

Light inflaton and reheating

Tuesday 20 August 2019 16:45 (15 minutes)

We consider the inflation model of a singlet scalar field (sigma field) with both quadratic and linear non-minimal couplings where unitarity is ensured up to the Planck scale. We assume that a Z_2 symmetry for the sigma field is respected by the scalar potential in Jordan frame but it is broken explicitly by the linear non-minimal coupling due to quantum gravity. Also, we discuss a novel reheating process with quartic potential dominance.

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Session Classification: Focus Talks