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Numerical simulation of Primordial Black Holes

Friday 17 May 2019 09:00 (30 minutes)

In this talk I will present a fast and new procedure to calculate the averaged mass excess threshold δc of primordial black holes from a given cosmological perturbation profile using pseudo-spectral methods, numerically solving the Misner-Sharp equations. I apply the method in the cosmological context to put constraints on the inflationary power spectrum.

Presenter: ESCRIVÀ, Albert

Session Classification: Inflation and PBH (III)