

Abstract Submitted  
for the APR06 Meeting of  
The American Physical Society

**Measurement of the Top Quark Charge at DØ** ANN HEINSON<sup>1</sup>,  
University of California, Riverside, DZERO COLLABORATION — We report on  
a measurement of the charge of the top quark by resolving the kinematic ambiguity  
between the standard model scenario of a charge  $2/3$  quark decaying to  $W^+b$  and  
an exotic scenario of a charge  $-4/3$  quark decaying to  $W^-b$ . We distinguish between  
the two scenarios by measuring the charge of the  $b$  jet that is kinematically most  
consistent with arising from the same top quark as the charged lepton.

<sup>1</sup>Speaker's name will be submitted later

Ann Heinson  
University of California, Riverside

Date submitted: 13 Jan 2006

Electronic form version 1.4