

Emulators for cosmological inference

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Cosmological large-scale structure is a nonlinear stochastic process governed mainly by gravity. Its statistical properties depend on the initial conditions and the energy components that constitute the universe. Therefore, extracting information on these fundamental cosmological problems from observational data is an inverse problem. The computational cost of numerical simulations is a bottleneck in this problem setting. We discuss the use of emulators as a working example to replace simulations and alleviate this issue.

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