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Searches for GMSB SUSY in diphoton plus missing transverse energy and photon plus Z plus missing transverse energy at Tevatron

vendredi 22 juillet 2011 18:00 (15 minutes)

We report the result of searches for final states with 2 vector bosons, either two photons or one photon plus one Z, in association with large missing transverse energy produced in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV. The data were collected with the D0 detector at the Fermilab Tevatron Collider and correspond to up to 6.3 fb $^{-1}$ of integrated luminosity. The observed missing transverse energy distributions are used to set limits on different realizations of theories beyond the standard model, including limits on the breaking scale Λ of gauge mediated supersymmetry models.

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