QCD@Work - International Workshop on QCD - Theory and Experiment



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ATLAS measurements of Drell Yan processes

Friday, 21 June 2024 11:50 (20 minutes)

ATLAS has used the W and Z boson production processes to perform a range of precision measurements providing important tests of perturbative QCD and information about the parton distribution functions for quarks within the proton. This talk will present recent differential Z+heavy flavour jets results, measurements of the Drell-Yan cross section as a function of transverse momentum based on low pileup data, total W- and Z-boson cross section measurements at 13.6 TeV. Finally, the LHC pp collision data collected by the ATLAS experiment at sqrt(s)=7 TeV is revisited to measure the W boson mass and width.

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