

Abstract Submitted
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Estimation of ttZ , QCD and rare SM processes for Top Squark Search in All Hadronic Final States ANNA MERRITT, Univ of Illinois - Chicago, CMS COLLABORATION — A search for hadronically-decaying top squarks is presented, based on an integrated luminosity of 137 /fb of proton-proton collision data recorded by the CMS experiment with a center-of-mass energy of 13 TeV. Search regions are defined in terms of the multiplicity of bottom quark jets, top quark and W boson candidates, missing transverse momentum, and the scalar sum of jet transverse momenta. Three backgrounds of the analysis will be discussed here: the QCD, irreducible TTZ , and rare backgrounds. The results include limits for both direct and gluino-mediated top squark production.

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