

Measurement of Higgs boson production in association with a top-quark pair in the di-photon decay channel using LHC data collected at $\sqrt{s} = 13$ TeV by the ATLAS experiment

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A measurement of the ttH production in the di-photon decay channel is performed using pp collision data at a center-of-mass energy $\sqrt{s} = 13$ TeV, recorded by the ATLAS experiment at the LHC. Two regions are defined to target either the fully hadronic or semi-leptonic decay of the top quark. In each, a boosted decision tree (BDT) is trained to create ttH enhanced categories. The measurement is then performed with a simultaneous fit to the diphoton mass in these BDT-based categories. The ttH production is observed in the diphoton decay mode and the resulting measurements will be discussed in this poster.

I read the instructions

Secondary track (number)

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