Weekly report
June 2-9, week: 27/28, SPS period: P1C
Runs: 37043 -

J.Nassalski, 9.07.2004

**BEAM**

Fr 2.07  Sa 3.07  Su 4.07  Mo 5.07  Tu 6.07  We 7.07  Th 8.07  Fr 9.07

2.1 $10^8$ µ/spill
PS septum failure 36h 45’
11 µs spill substructure
Trig. M-I unprescaled

alignment
field rotations
alignment

# spills available (from Jiawei on 9.07 at 10:45):
Fr 2.07  Sa 3.07  Su 4.07  Mo 5.07  Tu 6.07  We 7.07  Th 8.07  Fr 9.07
2341  4636  4894  1371  913  4081  2911  2167

Beam - expected - at the beg. of the week : 5d 16h  (136h)
- after the septum failure: 5d 12h 45’ (132.75h) → 99%
- nonavailable to COMPAS (logb.) :  16h → availability → 88%
DETECTORS

~all trackers on

RICH: PD0-EFG, PD2-I, PD4-CE, PD6-C at reduced HV

Incl. MT unprescaled
runs/shift: \[
\begin{cases}
\text{=200 spill runs:} & \text{green}\cr
\text{< 200 spill runs:} & \text{red}
\end{cases}
\]
- due to beam or COMPASS, could be Good OK

=200 spill runs: 58
<200 spill runs: 63

(Data until Friday 9.07 14:00)
**SHORT RUNS**

* might be more than 1 problem
* due to (detector ↔ DAQ?):

<table>
<thead>
<tr>
<th>BEAM</th>
<th>DAQ</th>
<th>TRIG</th>
<th>MM</th>
<th>Si</th>
<th>W45</th>
<th>RICH</th>
<th>ECAL</th>
<th>CIND.</th>
<th>TGT.</th>
<th>?</th>
</tr>
</thead>
<tbody>
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<td>12</td>
<td>19</td>
<td>11</td>
<td>9</td>
<td>1</td>
<td>1</td>
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<td>1</td>
<td>5</td>
<td>2</td>
<td>1</td>
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</tbody>
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THINGS TO IMPROVE

- LOGBOOK: - give clear reasons for stopping the run (DAQ ↔ detector)
  - write down clearly beam-off time

- MM alarms
- HODOSCOPE HV alarms (done?)

- DAQ performance

- Update REFERENCE PLOTS
THINGS TO IMPROVE ctd.

MODIFY ALIGNMENT PROCEDURE

Marcin Stolarski suggestions for present intensity:

MAGNETS OFF

- unpresc. by 2: VI, VO+H04, BT
- 50 spills (100 before)

MAGNETS ON

- unpresc. by 2: VI
- unpresc. by 16: VO
- unpresc. by 2: BT
- unpresc. by 2: Incl. MT
- 25 spills (50 before)

prescale for higher beam intensit.

(At present nobody is using this data but some feel that it might be used in future improvements)
Beam off according to the logbook:

2.07; 17:40, 30’
19:00, 20’
3.07; 12:30, 60’
5.07; 2:30, 40’
7:30, 2205’ – MD & septum
7.07; 9:20, 40’
16:45, 30’
23:00, 480’
8:07; 9:30, 42’
11:15, 16’
13:30, 120’
16:32, 20’
9:07 10:17, 60’
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956’ ≈ 16h