

## Search for standard model Higgs in WH->lnubb channel

*Monday 27 July 2009 15:00 (20 minutes)*

We present a search for the Standard Model Higgs boson produced in association with a W boson in p-pbar collisions at a center-of-mass energy of  $\sqrt{s} = 1.96$  TeV. The search is performed in the WH->lnubb channel using the latest amount of data collected by the CDF detector at the Fermilab Tevatron. An artificial neural network is employed to improve the separation between signal and background. Additional techniques used to improve the Higgs sensitivity include the use of optimized b-quark jet energy corrections and improved algorithms for identifying b-quarks. In the absence of an observed excess in data, an upper limit is set on the production rate times branching ratio for the Higgs.

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