

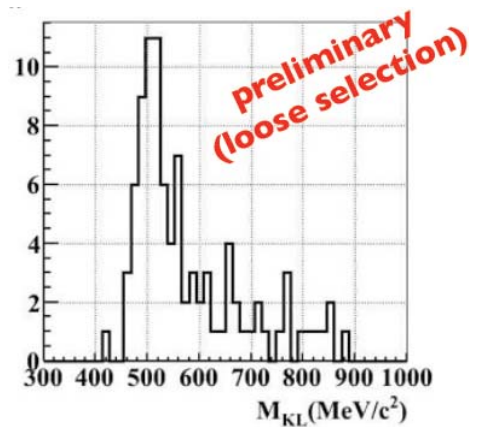
J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 27

Group	KOTO(E14)	Date (Submitted)	3 December 2009
Reporter	Name	e-mail address	
	Tadashi Nomura (KEK)	tadashi.nomura@kek.jp	
Experimenters	Komatsubara, Lim, Watanabe, Nomura (KEK), Sasao, Nanjo, Shiomi, Maeda, Takahashi, Kawasaki (Kyoto), Yamanaka, Sato, Lee (Osaka), Baek (Pusan), Shimogawa (Saga), Tajima, 4 undergrad students (Yamagata)		

Summary and Results

Beamline survey

- Beam profile measurement using fiber scinti.
- Beam profile scan using plastic scinti. and thin (2.5cmsq x 25cm) CsI crystal
 - Collimator alignment study
- KL yield measurement using hodoscope and CsI mini-calorimeter
 - Data taking
 - Observed KL mass peak ($K_L \rightarrow \pi^+ \pi^- \pi^0$) → Figure
- KL yield measurement using spectrometer
 - Detector adjustment
 - Data taking with 3 drift chambers
- Core beam measurement using hadron calorimeter
 - Counting rate, spectrum measurement inside the beam
- Test of in-beam photon detector
- Etc...



SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc.

Repetition: 6 sec., Flat top: 2.63 sec.
Target: Ni

Continuous operation for user

11/14 0:25 - 11/15 7:00

11/15 21:05 - 11/16 7:00

11/18 22:19 - 11/19 7:00

(0.7×10^{11} ppp, MR DCCT)

11/26 1:50 - 11/26 7:00

(1.2×10^{11} ppp, MR DCCT)

Several short down times (mostly due to RCS MPS or RFQ MPS)

Comments/Requests