

Abstract Submitted
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Measurement of the top pair production cross section in the dilepton decay channel at CDF CHANG-SEONG MOON, Seoul National University, CDF COLLABORATION — We present a measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using 2.8 fb^{-1} of data collected by the CDF detector at the Fermilab Tevatron. We use $t\bar{t}$ dilepton events reconstructed with missing transverse energy and jets assuming top quark mass $m_t = 175 \text{ GeV}/c^2$. We measure $\sigma_{t\bar{t}} = 6.13 \pm 0.88_{stat} \pm 0.40_{syst} \pm 0.38_{lumi}$ pb.

Florenca Canelli
University of Chicago/Fermilab

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