

Measurement of the $t\bar{t}H$ production

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The top quark is the heaviest elementary particle in the Standard Model, and has an expected Yukawa coupling of order unity. The value of this coupling is a key ingredient to unravel the nature of the observed Higgs boson. The only known process which has a direct sensitivity to this coupling is the production of a Higgs boson in association with a top quark-pair ($t\bar{t}H$). This talk will present an overview of the $\sqrt{s} = 13$ TeV $t\bar{t}H$ ATLAS analyses leading to the observation of this process.

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