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Higgs boson measurements and extended scalar sector searches in fermionic final states

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Latest results of SM Higgs measurements in the fermionic final state are presented, as well as results of searches for BSM Higgs bosons using the CMS detector at LHC. Results are based on pp collision data collected at centre-of-mass energies of 8 and 13 TeV. Results 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. This talk reviews briefly all the major results obtained by CMS during Run I, and present the most recent searches during Run II.

Author: DAVID, André (CERN)

Presenter: LENZ, Teresa (Deutsches Elektronen-Synchrotron (DE))

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