

Abstract Submitted
for the APR12 Meeting of
The American Physical Society

**Search for Gauge Mediated Supersymmetry Breaking in Events
with Two Photons and Missing Energy Using the CMS Detector at the
LHC** YUEH-FENG LIU, Carnegie Mellon University, CMS COLLABORATION —

We present a search for Gauge Mediated Supersymmetry Breaking with two photons and large missing transverse energy in the final state using the CMS experiment at the Large Hadron Collider. The analysis is based on pp collision data at $\sqrt{s} = 7$ TeV comprising an integrated luminosity of 4.7 fb^{-1} . We compare the missing transverse energy distribution with the spectrum expected from Standard Model processes and present the latest results based on the 2011 CMS dataset.

Yueh-Feng Liu
Carnegie Mellon University

Date submitted: 04 Jan 2012

Electronic form version 1.4