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Higgs boson couplings to quarks at the ATLAS experiment

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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.

Collaboration name

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