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The Next-to-Minimal Supersymmetric Standard Model

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The motivations for the Next-to-Minimal Supersymmetric Standard Model (NMSSM) are reviewed, and possible unconventional signals for Higgs and sparticle production at the LHC are discussed. In the presence of a light pseudoscalar, the SM-like Higgs scalar can decay dominantly into a 4-tau final state. In the fully constrained NMSSM with mSUGRA-like soft SUSY breaking terms, the correct dark matter relic density is obtained for a singlino-like LSP and a stau NLSP, which modifies considerably all sparticle decay chains.

Summary

We review recent results on NMSSM specific Higgs and sparticle searches at colliders.

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