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Search for Higgs Bosons in SUSY Cascade Decays and Neutralino Dark Matter (15' + 5')

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We study the possibility of observing at the LHC Higgs bosons produced from supersymmetric decay chains in the regions of parameter space consistent with a neutralino dark matter relic density. We analyze the dependence on the non- standard Higgs boson, slepton and squark masses, as well as on the condition of gaugino mass unification. In general, we conclude that, provided sleptons are heavier than the second lightest neutralino, the presence of (boosted) Higgs is a common MSSM feature, implying excellent prospects for observation of the light MSSM Higgs boson in the near future.

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