

Panel: Simulations & Theory

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ChatGPT:

The question of whether it is better for cosmology to rely on numerical simulations or to use perturbation theory cannot be definitively answered with a singular preference as each method is suited to different aspects of cosmological research. However, if forced to choose one due to factors such as versatility in application and the ability to handle the complexities of an evolving universe more comprehensively, **numerical simulations** would often be considered the "better" choice in many modern contexts of cosmological research.

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- Are there aspects of LSS in simulations not treatable by PT? (centrals vs satellites; 1-halo RSD; velocity bias)
- How to add systematics (mask etc.) to PT?
- Configuration space and $k \gg 1$
- PT vs halo model?
- Priors and physics
- Requirements for stage-IV ++ feasible?