

Abstract Submitted  
for the APR07 Meeting of  
The American Physical Society

**Search for Higgs Bosons in  $WW^* \rightarrow \ell\tau$  Decays** BJOERN PENNING,  
Freiburg University, D0 COLLABORATION — The D0 experiment is performing very well and recent Higgs analyses are approaching sensitivity as predicted in the 1998 Higgs/SUSY workshop. In these initial studies the final states including hadronically decaying  $\tau$  leptons were neglected. Analysis of these channels would improve the current limits of Higgs production cross section due to a large  $\tau \rightarrow$ hadrons branching fraction. In this talk a study of the  $H \rightarrow WW^* \rightarrow \ell\tau$  channel ( $\ell = e, \mu$ ) is presented. A preliminary combination with another analysis using the two lepton final state shows a clear improvement on the sensitivity.

Ulrich Heintz  
Boston University

Date submitted: 10 Jan 2007

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