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Searches for production of two Higgs bosons using the CMS detector

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Searches for events containing two Higgs bosons are presented using several decay channels of the h(126) boson. The analyses use pp collision data recorded at centre-of-mass energies of 7 and 8 TeV, corresponding to integrated luminosities of 5 fb-1 and 20 fb-1, respectively. Extended Higgs sector scenarios predict the resonant decay of new particles into a pair of h(126) bosons. These resonant di-Higgs processes are searched in dierent final states and the results are described.

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