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Searches for the Higgs decaying to two light pseudoscalars in the CMS experiment with Run-2 data

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The ATLAS and CMS collaborations have measured the Higgs boson in a variety of production and decay modes. These measurements still leave room for exotic Higgs boson couplings proposed by simple extensions of the Standard Model (SM). In recent years much effort has been put into looking for the 125 GeV Higgs decaying to two light pseudoscalars which then decay to bb , $\mu\mu$, $\tau\tau$ etc. In this talk we will present results based on a search performed in the context of a two Higgs doublet model extended with a scalar (2HDM+S), using p-p collision data collected by the CMS experiment in the Run-2 of LHC in different final states.

Session

Beyond the Standard Model

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