

Abstract Submitted
for the APR05 Meeting of
The American Physical Society

All-hadronic Top Mass measurement in CDF using matrix element method GHEORGHE LUNGU, University of Florida — We present here a preliminary measurement of the top quark mass in the all-hadronic channel, where both W's decay hadronically. The measurement is performed using 340 pb^{-1} of ppbar collisions at $\sqrt{s} = 1.96 \text{ TeV}$ with the Collider Detector at Fermilab. The method used employs the matrix element information to weigh each event configuration according to the probability for it to originate from $t\bar{t}$ production and decay at a given top mass. All the event probabilities are multiplied to yield a total likelihood which depends on the top mass. The true top mass is estimated by the value at which the total likelihood is minimized.

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Date submitted: 14 Jan 2005

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