

Abstract Submitted  
for the HAW05 Meeting of  
The American Physical Society

**Upgrades to the PHENIX Calibration Software** TRAVIS HUNTER,  
Abilene Christian University, PHENIX COLLABORATION — To ensure the greatest accuracy and precision of reconstructed data from the PHENIX detector at RHIC, periodic calibrations must be taken for each of its detector subsystems. Each of these subsystems contributes an integral part to our understanding of the very high density high temperature state of matter created in heavy ion collisions at RHIC. Any given calibration is only valid for a certain length of time, and then a new calibration must be taken. The storage of these calibration validity times is in a large database, which makes the task of verifying its integrity very tedious. We present a new graphical method of retrieving these data which makes the task of ensuring the appropriate calibrations are applied much easier and more reliable, thus improving the quality of the reconstructed data taken by PHENIX. We also present improvements to the low voltage control interface to the muon tracking subsystem that allow the logging of power cycles to its electronics in order to examine correlations between the calibration data from the muon tracker and power cycles of its electronics.

Travis Hunter  
Abilene Christian University

Date submitted: 30 Jun 2005

Electronic form version 1.4