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Dark matter detection in the BMSSM

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The addition of non-renormalizable terms involving the Higgs fields to the MSSM (BMSSM) ameliorates the little hierarchy problem of the MSSM. For neutralino dark matter, new regions for which the relic abundance of the LSP is consistent with WMAP (as the bulk region and the stop coannihilation region) are now permitted. In this framework, we analyze in detail the direct dark matter detection prospects in a Xenon-like experiment. On the other hand, we study the capability of detecting gamma-rays, antiprotons and positrons produced in the annihilation of neutralino LSPs in the Fermi and oncoming AMS-02 experiments.

Summary

based in references:

arXiv:0912.3905 [hep-ph]

arXiv:0906.4696 [hep-ph] Published in JHEP 0908:053,2009.

Auteur: Dr BERNAL, Nicolás (CFTP - IST)

Orateur: Dr BERNAL, Nicolás (CFTP - IST)

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