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Search for ttH production in multileptons final states at 13 TeV with CMS

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A search for top quark pair production in association with a Higgs boson in sqrt(s) = 13 TeV pp collisions is presented. The search, performed in a dataset of 35.9 fb^{-1} collected by the CMS detector along the year 2016, is performed in channels with at least two same-sign leptons and b-jets, targeting the WW^, *ZZ^* and tautau decay modes of the Higgs boson. A best fit of 1.5 \pm 0.5 times the standard model prediction is obtained, with an observed (expected) significance of 3.3 (2.5) sigma, by the combination of these results with the ones obtained in the 2015 dataset.

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