Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Search for Associated Production of W and Higgs Bosons in $l\nu bb$ Final States in ppbar Collisions at sqrt(s)=1.96 TeV with Neural Networks JONATHAN BROWN, LPNHE, Universites Paris VI and VII, IN2P3/CNRS, DZERO COLLABORATION — We present a search for a low mass Standard Model Higgs boson produced in association with a W boson at a center-of-mass energy of $\sqrt{s}$ =1.96 TeV with the D0 detector at the Fermilab Tevatron collider. The search is performed in events containing one lepton (electron, muon or tau), an imbalance in the transverse energy, and one or two b-tagged jets with up to 5 fb^{-1} of data. The separation of signal and background events was done using Neural Networks. This channel is one of the most powerful in the search for a low mass Higgs at the Tevatron. Recent improvements to the sensitivity will be discussed.

Wendy Taylor
York University

Date submitted: 19 Oct 2009 Electronic form version 1.4