Contribution ID: **4** Type: **not specified**

Infrared physics of inflationary correlation functions

Wednesday 24 September 2014 17:10 (15 minutes)

A naive perturbation theory predicts that loop corrections generated during inflation suffer from various infrared (IR) divergences. We discuss the origin of the IR divergences and explore the regularity conditions, which will restrict the possible initial states of inflationary universe. This talk is based on our recent works, summarized in the review article, Class.Quant.Grav. 30 (2013) 233001 [arXiv:1306.4461].

Primary author: Dr URAKAWA, Yuko (Institute for Advanced Research, Nagoya University)

Co-author: Prof. TANAKA, Takahiro (Kyoto university)

Presenter: Dr URAKAWA, Yuko (Institute for Advanced Research, Nagoya University)

Session Classification: Cosmology & Astroparticle Physics B