

Abstract Submitted  
for the APR06 Meeting of  
The American Physical Society

**QCD results from NuTeV and some remarks on target mass corrections** VOICA RADESCU<sup>1</sup>, University of Pittsburgh, NUTEV COLLABORATION — NuTeV is a precision Neutrino-Nucleon DIS experiment that took place at Fermilab in the 1996-97 fixed target run. Its unique design allowed us to obtain high statistics samples of separate  $\nu$  and  $\bar{\nu}$  beams. The kinematic range in  $x$  goes from  $0.01 > x > 0.8$  with an average  $Q^2 \sim 20 \text{ GeV}^2$ . We report here a new determination of  $\alpha_S$  from scaling violations of the structure functions  $F_2$  and  $xF_3$  using NLO QCD models. The fit requires a correction for the target mass effect. This correction proved to create some confusion and we will also discuss this.

<sup>1</sup>for NuTeV collaboration

Voica Radescu  
University of Pittsburgh

Date submitted: 12 Jan 2006

Electronic form version 1.4