乞掲示

理化学研究所原子核セミナー　*2005. 8. 1*

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題目 ： Silicon-Tungsten Calorimeter for the Forward Direction in the PHENIX Experiment at RHIC

∗ The seminar will be given in *English.*

日時 ： 2005 年 8 月 1 日 (Mon.)　15:30 –

場所 ： RIKEN Main Bldg. 2F Seminar Room

Abstract

The PHENIX detector at RHIC has been designed to study hadronic and leptonic signatures of the Quark Gluon Plasma in heavy ion collisions and spin structure functions in polarized proton collisions. The baseline detector measures muons in two muon spectrometers located forward and backward and measures hadrons, electrons and photons in two central spectrometer arms. Further progress requires extending rapidity coverage for hadronic and electromagnetic signatures by upgrading the functionality of the PHENIX muon spectrometers to include photon and jet measurements capabilities. Tungsten calorimeters with silicon pixel readout and fine transverse and longitudinal segmentation are now under development to attain this goal. The details of the calorimeter design and it's expected performance will be discussed.

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