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Light singlet scenario in R-symmetric SUSY

Content :

R-symmetry is an additional symmetry which might be preserved after SUSY breaking. This leads to interesting phenomenological consequences like the existence of Dirac gauginos. A model with a minimal implementation of this symmetry, the MRSSM, also includes a gauge singlet Higgs state which could be lighter than the observed 125 GeV SM-like Higgs, while still not conflicting LEP or LHC bounds. In this talk I will discuss positive effects of mixing between SM-like and singlet Higgses as well as phenomenology of Dirac bino-singlino dark matter.

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