



Contribution ID: 53

Type: **not specified**

Measurements of the Z boson production at ATLAS

Monday 15 November 2021 17:40 (20 minutes)

Precision measurements of the Drell-Yan process at LHC provide most precise tests of perturbative QCD and information about the parton distribution functions for quarks within the proton. We present the measurement of the transverse momentum and $p_{T, \text{start}}$ distributions of Drell-Yan lepton pairs at 13 TeV. The measurement is corrected for detector inefficiency and resolution and compared with state-of-the-art theoretical calculations. A summary of similar measurements at 7 and 8 TeV is also presented.

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Session Classification: pp processes