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Search for the Higgs Boson in $WW^{(*)} \to l^+l'^-$ Decays in ppbar Collisions at sqrt(s)=1.96 TeV

Tuesday 18 August 2009 14:00 (1 minute)

Please give a brief summary of your poster

We present a search for the Standard Model Higgs boson produced via the $H \to WW^{(*)} \to l^+l'^-$ (l,l' = e,μ,τ) process at a center-of-mass energy of $\sqrt{s}$ =1.96~TeV with the D0 detector at the Fermilab Tevatron collider. A Higgs particle with a mass greater than 140 GeV primarily decays into a pair of W-bosons and the leptonic decay channels of the W provide a clear signature. This channel provides the greatest sensitivity to the Higgs at the Tevatron, and sensitivity to the Standard Model Higgs is expected with this data set. As well as the inclusion of the full data set, up to 5~fb^{-1}, recent improvements to the sensitivity will be discussed.

Primary author: Ms NAYYAR, Ruchika (University of Delhi, India)

Presenter: Ms NAYYAR, Ruchika (University of Delhi, India)

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