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Missing Transverse Energy Performance at CMS using Photon + Jet Events BRIAN CALVERT, TED KOLBERG, SARAH ENO, NICK HADLEY, University of Maryland - College Park, CMS COLLABORATION — Missing Transverse Energy (MET) is an important variable in many searches for new physics at the LHC, as it can be used to infer the momentum carried by undetected particles such as neutrinos or the lightest supersymmetric particle in supersymmetry models with R-parity conservation. We present here a study of the performance of MET at the CMS detector, and compare to expectations based on detector simulation, using direct photon events. The study uses data collected in 2012 by the CMS detector at the LHC at $\sqrt{s} = 8$ TeV.

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