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Lepton Identification and Triggering for Standard Model Higgs Searches in the $\ell\nu jj$ final state at D0 EMILY JOHNSON, Michigan State University, D0 COLLABORATION — We search for the standard model Higgs boson with the D0 detector at the Fermilab Tevatron collider with 9.7 fb^{-1} of integrated luminosity in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV. In this analysis we consider lepton plus jets final states consistent with the decay process $H \to WW$, as well as W-associated Higgs production. Events are selected with a lepton (e or μ), missing E_T, and two or three reconstructed jets in the final state. To maximize sensitivity to Higgs production we update the electron identification criteria and use an inclusive trigger strategy to increase signal acceptance. This talk discusses the inclusive trigger as well as lepton ID requirements in these search channels.

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