

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Measurement of Top Quark Mass in the Lepton+Jets Channel using Ideogram Method with D0 RunII data VIVEK PARIHAR, Brown University — We provide an update to the precision measurement of top quark mass using the ideogram technique. We select events with one charged lepton (e or mu), missing transverse energy and jets in the final state. These events are then reconstructed using a kinematic fit. The event likelihood thus calculated entails information from a low-bias topological discriminant and the kinematically fitted mass templates. The likelihood also entails the probability that the event was a signal or background kind. The invariant mass of jets from hadronically decaying W boson in top like events is used to fit the jet energy scale in situ.

Cecilia E. Gerber
University of Illinois at Chicago

Date submitted: 20 Oct 2009

Electronic form version 1.4