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Search for Higgs bosons produced in association with top quarks in the CMS detector

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Searches for a Higgs boson produced in association with top quarks, both singly and in pairs, and decaying to $\gamma\gamma$, ZZ , WW , $\tau\tau$, and $b\bar{b}$ final states are presented. The analyses use pp collision data collected at center-of-mass energies of 7 and 8 TeV, corresponding to integrated luminosities of about 5/fb and 20/fb, respectively. No signals are observed for production of a Higgs boson in association with either one or two top quarks, and combined limits on the signal strength are presented.

Summary

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