Contribution ID: 35

Measurement of Z boson production in association with heavy flavor jets at D0

Monday, 10 June 2013 15:54 (25 minutes)

Associated production of a Z boson with a charm or bottom quark can serve as an important test of perturbative quantum chromodynamic calculations. The ratios of cross sections, \sigma(Z+c-jet)/\sigma(Z+b-jet) are measured for associated production of a Z boson with jets as a function of the jet and Z boson transverse momentum. Measurements use data collected by the D0 experiment in Run-II of the Tevatron ppbar collisions at a center-of-mass energy of 1.96 TeV, and correspond to an integrated luminosity of 9.7 fb^{-1}. Results are compared to predictions from next-to-leading order calculations and various Monte Carlo event generators.

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