

Engineering a 125 GeV Higgs in the MSSM

Thursday 23 May 2013 15:00 (25 minutes)

A 125 GeV Higgs boson can be most naturally realized within the MSSM if there is significant stop squark mixing. This talk deals with the difficulties in obtaining large stop mixing from high-scale SUSY breaking models. We detail the necessary conditions on the high-scale soft terms, and review several scenarios of SUSY breaking mediation with regards to their compatibility with maximal stop mixing. We also present a new model in which maximal stop mixing can be naturally realized within gauge-mediated SUSY breaking.

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