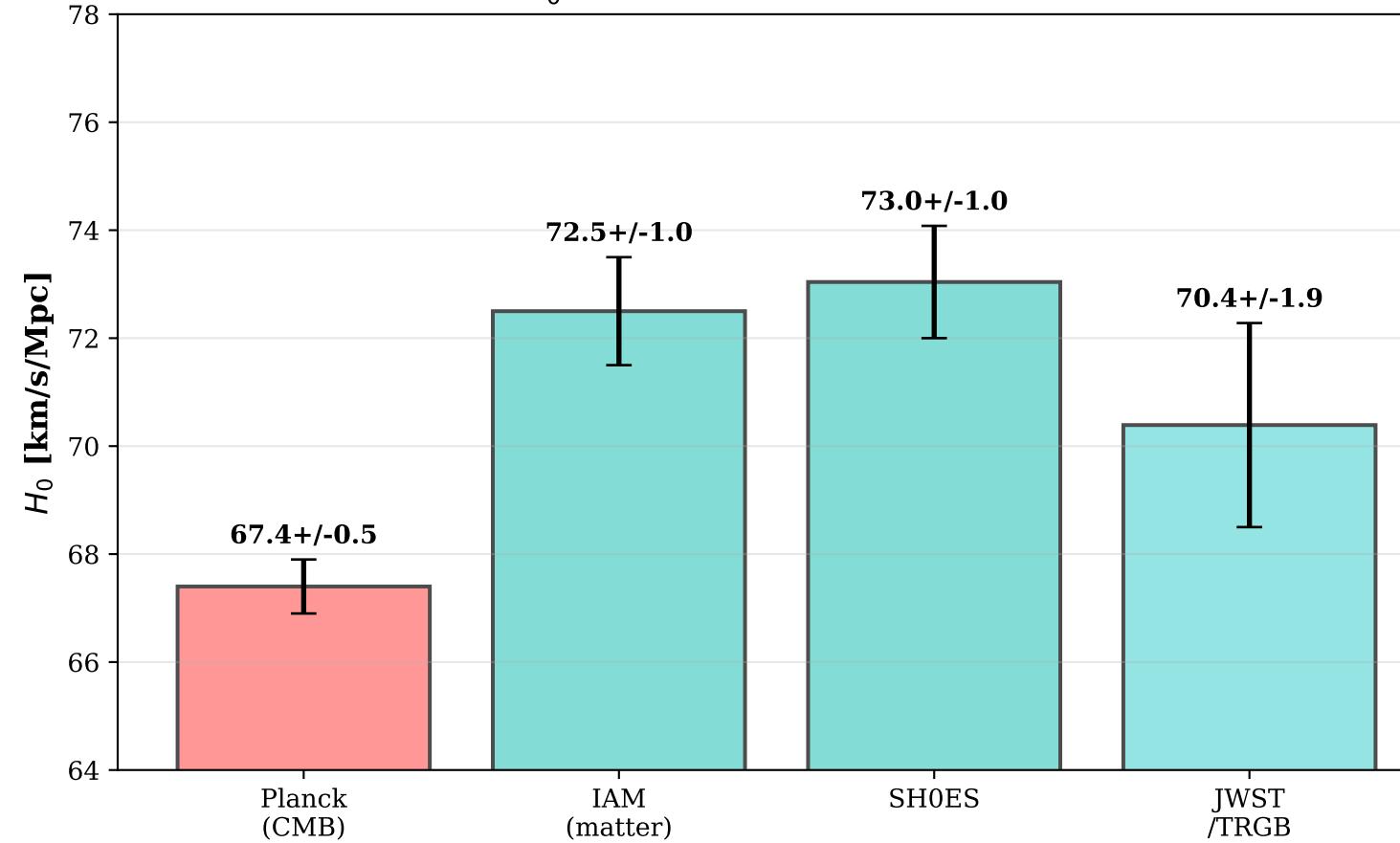
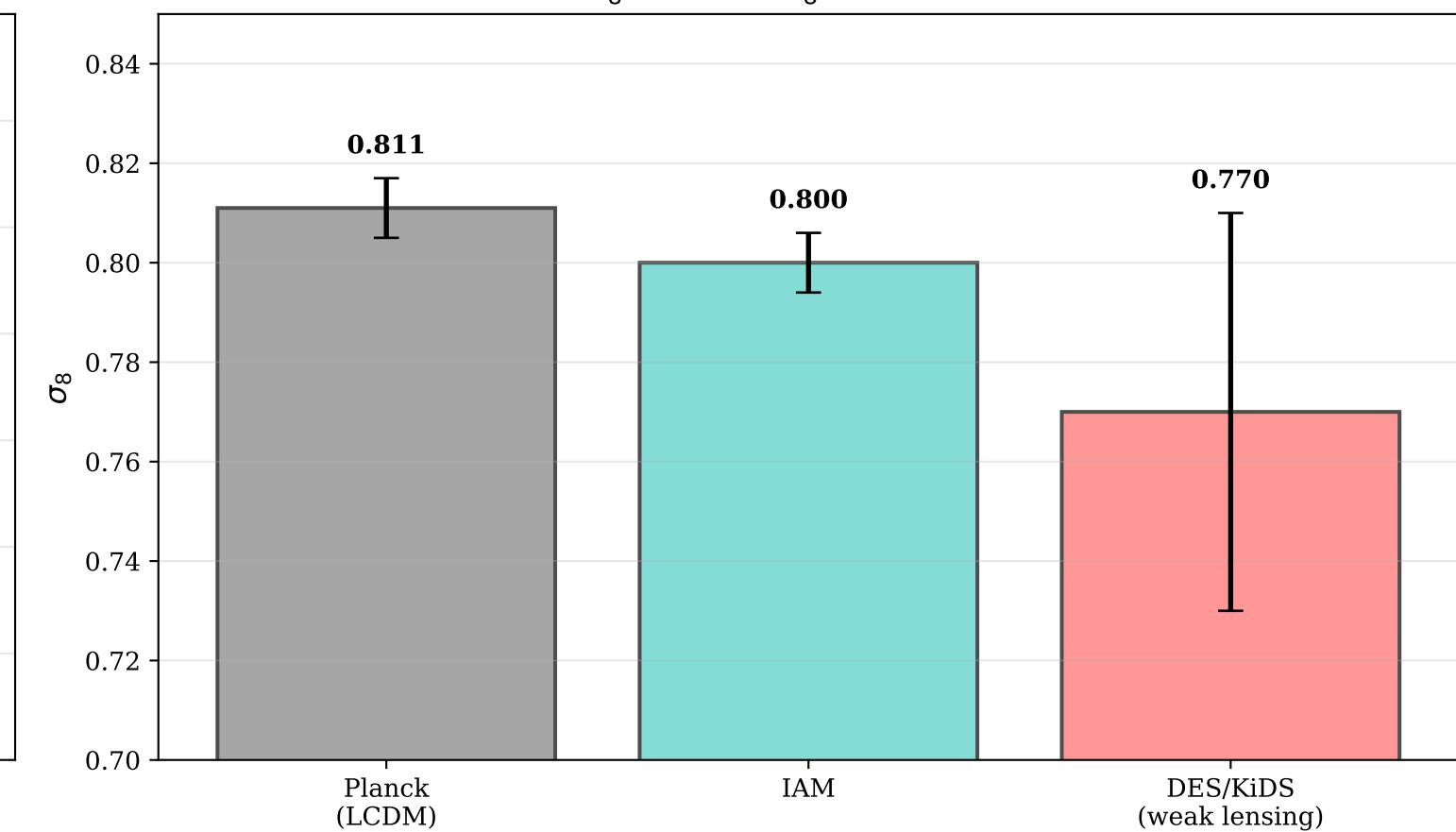


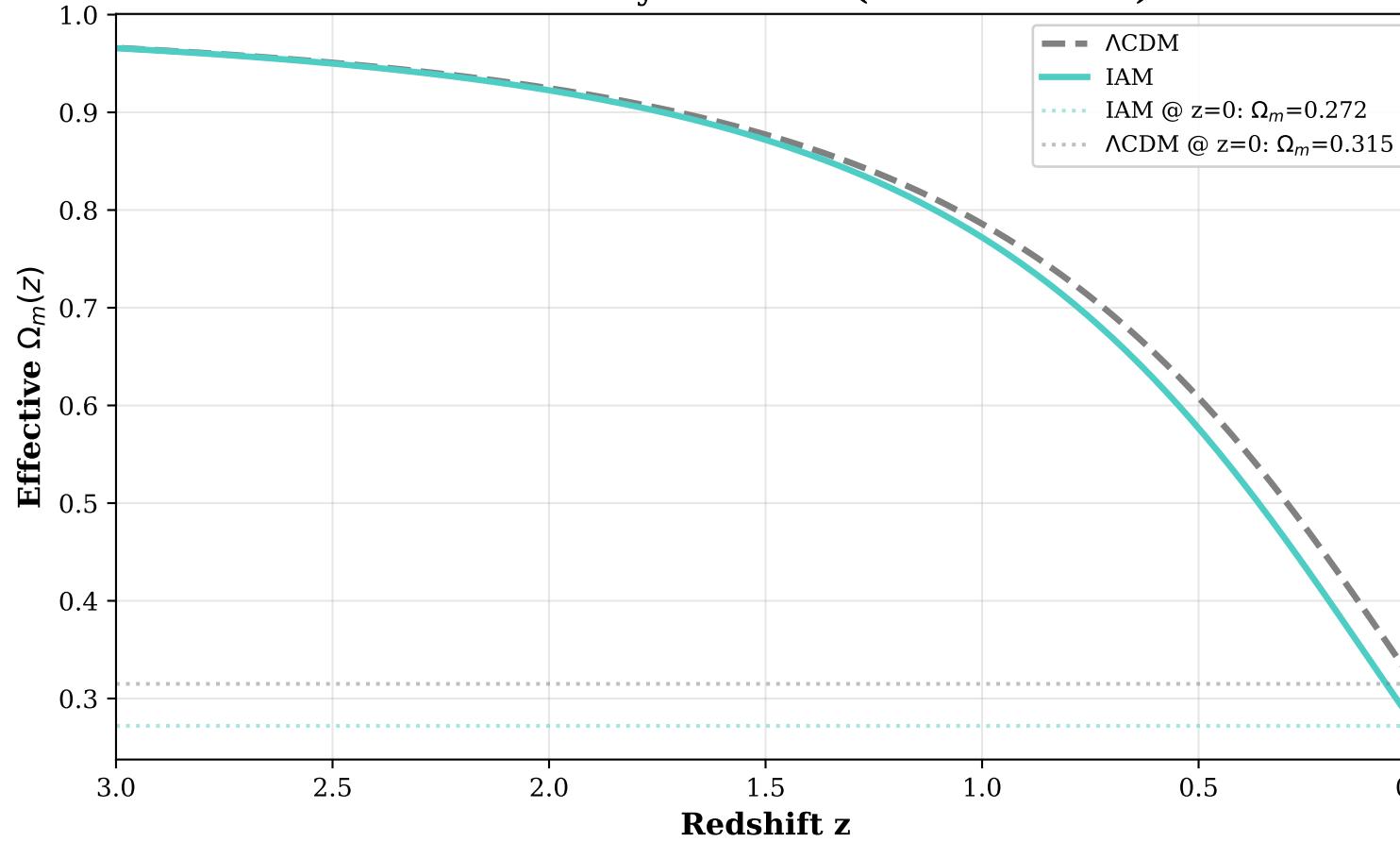
H_0 : Dual-Sector Predictions



σ_8 : Partial S_8 Resolution



Matter Density Evolution (13.7% dilution)



IAM Dual-Sector Results

Parameters:
 $\beta_m = 0.157 +/ - 0.029$ (68% CL)
 $\beta_g < 0.004$ (95% CL)
 $\beta_g/\beta_m < 0.022$ (95% CL)

Hubble Parameter:
 $H_0(\text{photon}) = 67.4 \text{ km/s/Mpc}$
 $H_0(\text{matter}) = 72.5 +/ - 1.0 \text{ km/s/Mpc}$
 $\sigma_8(\text{IAM}) = 0.800$
 $\Omega_m(z=0) = 0.272$ (13.7% diluted)

Statistical Performance:
 $\chi^2(\text{LCDM}) = 38.28$
 $\chi^2(\text{IAM}) = 8.27$
 $D\chi^2 = 30.01$
Significance = 5.5 sigma

Mechanism:

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