

Abstract Submitted  
for the DNP06 Meeting of  
The American Physical Society

**Measurement of the Neutral Pion  $A_{LL}$  with the PHENIX Muon**

AARON VEICHT, PHENIX - UIUC — The PHENIX experiment at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory commissioned a new forward calorimeter during the 2006 polarized proton run. The Muon Piston Calorimeter, MPC, is a  $PbWO_4$  based electromagnetic calorimeter that will cover  $3.1 < \eta < 3.65$  in pseudo rapidity and  $2\pi$  in azimuthal angle. The MPC will be able to reconstruct neutral pions with momenta up to  $p \sim 10GeV$ , allowing a measurement of the double helicity asymmetry  $A_{LL}$  in a kinematic region previously inaccessible in the PHENIX experiment. In this poster I will present the commissioning, operation, and calibration of the MPC, as well as the latest status from the analysis of the neutral pion  $A_{LL}$  from the  $\sqrt{s} = 62GeV$  run at RHIC.

Aaron Veicht  
PHENIX - UIUC

Date submitted: 27 Jul 2006

Electronic form version 1.4