

Abstract Submitted  
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**Search for Higgs Boson in  $WW^{(*)}$  Decays** MAXIM TITOV, Freiburg University, D0 COLLABORATION — The process  $H \rightarrow WW^{(*)} \rightarrow \ell^+\ell^-$  ( $\ell = e, \mu$ ) is studied in  $p\bar{p}$  collisions at the center of mass energy  $\sqrt{s} = 1.96$  TeV with the upgraded DØ detector at the Fermilab Tevatron accelerator. A Higgs particle with a mass greater than 140 GeV primarily decays into a of W-bosons and the semi-leptonic decay channels of the W provide a clear signature. Apart from the Standard Model Higgs, for which a discovery will only be possible at highest integrated luminosities, exotic models with enhanced cross sections may be probed already with data corresponding to integrated luminosities of a few hundred  $\text{pb}^{-1}$ .

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