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Inclusive and differential W/Z at ATLAS and CMS

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Summary

The data recorded by the ATLAS and CMS detectors allow for precision studies of Standard Model physics. We report the LHC measurements of single W and Z boson production at different centre-of-mass energies. We report both differential cross sections and ratios of W boson and Z boson measurements. These results allow tests of the performance of different parton distribution functions (PDFs), and can be used to further constrain the PDFs. In addition, the results are compared to predictions from different Monte Carlo generators, testing different approaches to modeling QCD effects. We also report measurements of the forward-backward asymmetry in Z boson decays, and measurements of angular coefficients, which provide sensitivity to the electroweak mixing angle.

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