

Abstract Submitted  
for the APR05 Meeting of  
The American Physical Society

**Search for Associated Production of  $Z$  and Higgs Bosons in  $e^+e^-b\bar{b}$  final states** JAMES HEINMILLER, University of Illinois, Chicago, DZERO COLLABORATION — Studies are presented of the search for a light Standard Model Higgs boson produced in association with a  $Z$  boson in the  $Z \rightarrow e^+e^-$  and  $h \rightarrow b\bar{b}$  decay channel using Run II data collected by the DØ detector at the Fermilab  $p\bar{p}$  collider at  $\sqrt{s} = 1.96$  TeV. A preliminary measurement of the cross section of the  $Z$ -boson associated production with jets is also presented.

Sharon Hagopian  
Florida State University

Date submitted: 14 Jan 2005

Electronic form version 1.4