XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 77

Type: not specified

Measurements of the production of jets in association with a W or Z boson with the ATLAS detector

Wednesday 18 April 2018 11:30 (25 minutes)

The production of jets in association with vector bosons is an important process to study QCD in a multi-scale environment. The ATLAS collaboration has performed measurements of vector boson+jets cross sections, differential in several kinematic variables, in proton-proton collision data taken at center-of-mass energies of 8TeV and 13TeV. The measurements are compared to state-of-the art theory predictions and can be used to constrain the gluon PDF. In data collected at 8TeV, the collaboration has measured the production of W boson+jets with a large transverse momentum of the leading jet, which enriches the collinear production of the gauge boson and a jet. The measurements are compared to state-of-the-art QCD calculations and Monte Carlo simulations.

Authors: KONDRASHOVA, Nataliia (Shanghai Jiao Tong University (CN)); REBUZZI, Daniela (Universita e INFN, Pavia (IT))

Presenter: KONDRASHOVA, Nataliia (Shanghai Jiao Tong University (CN))

Session Classification: WG4: Hadronic and Electroweak Observables

Track Classification: WG4: Hadronic and Electroweak Observables