

Abstract Submitted
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Measurement of the top quark mass at D0 using lepton+jets events CARLOS GARCIA, University of Rochester — We report on the measurement of the top quark mass using $t\bar{t}$ candidates in the lepton+jets final states. For each event a probability is calculated as a function of the top mass and the overall jet energy scale. The top mass and jet energy scale are extracted by maximizing a likelihood constructed as the product of the single event probabilities. The overall jet energy scale is constraint by the two hadronic jets forming a W^- boson. This reduces the large uncertainty due to the jet energy scale.

Gaston Gutierrez
Fermilab

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