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2016 Update of the $t\bar{t}H$ Multilepton Analysis at 13 TeV

The latest results from the search for a Standard Model Higgs boson produced in association with a top quark pair ($t\bar{t}H$) at 13 TeV decaying to final states with multiple leptons is presented using the 2016 dataset from the CMS experiment. The Higgs decays into either WW , ZZ , or $\tau\tau$, and the top quark pair decays considered are either fully leptonic, or semi-leptonic. The leptons defining the final states are muons and/or electrons. The overall analysis strategy, as well as new techniques with respect to the 2015 results are outlined.

Summary

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