Abstract Submitted for the APR05 Meeting of The American Physical Society

Measurement of the forward-backward asymmetry of muons coming from the decay of W bosons with the DØ Detector SINJINI SEN-GUPTA, Florida State University, DZERO COLLABORATION — We present a measurement of the forward-backward asymmetry of muons coming from the decay of W bosons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV collected with the DØ Detector at Fermilab. We discuss the prospects for using the asymmetry to constrain the ratio of d and u quark momentum distributions in the proton.

> Sharon Hagopian Florida State University

Date submitted: 10 Jan 2005

Electronic form version 1.4