

Higgs

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We examine the neutralino dark matter phenomenology in supersymmetric scenarios with nonuniversal Higgs masses at the gauge coupling unification scale that can acommodate a light Higgs boson, where the correct relic density is obtained mostly through the annihilation into a pseudoscalar A. Our analysis shows that most part of the A pole region can produce detectable gamma-ray and antiproton signals. We further focus on uncertainties influencing the results in indirect and mainly direct detection.

Neutralino dark matter with a Light

 Comments: 6 pages, 4 figures, talk at Moriond 2011 conference on EW Interactions and Unified Theories
Subjects: High Energy Physics - Phenomenology (hep-ph); Cosmology and Extragalactic Astrophysics (astro-ph.CO); High Energy Astrophysical Phenomena (astro-ph.HE)
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