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Gravitino condensation, supersymmetry breaking and inflation

Friday 5 December 2014 18:30 (30 minutes)

Supersymmetry is a well motivated theoretical paradigm, which, if it exists, must be broken at low energies. As such, understanding the origin of this breaking is key in order to make contact with known phenomenology.

To this end we detail a non-perturbative breaking mechanism for local supersymmetry in gravitino condensation, an approach which we demonstrate also provides a UV motivated, phenomenologically viable inflationary mechanism at no added cost.

We present results establishing contact between this scenario and known phenomenology, and discuss future avenues for research.

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