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Search for associated production of Higgs bosons and top quarks in multilepton final states at $\sqrt{s} = 13$ TeV

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A search for the associated production of a standard model Higgs boson and a top quark-anti quark pair ($t\bar{t}H$), using LHC pp collision data collected by the CMS experiment at a center of mass energy of 13 TeV in 2016. The dataset corresponds to an integrated luminosity of 12.9 fb^{-1} . The analysis uses events with two leptons of the same charge or at least three charged leptons, produced together with b jets, targeting Higgs boson decay modes to WW^* , ZZ^* , and $\tau\tau$ and leptonic decays of at least one of the top quarks. The results are combined with the 2015 dataset/ The signal strength and a 95% confidence level upper limit on the signal production cross section are presented

Summary

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