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Search for central exclusive production of top quark pairs with the CMS and TOTEM experiments

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A search for central exclusive production (CEP) of top quark pairs is presented using collision data collected by CMS and CT-PPS in 2017. A data-driven method to estimate the background from pileup protons is described, as well as the development of a BDT classifier to separate the exclusive top signal from the inclusive $t\bar{t}$ background. The first-ever upper limits on the cross-section of this process are shown.

In-person participation

Yes

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