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Measurement of Vector boson + Heavy flavor jet production rates by D0

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We present recent results on heavy flavor jet production in association with weak vector bosons using proton-antiproton collision data collected with the D0 detector at center of mass energy $\sqrt{s}=1.96$ TeV. We discuss in particular the measurements of $W+b/c$ -jet production cross-sections and the ratio of cross-sections, $\sigma(Z+2b\text{-jet})/\sigma(Z+2\text{jets})$. Study of these processes provide tests of perturbative QCD predictions and non-perturbative effects. These processes are also important backgrounds to many precision SM measurements as well as to searches for new physics.

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