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Dark matter searches and results linked to astroparticles physics from ATLAS and CMS

Tuesday 17 September 2013 11:00 (25 minutes)

In this talk we will present an overview of the searches for Dark Matter performed by the ATLAS and CMS collaborations.

Several models for new physics beyond the Standard Model which are probed at the LHC also include a Dark Matter candidate.

Additionally, searches for direct production of WIMP candidates will be shown, which look for events containing only a single object and large missing transverse momentum. For cosmic ray astro-particle physics the measurements of the pp cross section are relevant, as they can be used to constrain nuclear interaction models at highest energies available in the laboratory.

Primary author: WEBER, Michele (Universitaet Bern (CH))

Presenter: WEBER, Michele (Universitaet Bern (CH))

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