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Recent measurements of top-associated cross sections in low pileup conditions in pp collisions at 5.02 TeV

We present the most recent measurements of top production cross sections in proton-proton collisions at a center-of-mass energy of 5.02 TeV. The dataset used was recorded by the CMS experiment at the LHC in special runs recorded in 2017, featuring a low-pileup environment, which offers a clean setting for precise cross-section measurements. Results are compared with state-of-the-art theoretical predictions, providing valuable insights into the behavior of the strong and electrowak interactions at high energies. These measurements enhance our understanding of top quark production mechanisms and test the precision of Standard Model predictions in a previously unexplored energy regime.

Secondary track

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