



Contribution ID: 60

Type: **not specified**

## Primordial fluctuations and non-Gaussianities in a Galilean theory

*Monday, April 18, 2011 5:30 PM (15 minutes)*

We consider a multi-scalar-tensor model of gravity in which the action contains higher-order derivatives of the scalar fields without introducing extra propagating degrees of freedom. In the context of an inflationary era, we study the background evolution of this model as well as the linear and non-linear properties of the cosmological fluctuations it generates. Orthogonal non-Gaussianities are shown to arise for the first time in a concrete model and new shapes of non-Gaussianities are identified.

**Primary authors:** Dr KOYAMA, Kazuya (University of Portsmouth); Dr RENAUX-PETEL, Sebastien (University of Cambridge); Dr MIZUNO, Shuntaro (University of Portsmouth)

**Presenter:** Dr RENAUX-PETEL, Sebastien (University of Cambridge)

**Session Classification:** Contributed Talks