

Dynamically induced Planck scale and inflation in the Palatini formulation

Friday 25 September 2020 16:45 (30 minutes)

We study non-minimal Coleman-Weinberg inflation in the Palatini formulation of gravity in the presence of an R^2 term. The Planck scale is dynamically generated by the vacuum expectation value of the inflaton via its non-minimal coupling to the curvature scalar R . We show that the addition of the R^2 term in Palatini gravity makes non-minimal Coleman-Weinberg inflation again compatible with observational data.

Author: RACIOPPI, Antonio (National Institute of Chemical Physics and Biophysics, Tallinn)

Presenter: RACIOPPI, Antonio (National Institute of Chemical Physics and Biophysics, Tallinn)

Session Classification: Cosmology