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Measurements of the elastic cross section and of the single diffractive cross section in $pp\bar{p}$ scattering at $\sqrt{s}=1.96$ TeV

Friday 6 July 2012 11:30 (15 minutes)

We present two measurements of cross sections using the data recorded at the Fermilab Tevatron collider with the forward proton spectrometer(s) of the D0 detector. First we discuss a measurement of the differential distribution $d\sigma/dt$ for the elastic cross section in the range $0.26 < |t| < 1.2$ GeV 2 . Next we discuss a measurement of the differential cross section for the single diffractive process in a similar range of $|t|$.

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