

Abstract Submitted
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Search for supersymmetry in events with large missing energy and multijets JARED STURDY, University of California, Riverside, CMS RA2 TEAM — We present a search for new physics in events with large missing energy and at least 3 jets collected in proton-proton collisions at a center-of-mass energy of 7 TeV. The search is performed using a dataset collected in 2011 with the CMS detector and corresponding to an integrated luminosity of 4.7 fb^{-1} . We evaluate all backgrounds using various data-driven techniques. Results are interpreted within the context of the constrained minimal supersymmetric extension of the standard model (CMSSM) as well as several simplified models particularly suited to our search channel.

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