

To Office of Experimental

Date _____

Planning and Coordination

MACHINE TIME EXECUTION

REPORT (2003-6-1 CYCLE)

Experimental Group	E391a	Reporter	T. Inagaki
Scheduled Period and Shift	Feb.18-Mar. 8 21(full)+30(share)	Main, Sub, Para	Main
Experimenters More than 30 people			
<p>SUMMARY OF EXECUTION AND RESULTS</p> <p>Beam run successfully started from the noon of Feb.18, 2004.</p> <p>In this period we planned three items, cross-check of detector gain using punch through muons, beam tuning, and a trigger study. We achieved the cross-check of detector gain almost perfectly, but not enough for the last two. These two must have done at full beam, but the time of full beam until Feb.23 was not enough, partly because it was shrunken by accidents described below.</p> <p>Between Feb.18-19 several beam breaks due to temperature alarms in MR magnets. Every time it took more than 2 hours to lower the temperature. Afterward, it was found that the troubles were caused with a cooling water problem. P11 cooling power is not enough for the heat load by both accelerator and experimental floor. An alternative way was adapted to connect the beam line magnets to another cooling line P12A</p> <p>From Feb. 23 to Mar. 5. we shared the beam by 50-50 with the K2 user.</p> <p>On Feb.27, it was found a water leak from the D1 magnet of the K0 line. After then up to March 5, K0 was operated with only D2 operation. From March 5 PS operation was stopped to repair the D1 magnet.</p>			
<p>EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME etc</p> <p>. Loss due to the P11 trouble was 4 shifts. Loss due to the D1 trouble was 8 shifts. Then, we got 9 shifts out of 21 shifts for full beam (2.2 Tera protons/spill). For shared beam (1 Tera protons/spill), 11 shifts (D1+D2 excitation) and 19 shifts (D2 only) were executed.</p>			
COMMENTS			