



Contribution ID: 68

Type: **Parallel session**

Measurements of the Higgs boson properties using decays into bottom and charm quark pairs with the ATLAS detector

Tuesday, 28 November 2023 09:20 (15 minutes)

Testing the Yukawa couplings of the Higgs boson with fermions is essential to understanding the origin of fermion masses. Higgs boson decays to quark pairs are an important probe of these couplings, and of properties of the Higgs boson more generally. This talk presents various measurements of Higgs boson decays into two bottom quarks as well as searches for Higgs boson decays into 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. The results of the search for Higgs boson production associated with a charm quark is also reported.

You are

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Session Classification: Parallel: Precision & Yukawas

Track Classification: Precision & Yukawas