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Position Resolution for PHENIX Muon Resistive Plate Counter

RUIZHE YANG, University of Illinois, Urbana-Champaign, PHENIX COLLABORATION — A new 1st level muon trigger is being developed for the PHENIX experiment at Brookhaven National Laboratory. The trigger will be based on two fast momentum sensitive spectrometers using Resistive Plate Counters (RPC) for charged particle detection. The spectrometers will utilize RPC technology developed for the CMS experiment at CERN. Position resolution measurements of RPC prototypes have been carried out with cosmic rays. In this talk, we will discuss the position resolution which can be achieved with the PHENIX muon trigger RPCs.

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