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Measurement of top quark pair production cross section with the ATLAS detector at LHC

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The top quark pair production cross-section is a strong test of the Standard Model. Measurements of both the total and differential cross section with the ATLAS detector at the LHC performed using data with center-of-mass energies of 7 and 8 TeV are presented. The analyses were with on final states featuring no, one or two high- p_T electrons or muons. Additionally analyses with τ -leptons in the final states are presented.

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