Contribution ID: 50

Type: Contributory Talks

Current Cosmic Acceleration with Slotheon

Thursday 29 January 2015 15:45 (15 minutes)

I will discuss the cosmological viability of a slow-moving Galileon field in a potential. The Slotheon Lagrangian respects the Galileon symmetry in curved spacetime. I will carry out the detailed investigations of the underlying dynamics of this Lagrangian with an Einstein-Hilbert

term and a potential. I will demonstrate that the model can give rise to a viable ghost-free late-time acceleration of the universe. Furthermore, I will also carry out the observational analysis of the model and use observational data from growth, type Ia supernovae

data, baryon acoustic oscillations, and the cosmic microwave background to constrain the parameters of the theory.

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Session Classification: Dark Energy-II