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Gravitino Cosmology and No-Scale Higgs Inflation

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In this talk I will discuss about Higgs inflation in the framework of a minimal extension of the Standard Model gauge symmetry by a $U(1)_{B-L}$ factor. Furthermore I will talk about physics related to the nature of gravitino, considering possible scenarios, including that it is the lightest supersymmetric particle (LSP) where it can be considered as a DM candidate. The other possibility including the gravitino is not the LSP, then we have a short lived gravitino and a long-lived depending upon the mass range of gravitino.

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