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Search for SM Higgs decaying to WW to $l\nu l\nu$ and $l\nu q\bar{q}$ at CMS

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Results are presented on the search for the standard model Higgs boson decaying into two W bosons, with at least one W boson decaying into a charged lepton and a neutrino. Several classes of events with zero to two or more jets are analysed separately. Associated production of the Higgs with a Z or W is discussed as well. The full data sample of 4.7 fb⁻¹ of pp collisions collected in 2011 with the CMS experiment at a CM energy of 7 TeV have been analyzed, as well as a significant fraction of the 2012 luminosity delivered so far at the new energy of 8 TeV.

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