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Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks HUI WANG, Univ of Illinois - Chicago, CMS COLLABORATION COLLABORATION — My presentation is based on the analysis of searching for supersymetric particles, with the data collected by CMS detector in 2016, at a center-of-mass energy of 13 TeV and correspond to an integrated luminosity of 35.9 inverse fb. This analysis focuses on simplified SUSY models with top quarks and large missing transverse momentum in all hadronic final states. These channels have distinctive signatures and a powerful customized top tagger further optimizes the events selection. No statistically significant excess of standard model is observed but the previous limits of the masses of supersymetric particles are extended.

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