

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Search for Chargino and Neutralino Decays Using Taus at CDF

ROBERT FORREST, MAXWELL CHERTOK, ARON SOHA, University of California, Davis, CDF COLLABORATION — We present a search for chargino and neutralino supersymmetric particles yielding trilepton final states, where at least one of the leptons is a hadronically decaying tau. This signature is important in the high $\tan\beta$ SUSY region where the branching ratio of charginos and neutralinos to tau leptons dominates. We study event acceptance and lepton identification cuts and efficiencies, and provide estimates for dominant backgrounds.

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Date submitted: 11 Jan 2008

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