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Measurement of the elastic

boldsymbolp$diffferentialcrosssectionintherange$
boldsymbol0.25<|t|<1.2$GeVat$
boldsymbol$\sqrt{s}$ =1.96 TeV

Friday, 12 August 2011 09:40 (20 minutes)

The elastic proton-antiproton scattering process is studied as a function of the four-momentum transfer squared $|t|$ at a center-of-mass energy of 1.96 TeV. Scattered protons and antiprotons are selected by using forward roman pot detectors that were installed around the D0 interaction point of the Tevatron. The data presented correspond to a dedicated period of low luminosity running of the D0 experiment. Comparison to data from other experiments at lower energies is presented.

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