

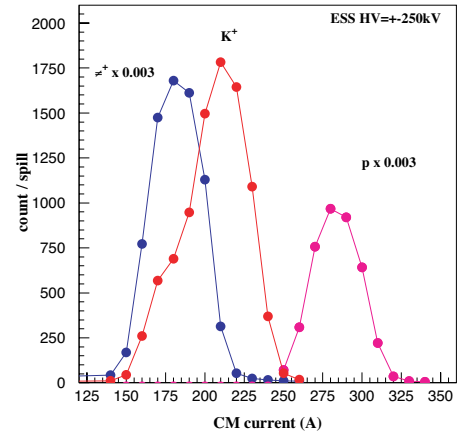
J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 35

Group	E06 (TREK) @ K1.1BR	Date (Submitted)	Nov.1, 2010
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Summary and Results

We performed beam tuning of the commissioned K1.1BR beamline.

- (1) Start up and tuning of the beam instruments; 1) Fitch Cherenkov, 2) hodoscope, 3) BDC counter, 4) TOF counters, 5) gas Cherenkov, and 6) MWPC.
- (2) Beam tuning for an unseparated beam: 3 bending magnets and 4 quadrupole doublets were tuned for 800 MeV/c so as to obtain the maximum beam rate on the beam defining counter (BDC) at the focusing point.
- (3) Beam tuning for a separated beam: ESS was excited to +/-150 kV in the beginning and +/- 250 kV later. Slit openings and magnet settings were optimized for 800 MeV/c by observing the ESS correction magnet excitation curve. The result is shown in Fig.1 .
- (4) Positron beam and proton beam were also established.
- (5) The beam momentum was varied between 740 and 800 MeV/c in order to study the Fitch Cherenkov performance in this momentum region and to investigate momentum dependence of the kaon intensity and K/pi ratio.
- (6) Regarding the beam intensity, it will be studied further.



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

- (1) Scheduled machine time: 35 Koma x 4Hrs = 140 Hrs (including 1kW, 3 kW and 100W beams)
- (2) Down time
 - 1) 3-50 BT trouble (Oct.20) : 12 Hrs
 - 2) D1-D1 coupling study by K1.8 (Oct.16) : 12 Hrs
 - 3) Radiation level measurements and inspections: several Hrs

Comments/Requests

この様式ですが、どのビームラインかの欄を設けたらどうでしょうか。