

SUSY-QCD corrections to neutralino-stop co-annihilation

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We have computed the one-loop SUSY-QCD corrections for neutralino-stop coannihilation into electroweak gauge and Higgs bosons in the MSSM. I will show that these annihilation channels are phenomenologically relevant within the pMSSM, in particular in the light of the observation of the Higgs boson with a mass of about 126 GeV at the LHC. I will show numerical results for the cross sections and their impact on the neutralino relic density and demonstrate that the corrections have to be considered in order to match with experimental precision from Planck results.

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