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Search for a fermiophobic Higgs particle

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Vector boson fusion and associate production of Higgs bosons are searched for, with the Higgs decaying into vector bosons. The results are interpreted in a model for a fermiophobic Higgs. 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 a significant fraction of the 2012 luminosity delivered so far at the new energy of 8 TeV.

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