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Challenges in supersymmetric cosmology

Thursday, 1 September 2022 11:00 (30 minutes)

I will discuss the problem of scale hierarchies in particle physics and cosmology and propose ways to address it. In particular I will present a framework of natural inflation within supergravity dubbed 'inflation by supersymmetry breaking'. The main idea is to identify the inflaton with the superpartner of the goldstino, in the presence of a gauged R-symmetry that may contain the R-parity of the supersymmetric Standard Model.

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