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## Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV.

A search for single top quark production through flavor-changing neutral current in the anomalous tq $\gamma$  vertex is performed in proton-proton collisions at the center-of-mass energy of 8 TeV. The analysis is based on a dataset corresponding to an integrated luminosity of 19.1 fb<sup>-1</sup> collected with the CMS detector. The search is performed on events with one isolated muon and jets in the final state. No evidence for a signal is observed. Upper limits at 95% confidence level on the strengths of the anomalous couplings for vertices involving a top, a photon, and another up-like quark are set.

### Summary

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