



Contribution ID : 37

Type : **Contributed talk**

## Inflation from $f(R)$ theory with all possible terms

*Monday, 23 May 2016 15:20 (20)*

In my talk I will present the  $f(R) = \sum_n \alpha_n R^n$  model with finite and infinite amount of higher order terms. By the assumption of existence of one stationary point positioned anywhere at the Einstein frame potential I will obtain a theory with Starobinsky-like Einstein frame potential, which will include all  $R^n$  terms. I will compare results with the Planck data and discuss the stability of the GR vacuum of the model.

**Primary author(s)** : ARTYMOWSKI, Michal (Jagiellonian University)

**Presenter(s)** : ARTYMOWSKI, Michal (Jagiellonian University)

**Session Classification** : Cosmo 1

**Track Classification** : Astro/Cosmo/Neutrinos