

# Precision measurements of single vector boson production at ATLAS

*Tuesday 28 July 2020 18:00 (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. In this talk, we present fiducial 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 TeV, 8 TeV and 13 TeV. The measurements are corrected for detector inefficiency and resolution and compared with state-of-the-art theoretical calculations.

## I read the instructions

## Secondary track (number)

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**Session Classification:** Strong Interactions and Hadron Physics

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