

Abstract Submitted  
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**Measurement of the top quark width at CDF** JIAN TANG, University of Chicago, CDF COLLABORATION — We present a measurement of the top quark width using 4.3/fb of data collected with the CDF detector at Fermilab. We use a two dimensional template method in the lepton+jet decay topology. The observables are the reconstructed top quark mass from the minimization of a  $\chi^2$  for the overconstrained system, and the invariant mass of the two jets from the  $W$  decays, which provides an in situ improvement in the determination of the jet energy scale. We build a Feldman-Cousin (FC) confidence belt using Monte Carlo pseudo experiments to extract the top quark width from data at the 95% confidence level.

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