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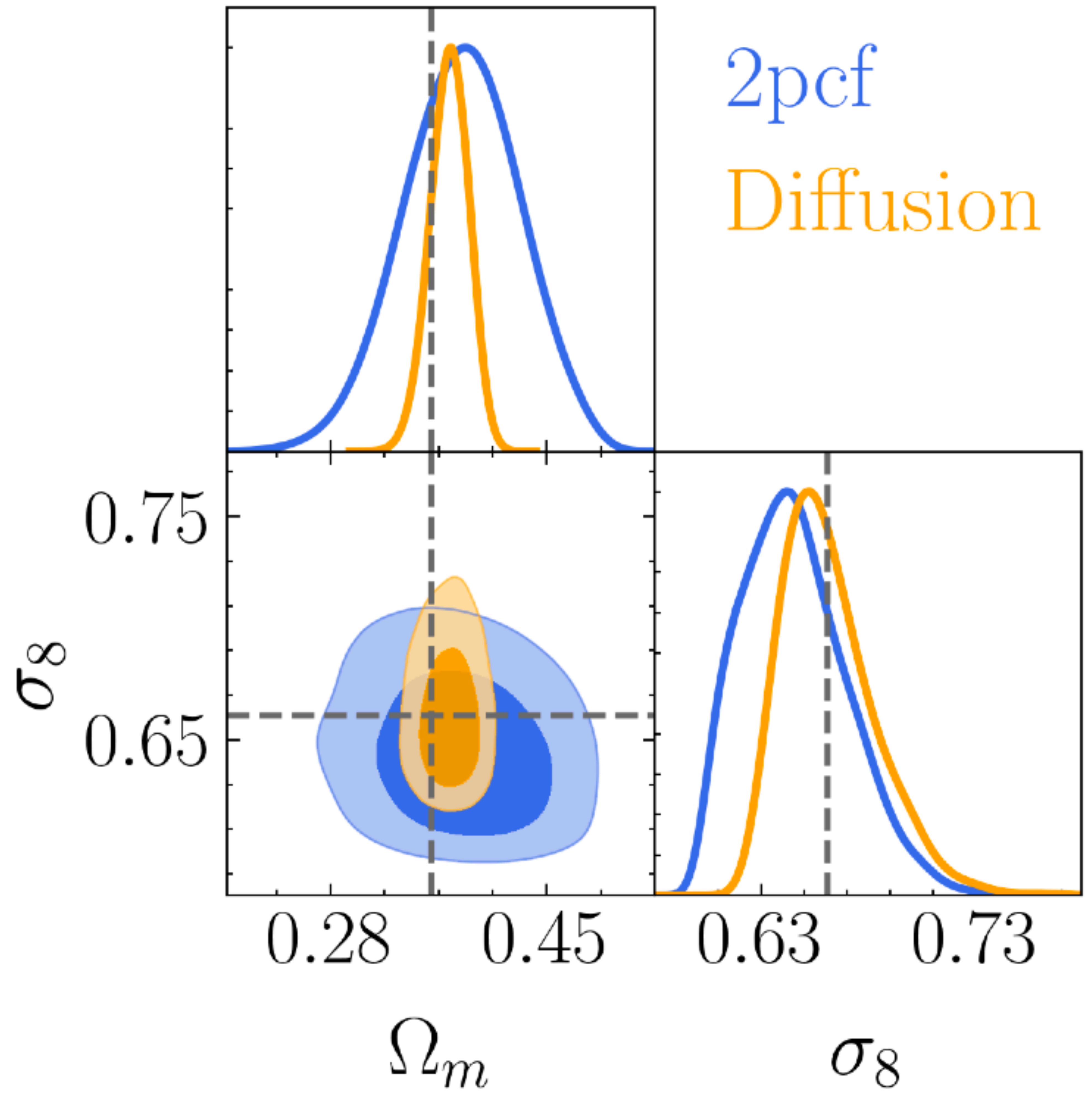
Likelihoods and parameter inference

For a given dataset, can use the likelihood $p(x \mid \theta)$ for posterior parameter inference

- Monte Carlo sampling (MCMC, nested sampling, HMC…)
- Variational inference



2pcf
Diffusion
0.75
0.65
σ_8
0.28
0.45
0.63
0.73
Ω_m
σ_8

Preliminary

Likelihoods and parameter inference

For a given dataset, can use the likelihood $p(x \mid \theta)$ for posterior parameter inference

- Monte Carlo sampling (MCMC, nested sampling, HMC...)
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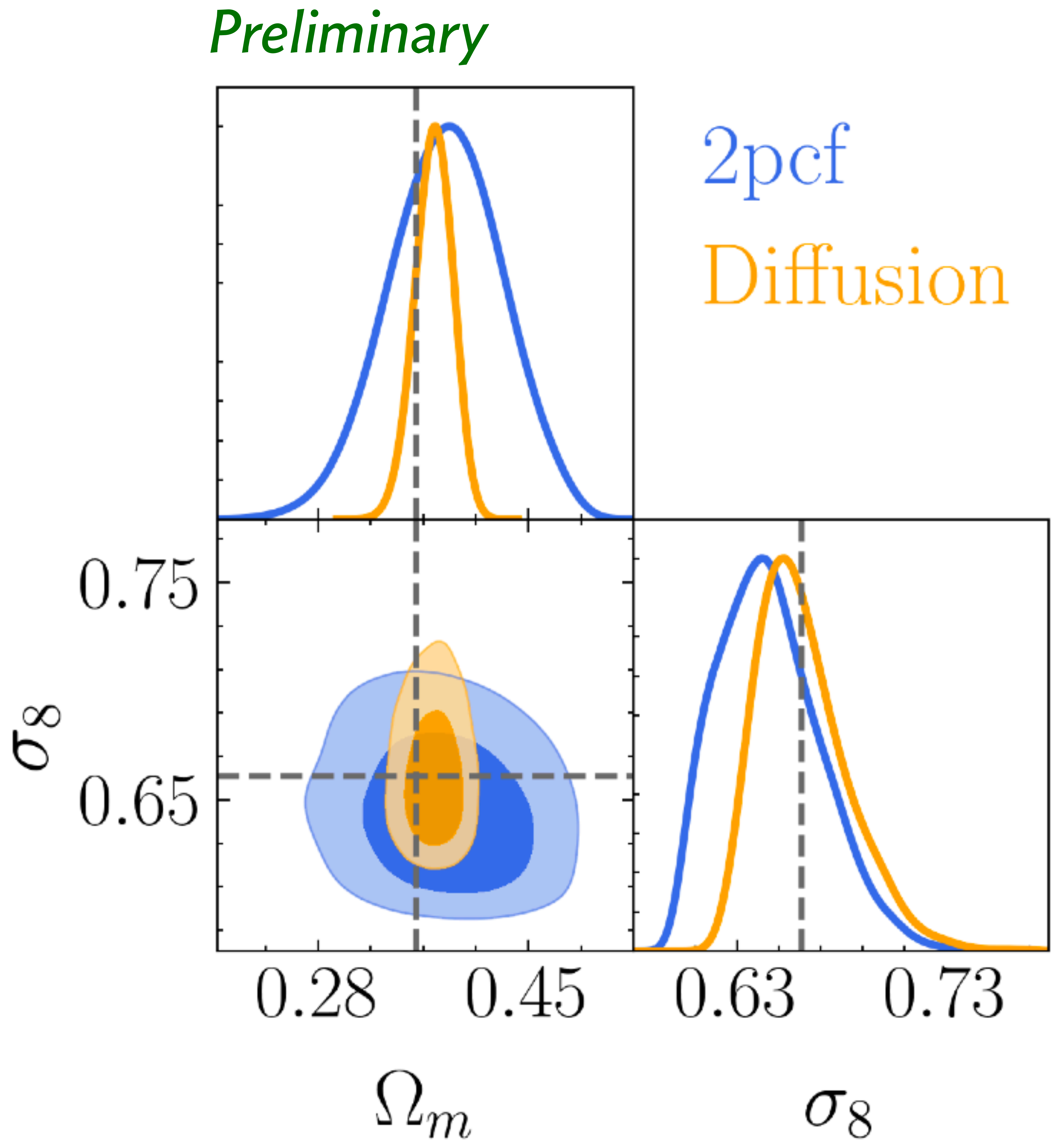

Another application: *as a galaxy prior for gravitational lensing*

[Adam, Coogan, Malkin et al 2022]