



ID de Contribution: 7

Type: **Non spécifié**

Optimisation of MET searches at the LHC. Complementarity with DM-related constraints.

mercredi 26 avril 2017 10:20 (20 minutes)

In the context of a simplified dark matter model with a pseudo-scalar mediator, we study how the present missing energy searches could be optimised for future LHC runs.

We then complete the analysis with complementary constraints coming relic abundance and indirect detection searches. We find that LHC high luminosity prospects strongly constrain the thermal relic hypothesis in large part of the parameter space of the model.

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Classification de Session: Higgs and BSM

Classification de thématique: Astroparticles