

Evolution of the inhomogeneous universe: From Inflation to structure formation

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Non-linear evolution of primordial parity violation

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The discovery of parity violation in weak interactions dictated the structure of the standard model of particle physics. Recent hints of parity violation in the cosmic microwave background and large-scale structure of the universe make us wonder, whether parity can provide us any information about the mysteries of cosmology as well. In this talk, I will demonstrate, how primordial parity violation gets affected by the non-linear evolution of matter density fields and how it remains engraved in the large-scale structure of the universe.

Presenter: AZYZY, Shaghaiegh

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