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Search for Supersymmetry and R-Parity violating Supersymmetry at the Tevatron

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The production of chargino-neutralino pairs and their subsequent leptonic decays is one of the most promising supersymmetry (SUSY) signatures at the Tevatron proton-antiproton collider. We present here the most recent results on searches for the three-lepton and missing-transverse-energy SUSY signature using data collected at the Tevatron. The results are interpreted within the minimal supergravity (mSUGRA) scenario. Also presented is a search for R-Parity violating supersymmetry in which signals of possible non-conservation of R-parity through resonant production of supersymmetric neutrinos which decay to a pair of leptons.

Authors: D0, Physics Coordinators (D0); WRIGHT, Thomas (CDF)

Presenter: HALKIADAKIS, Eva (Dept. of Physics and Astronomy-Rutgers, State Univ. of New Jersey)

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