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

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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 $0.26 < |t| < 1.2 \text{ GeV}^2$. Next we discuss a measurement of the differential cross section for the single diffractive process in a similar range of $|t|$.

Author: Prof. SIMAK, Vladislav (Czech Technical University Prague (CZ))

Presenter: Prof. SIMAK, Vladislav (Czech Technical University Prague (CZ))

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