Contribution ID: **33** Type: **not specified**

Combined Upper Limit on Standard Model Higgs Boson Production at D0 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

Abstract: We present the combination of the searches for the Standard Model Higgs boson at a center-of-mass energy of $\sqrt{s}$ =1.96~TeV, using up to 5~fb^{-1} of data collected with the D0 detector at the Fermilab Tevatron collider. The major contributing processes include associated production ($WH \to l\nu bb$, $ZH \to \nu\nu bb$, $ZH \to llbb$, and $WH \to WWW^{(*)}$) and gluon fusion ($gg \to H \to WW^{(*)}$). The significant improvements across the full mass range resulting from the larger data sets, improved analyses and inclusion of additional channels are discussed; we expect sensitivity to a Higgs boson with a mass around 160 - 170 GeV with this data set.

Primary author: Dr BERNHARD, Ralf (University of Freiburg)

Presenter: Dr BERNHARD, Ralf (University of Freiburg)

Session Classification: Poster Session

Track Classification: Poster Session