

APR10-2009-000368

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Sorting Category: F8. (E)

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 χ^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.

Prefer Oral Session
 Prefer Poster Session

Maria Sorin
vsorin@fnal.gov
IFAE-Barcelona

Date submitted: 21 Oct 2009

Electronic form version 1.4