

Abstract Submitted
for the SES05 Meeting of
The American Physical Society

Top mass measurement in the all-hadronic channel GHEORGHE LUNGU, Univ. of Florida/CDF, CDF COLLABORATION — We present here a preliminary measurement of the top quark mass in the all-jet final state, where both W 's decay hadronically. The measurement is performed using $p\bar{p}$ collision data at $\sqrt{s} = 1.96$ TeV at the Collider Detector at Fermilab. The method employed uses 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 estimated mass is the value at which the total likelihood is minimized.

Gheorghe Lungu
University of Florida

Date submitted: 08 Aug 2005

Electronic form version 1.4