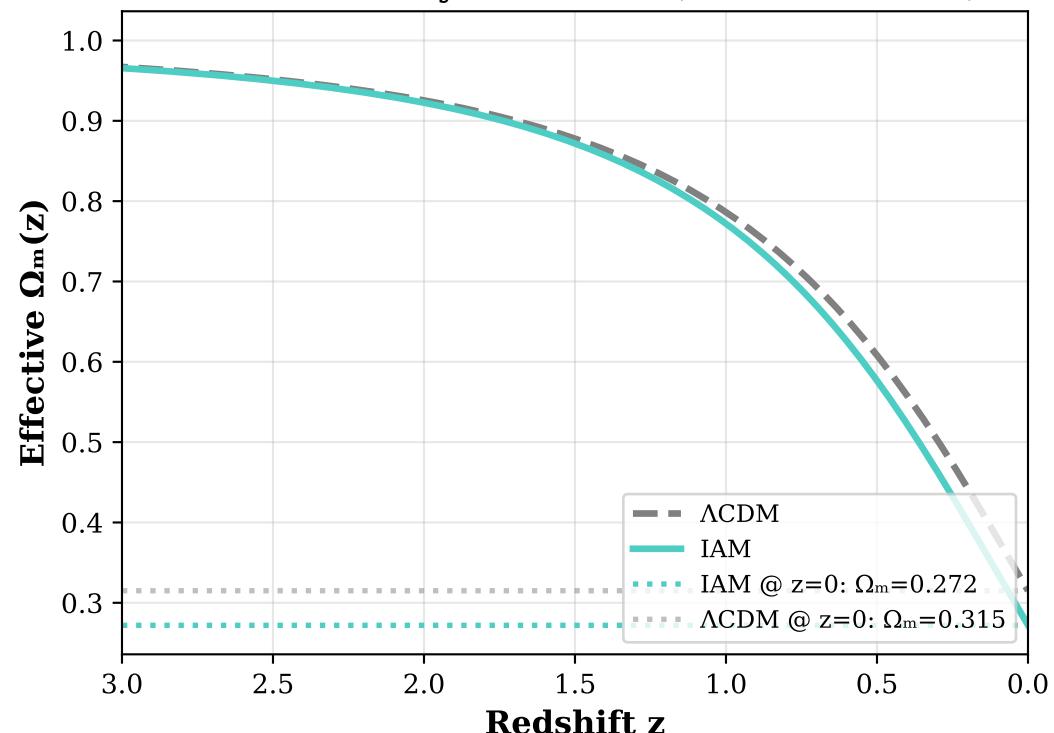
H_0 : Dual-Sector Predictions



σ_8 : Partial S_8 Resolution



Matter Density Evolution (13.7% dilution)



IAM DUAL-SECTOR MODEL: SUMMARY

Parameters:
 $\beta_m = 0.157 \pm 0.029$ (68% CL)
 $\beta_\gamma < 0.004$ (95% CL)
 $\beta_\gamma/\beta_m < 0.022$ (95% CL)

Predictions:
 $H_0(\text{photon}) = 67.4 \text{ km/s/Mpc}$
 $H_0(\text{matter}) = 72.5 \pm 0.9 \text{ km/s/Mpc}$
 $\sigma_8(\text{IAM}) = 0.800$
 $\Omega_m(z=0) = 0.272$ (13.7% diluted)

Statistical Performance:
 $\chi^2(\Lambda\text{CDM}) = 41.63$
 $\chi^2(\text{IAM}) = 10.38$
 $\Delta\chi^2 = 31.25$
Significance = 5.6σ

Physical Mechanism:

- β in denominator dilutes $\Omega_m(a)$
- Diluted $\Omega_m \rightarrow$ weaker gravity
- Growth suppression: 1.36%
- Natural growth suppression