



## Search for general gauge mediated SUSY in final states with photons

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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. The results are used to set limits on gluino pair production and squark pair production in models of gauge-mediated supersymmetry breaking (GMSB). Efforts to combine several photonic SUSY searches in order to set limits on more realistic GMSB models will also be discussed.

**Tuesday**

**January 30**

**4:00 P.M.**

**Rm 415 NSH**