

Early Run 2 Hard QCD Results from the ATLAS Collaboration (25'+5')

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Since a few months the LHC has started to deliver pp collisions at the unprecedented centre-of-mass energy of 13 TeV. The ATLAS collaboration has analysed this very early Run 2 data taken in both special conditions with very low pileup and those dedicated to high pT physics. This talk is an overview of hard QCD Results at 13 TeV. The production of high pT jets, photons and diphotons were studied. The inclusive jet cross section is found to agree well with the prediction of perturbative QCD calculations performed at NLO accuracy. The production cross sections for W and Z bosons in their electron and muon decays was measured. In general agreement is found with the expectation of NNLO QCD calculations and interesting sensitivities to the proton structure functions are observed already at this stage. The top production cross section, measured in different top decay channels at 13 TeV, is compared to theoretical calculations.

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