



ID de Contribution: 202

Type: Ordinary

## BEH fermionic decays and combination at LHC@13TeV

*mercredi 16 mars 2016 09:25 (15 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 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 fermions. In this presentation a review of ATLAS and CMS results in the search for the Higgs boson in muon, tau-lepton, b-quark pair decay channels will be given. Moreover, the searches for lepton flavor violating decays will be presented.

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**Classification de Session:** The Scalar Sector

**Classification de thématique:** Experiment