

Abstract Submitted  
for the SES16 Meeting of  
The American Physical Society

**A search for supersymmetry in all-hadronic final states using top tager with the CMS detector at the LHC** YAGYA JOSHI, Florida Intl Univ, CMS COLLABORATION — A search for supersymmetry in all-hadronic events with missing transverse momentum using top quark tagging is presented. The data were collected during 2016 in proton-proton collisions at a center-of-mass energy of 13 TeV with the CMS detector at the LHC. . Sensitivity to the potential signal, over a range of scalar-top and neutralino masses is obtained by selecting events into bins with large missing momentum,  $MT_2$ , the number of bottom quark and all-hadronic top quark selected with a top-quark tagger.

Yagya Joshi  
Florida Intl Univ

Date submitted: 18 Oct 2016

Electronic form version 1.4