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Prospects for studying the ttbar invariant mass spectrum and the ttbar spin correlations at CMS

The top quark was discovered at the Tevatron in 1995. For the last decade the study of its properties has been a major theme in the worldwide experimental high energy physics program. The advent of the LHC opens up a new era in top quark physics; because of the large ttbar cross-section and the high luminosity, the LHC can be thought of as a top factory.

Here we report on prospects for studying of ttbar invariant mass spectrum and the ttbar spin correlation in pp collisions at a center of mass of 10 TeV with the CMS detector.

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