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Study of Higgs Production in Bosonic Decay Channels at CMS

Results are presented on the study and search for Higgs-like particles decaying into a ZZ , WW and 2 photon final states, 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. Different production channels namely inclusive, VBF and associated production are studied for the 2-photon final state. The following ZZ decay channels are studied: 4 charged leptons, $2l 2\nu$, $2l 2\tau$ and $2l 2q$. Special attention will be to the low mass region where evidence for a new particle was reported earlier in 2012. The WW channel includes the study of full leptonic and semi-leptonic final states. The most recent results will be presented.

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