

High Energy Physics - Experiment

Search for a Low Mass Standard Model Higgs Boson at D0 in ppbar Collisions at $\sqrt{s}=1.96$ TeV

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We present combined searches for the Low Mass 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 are associated production ($WH \rightarrow l\nu b\bar{b}$, $ZH \rightarrow \nu\nu b\bar{b}$, $ZH \rightarrow ll b\bar{b}$). The significant improvements across the full mass range resulting from the larger data sets and improved analyses as well as future prospects are discussed.

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