

Abstract Submitted
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Search for the Higgs boson in electron tau plus jet final states IAN HOWLEY, University of Texas, Arlington, D0 COLLABORATION — We present a search based on D0 data for the standard model Higgs boson in final states of two tau leptons and at least two jets, with one of the tau's decaying to an electron and the second decaying hadronically. A number of Higgs production and decay processes contribute in different proportions as a function of Higgs boson mass. The identification of hadronically decaying tau leptons is discussed and the ratio of 95% C.L. Higgs cross section lower limits from the data to that expected in the standard model is obtained. Many of the techniques for this search are common with those described in the companion abstract "*Search for the Higgs boson in muon tau plus jet final states*" and the two presentations will jointly cover these.

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