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Search for charged and doubly-charged Higgs boson production in proton-antiproton collisions at 1.96 TeV

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We present searches for charged Higgs production in decays of top quarks and also pair production of doubly charged Higgs boson decaying to di-tau, di-muon, and muon+tau final states. The searches are performed in proton-antiproton collisions at a centre of mass energy of 1.96 TeV using an integrated luminosity of up to 7 fb⁻¹ collected by the CDF and D0 experiments at the Fermilab Tevatron Collider. We find no evidence for charged Higgs production and set limits on the production cross-section for a variety of theoretical models. This represents the first search for pair production of doubly-charged Higgs bosons decaying into tau leptons at a hadron collider.

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