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Searches for Gauge Mediated Supersymmetry at the Tevatron

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We present a variety of model-independent studies of final states involving photons in combination with other objects. These include charged leptons (including taus), jets (including b-tagged jets), additional photons, and missing energy. Several kinematic distributions are examined in each final state considered to search for discrepancies from the standard model. One of the final states examined, involving a photon, a charged lepton, a b-tagged jet, and missing energy, is employed to study standard model production of t-tbar-gamma in addition to potential new physics. The results use data collected at the Tevatron corresponding to up to 2/fb of integrated luminosity.

Authors: D0, Physics Coordinators (D0); WRIGHT, Thomas (CDF)**Presenter:** Dr LUTZ, Pierre (CEA Orsay)**Session Classification:** 10 - Beyond the Standard Model (theory and experimental searches)**Track Classification:** 10 - Beyond the Standard Model (theory and experimental searches)