

Prospects for DM Direct Detection in (non-)SUSY models

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We perform global fits on various SUSY models as well as on simplified DM models with leptophobic/phobic mediators. These fits take into account astrophysical data (relic abundance and DD limits), searches at the LHC as well as other measurements (Higgs, low-energy and flavor observables). Based on these fits we predict the favored ranges for DM masses and Direct Detection cross sections. In particular, in the simplified model approach we go beyond the analyses done by the LHC DM WG and perform a fit to the full available parameter space.

Author: HEINEMEYER, Sven (CSIC (Madrid, ES))

Presenter: HEINEMEYER, Sven (CSIC (Madrid, ES))

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