Report from the weekly coordinator: A. Magnon

Periode: 21.05.04 - 28.05.04, week 22.
Beam started on Tuesday 25.05.04 at $\approx 19:00$

Summary

Beam was lost week 21 due to a water leak on the PS extraction septum. After a 4 days bake out, spare septum could be installed and was operational May 24. Unfortunately, a vacuum leak on some (almost new) bellow on the transfer line to North Area had developped. A new bellow was fabricated and installed during the MD which had been moved to Tuesday. Beam came Tuesday afternoon $\approx 16:30$. It took about 2 hours to properly steer the beam and full intensity was available at $\approx 19:00$. **Data taking started at** $\approx 21:00$.

Polarized target

When beam came, target was fully polarized and microwave was stopped (frozen spin mode). Polarization was $P^+ - P^- = 103.6\%$

Spectrometer, DAQ status

There were only minor problems with the spectrometer, among which trip of two RICH PDs. Soon after the start-up of data taking we went on regular cycle for field reversal. About 48 runs of ≈ 200 spills were taken with 7 field rotations performed. The average time used for Field Rotation (FR) i.e. end of previous run to beginning of next run has been ≈ 1 hour. Some data were taken during FR.

- **Silicon**

  Abnormal structure on SI05Y1 profile. Could only be fixed during the following period after Si expert came.

- **Micromegas**

  MM01U tripped May 26 $\approx 12:00$. Mesh voltage lowered at 370V. Nominal voltage could then be applied May 27. MM02Y and MM03V had one trip immediately recovered.

- **GEM_11**

  One plane of GEM_11 showed abnormal hit distribution. Pb with low voltage identified and fixed May 27 at $\approx 19:00$. Due to some hardware problem, previous latency curve could not be used and were redone (at small intensity with 40 mm target) about two hours later. GEM_11 became then fully operationnal.

- **STRAWS**

  A few trips with ST_04Y1, ST_05Y1, ST_06V1. Frequency of trips dropped during period.

- **W45**

  W45 chamber DW02Y1 tripped and had to be turned off.

- **HCAL_1**

  Hot spots seen in 2_dim plot. Pb was fixed during period.

- **RICH_PDs**

  Amplitude lost on chambers 4 and 7 (PD_4) outer Saleve side. DCS showed trip of PD_3 due to wrong HV connection. Segmented HV then put on PD_4 which allowed to recover 8 channel out of 9.

  PD_0 (new chamber tripped). No segmented HV available due to lack of CAEN A821P special HV modules (reshuffling some HV output, segmented HV could be installed later for PD_0).

- **DAQ, on-line filter**

  Large number of error messages from on-line filter created jam in ROB. This was fixed rapidly by on-line filter experts.

First run taken during period: 25 May 2004, 21:09 $\Rightarrow$ **run 35247**

Last run taken during period: 28 May 2004, 15:39 $\Rightarrow$ **run 35384**