

J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 45

		Date(submitted)	Jan.22, 2013
Group	T47	Beam line	K1.1BR
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Experimenters	Y. Aramaki, D. Kawama, T.N. Takahashi, S. Yokkaichi (RIKEN), Y. Komatsu, W. Nakai, Y. Obara, T. Shibukawa, (Univ. of Tokyo), K. Ozawa, M. Sekimoto (KEK)		
Summary and Results The test of GEM tracker has been performed with -1 GeV/c momentum at K1.1BR beam line. A newly developed preamp-board using APV25 front-end chips is also tested as a readout system. <ul style="list-style-type: none">● Performance test of GEM Tracker with APV25 front-end chips<ul style="list-style-type: none">➢ Incident angular / drift gap (3 mm and 6 mm) of GEM / drift field of GEM (0.6, 0.9, and 1.2 kV/cm) dependence of the position resolutions and its efficiencies● Result<ul style="list-style-type: none">➢ Better position resolution is achieved than the previous measurement with readout system as an online result. For the tracks with 30° incident angle, the position resolution of about 120 μm is improved to about 100 μm.			
SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc. (1) Schedules time: From Dec. 23 21:00 to Dec. 27 9:00 (12 hours x 4) (2) Executed machine time: As scheduled with short downtimes (3) Beam condition: -1.0 GeV/c @ MR 11kW (4) Down time: Not a long period of time			
Comments/Requests Nothing special.			