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## ”Measurement of $t\bar{t}H$ production in multileptonic final states in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”

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Associated production of  $t$  and  $\bar{t}$  quark pairs along with a Higgs boson is an important Standard Model process as the top-Yukawa coupling can be directly measured from this process. Being the heaviest of the Standard Model particles, the coupling of top quark to Higgs field is expected to be large. Any significant deviation in the rate of this process from standard model expectation is a sign of new physics. We report the latest measurement of this process by the ATLAS experiment at the Large Hadron Collider, where the top, anti-top and Higgs bosons decay into a multileptonic final state

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