



Contribution ID: 180

Type: **Presentation**

Mono-jet searches in ATLAS and CMS

Thursday 26 June 2014 17:30 (20 minutes)

We present results by the ATLAS and CMS experiments on a search for new phenomena in pp collision events with one high momentum jet and large missing transverse energy. The data are compared to the SM prediction of the background, dominated by the W/Z+jets production with neutrinos and mis-reconstructed charged leptons in the final state. The results are interpreted in the context of different Beyond the Standard Model scenarios: Large Extra Dimensions, generic WIMP pair production, Gauge Mediated SUSY Breaking with production of light gravitinos, and Un-particle production in association with a jet.

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Session Classification: Particle Physics

Track Classification: Particle Physics