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## Vector boson production in association with jets and heavy flavor quarks from CMS

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The production of vector bosons ( $V = W, Z$  or  $\gamma$ ) 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 at the LHC are presented. The measurements are compared to next-to leading order calculations and event simulations that devise matrix element calculations interfaced with parton showers.

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