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Light neutralino dark matter in MSSM

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Three dark matter direct detection experiments (DAMA, COGENT and CRESST) have reported a possible signal of WIMP interaction corresponding to very light particles, close to the edge of the XENON-100 and CDMS sensitivity. Imposing the latest constraints from colliders, flavour physics, electroweak precision tests and dark matter searches, we show that viable MSSM scenarios with a light neutralino, in agreement with all the present data, are feasible. An analysis of the characteristics of the resulting scenarios will be presented.

Primary author: Dr MAHMOUDI, Nazila (CERN (CH) & Clermont Ferrand University (FR))

Co-authors: ARBEY, Alexandre (Lyon U.); BATTAGLIA, Marco (University of California,Santa Cruz (US))

Presenter: Dr MAHMOUDI, Nazila (CERN (CH) & Clermont Ferrand University (FR))

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