

Measure top quark mass from mean lepton P_T only!



CDF note 8959

Measurement of the top quark mass from the lepton transverse momentum in the
 $t\bar{t} \rightarrow$ dilepton channel at the Tevatron

A new measurement of the top quark mass at 1.8 fb^{-1} integrated luminosity, using leptons' P_T in the dilepton channel is presented. A top quark mass of $m_{\text{top}} = 156 \pm 20_{(\text{stat})} \pm 4.6_{(\text{syst})} \text{ GeV}/c^2$ is obtained with the Likelihood method and of $149 \pm 21_{(\text{stat})} \pm 5_{(\text{syst})} \text{ GeV}/c^2$ is obtained with the Straight Line method.