

Abstract Submitted
for the DNP07 Meeting of
The American Physical Society

Sorting Category: 7. (E)

Physics with the PHENIX muon trigger upgrade
BRETT FADEM, Muhlenberg College, PHENIX COLLABORATION
— The upgrade of the PHENIX first level muon trigger will consist of new muon tracker front end electronics and a new dedicated trigger spectrometer with three resistive plate chambers stations in each PHENIX muon arm. This will make it possible to efficiently trigger on those polarized proton-proton collisions that result in the formation of a W-boson. PHENIX will use this capability to obtain spin sorted measurements of the charge dependent yields of W bosons. These measurements will allow us to determine flavor-separated quark and anti-quark polarizations in the proton.

Prefer Oral Session
 Prefer Poster Session

Brett Fadem
fadem@muhlenberg.edu
Muhlenberg College

Date submitted: 02 Jul 2007

Electronic form version 1.4