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Measurements of W/Z boson production in associations with jets at D0

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We present measurements of total and differential cross sections for the production of W or Z bosons in association with jets, including detailed study of the production of heavy flavor jets, using up to 6 fb⁻¹ of ppbar collisions collected with the D0 detector at the Fermilab Tevatron collider. We present measurements of the inclusive W+n jets total cross sections (with n=1-4) and also differential cross sections for the n-th jet transverse momentum and rapidity. We also present measurements of the W/Z+b-jets production, two important background processes in the searches for the Higgs boson. All measurements are compared to NLO QCD calculations and to Monte Carlo simulations.

Primary author: KUMAR, Ashish (Department of Physics-Physics Faculty-State University of New Y)

Presenter: KUMAR, Ashish (Department of Physics-Physics Faculty-State University of New Y)

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