

High Energy Physics - Experiment

Measurement of the Top Pair Production Cross Section in the Dilepton Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV

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A measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using events with two leptons, missing transverse energy, and jets is reported. The data were collected with the CDF II Detector. The result in a data sample corresponding to an integrated luminosity 2.8 fb^{-1} is: $\sigma_{t\bar{t}} = 6.27 \pm 0.73(\text{stat}) \pm 0.63(\text{syst}) \pm 0.39(\text{lum}) \text{ pb}$ for an assumed top mass of $175 \text{ GeV}/c^2$.

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