

Search for Higgs Bosons Beyond the Standard Model with the CMS Detector

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After a Higgs boson with a mass near 125 GeV has been discovered, it is still unclear whether this is the Higgs boson predicted by the Standard Model (SM) or part of a different, possibly extended Higgs sector. Various models with extended Higgs sectors are being considered, such as the minimal and next-to-minimal supersymmetric extensions (MSSM and NMSSM) of the SM. Recent results of searches for additional Higgs bosons with the CMS detector are presented, which are based on pp collision data collected at centre-of-mass energies of 7 and 8 TeV corresponding to integrated luminosities of 5 fb⁻¹ and 20 fb⁻¹.

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