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Top measurements at CMS : Highlights and prospects

The LHC's high center-of-mass energy has enabled the production of millions of top quarks, providing an opportunity to investigate top quark-related observables with great precision. Discrepancies between experimental measurements and theoretical predictions in the top quark sector may suggest the presence of new physics. This presentation highlights recent investigations conducted by the CMS experiment, including top quark production measurements, assessments of top quark mass and properties, and rare process searches.

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