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Study of BEH Production in Fermionic decay channels in CMS

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The latest results of the search for the SM scalar boson in fermionic decay channels at the CMS experiment are presented. The dataset used corresponds to an integrated luminosity of 5 fb⁻¹ of pp collision data collected at $\sqrt{s} = 7$ TeV and up to 19.4 fb⁻¹ collected at $\sqrt{s} = 8$ TeV. The analyses described include the searches for the SM scalar boson decaying to tau pairs and to a pair of b-quarks. The compatibility of the results with the observation of a new boson at a mass near 125 GeV will be discussed. Results from the search for MSSM neutral Higgs bosons decaying to fermions will also be briefly summarized.

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Classification de Session: The SM Scalar boson

Classification de thématique: Experiment