

Abstract Submitted  
for the TSF07 Meeting of  
The American Physical Society

**Database for the PHENIX RPC Factory** TIMOTHY JONES, Abilene Christian University, PHENIX COLLABORATION — The Pioneering High Energy Nuclear Interaction Experiment (PHENIX) is located on the Relativistic Heavy Ion Collider (RHIC) ring at Brookhaven National Laboratory. One of the goals of RHIC is to discover the origin of the proton spin. Resistive Plate Chambers (RPCs) will be used at PHENIX as a level 1 trigger to select single high transverse momentum muon events from a large background of low transverse momentum muon events. During the assembly of the RPCs, we will be keeping track of information from quality control tests, performance tests and the position each RPC will occupy in the detector. This information will be used for calibrations after the RPCs are installed in PHENIX. Therefore, the information needs to be organized and stored in such a way that it can easily be accessed over the next several years. This will be done through the use of a database that will be accessed both by a program which inputs data automatically from a number of systems and by a web interface that will be used both to input information and access that information at a later date. The structure of the database will be presented as well as the methods that will be used to input the information.

Timothy Jones  
Abilene Christian University

Date submitted: 21 Sep 2007

Electronic form version 1.4