

Abstract Submitted
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Search for Supersymmetry in the Same-Sign Dilepton Channel with the CMS detector ARUN LUTHRA, UC Riverside, CMS COLLABORATION — Events with same-sign dileptons, high p_T multijets and large missing energy represent a very low Standard Model background at the LHC. In regions of the Supersymmetry parameter space which are accessible in the first 100 pb^{-1} of integrated luminosity, there are expected to be low momentum leptons which are not strongly isolated from the rest of the event. Using a pseudo-data sample of 10 TeV pp collisions reconstructed by a full simulation of the CMS detector, we will present a search for an excess of low momentum same-sign dilepton events over a data driven estimate of the background.

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