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Search for heavy Higgs boson in fermionic decay channels with CMS

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Latest results of searches for heavy Higgs bosons in fermionic final state are presented using the CMS detector at LHC. Results are based on pp collision data collected at centre-of-mass energies of 8 and 13 TeV which have been interpreted according to different extensions of the Standard Model such as 2HDM, MSSM, NMSSM. These searches look for evidence of other scalar or pseudoscalar bosons, in addition to the observed SM-like 126 GeV Higgs boson, and set exclusion limits in fermionic final states and benchmark models explored. The talk reviews briefly the major results obtained by CMS during Run I, and present the most recent searches during Run II.

Presenter: YE CHEN

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