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Search for neutral Supersymmetric Higgs bosons in di-tau and $b+di\text{-tau}$ final states in proton-antiproton collisions at 1.96 TeV

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We present a search for Higgs boson produced in the di-tau modes or via the associated $h+b\rightarrow\tau\tau+b$ process at a center-of-mass energy of 1.96 TeV using data collected with the CDF and D0 detectors at the Fermilab Tevatron collider. In Supersymmetric models the Higgs boson production cross section can be significantly enhanced compared to the Standard Model; additionally the Higgs boson has a significant branching ratio to tau leptons at all masses. The di-tau and “b-tau” channels complement each other providing enhanced sensitivity for the search in the SUSY parameter space.

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