To Office of Experimental Planning and Coordination

Date 1st July, 2004

MACHINE TIME EXECUTION

REPORT (2004-2 CYCLE)

Experimental Group	T564	Reporter	Toru Sugitate
Scheduled Period and Shift	2004/06/17 – 2004/06/23, excepting 4 shifts on 06/21-22	Main, Sub, Para	Parasite test exp.

Experimenters:
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SUMMARY OF EXECUTION AND RESULTS

Summary of execution:

1. A 3 by 3 array of the ALICE spec. PWO crystals, each read out by a Hamamatsu S8664 APD directly mounted on a charge sensitive preamplifier (Hiroshima ver.2), was assembled.
2. The array was placed under the temperature controlled circumstance at zero degree to enhance the light yield from crystals and to reduce noises from APD's.
3. The array was irradiated in the T1-line with negative charged particles at the momentum range from 0.5 to 2.0 GeV/c, with an electron enrichment trigger by a beam-line gas-Cerenkov detector.

Results:

1. A few 10M events of charged particles were recorded on a disk, expecting a million of electron events involved.
2. Around 5-10% of energy resolution was evaluated from on-line monitoring work with a quick calibration process, depending on a bias voltage value applied to the APD.
3. The detailed study is underway.

EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME etc.

No problems.

COMMENTS