Contribution ID: **64** Type: **Contributed Talk**

Measurements of W and Z boson production at ATLAS

Wednesday, 25 March 2020 09:20 (25 minutes)

Precision measurements of the production cross-sections of W/Z boson at LHC provide important tests of perturbative QCD and information about the parton distribution functions for quarks within the proton. We present measurements of fiducial integrated and differential cross sections for inclusive W+, W− and Z boson production using data collected by the ATLAS experiment at center-of-mass energies of 2.76 and 8 TeV. Measurements of the transverse momentum distribution of Drell-Yan lepton pairs at 13 TeV are also presented. The measurements are corrected for detector inefficiency and resolution and compared with state-of-the-art theoretical calculations.

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Session Classification: Electroweak Physics and Beyond the Standard Model

Track Classification: Electroweak Physics and Beyond the Standard Model