

Abstract Submitted
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Cosmic Ray Test Setup for STAR Time of Flight Development and Production Quality Assurance¹ KOHEI KAJIMOTO, University of Texas at Austin, STAR COLLABORATION — The new Time-of-Flight (TOF) subsystem for STAR at RHIC will have 3840 6-pad Multigap Resistive Plate Chambers (MRPC) distributed over 120 trays. Each tray contains 32 6-pad MRPCs and 3 types of custom made readout electronics boards. A cosmic ray test system is used to test the components of the system and to determine the timing resolution expected to be achieved for the full system. The test system is comprised of three plastic scintillators, 4 MRPC modules, and TOF prototype electronics. An overall resolution of 80-100 ps has been achieved. An overview of the STAR TOF subsystem and a discussion of the test setup/results will be presented.

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Robert Ray
University of Texas at Austin

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