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## Jet production in association with vector bosons

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The associated production of jets and vector bosons allows for stringent tests of perturbative QCD calculations and is sensitive to the possible presence of new physics beyond the Standard Model. A measurement of jet production rates in association with W and Z bosons, or photons, in proton-proton collisions at a 7 TeV center-of-mass energy is presented, using data collected with the CMS detector. The measured jet multiplicity distributions corrected for efficiency and unfolded for detector effects are compared with theoretical predictions. Results for the W charge asymmetry as a function of the number of jets and a test of Berends–Giele scaling are also presented.

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