To Office of Experimental Date 8 April 2005

Planning and Coordination

MACHINE TIME EXECUTION

REPORT (2004-5-3CYCLE)

Experimental Group	E391a	Reporter	T. Inagaki
Scheduled Period and Shift	7 Mar.-22 Mar. +bonus 22 Mar.-27 Mar. (40+17=57shifts)	Main, Sub, Para	Main
Experimenters: About 20 people joined to take shift.			

SUMMARY OF EXECUTION AND RESULTS

We continuously ran almost in a same condition.

In this period we performed several special runs for a short time of 2 days (6 shifts).

One of special runs is a minimum-bias run, in which the main barrel calorimeter and/or the charged veto counter are not included in the trigger (ordinarily they are used as veto). The minimum bias run might be valuable to check the performance of these counters. Although a similar minimum-bias trigger is always included in the normal run with a considerable factor of pre-scale, the special run is useful for more systematic analysis using high statistics data.

The others are special runs at various intensities. Low intensity can be easily realized by the single-pulse injection from Booster to Main Ring. The intensity is 1/9 of the normal. For higher intensity we shortened the beam duration from the normal of 2 seconds. We collected data for the beam durations of to 1 and 0.5 seconds, which increase the instantaneous intensity by factors of two and four. Most of detector response does not changed with the intensity.

EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME etc.

A total down time of accelerator was about 5 shifts. Major parts are 15 hours of Mar. 19 due to a trouble in Linac RF and 5 hours due to very unstable operation of Mar 27.
Then, the executed machine time was 52 (=57-5) shifts including the special runs.

COMMENTS

The bonus of 17 shifts is very valuable for E391a, we would like to express our thanks for the kind arrangement.