

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

The upgrade of BABAR Muon Detector JINLONG ZHANG, University of Colorado — The muon system is critical for the long-term BaBar physics program. The original muon detector using the Resistive Plate Chambers (RPCs) has been degrading rapidly. In 2002 the Limited Streamer Tube (LST) technology was chosen for the upgrade of the barrel part of the muon detector. The design, production, quality control (QC) and installation of the LSTs will be discussed. The gas system, high voltage system and the readout system of the LST detector will be described. The data taking experience with the partially installed LST system in 2005 will be presented in several aspects such as the detector performance and the impact on physics.

Jinlong Zhang
University of Colorado

Date submitted: 20 Nov 2005

Electronic form version 1.4