

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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V+heavy flavor jets and constraints to PDFs in CMS

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The associated production of vector bosons V (W , Z or γ) and jets originating from heavy-flavour (c or b) quarks is a large background source in measurements of other standard model processes, Higgs boson studies, and many searches for physics beyond the SM. The study of events with a vector boson accompanied by heavy-flavour jets is crucial to refine the theoretical calculations in perturbative QCD, as well as to validate associated Monte Carlo predictions. Differential cross sections in $V+c/b$ jets are measured as a function of several kinematic observables with the CMS detector at 8 and 13 TeV. The study of the associated production of a vector boson with jets from a c -quark is especially interesting, as it allows to extract information on the proton parton density functions.

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