

Weekly Coordinator Report July 23th 2004

Week 30: 16th-23th 2004
(12 - 12 o'clock)



- ⓐ **VERY** stable data taking possible!*
- ⓐ The spectrometer is in **STABLE** conditions & in **EXCELLENT** shape
- ⓐ Shift crews are well trained and very knowledgeable
- + good balance between trainees and experts

* unfortunately I had only beam only until Monday 7:05 (65/168 hrs)

Data Taking Statistics

run # in this period: 37623 - 37721 (Monday 7am)

	physics+	physics-
# good spills	5041	6973
ion chamber	553*10⁸	733*10⁸

Running Efficiency

Period From: Fri, 16 Jul 2004 12:00 To: Fri, 23 Jul 2004 12:00

Calculated At: Thu, 22 Jul 2004 18:04

Length of time excluding scheduled MD: 168.00 hours

**** Efficiency of PS/SPS

a: Total SPS Circle (exclude scheduled MD): 27974.0

SPS: 47.7%

b: SPS spill with T6 current >30.0: 13351

c: Sum of T6 current 816789.2

d: (=b/a) PS/SPS Efficiency: 47.7%

Spectrometer: 96.1%

**** Muon Beam In HALL 888

f: SPS spill In Hall with Muon Count >100000.0: 13098

M2: 98.1%

g: Sum of In Hall Muon Count: 1278516061380.0

h: (=f/b) SPS Spill Get in 888: 98.1%

**** Use of SPS/Inhall Spill in COMPASS

i: Spill used with ion chamber counting >100.0: 12589

j: (=i/f) Inhall spill used: 96.1%

k: (=i/b) SPS spill used: 94.3%

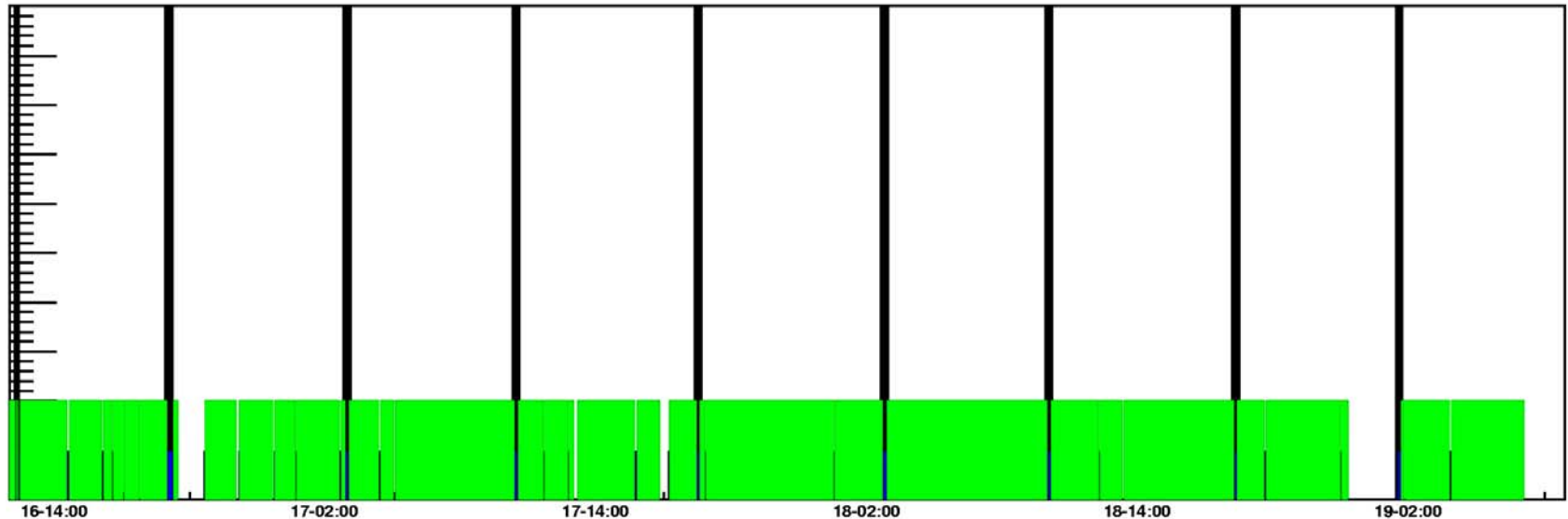
Distribution of used spills:

field_rotation runs used 697 spills, 5.5%

physics- runs used 6908 spills, 54.9%

physics+ runs used 4984 spills, 39.6%

DAQ WORKING TIME(green)/BEAM NOT IN HALL TIME(BLACK)/SPS WORKING TIME(BLUE)



Problems during week

- Only 50% beam intensity up to last Monday 7:05am
- No beam since Monday 7:05am
- Minor problems with QUADs (12, 18, 33 and 34)
 - take alarms serious (no fakes)
 - (ask operator to put magnet "under survey")

Observed problems, but without consequences for data taking:

- Automatic reboot of PVSS MS-Windows computers after system upgrade (happens at 3am !)
- Annoying false alarms caused by
 1. CAEN HV-crates
 2. DC, MicroMega slow control communications
(don't blame DCS for this "feature")
- Real HV alarms by Straws (ST05 voltages lowered)
& Hodoscopes (controller exchanged)
(side remark: stored HV values readable in PVSS without loading (→ import))

Problems / Findings during week

- **VME boot server**: during an attempt to compress data the disc went south
 - reinstallation of system & software
- Water, water, water everywhere ... (sorry Stephane!)

Things to be watched when beam comes back:

- watch efficiency of PB03 & PB04 (82% or 95% ????)
- noise figure in Silicons
- CINDERELLA: cuts tightened by 0.75 Sigma (22.7. 04 17:44)