

Dirac sneutrino as a light dark matter

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We show that mostly right-handed Dirac sneutrino is a viable supersymmetric light dark matter candidate. While the Dirac sneutrino scattering with nuclei is dominantly through the Z boson exchange and is stringently constrained by the invisible decay width of Z boson, events observed at direct dark matter searches such as CDMS II-Si or CoGeNT can be account for.

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