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## **Search for Supersymmetry with Gauge-Mediated Breaking with the D0 Detector**

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We report the results of a search for supersymmetry (SUSY) with gauge-mediated breaking in the missing transverse energy distribution of inclusive diphoton events using approximately 1.2 fb<sup>-1</sup> of data collected by the D0 experiment at the Fermilab Tevatron Collider in 2002-2006. This analysis is the most sensitive probe for the gauge-mediated SUSY models up to date with a short-lived neutralino as the next-lightest SUSY particle.

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