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Search for Higgs bosons decaying to photons in the CMS detector

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A search for Higgs bosons has been carried out in the Higgs to gammagamma decay channel with the CMS detector at the LHC collider. In addition, a search for diphoton resonances at high mass using techniques similar to the SM Higgs boson search is presented. The analyses are based on pp collision data collected at centre-of-mass energies of 7 and 8 TeV corresponding to integrated luminosities of 5/fb and 20/fb, respectively. In the case of the SM Higgs boson search, the analysis strategy and measurements of the mass, coupling, and spin-parity are reported.

Summary

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