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The strong backreaction in axion inflation: a lattice study

Tuesday 6 February 2024 11:40 (45 minutes)

In this talk, I will address the issue of the strong backreaction regime in the abelian axion inflation scenario. I will review our latest work on lattice simulations of the model, where we present a complete framework to simulate this model. Our work demonstrates that inhomogeneities generated during the evolution at the latest stages of inflation are specially relevant to provide a correct description of the dynamics, and can also lead to a number of new relevant results. Therefore, I will provide a detailed description of the strong backreaction regime and I will compare our results with previous spatially homogeneous semi-analytical studies.

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Session Classification: Simulations