

26th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2018)



Contribution ID: 151

Type: **Talk (closed)**

Constraints from LHC-data on supersymmetric particles in scenarios with light right-handed neutrinos

Thursday 26 July 2018 14:30 (20 minutes)

Natural SUSY models have Higgsinos as the lightest supersymmetric particles with masses of at most a few hundred GeV. Assuming that the gauginos are significantly heavier this implies that the relic dark matter density is significant below the observed values. At the same time neutrino masses need to be explained. We propose thus a model with light right-handed (s)neutrinos where the right-handed sneutrinos are the lightest supersymmetric particles. We discuss to which extent recent LHC data constrain such scenarios.

Parallel Session

Supersymmetry: Models, Phenomenology and Experimental Results

Author: Prof. POROD, Werner (Uni. Wurzburg)

Presenter: Prof. POROD, Werner (Uni. Wurzburg)

Session Classification: Supersymmetry: Models, Phenomenology and Experimental Results