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Constrained superfields in SUSY and SUGRA

Thursday, 19 May 2016 11:10 (20 minutes)

When supersymmetry is broken and nonlinearly realized, one may remove from the spectrum of the theory various component fields. This is achieved by introducing appropriate constraints to the various superfields. We discuss the coupling of the nilpotent Goldstino superfield to supersymmetry and supergravity, and to matter superfields.

We also give a generic setup within which one can remove any component field from the spectrum.

We also discuss applications to inflationary cosmology.

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