



Contribution ID: 92

Type: **not specified**

The Power Spectrum of Inflationary Attractors

Thursday 25 September 2014 14:00 (20 minutes)

Inflationary attractors predict the spectral index and tensor-to-scalar ratio to take specific values that are consistent with Planck. Moreover, in this letter we demonstrate that they also give rise to a specific relation between the amplitude of the power spectrum and the number of e-folds. We investigate this relation in the context of the universal attractor for models with a generalised non-minimal coupling, leading to Starobinsky inflation. The length and height of the inflationary plateau are related via the non-minimal coupling: in a wide variety of examples, the observed power normalisation leads to at least 55 flat e-foldings. Prior to this phase, the inflationary predictions vary and can account for the observational indications for power loss at large angular scales.

Primary authors: Dr WESTPHAL, Alexander (Deutsches Elektron Synchrotron DESY); Mr BROY, Benedict (Deutsches Elektron Synchrotron DESY); Dr ROEST, Diederik (University of Groningen)

Presenter: Mr BROY, Benedict (Deutsches Elektron Synchrotron DESY)

Session Classification: Cosmology & Astroparticle Physics B