

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

**Top Quark Mass Measurement in Lepton+Jets Channel Using a
Multivariate Technique¹** JOHN FREEMAN, LBNL, CDF COLLABORATION

— We present a preliminary measurement of the top quark mass using the Run II data collected with the CDF detector at Fermilab. The $t\bar{t}$ events produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ GeV are reconstructed in the lepton+jets channel. Using a matrix element method with transfer functions derived from Monte Carlo to connect jets to partons, we calculate a likelihood for each event to be a top candidate at several possible top masses. Taking into account the presence of background and using additional kinematics variables we derive a value for the top mass.

¹For the CDF Collaboration

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Date submitted: 13 Jan 2006

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