

## Is inflation featureless?

*Tuesday, August 28, 2018 3:15 PM (0:15)*

### **Abstract content**

Exclusion of several classes of models due to LHC and astroparticle data has revived interest in grand unification. Typical unified theories predict topological defects. We study a particular SUSY SO(10) model which can produce transitory domain walls near grand unification scale, comparable to the scale of onset of low field inflation. While topologically not stable, the D-parity domain walls are indicated to be formed by Kibble mechanism and are referred to as topological pseudo-defects. We study these in the context of inflation and their potential relation to CMB anomalies.

**Primary author(s)** : Prof. YAJNIK, Urjit (IIT Bombay)

**Co-author(s)** : Dr. GARG, Ila (IIT Bombay); Mr. GOSWAMI, Rajesh (IIT Bombay)

**Presenter(s)** : Prof. YAJNIK, Urjit (IIT Bombay)

**Session Classification** : Cosmology

**Track Classification** : Cosmology