

Anatomy of single-field inflationary models for primordial black holes

Monday, 11 December 2023 15:00 (20 minutes)

In this presentation, we will outline the essential features and the phenomenology of single-field inflationary scenarios that can produce enhanced curvature power spectra associated with the production of primordial black holes. We will present a simple analytic set-up capable of capturing the spectral shapes in typical models presented in the literature. We will also discuss models capable of generating sizeable spectral oscillations and the presence or absence of “dips” - features where the power spectrum nearly vanishes.

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