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Search for Higgs boson production in the dilepton and missing transverse energy final state with the DZero detector at $\sqrt{s}=1.96$ TeV

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We present a search for the standard model (SM) Higgs boson optimized in the decay channel $H \rightarrow W^+ W^-$, where both W bosons decay leptonically. The final state considered contains dileptons ($ee, \mu\mu, e\mu$) and large missing transverse energy from the neutrinos. A multivariate analysis is used to suppress the background. No significant excess above the SM background has been observed and limits on the Higgs boson production cross section times the SM branching ratio for $m_H = 115 - 200$ GeV are computed. Recent improvements in this search channel will be presented.

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