

## Higgs boson measurements in couplings to tau leptons with the ATLAS experiment

*Wednesday 29 September 2021 12:30 (20 minutes)*

Testing the Yukawa couplings of the Higgs boson to quarks and leptons is important to understand the origin of fermion masses. ATLAS has recently measured the properties of the Higgs boson decays to two tau leptons, with an analysis based on the full dataset of pp collisions collected at 13 TeV at the LHC. The talk will present details on the analysis techniques used to measure the inclusive cross sections in the four dominant Higgs production modes, as well as in exclusive regions of the phase space using the simplified template cross-section framework.

### What is your topic?

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