ID de Contribution: 3 Type: Non spécifié

Amin Nassiri-Rad: Stochastic non-attractor inflation

lundi 9 novembre 2020 16:00 (45 minutes)

We extend the formalism of stochastic inflation to the setup of non-attractor inflation with a sound speed cs. We obtain the Langevin equations for the superhorizon perturbations and calculate the stochastic corrections to curvature perturbation power spectrum. It is shown that the fractional stochastic corrections in mean number of e-folds and power spectrum are at the order of power spectrum. We also calculate the boundary crossing and the first hitting probabilities in a hypothetical dS space with two boundaries in field space. Furthermore, the stochastic corrections in power spectrum in a setup akin to eternal inflation with large diffusion term are calculated.