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## **Measurement of the cross section of the production of a top quark pair in association with a photon in pp collisions 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 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, and is measured relative to the cross section of inclusive top quark pair production.

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