

Higgs boson couplings to quarks at the ATLAS experiment

Thursday, 9 May 2019 17:30 (15 minutes)

Testing the couplings of the Higgs boson to quarks is important to understand the origin of quark masses. The talk presents cross section measurements in Higgs boson decays to two b quarks, as well as a search for Higgs boson decays to two c quarks. It also presents measurements of Higgs boson production in association with a $t\bar{t}$ pair using Higgs boson decays to $b\bar{b}$ pairs, to two Z bosons, to other multi-lepton final states, and to a pair of photons. All analyses are based on pp collision data collected at 13 TeV.

Email

james.ferrando@desy.de

Primary author: FERRANDO, James (DESY)

Presenter: Dr DAVID, Claire (DESY)

Session Classification: Parallel session 2

Track Classification: Flavor and the Higgs and Dark Sectors