

Poster: Characterization of the strong backreaction regime in axion inflation

In this talk, I will address the issue of the strong backreaction regime in the abelian axion inflation scenario, extending results from 2303.17436 and ongoing work. I will do a revision of the mild and strong backreaction regimes, during and at the end of inflation, and also show how they can be distinguished in terms of dynamics and lengthening of the inflationary period, as well as, the helical imbalance. I will also highlight the ultraviolet sensitivity of the model in the case of larger couplings and the challenges it presents for the accurate capture of the dynamics.

Would you be interested in presenting a poster? (this will not impact the decision on your talk)

yes

Author: URIO, Ander (University of the Basque Country)

Co-authors: FIGUEROA, Daniel G. (Univ. of Valencia and CSIC (ES)); LIZARRAGA, Joanes (University of the Basque Country); URRESTILLA, Jon (University of the Basque Country)

Presenter: URIO, Ander (University of the Basque Country)

Session Classification: Reception and Poster Session