ICHEP2012



Contribution ID: 458 Type: Parallel Sessions

Combined Search for the Standard Model Higgs Boson at D0 in ppbar Collisions at sqrt(s)=1.96 TeV

Saturday 7 July 2012 16:15 (15 minutes)

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 the full Run 2 dataset collected with the D0 detector at the Fermilab Tevatron collider. The major contributing processes include associated production (WH->lvbb, ZH->vvbb, ZH->llbb, and WH->WWW()) and gluon fusion (gg->H->WW()). The significant improvements across the full mass range resulting from the larger data sets, improved analyses and inclusion of additional channels are discussed. The combination of all channels results in significantly improved sensitivity across the 100-200 GeV mass range.

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Session Classification: Plenary 3 - The Standard Model - TR1

Track Classification: Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches