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Measurement of b-quark production in association with W or Z bosons in ppbar collisions at $\sqrt{s}=1.96$ TeV

Measurements of the total and differential cross section for the production of b-quarks in association with either W or Z bosons in ppbar collisions at $\sqrt{s}=1.96$ TeV are presented using data collected with the D0 detector at the Fermilab Tevatron collider. The W and Z bosons are identified via their leptonic decays, while the fraction of b-jets is determined via an algorithm that employs the kinematic properties of the tracks associated to jets. Results are compared to NLO theoretical predictions and to MC event generators.

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