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Search for associated production of W and Higgs bosons in $lvbb$ final states in proton-antiproton collisions at 1.96 TeV

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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 1.96 TeV with the CDF and D0 detectors 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 8.5 fb⁻¹ of data. This channel is one of the most powerful in the search for a low mass Higgs at the Tevatron. Prospects with the full Tevatron data sample and recent sensitivity improvements will be discussed.

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