

Measurements of top quark production cross-sections with the ATLAS detector

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The LHC produces a vast sample of top quark pairs and single top quarks. Measurements of the inclusive top quark production rates at the LHC have reached a precision of several percent and test advanced Next-to-Next-to-Leading Order predictions in QCD. In this contribution, comprehensive measurements of top-quark-antiquark pair and single-top-quark production are presented that use data recorded by the ATLAS experiment in the Run 2 and Run 3 of the LHC. A recent result of the top-quark pair production in proton-lead collisions is also included.

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