

Period report (June 25 – July 2)



- General overview
- Spectrometer problems
- Statistics



General overview



Run taken: +41, -43

Run schedule :

Up to Sat 8:00 : Scrubbing run

■ Sat 8:00 – 16:00 : PS injector problem (8h lost)

■ Sat 17:00 – 22:00 : Machine restart (5 hrs for full beam)

■ Sat 22:00 – Sun 5:00 : Spectrometer restart

■ Since Sun 5:00 : Stable beam, only 2h lost Monday

■ MD : Thu 10:00 - Fri 10:00

■ Restart : Fri 12:00

Beam

• Very stable, $I(p) > 120x10^{11} up to 138! Mu-flux > 2x10^8$

■ Total time lost: 20h

SPS : 10h (8h Sat + 2h Mon + 2h various+1h Fri)

■ Machine restart : ~7h Sat + 1h Friday

New beam setting since Friday (2004-prime, file M2-xx)

Target

Microwave reversal on Mon, Jun 21.

Constant high polarization: +53, -51



Spectrometer – main issues



Straws

- Many trips, mainly in late afternoon (everyday)
 - HV decreased on few planes

RICH

- Many trips: PD0, PD2, PD4, PD6 (since Sunday)
 - Few channels unavailable for 1 to 2 days
 - Hope that the 2004' setting will help
 - Since today: all channels up,

DAQ

- Sometimes run stops, or does not start
 - Not clear why
- Few pccorbXX reboots due to spill mismatches, etc...



Spectrometer – hard/soft incidents



- Logbook
 - Logbook unreachable Pccoeb03 server disk crashed (Sat Night)
- BMS
 - BMS-5 missing NIM PS exchanged (Sat Even)
- Veto/Trigger
 - IV rate increased Crate 422R03 PS found off (Sun Night)
 - Pure HCAL trigger 50% less Due to larger HCAL threshold (Sunday)
 - Larger OT found Matrix reloaded (Fri Day)
- Silicon
 - Plane 1U/1V off for several shifts repeater card exchanged (Sat...)
- MW1
 - 4 planes found half empty LV module restated (Sun Even)
- CATCH
 - 2 modules (MM and MW2 died) (Sun + Mon)
- ECAL2
 - HV tripped restarted (Thu Day)
 - Since long stop position changed, re-measured (Fri): OK
 - HV off for 32 channels need few hours to repair



Work during MD (Thursday)



- MM
 - Noisy SFE16 card on MM-1X exchanged
 - Noise on MM-2V improved
- Straws
 - Thresholds re-optimized
- Trigger/Veto
 - HV on few channels increased
 - Veto-Inner moved by 2 mm,
- RICH
 - Cabling on BORA card improved
- GEM
 - GEM10 missing channels detector to be replaced?
 - Move it out with a MWPC chamber to do Monday



Various



- New features
 - DAQ : Cinderella filter on: since Sun Night
 - (saves 20% of tapes spending)
 - But few problems found, some time lost
 - ECAL2 : SADC under test (pccorb17 excluded)
 - RICH : Additional CAEN HV crate (1527), new gas PC
 - DCS : Gas mixtures now monitored
- Alignment
 - 2 times : Monday, Friday afternoon
- ECAL
 - Position runs taken (Friday)



Statistics



	hr	s %
Number of hours in a week	168	,0
SPS scrubbing run (hours)	16	,0
SPS long MD	24	,0
Total SPS time scheduled	12	28
PS magnets problem (hrs)	8	,0
SPS Monday morning effect	2	,0
Short stops	2	,0
SPS restart Saturday June 26	5	,0
SPS delay + restart Friday July 2	2	,0
Total time lost	19	,0
Useful SPS beam (hrs)	109	,0 85.2%
Spectrometer restart (not nominal beam)	8	,0
Target reversals	7	.0
Alignment runs	2	,0
Calibration runs, beam settings	6	,0
Various losses	4	,0
Total number of physics runs	84,7 81	,9 75,1%
CD 1-1 2 2004		