

J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN#46

		Date(submitted)	2013/01/24
Group	E10	Beam line	K1.8
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Summary and Results 0. Electron study 1. +1.2GeV/c, +1.0GeV/c, +0.9GeV/c, +0.8GeV/c Beam Through w/ and w/o target(1.5 hour) 2. +1.2GeV/c $^{12}\text{C}(\pi^+, K^+)\Lambda^0$ Production(7 hours) 3. +1.37GeV/c $p(\pi^+, K^+)\Sigma^+$ Production(1 hour) 4. -1.2GeV/c $^6\text{Li}(\pi^-, K^+)\Lambda^0$ Production(6 days) Results Electron contamination was about 10% of beam. Integrated pion beam reached to 1.65T pions. We could exceed 1.5Tpions which requested to the PAC. Detector Condition All detectors were very stable condition.			
SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc. Beam Use Total Allocate Time(157 hours), w/Beam(151 hours), Down Time[Acc Trouble](6 hours) Down Time[User Trouble](1 hour) -> Data Taking Time(150 hours) Beam Condition +1.2GeV/c, +1.0GeV/c, +0.9GeV/c, +0.8GeV/c BeamThrough - 100K pions/spill +1.2GeV/c ^{12}C Production - 3.5M pions/spill +1.37GeV/c Σ^+ Production - 3.5M pions/spill -1.2GeV/c ^6Li Production - 10M pions/spill (1/7-1/10), 12M pions/spill(1/11-1/16)			
Comments/Requests Thanks to good duty factor, we could increase pion beam intensity. Accelerator condition was very stable.			