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Studies of the $t\bar{t}H$ production at 13 TeV by CMS

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In this talk, the latest results of searches for the standard model Higgs boson produced in association with a top quark-antiquark pair ($t\bar{t}H$), where Higgs decays into photons, bottom quark-antiquark pair or leptons via WW , ZZ and $\tau\tau$ will be presented. The analyses have been performed using the 13 TeV pp collisions data recorded by the CMS experiment in 2015. The results are presented in the form of the best fit to the signal strength ($\mu = \sigma/\sigma_{SM}$) measured with respect to the Standard Model prediction and its expected and observed 95% CL upper limits.

Summary

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