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Measurements of inclusive W and Z production in ATLAS

The production of the W and Z bosons is the standard candle process at the LHC.

The differential Z/γ^* and the charge dependent W^+ and W^- cross sections are provided in bins of boson rapidity and lepton pseudorapidity.

A measurement of angular correlations in Drell–Yan lepton pairs for neutral current process via the ϕ observable is also presented. This variable probes the same physics as the Z/γ boson transverse momentum (p_T) with a better experimental resolution, especially for low transverse momenta. Neutral current Drell Yan off-Z resonance peak cross section is sensitive to the proton parton distribution functions, in particular to u -bar quark density. An overview of these results is given.

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