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Prospects for SUSY dark matter after the LHC Run 1

Thursday 23 July 2015 12:30 (15 minutes)

We present the prospects for searches for dark matter after Run 1 of the LHC, based on a global fit in the phenomenological MSSM with 10 parameters (pMSSM10). Particular care has been taken regarding the implementation of the most important limits obtained from the SUSY searches at Run 1 of the LHC. The information from the observed Higgs signal, limits from Higgs searches, as well as constraints from electroweak precision data, flavour physics, cosmological data and direct searches for dark matter are also taken into account. The prospects for dark matter searches at the upcoming Run 2 of the LHC, at a future e^+e^- collider, and at direct detection experiments.

The talk will be based on arXiv:1504.03260 and updates thereof.

This talk is submitted on behalf of the MasterCode collaboration. It is not clear yet who will actually give the talk.

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