## EPS-HEP2019



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## A measurement of the top quark Yukawa coupling from differential cross sections of top quark pairs with CMS

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A measurement of the top quark Yukawa coupling from the top quark-antiquark production as function of the mass of the top quark pair and the rapidity difference is presented. Corrections due to weak boson exchange, including the Higgs boson, between the top quarks can produce large distortions of differential distributions near the energy threshold of top quark pair production and at high invariant masses. Therefore, precise measurements of these distributions are sensitive to the Yukawa coupling.

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