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## Differential Top and Diboson Cross-Section Measurements with the ATLAS detector

*Tuesday, April 18, 2017 5:05 PM (15 minutes)*

Measurements of the differential production cross-sections of the production of pairs of electroweak gauge bosons as well as top-quark pairs at the LHC provide stringent tests of advanced perturbative QCD calculations. In addition, these processes constitute a dominant background for many searches for signs of beyond Standard Model physics processes and are directly sensitive to anomalous couplings. The ATLAS collaboration has performed detailed measurements of those differential cross sections in various final states at centre-of-mass energies of 8 and 13 TeV. In this talk, the most recent results are presented and compared to predictions at NLO (and NNLO) in pQCD, highlighting observed differences and providing an overview of required improvements on the underlying physics modelling.

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