

Abstract Submitted  
for the APR09 Meeting of  
The American Physical Society

**A precision measurement of the mass of the  $W$  boson at the DZero experiment** JYOTSNA OSTA, University of Notre Dame, D0 COLLABORATION  
— The D0 experiment's measurement of the mass of the  $W$  boson in the electron decay channel is currently in its final stages. This precision measurement is the result of an analysis of  $1.0 \text{ fb}^{-1}$  of the Tevatron data taken between 2002 and 2006. One of the potential sources of significant systematic error in this measurement lies in the modeling of the hadronic recoil. We present the salient features and results of this analysis with an emphasis on the recoil.

Elizaveta Shabalina  
II. Physikalisches Institut, Universität Göttingen

Date submitted: 05 Jan 2009

Electronic form version 1.4