



Contribution ID: 128

Type: **not specified**

Cosmic Inflation from Yang-Mills Instantons

Monday, April 24, 2017 3:30 PM (15 minutes)

We consider an eight-dimensional Einstein-Yang-Mills theory to study whether Yang-Mills instantons formed in extra-dimensions can trigger cosmic inflation in our four-dimensional spacetime. We observe that the Yang-Mills instantons in extra dimensions and homogeneous in four dimensional spacetime act as a cosmological constant for the four-dimensional Einstein gravity. As a result, we study whether the cosmic inflation in our four-dimensional spacetime can be triggered by the Yang-Mills instantons.

Primary author: Prof. KOH, Seoktae (Jeju National University)

Co-authors: Dr KIM, Kyung Kiu (Sejong University); Dr YANG, Hyun Seok (Sogang University)

Presenter: Prof. KOH, Seoktae (Jeju National University)

Session Classification: Afternoon session