

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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## Measurements of W and Z boson production at ATLAS

*Tuesday, 13 April 2021 12:54 (15 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 various center-of-mass energies. Measurements of the transverse momentum distribution of the vector boson 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

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