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## Searches for SM Higgs boson decaying into two photons, ZZ and two taus in CMS

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Results are presented on the search for the standard model Higgs bosons decaying into two photons, ZZ and two taus. Multivariate techniques are used to enhance the sensitivity. The full data sample of 5.1 fb<sup>-1</sup> of pp collisions collected in 2011 at a CM energy of 7 TeV with the CMS experiment have been analyzed, as well as a significant fraction of the 2012 luminosity delivered at the new CM energy of 8 TeV.

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