

# Measurements of differential top quark pair production cross sections as a function of kinematic event variables at 13TeV with CMS

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Measurements of differential  $t\bar{t}$  production cross sections are presented in the single-lepton decay channel, as a function of a number of kinematic event variables. The measurements are performed with proton-proton collision data collected by the CMS experiment at the LHC during 2016 at  $\sqrt{s} = 13$  TeV, with an integrated luminosity of 35.9 fb $^{-1}$ . The data are compared to a variety of state-of-the-art leading-order and next-to-leading-order  $t\bar{t}$  simulations.

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