

J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN#47

		Date(submitted)	Mar.18, 2013
Group	T48(E36)	Beam line	K1.1BR
Reporter	Name Akihisa TOYODA	e-mail address atoyoda@post.kek.jp	
Experimenters	A. Toyoda, Y. Igarashi, J. Imazato (KEK), H.Yamazaki (Tohoku), H. Kawai (Chiba-U) S. Shimizu, T. Sawada (Osaka), R. Tanuma (Rikkyo-U)		
<p>Summary and Results</p> <p>1)Beam instruments tuning: a BDC(Beam defining counter), TOF counters, 2 Gas Cherenkov counters, 2 Finger counters, and an Aerogel Cherenkov counter</p> <p>2)Muon Beam tuning: We extracted 250 MeV/c muon beam with mu/e ratio of about 0.5 on +-150 kV ESS voltage condition.</p> <p>3) Aerogel Cherenkov Counter test The AC counter efficiency was measured using 0.25 GeV/c e+ and mu+ beam for 6 different incident position and angle combinations with following conditions.</p> <ul style="list-style-type: none"> <li>● Aerogel n=1.05, TL=40 mm, 40 mmt, a Diffused mirror, a Winston cone (WC) ver. 3</li> <li>● Aerogel n=1.05, TL=40 mm, 20 mmt, the Diffused mirror, the WC ver. 3</li> <li>● Aerogel n=1.05, TL=40 mm, 20 mmt, a Polygonal flat mirror ver. 1, the WC3</li> </ul>			
<p>SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc.</p> <p>1) Scheduled time: 24 Hrs (from Mar. 11 1:00 to Mar. 22 21:00)</p> <p>2) Executed machine time: 9 Hrs with several downtimes</p> <p>3) Beam condition:</p> <ul style="list-style-type: none"> <li>- 250 MeV/c positive beam</li> <li>- MR: 14.9 kW</li> </ul> <p>4) Down time:</p> <ul style="list-style-type: none"> <li>- Area entering to change AC mirrors</li> </ul>			
<p><u>Comments/Requests</u></p> <p>1) Sometimes we observed a sudden change of the e/mu ratio which could be attributed to either the instability of the secondary beam line magnet or the primary beam line vertical position on the T1 target.</p>			