

Fundamental physics in the cosmos: The early, the large and the dark Universe



Contribution ID: 54

Type: **not specified**

Cosmological attractors and universal predictions

Wednesday 27 September 2017 17:13 (15 minutes)

We consider different types of single field inflationary models such as Higgs inflation-types and the attractors models. We discuss their unitarity and renormalizability properties. Once quantum corrections are considered, new physics is demanded. As a matter of fact, to consistently connect the low and high energy regimes of the effective field theories (described in terms of Standard model and inflationary parameters respectively), some threshold corrections are needed. This raises the question: how are the predictions sensitive to the required UV completion?

We show under which circumstances the observables predicted by the model are insensitive to the UV completion.

Primary author: FUMAGALLI, Jacopo (Nikhef)

Co-author: Dr POSTMA, Marieke (Nikhef)

Presenter: FUMAGALLI, Jacopo (Nikhef)

Session Classification: Parallel Session: Cosmology & Astroparticle Physics - Dark Matter

Track Classification: Cosmology & Astroparticle Physics