

To Office of Experimental
Planning and Coordination

Date April 23, 2003

MACHINE TIME EXECUTION
REPORT(2002-4-2 CYCLE)

Experimental Group	E391a	Reporter	LIM GeiYoub
Scheduled Period And Shift	11/20-12/17 (75 shifts)	Main, Sub, Para	
Experimenters : E391a collaborators			
SUMMARY OF EXECUTION AND RESULTS We collected data for pi0 events and KL decays, which are started at the previous cycle (2002-4-1). In total, we accumulated more than 3 millions of pi0-reconstructed events for two different target positions. Also, the total number of accumulated Kpi3 decays (KL → pi0 pi0 pi0) is more than 1 million. These data will enable us to calibrate the electromagnetic calorimeter with high accuracy. Also, the KL decay is important data for development of on-line monitoring system and offline analysis code. At the end of this cycle, we used full intensity beam with short spill length (200 ms) in order to check any effect related to the beam intensity. As a result, we confirm that there are no beam-induced effects.			
EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME ETC. We used three different beam conditions 7 X 10 ¹¹ ppp with 2 second spill length (67 shifts) 1.4 X 10 ¹² ppp with 2 second spill length (6 shifts) 1 X 10 ¹² ppp with 0.2 second spill length (2 shifts)			
COMMENTS It is desirable to increase the beam intensity for extracting to the EP2-C line. For this run, we understand that there was no time for the beam line tuning. We hope to get full intensity such as 2X10 ¹² ppp for coming beam time with EP2-C line extraction.			