

INCLUSIVE HIGH- p_{\perp} $b\bar{b}$ CROSS SECTION MEASUREMENT

AT $\sqrt{s} = 1.96$ TeV

Abstract

by

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The Run II physics program at the Tevatron started in the spring of 2001 with protons and antiprotons colliding at an energy of $\sqrt{s} = 1.96$ TeV, and is continuing with about 1.2 fb^{-1} of data currently collected by the CDF and DØ experiments. A measurement of the b -jet cross section as function of jet transverse momentum p_{\perp} has been performed using 312 pb^{-1} of DØ data. The results for this measurement were obtained and are presented herein. A neural network algorithm was used to identify b jets.