

Differential cross-section measurements of highly boosted top quark pairs in all-hadronic channel

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Measurements are made of differential cross-sections of highly boosted pair-produced top quarks as a function of top-quark and $t\bar{t}$ system kinematic observables using proton-proton collisions at a center-of-mass energy of $\sqrt{s}=13$ TeV. Events with hadronically decaying pairs of top quarks are selected by requiring two large-radius jets in the final state, one with transverse momentum $p_T > 500$ GeV and a second with $p_T > 350$ GeV and separated from background using top-tagging and b-tagging. This measurement is performed using the full Run 2 dataset corresponding to an integrated luminosity of 139 fb^{-1} .

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