## Abstract Submitted for the APR05 Meeting of The American Physical Society

Measurement of the Top Quark Mass in the Electron+Muon+Jets Decay Channel at DØ JEFF TEMPLE, University of Arizona, DZERO COLLABORATION — The top quark mass is one of the fundamental parameters of the Standard Model. We present a preliminary measurement of the top quark mass in the electron+muon+jets decay channel of  $t\bar{t}$  events, using data collected by the DØ experiment during Run II of the Fermilab Tevatron collider. The method used for the top quark mass determination, called the "neutrino weighting scheme", makes use of the sensitivity of the neutrino rapidity distribution to the top quark mass. Systematic errors associated with this measurement are also discussed.

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