

# Higgs production in association with top quarks in CMS

*Friday, 4 September 2015 11:55 (25 minutes)*

In this talk searches for Higgs bosons produced in association with top quarks are presented. The searches are performed using the data collected during the first LHC run at a center-of-mass energy of 7 and 8 TeV and results are presented for different Higgs decay final states, including  $b\bar{b}$ ,  $\tau\tau$ ,  $WW/ZZ$  and  $gg$ , as well as their combination. The talk highlights experimental and theoretical challenges, in particular in view of the upcoming, higher energy LHC run.

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