



## **Measurement of the cross section of the production of a top quark pair in association with a photon at 8 TeV**

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A measurement of the cross section of top quark pairs produced in association with a photon is presented. The data were collected by the CMS experiment in proton-proton collisions at a center of mass energy of 8 TeV. The measurement is performed in the semileptonic, electron+jets and muon+jets, final state. The fiducial cross section for top quark pair plus photon production is measured in the phase space corresponding to the semileptonic decay of the top quark pair with a 25 GeV photon. The top quark pair plus photon production cross section is measured relative to the full top quark pair production cross section.

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