

Measurements and interpretations of the Higgs boson properties in its couplings to top, bottom and charm quarks with the ATLAS detector

Wednesday, November 9, 2022 3:00 PM (15 minutes)

Testing the Yukawa couplings of the Higgs boson to fermions is essential to understand the origin of their masses, and studies are made by exploring the properties of the Higgs boson decays to quark pairs. The talk presents various measurements of the Higgs boson decays to two bottom quarks and searches for Higgs boson decays to two charm quarks by the ATLAS experiment using the full Run 2 dataset of pp collisions collected at 13 TeV at the LHC, as well as their combination and interpretation.

Type of talk

Experimental measurements

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Session Classification: Wednesday Session A

Track Classification: Physics Topics: Yukawa