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Measurement of W and Z boson production in association with jets at ATLAS

Measurements of W/Z-boson production in association with jets are an important test of perturbative QCD prediction and also yield information about the parton distribution functions of the proton. First, differential cross-sections for Z-boson production in association with jets using proton-proton collisions collected by the ATLAS experiment are presented. The data are compared to next-to-leading order QCD calculations and predictions from a variety of different parton distribution functions. In addition, differential cross sections are presented for Z-boson production in association with heavy-flavour jets. The data are compared to theoretical predictions provided by various Monte Carlo event generators. Finally, if available, an analysis on final states with large missing transverse momentum in association with at least one energetic jet, dominated by processes like Z boson decaying into two neutrinos and W boson decaying leptonically associated with jets will be presented.

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