



ID de Contribution: 7

Type: **Oral presentation**

A separate universe approach to multifield inflation

jeudi 29 février 2024 10:30 (15 minutes)

The endless quest for dark matter could end with the discovery of primordial black holes, object which form from the collapse of large inhomogeneities in the very early universe. Stochastic inflation provides a way of studying the backreaction of these large inhomogeneities and estimating the number of primordial black holes. Because stochastic inflation focuses on large scales, a separate universe approach is necessary. To study the validity domain of said approach, we will study hamiltonian dynamics in a generic multifield inflation model, in which primordial black holes are likely to appear.

Astrophysics Field

Cosmology

Day constraints

I can present on the first two days (28/02/2024 and 29/02/2024) but I cannot make it on the Friday morning or early afternoon (01/03/2024)

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