

J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 36

		Date(submitted)	16 November 2010
Group	KOTO(E14)	Beam line	KL
Reporter	Name	e-mail address	
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Experimenters	Komatsubara, Lim, Nomura, Watanabe (KEK), Nanjo, Shiomi, Kawasaki, Masuda, Maeda, Takahashi (Kyoto), Yamanaka, Togawa, Ri, Sato, Lee, Murayama, Nakaya, Sugiyama (Osaka), Suzuki, Shimogawa, Odani, Ohta (Saga), Tajima, Sasaki (Yamagata), Sasao (Okayama), S.Li (Michigan)		
Summary and Results			
<ul style="list-style-type: none"> - Engineering run for CsI calorimeter <ul style="list-style-type: none"> - Trigger/DAQ tuning - KL → 3π⁰ reconstruction - Calibration using Ke₃, e⁺/e⁻ from photon conversion with KURAMA magnet and drift chambers - Install helium bag to reduce interaction between air and neutrons in the beam - Measurements of the core beam <ul style="list-style-type: none"> - Profile measurement by thick plastic scintillater slab - Study of prototypes of KOTO detectors <ul style="list-style-type: none"> - Study of in-beam photon detector developed for KOTO (BHPV) - Study of liner charged detector, located at the inner bore of the calorimeter. - Measurement of environment inside the KL experimental area <ul style="list-style-type: none"> - Thermal neutron measurement by LiI in the KL area (around the place where electronics for the CsI calorimeter will be located) - Study on back-splashed photons/electrons from the CsI calorimeter 			
SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc.			
11/7-10 Acc study in day time, continuous SX from ~21:00 to next ~9:30. <ul style="list-style-type: none"> - Beginnings of user time are varied in each day. (fastest 21:20, latest next 0:30) - 3.6kW in the night of 11/9, 3.0kW on other days 11/11 0:30-11/15 5:00 ~3kW continuous user time (11/15 17:00-11/15 22:40 SX high power trial up to 10kW) 11/15 23:00-11/16 9:00 3kW (scheduled till 8:00, extended to compensate down time)			
[Down] ***11/7 23:45-11/8 9:21 beam was on, but was unexpectedly bunched. 11/9 4:28-5:12 due to SX Bump 4 MPS 11/11 14:51-16:02 due to adjustment of charge exchange foil position at RCS 11/12 22:19-11/13 5:06 due to SX-EQ MPS: magnet water flow and trouble in pulse bend (SX-EQ flow was fixed at 2:52, and then trouble in MR pulse bend happened) 11/13 15:12-15:45 due to QFX MPS 11/14 0:15-1:02 due to FX abort kicker MPS 11/16 2:51-7:57 QFX MPS, Main PS A-Stop1,2(Over DC Voltage) and QFP MPS, Main PS B-Stop (water flow, tunnel access needed)			
SX-EQ MPS were frequently alerted, though usually they were recovered quickly.			
<u>Comments/Requests</u>			