



Contribution ID: 119

Type: **parallel talk**

Search for Supersymmetry in the all hadronic final state with the CMS experiment

Monday 6 May 2013 14:00 (15 minutes)

A search for physics beyond the standard model is performed in events with at least three jets and large missing transverse momentum using the data recorded from proton-proton collisions with the CMS detector at the Large Hadron Collider. All backgrounds are estimated from proton-proton collision data. They are: Z+jets events where the Z decaying to neutrinos, W+jets and top events where W decay yields a lepton that is not detected or a tau that decays hadronically, and multi-jet events where the missing momentum originates from jet mismeasurements, heavy-flavour decays, or instrumental effects. No significant excess of events is observed above the expected backgrounds. The results are presented in the context of constraint Minimum Supersymmetric Standard Model and simplified models.

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Session Classification: SUSY I