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Dark Matter and Inflation from Supergravity

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Supersymmetry (with R-parity conservation) provides a natural dark matter candidate. In models with gravity mediated supersymmetry breaking, the discovery of the Higgs boson with mass 125 GeV and the lack of discovery of supersymmetric particles at the LHC heavily constrains this framework for dark matter. The current status will be reviewed. Supergravity may also play an important role in formulating models of inflation. For example, experimentally favored models such as Starobinsky inflation arise very easily in no-scale models of supergravity. The present status of these models will also be reviewed.

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