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The muon $g-2$ and dark matter in the MSSM at 100 TeV

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We study the muon $g-2$ and neutralino dark matter as explained by the MSSM where the squarks and 3rd generation sleptons are decoupled. Particularly, we focus on constraints from current and future dark matter experiments such as PandaX-II and LUX-2016 as well as current bounds from collider searches. Using the constraints on the MSSM from the muon $g-2$ and DM searches, we study constraints from multilepton + MET searches at 8 TeV LHC, and the prospects for searches at 100 TeV proton-proton collision energies.

Experimental Collaboration

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