

Abstract Submitted  
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**A Search for Supersymmetry at CMS with Two Photons and Missing Transverse Energy at  $\sqrt{s} = 13$  TeV** ARKA SANTRA, ANDREW ASKEW, Florida State Univ, MICHAEL HILDRETH, University of Notre Dame, ARISTOTELES KYRIAKIS, NCSR Demokritos, DAVID MASON, Fermilab, ALLISON REINSVOLD, University of Notre Dame, IASONAS TOPSIS-GIOTIS, NCSR Demokritos, MARC WEINBERG, Florida State Univ, CMS COLLABORATION — A search with Gauge Mediated Supersymmetry Breaking (GMSB) is presented. This search was carried out by collecting two photons by the CMS Experiment at the LHC, CERN at  $\sqrt{s} = 13$  TeV. The missing transverse energy of the collected events was then compared and contrasted with the Standard Model background prediction. The background was estimated using a data-driven technique. The result was then interpreted using simplified model.

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