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**High Energy Physics - Experiment** 

# Measurement of the ttbar Production **Cross Section in ppbar Collisions at sqrt** (s)=1.96 TeV using Soft Electron b-**Tagging**

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We present a measurement of the top quark pair production cross section in ppbar collisions at sqrt(s)=1.96 TeV using a data sample corresponding to 1.7/fb of integrated luminosity collected with the Collider Detector at Fermilab. We reconstruct that events in the lepton+jets channel. The dominant background is the production of W bosons in association with multiple jets. To suppress this background, we identify electrons from the semileptonic decay of heavy-flavor jets. We measure a production cross section of 7.8 +/- 2.4 (stat) +/- 1.6 (syst) +/- 0.5 (lumi) pb. This is the first measurement of the top pair production cross section with soft electron tags in Run II of the Tevatron.

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**High Energy Physics - Experiment (hep-ex)** Subjects:

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