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## Vector Boson production in association with jets at CMS

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The production of vector bosons ( $W$ ,  $Z$ ,  $\gamma$ ) in association with jets is a stringent test of perturbative QCD and is a background process in searches for new physics. Total and differential cross-section measurements of vector bosons produced in association with jets and heavy flavour quarks in proton-proton collisions performed by the CMS collaboration at the LHC are presented. The measurements are compared to the predictions of event generators and theoretical calculations.

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