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Search for scalar top quark production in all hadronic channel

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We present the result of a search for production of scalar top quark in fully hadronic final states using 13 TeV proton-proton collision data collected by the CMS detector at the LHC, corresponding to an integrated luminosity 2.3fb^{-1} . We search for scalar top quarks decaying directly to stable neutralinos and top quarks which subsequently decay in all-hadronic state with multiple jets and large missing transverse momentum. Sensitivity to the potential signal, over a range of scalar-top and neutralino masses is obtained by classifying events into bins defined in term of large missing momentum, MT_2 , the number of bottom quark and hadronic top quark reconstructed with a top-quark tagger.

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