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Measurements of vector boson production in association with jets in ATLAS

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A measurement of vector boson production and the ratio of W boson
to Z boson production in association with jets using sqrt(s) = 7 TeV
p-p collisions at the LHC of the 2011 ATLAS dataset with an
integrated luminosity of 4.6 pb is presented. Inclusive and
differential cross sections and cross section ratios for the vector bosons decaying to electrons and muons are measured for jets with transverse momentum pT > 30 GeV and jet rapidity |y| < 4.4.
The measurements are compared to next-to-leading-order perturbative
QCD calculations, and to predictions from different Monte Carlo generators implementing leading order matrix elements supplemented
by parton showers.

APS member ID

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Primary author: BRANDT, Gerhard (LBNL)

Presenter: BRANDT, Gerhard (LBNL)

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