

Measurement of the Higgs boson coupling to tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector at the LHC

Thursday, 30 July 2020 13:33 (3 minutes)

The thus far only observed coupling of the Higgs boson to leptons is that to tau leptons. Its coupling strength is measured using decays of Higgs boson into two tau leptons in the gluon-fusion and vector-boson-fusion production channels. A measurement of the coupling of the Higgs boson to a pair of τ leptons is presented. The application of machine-learning techniques in this channel is investigated. The analysis uses proton-proton collision data recorded at a center-of-mass energy $\sqrt{s} = 13$ TeV with ATLAS detector at the LHC.

I read the instructions

Secondary track (number)

Primary author: SAUERBURGER, Frank

Presenter: SAUERBURGER, Frank

Session Classification: Higgs Physics - Posters

Track Classification: 01. Higgs Physics