



Contribution ID: 101

Type: Poster

Evidence for the Higgs boson in the tautau decay channel using the CMS detector

A search for the Standard Model Higgs boson decaying to tau pair has been performed in pp collision data recorded by CMS detector at LHC at centre-of-mass energy 8 TeV (7 TeV) corresponding to an integrated luminosity 20/fb (5/fb). The production modes considered are gluon-gluon fusion, VBF and associated production with a vector boson. The analysis strategy will be reported, focusing on the estimation of background process (QCD multijet, W+jets) by data-driven methods and the resulting evidence for the Higgs boson in tau pair channel.

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