ID de Contribution: **68** Type: **Ordinary**

2nd and 3rd generation couplings with 13 TeV data

dimanche 19 mars 2017 09:05 (15 minutes)

Toward the observation of 2nd and 3rd generation BEH couplings with 13 TeV data.

The data taken at 7 and 8 TeV at the LHC already significantly constrain many couplings of the newly discovered Higgs like boson. Up to now all observations are within uncertainties in agreement with the expectations from a SM Higgs boson. Within the SM this Higgs boson of the measured mass is expected to decay predominantly into a pair of bottom and anti-bottom quarks. However, this decay has not been observed yet, neither its expected coupling to 2nd and 1st generation fermions. This presentation will show the latest results of the ATLAS and CMS collaborations using 13 TeV data with regards to couplings to 2nd and 3rd generation fermions.

Author: Dr GAYCKEN, Götz (Bonn University)

Orateur: Dr GAYCKEN, Götz (Bonn University)

Classification de Session: The SM BEH

Classification de thématique: Experiment