



Contribution ID: 62

Type: talk

Search for the Higgs boson in $VH(bb)$ and in the tau tau channel using the ATLAS detector

Tuesday 17 September 2013 17:30 (40 minutes)

Since the discovery of a Higgs-like boson by the ATLAS and CMS experiments at the LHC, the emphasis has shifted towards measurements of its properties and the search for the search in the less sensitive channels in order to determine whether the new particle is the Standard Model (SM) Higgs boson. Of particular importance is the direct observation of the coupling of the Higgs boson to b-quarks, the top-quark and leptons. In this presentation a comprehensive review of ATLAS results in the search for the Higgs boson in b-quark pair decay channel and in the VH and ttH will be given. A comprehensive review of ATLAS results in the search for the Higgs boson in the tau-tau decay channel and in various production modes will be also given.

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Session Classification: Working Group 1

Track Classification: Working Group 1