

Abstract Submitted  
for the APR05 Meeting of  
The American Physical Society

**Electroweak Production of Top Quarks in the Electron+Jets Channel at DØ** SHABNAM JABEEN, University of Kansas , DZERO COLLABORATION — Electroweak production of the top quark (single top) has yet to be observed. The single top cross section is sensitive to new physics and to the CKM matrix parameter  $V_{tb}$ . The DØ has collected so far more than  $350 \text{ pb}^{-1}$  of data at  $\sqrt{s} = 1.96 \text{ TeV}$  in  $p\bar{p}$  collisions during Run II of the Fermilab Tevatron collider. Preliminary results of a search for single top quark production in the top decay channel  $t \rightarrow Wb \rightarrow e\nu + \text{jets}$  are presented.

Sharon Hagopian  
Florida State University

Date submitted: 14 Jan 2005

Electronic form version 1.4