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Measurement of $t\bar{t}W$ production cross-section at 13 TeV with CMS

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The inclusive cross-section for $t\bar{t}W$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV is measured of a dataset corresponding to an integrated luminosity of 35.9 fb^{-1} collected by the CMS experiment. The measurement is performed in events with one electron and one muon, and exploits kinematic differences between the signal and the dominating $t\bar{t}$ background through the use of multivariate discriminants designed to separate the two processes. The measured cross-section of $\sigma = 63.1 \pm 1.8$ (stat) ± 6.0 (syst) ± 2.1 (lumi) pb is in agreement with Standard Model expectations.

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