## LHCP 2013 - First Large Hadron Collider Physics Conference



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## Study of Higgs Production in Fermionic Decay Channels at CMS

Results are presented on the study of the Higgs-like particle at 125 GeV decaying into final states consisting of either two taus, or a b anti-b quark pair, based on the full statistics of about 25 fb-1, collected in 2011 and 2012 at 7 and 8 TeV respectively with the CMS experiment. Leptonic and hadronic decay channels for the tau lepton are included in the search. Different production channels namely inclusive, VBF and associated production have been studied. The b bbar decay channel is studied in associated production with W/Z and top quarks. SM and MSSM interpretations of the data will be given for both decay channels. The most recent results will be presented.

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