

Standard Model and Top Physics with ATLAS

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The ATLAS collaboration has performed studies of a wide range of Standard Model physics processes in pp collisions. Recent measurements of soft particle to hard photon and jet production, which are sensitive to QCD phenomena, are presented. Drell-Yan, vector boson and diboson production cross sections are also discussed, together with constraints on anomalous triple-gauge boson couplings. Inclusive cross-section measurements for top-quark pair and single top t- and Wt-channels are shown. For top-quark pair production, emphasis is given to differential measurements and additional radiation studies, including also spin correlation and top-quark charge asymmetry. Intrinsic top quark properties as its mass and charge as well as a measurement of the polarization of W bosons in top quark decays are also presented.

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