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## Measurements of the production of jets in association with a W or Z boson with the ATLAS detector (WG2)

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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 a first measurement of vector boson+jets cross sections, differential in several kinematic variables, in 3.2 /fb of proton-proton collision data taken in 2015 at center-of-mass energies of 13TeV.

In data corresponding to 20.3 /fb at a centre-of-mass energy of 8TeV, the collaboration has measured the production of vector boson+jets in the presence of a high scale defined by the 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.

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