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Measurement of rare top-quark production processes with the ATLAS detector

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The top quark is the heaviest elementary particle in Standard Model. Measurements involving top quarks in their final states provide precision tests of the Standard Model and are also sensitive to new physics at the high-energy frontier. The latest cross-section measurements of rare processes with top quarks (tZq , ttX , 4top production) are presented here using 13 TeV proton-proton collisions recorded by the ATLAS detectors at the Large Hadron Collider at CERN. The measured values are compared to the most accurate theoretical calculations.

Summary

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