

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

		Date (submitted)	2013/03/16
Group	E13	Beam line	K1.8
Reporter	Name Mifuyu Ukai	e-mail address m-ukai@lambda.phys.tohoku.ac.jp	
Experimenters	Y. Akazawa, T. Koike, K. Miwa, S. Nagao, R. Honda, K. Hosomi, Y. Sasaki, T. Shiozaki, K. tanabe, H. Tamura, M. Ukai, T. O. Yamamoto, Y. Yamamoto (Tohoku University) S. B. Yang (Soul Natinal University) K. Shirotori (RCNP) S. Hayakawa, M. Nakagawa (Osaka University) H. Sugimura, Y. Ichikawa, H. Ekawa, S. Kamatsuki (Kyoto University) T. Takahashi (KEK)		
Summary and Results <Kaon beam tuning> -1.8 GeV/c Kaon = 170 k/spill, all = 270 k/spill All CM magnets are tuned, Slits (IFV=+1.8/-0.2, IFH =+-130, Mom=+-180, MS1=+-1.2, MS2=+-1.2) -1.5 GeV/c Kaon = 6.5 k, other = 2.0 k CM magnets are not fine-tuned, tight Slits (IFV=+1.8/-0.2, IFH=+-30, MOM=+-60, MS1=+-1.2, MS2=+-1.2) <Trigger rate study> -1.8 GeV/c Kaon = 170 k, all =270 k, 20 g/cm ² teflon target (K-,pi-) trigger = 2.9 k, (K-,pi-) x MuonFilter = 1.7 k <Spectrometer system check> -1.8 GeV/c w/o target (K-,pi-) trigger to check missing mass for K->mu- nu and K->pi-pi0 decays			
SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc. Beam time Scheduled 48 hours Beam time Executed Total 22:05 3/9 0:04 - 3/9 9:44 3/10 21:42 - 3/11 6:27 (scheduled until 9:00) 3/12 13:00 - 3/12 17:00 Beam condition -1.8 GeV/c (ESS1=+-250 kV, ESS2=+- 200 kV/ +- 300 kV) Kaon beam tuning, Detector check, spectrometer check w/ w/o target Trigger rate study for (K-,pi-) -1.5 GeV/c (ESS1=+-250 kV, ESS2=+-200kV) Rough Kaon beam tuning			
Comments/Requests Beam time was terminated due to the severe failure of the septum magnet.			