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Search for $t\bar{t}H$ production in multilepton final states using the ATLAS experiment at the LHC

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The search for Higgs boson production in association with two top quarks allows the direct measurement of Higgs boson-top quark Yukawa coupling. In this talk, results from the measurement of $t\bar{t}H$ production decaying into multilepton final states are presented. This search uses 36 fb^{-1} of proton-proton collision data collected by the ATLAS experiment at the center-of-mass energy of 13 TeV in 2015 and 2016. The analysis is most sensitive to $H \rightarrow WW$, $H \rightarrow ZZ$ and $H \rightarrow \tau\tau$ decay modes.

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