

KEK Theory Meeting on Particle Physics Phenomenology (KEK-PH2018 winter) and 3rd KIAS-NCTS-KEK workshop on Particle Physics Phenomenology

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Primordial non-Gaussianities as a particle collider

Tuesday, 4 December 2018 11:30 (30 minutes)

The energy scale of inflation could be as high as 10¹⁴ GeV, hence it is a phenomenon at the highest energy scale we may explore. Primordial non-Gaussianities can then be thought of as a 10¹⁴ GeV collider (dubbed the cosmological collider), which may be used to probe new particles at the inflationary scale. In this talk I will review recent progress in the cosmological collider program including our own works. In particular I will discuss how to read off the mass and spin of new particles from non-Gaussianities.

Presenter: NOUMI, Toshifumi (Kobe University)

Session Classification: Plenary Session