

Period Coordinator Report

5 – 12 November 2004 (week 46)

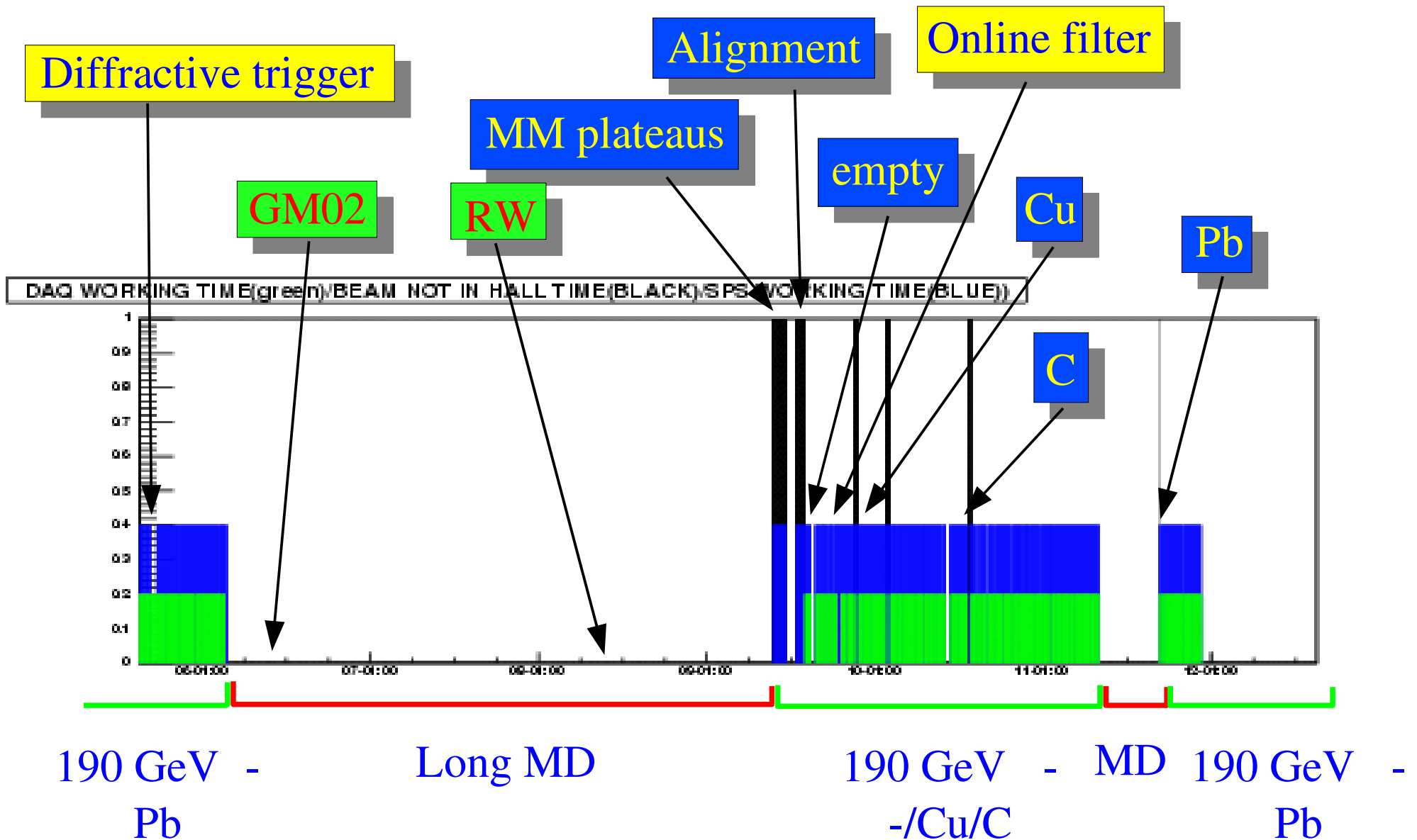
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- 5.11.-6.11.: Physics pi- (2 shifts)
- 6.11.-8.11.: Long MD (9 shifts)
- 8.11.-11.11.: Physics pi- (6 shifts)
- 11.11. : Short MD (1 shift)
- 11.11.-12.11.: Physics - (3 shifts)

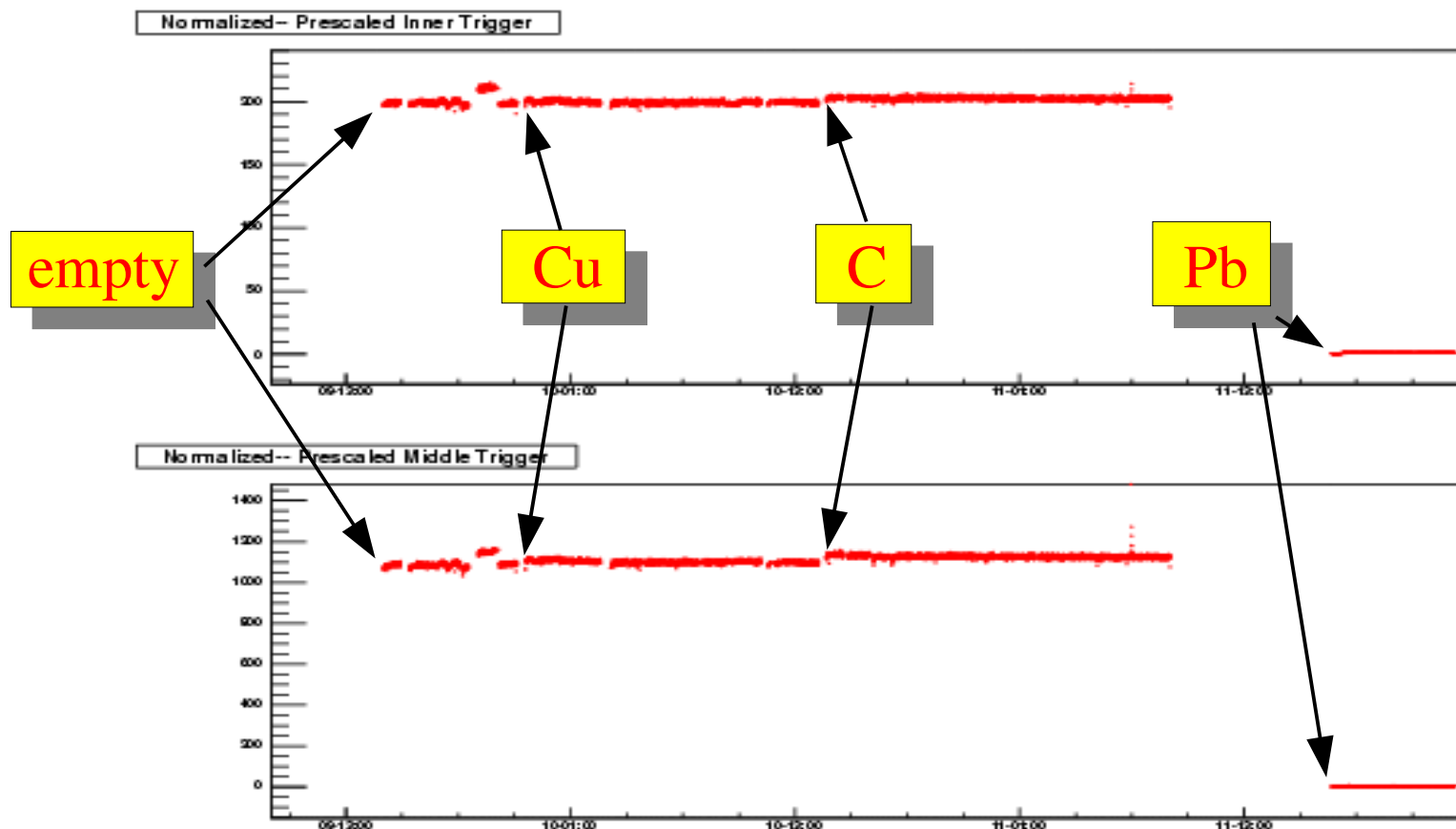


Overview



Primakoff Trigger

- (1) $BT * HP * ECAL2(>40\text{GeV}) * HCAL2(>18\text{GeV}) * !(VI+SW+BK3+BOS)$
- (2) $BT * ECAL2(>90\text{GeV}) * !(VI+SW+BK3+BOS)$



9 Nov, 8:00

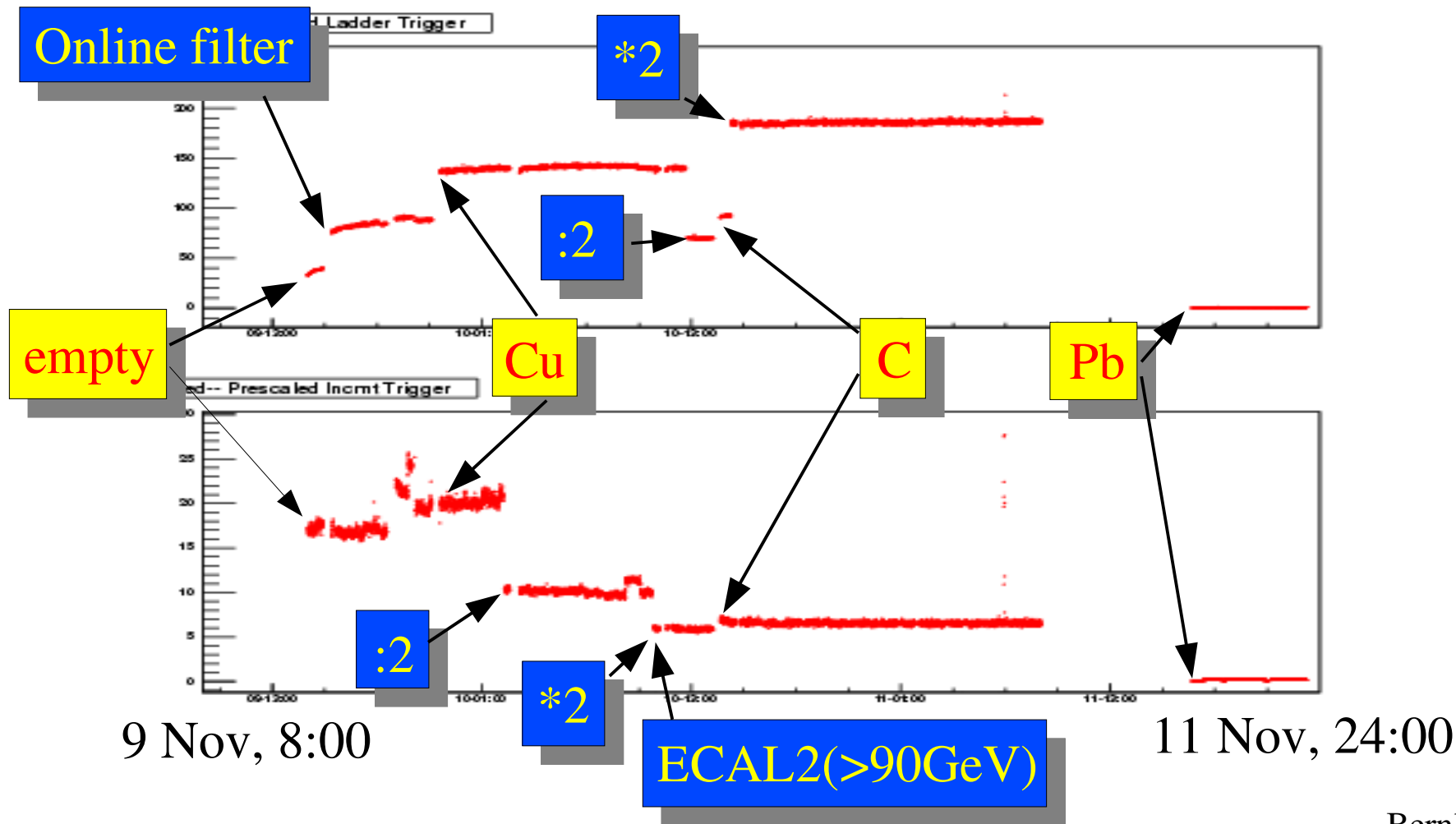
11 Nov, 24:00



Diffractive & Charge Exchange

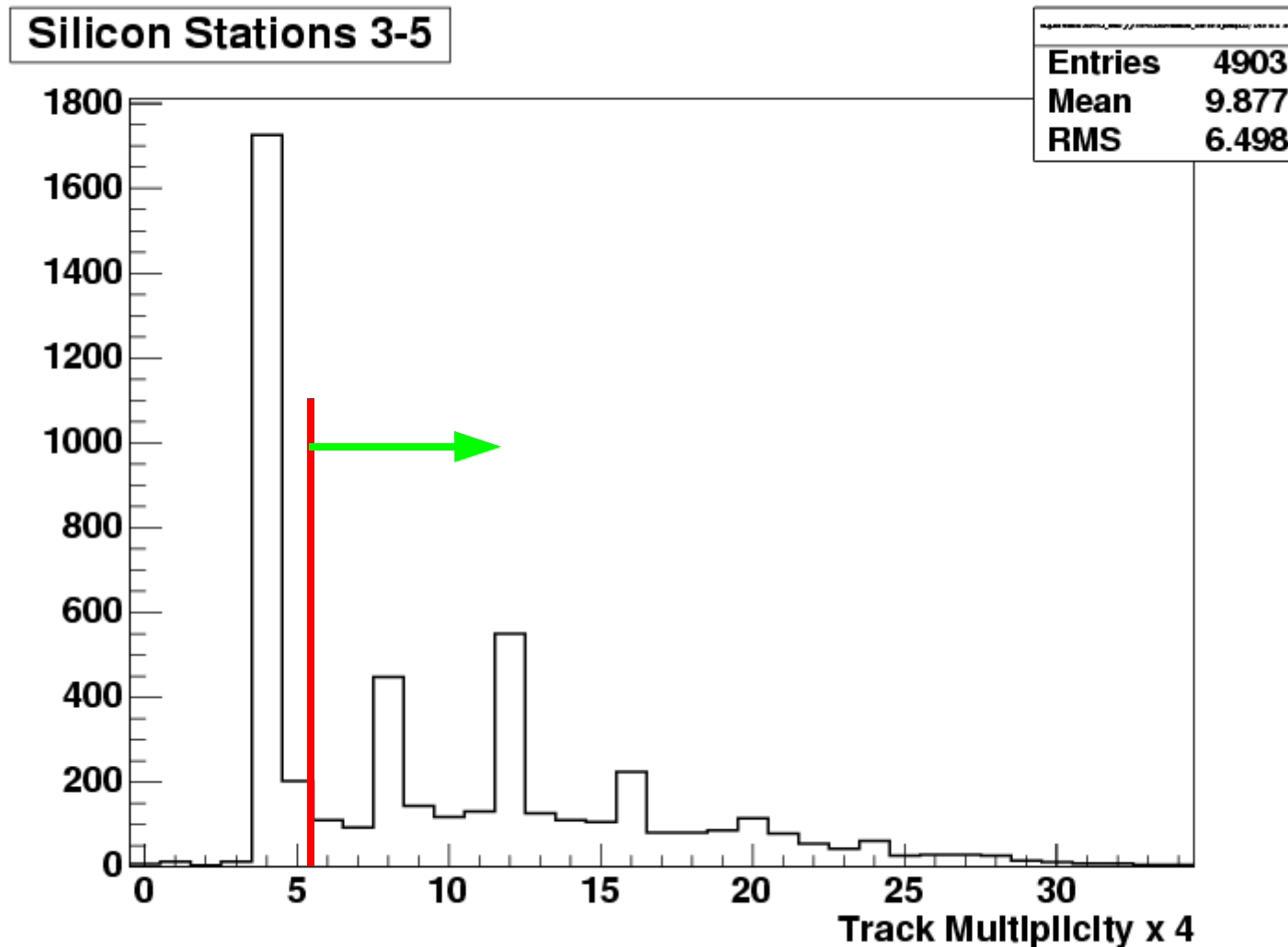
Diff: $BT * HCAL2(>6\text{GeV}) * \text{Mult}(>330\text{mV}) * !(VI+SW+BK3+BOS)$

ChargeX: $BT * ECAL2(>\text{thr}) * !\text{Mult} * !(VI+SW+BK3+BOS)$



Online Filter for Diffractive Trigger

Cut on multiplicity in SI03-SI05: $n_{clus} \geq 2$



Problems

- GM02UV inefficient sector since 28.10., 15:49: repaired on 6.11.
- ECAL2 trips: 7.11., 13:00
 - ◆ Due to high artificial trigger rate
 - ◆ Due to booster power supply problem: 500V instead of 180V!
→ Bases, security box damaged, repaired 9./11.11.
- Silicon:
 - ◆ Occasional spikes in SI02X1, SI02U1: repaired 6./9.11.
 - ◆ No data from SI03U1, SI03V1 → check online histos!
- W45/MM: trigger rate dependent readout errors
→ Excluded DW03-05 for -
- CEDAR: pressure reading not understood, no useful data



Problems II

- DAQ:
 - ◆ 8.11.: **pccoeb01** (NFS server) stuck, reboot EVBs
→ stale NFS file handles, RAID rebuild
 - ◆ Occasional problems to restart run
- DCS: frequent **communication** losses → reboot!
 - ◆ Trigger HV crate (5x)
 - ◆ SY 527 (2x)
- Magnets:
 - ◆ Quad 13 trips
 - ◆ **SM2 setting** faulty



Statistics since run 42653

Date	Time	Pb 3mm	Pb 1.6mm	Pb 3mm	Cu 3.55mm	C 23.5mm	CH2	Empty	Beam
02.11.04	8:00-16:00	400							pi-
	16:00-24:00	110	521						
03.11.04	00:00-08:00		178						
	08:00-16:00								
	16:00-24:00								
04.11.04	00:00-08:00	740							
	08:00-16:00	1512							
	16:00-24:00	600							
05.11.04	00:00-08:00	1461							
	08:00-16:00	1192							
	16:00-24:00	1269							
06.11.04	00:00-08:00	509							
	08:00-16:00								
	16:00-24:00								
09.11.04	00:00-08:00								
	08:00-16:00							419	
	16:00-24:00				201			786	
10.11.04	00:00-08:00				1428				
	08:00-16:00				758	523			
	16:00-24:00					1672			
11.11.04	00:00-08:00					1350			
	08:00-16:00								
	16:00-24:00			1200					mu-
12.11.04	00:00-08:00			1600					
	08:00-16:00			574					
	16:00-24:00								pi-
Total		7793	699	3374	2387	3545	0	1205	



What is still missing?

- 12.11., 15:00: - empty target (200 spills)
- 12.11., 16:00: - Pb target (7 shifts, ~10000 spills)
 - ◆ e- conversion target 5mm (200 spills)
- 15.11., 00:00: high intensity test, $1E8$ +

End of Run Party, 18.11.

