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Measurements of vector boson production in ATLAS and CMS

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Vector boson production in p≠p collisions in LHC Run≠1 has been extensively studied by ATLAS and CMS. Charged and neutral current Drell Yan cross sections are sensitive to the parton distribution functions of the proton and electroweak corrections. The measurements of the neutral current Drell≠Yan process in three distinct kinematic regions, i.e. at the Z boson mass peak, below and above, are performed. The results are compared to NLO Monte Carlo simulations and to NNLO QCD predictions corrected for NLO EW effects calculated using various parameterizations of the parton distribution functions. An overview of these results is given.

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