

Rencontres franciliennes de cosmologie primordiale

Rapport sur les contributions

ID de Contribution: 2

Type: **Non spécifié**

Opening and welcome forewords

jeudi 21 mars 2019 09:30 (10 minutes)

ID de Contribution: 3

Type: **Non spécifié**

The cosmological bootstrap

jeudi 21 mars 2019 09:40 (1h 20m)

Orateur: Prof. BAUMANN, Daniel (Amsterdam University)

ID de Contribution: 4

Type: **Non spécifié**

Inflation with strongly non-geodesic motion: motivation, theoretical consistency and observational signatures

jeudi 21 mars 2019 11:30 (30 minutes)

Orateur: PINOL, Lucas (IAP)

ID de Contribution: 5

Type: **Non spécifié**

Discussion

jeudi 21 mars 2019 12:00 (45 minutes)

ID de Contribution: 6

Type: **Non spécifié**

Backreaction of the infrared modes of scalar fields on de Sitter geometry

jeudi 21 mars 2019 14:00 (30 minutes)

We study the back-reaction of the infrared modes of an $O(N)$ theory in a classical de Sitter background. We use the nonperturbative renormalization group methods to extract the flow of the Hubble constant as we integrate the gravitationally enhanced long wavelength modes. The scalar theory flows towards an effective zero dimensional theory for the super-horizon modes, which allows to perform analytical computations. For a massless theory, the interactions tend to renormalize negatively the Hubble constant, thus drawing energy from the classical gravitational field. This phenomenon saturates however, due to the generation of a mass. Also, in the case of a broken symmetry, we show that the goldstone modes don't contribute to the flow.

Orateur: MOREAU, Gabriel (Université Paris Diderot)

ID de Contribution: 7

Type: **Non spécifié**

Discussion

jeudi 21 mars 2019 14:30 (30 minutes)

ID de Contribution: 8

Type: **Non spécifié**

(De)stabilization of the Higgs vacuum during inflation

jeudi 21 mars 2019 15:30 (30 minutes)

Orateur: Dr FUMAGALLI, Jacopo (IAP)

ID de Contribution: **9**

Type: **Non spécifié**

Discussion

jeudi 21 mars 2019 16:00 (1 heure)