

J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 43

		Date(submitted)	2 July 2012
Group	KOTO	Beam line	KL
Reporter	Name	e-mail address	
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Experimenters	Komatsubara, Lim, Nomura, Watanabe (KEK), Shiomi, Togawa, Sato, Lee, Sugiyama, Murayama, Takashima, Toyoda (Osaka), Nanjo, Naito, Maeda (Kyoto), Yokota (NDA), Tajima, Hobara (Yamagata), M. Tecchio, J. Xu, C. Carruth, J. Miller, C. Erba (Michigan), D. McFarland (Arizona State), Y. Hsiung, Y. Duh (NTU)		
Summary and Results			
<ul style="list-style-type: none">- Commissioning of KOTO charged particle veto detector (CV)<ul style="list-style-type: none">- Installed in front of the calorimeter- Check light yield, timing response, gain stability of MPPC- Studies on inefficiency to the level of $O(10^{-4})$ - Commissioning of KOTO DAQ system<ul style="list-style-type: none">- Read out flash ADC data via optical-link - Studies on calibration methods of the CsI calorimeter<ul style="list-style-type: none">- Calibration using Ke3 with the KURAMA magnet and drift chambers- Pi0 production with an Al target in the beam core - Studies on KOTO trigger system<ul style="list-style-type: none">- Calorimeter total energy ($E_t \geq 0.5, 1.0\text{GeV}, \dots$)<ul style="list-style-type: none">- With and without online pedestal tracking- Veto scheme with KOTO CV			
SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc.			
[Executed time]			
---3.5kW			
6/09 23:55 - 6/10 09:41, 6/10 23:55 - 6/11 10:02, 6/12 03:03 - 6/12 09:38			
6/12 21:30 - 6/13 09:00, 6/13 22:00 - 6/14 10:40,			
6/14 21:05 - 6/20 09:00 (6/18 5pm- spill length tuning for ~2hrs)			
6/20 21:07 - 6/21 11:28 (stopped due to MR RF trouble)			
---6.1kW (gradually decrease to 5.9kW)			
6/21 18:12 - 6/26 9:31			
6/26 23:46 - 6/27 9:00, 6/27 21:53 - 6/28 9:29			
6/29 00:05 - 7/02 5:00			
[Down] (>30 minutes)			
6/10 07:10 LI: HVDC01/02 Fault (37min)			
6/21 11:28 MR: leakage of RF#8 cooling water (3.5hrs)			
6/22 10:02 works for MLF target (40min)			
6/27 07:24 MR: BM2 MPS (35min)			
6/29 15:59 LI: RCS: Particle counter MPS (30min)			
6/30 16:39 MR: BM2 Main PS MPS (40min)			
7/01 00:01 HD PPS when switching K1.8->K1.8BR (3hrs 40min)			
7/01 10:09 LI: DTL03 RF MPS (30 min)			
7/02 01:00 LI: MEBT1_VAC&TEMP01 MPS (1hr 45min)			
Comments/Requests			