Search for SUSY at Tevatron Run II from Chargino-Neutralino Production in Low \( p_T \) Di-muon Channel

VLADIMIR REKOVIC, University of New Mexico, MICHAEL GOLD, University of New Mexico, JOHN STROLOGAS, University of New Mexico — The Minimal Supersymmetric Standard Model (MSSM) predicts the production of tri-lepton events at the Tevatron via chargino-neutralino production. We will present our sensitivity for discovering this production using low \( p_T \) di-muon data. We use a dataset corresponding to an integrated luminosity of about 270 pb\(^{-1}\) taken by the CDF-II detector during Run II of the Tevatron, which is more than twice the data collected in Run I of Tevatron.

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