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The Cosmic Laboratory: Probing Inflation with Galaxy Clustering

Saturday 5 December 2015 17:35 (20 minutes)

The large-scale distribution of galaxies is a powerful probe of the physics of Inflation. In this talk, I will explain what it would take for a future galaxy survey to use galaxies as a probe of primordial non-Gaussianity in order to distinguish between single-field and multi-field Inflation, and I will introduce a specific proposal for such a survey, called SPHEREx. I will also revisit the prediction for the exact level of non-Gaussianity and scale-dependent bias in single-field Inflation.

Author: DE PUTTER, Roland

Presenter: DE PUTTER, Roland

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