

Abstract Submitted
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Search for supersymmetry in final states with photons and missing transverse energy at 13 TeV ALLISON REINSVOLD HALL, Univ of Notre Dame, CMS COLLABORATION — A search for supersymmetry in final states with photons and missing transverse energy in proton-proton collisions at the CMS detector in 2016 is presented. The data sample corresponds to an integrated luminosity of 35.9/fb collected at a center-of-mass energy of 13 TeV. No excess is observed with respect to the standard model expectation, and the results are used to set limits on gluino pair production and squark pair production in models of gauge-mediated supersymmetry breaking. Gluino masses below 1.88 TeV and squark masses below 1.68 TeV are excluded at a 95% confidence level.

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