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Electroweak and QCD aspects in V+jets with CMS

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The study of the associated production of vector bosons and jets constitutes an excellent testbench to check numerous QCD predictions. Total and differential cross sections of vector bosons produced in association with jets has been studied at both 8 and 13 TeV center-of-mass energies. Differential distributions as function of a broad range of kinematical observables are measured and compared with theoretical predictions. Final states with a vector boson and jets can be also used to study electroweak initiated processes, such as the vector boson fusion production of a Z boson accompanied by a pair of energetic jets having large invariant mass.

Experimental Collaboration

CMS

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