



Week Report 9 - 16 July, week 29

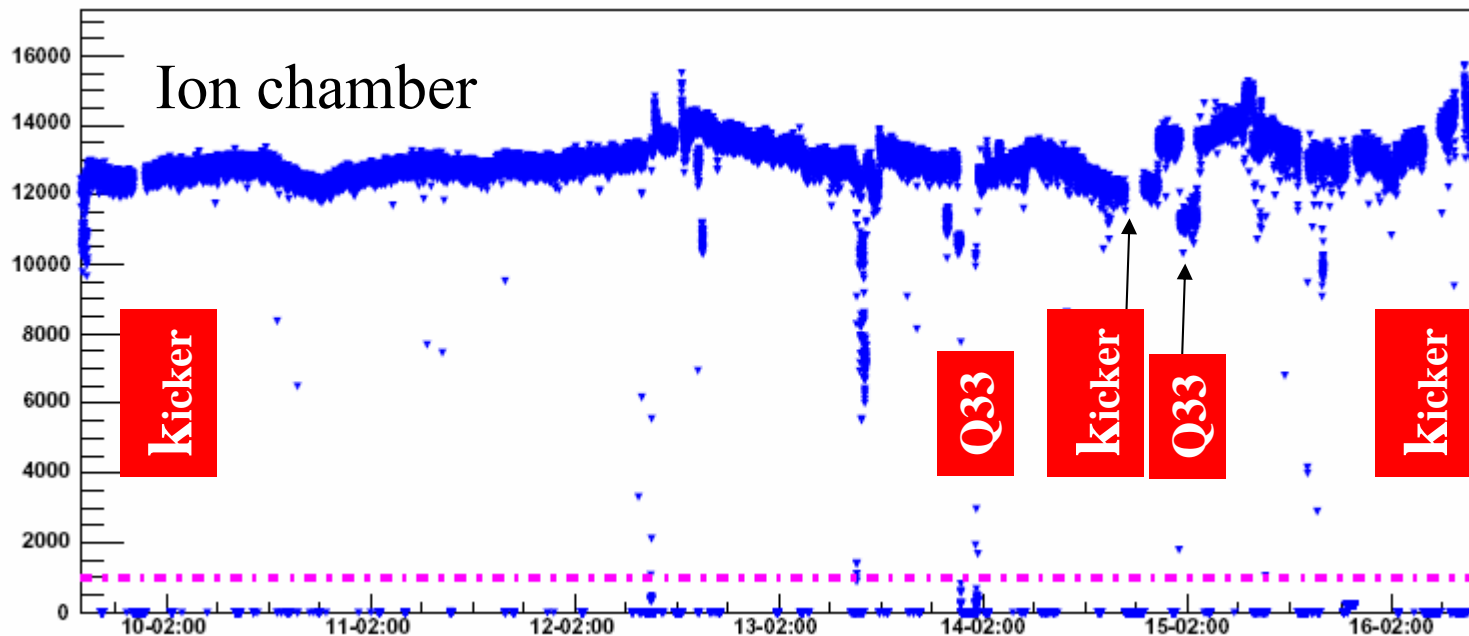
Friday July 16, 2004

G. Mallot

SPS/PS: only one injection, $\frac{1}{2}$ intensity, 11 μ s substructure
good performance in general
beam off: kicker, temperature measurements of PS septum,
beam line Q33

ϵ spills on T6: 89.4 % (machines+Q33),

ϵ T6 current: 82.0 % ($60 \cdot 10^{11}$ ppp = 100)





Week Report 9 - 16 July, week 29

Friday July 16, 2004

G. Mallot

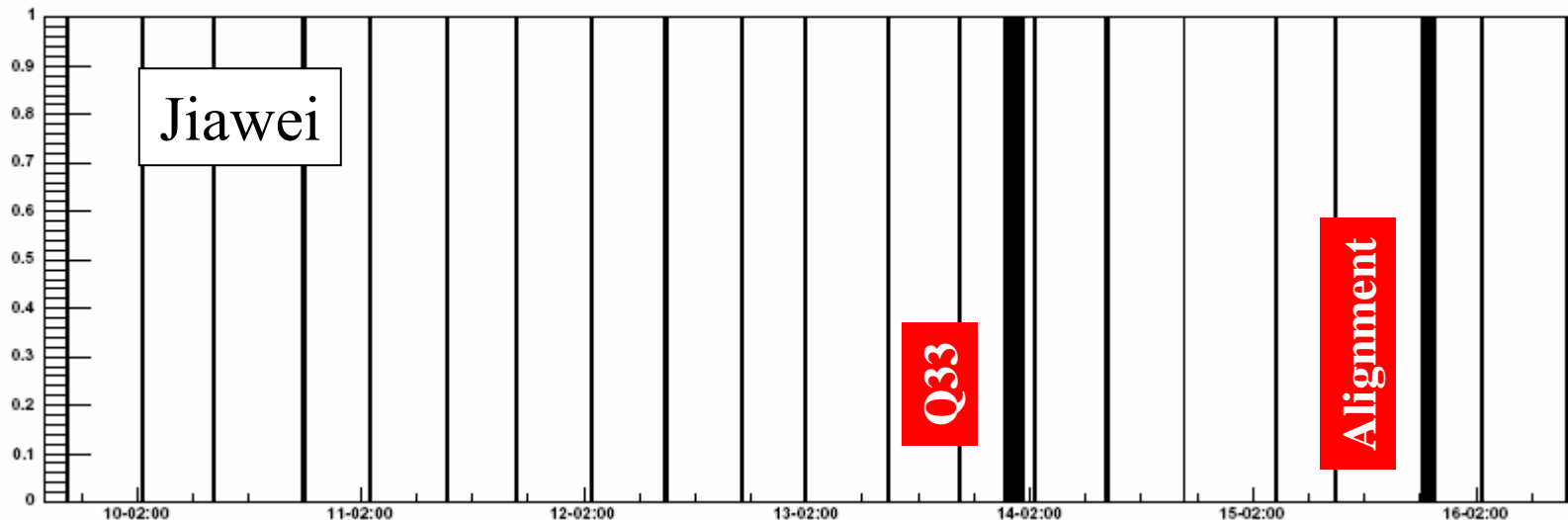
COMPASS: basically no access during beam time **97.7 %** of available beam entered hall, 21 field rotations à 33 spills **2.2 %**

but: of this only **92.4 %** used (excluding 1h alignment)
219 physics runs à e.g. 6 spills **4.3 %**
=> **missing 7.6 %** mainly due to DAQ and FE



run restart now reduced to 4 spills (Thiemo)!!

Usable SPS Spill Not Get in 888 (Field Rotation, Access, etc...)





Week Report 9 - 16 July, week 29

Friday July 16, 2004

G. Mallot

With the help of the new statistics tool (Jiawei):

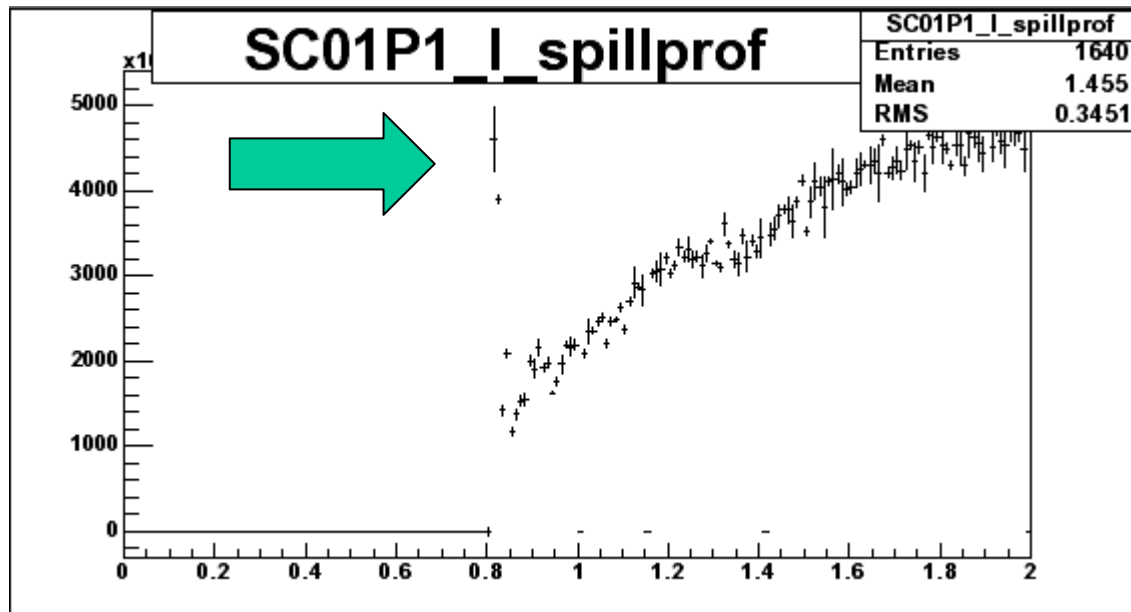
9 July 16:00 – 16 July 12:00

+ polarisation runs: 13656 spills (68.3 runs)
- polarisation runs: 13481 spills (67.4 runs)
fieldrotation runs: 1048 spills (5.2 runs)



Detectors and equipment

- **Rich:** reduced HV on PD06C and PD04E varying at beginning of period
- **Trigger:** HV problems and varying calorimetric trigger rates
- **Beam:** bad structure in beginning
 - cut first 200 ms since run 37407
 - lost spills/day dropped from about 500 to 250 !





Detectors and equipment

- **DAQ:** big improvement in startup procedure, more stable and a lot faster (4 spills) (Monday evening)
- **DCS:** many false alarms due to hardware and connections
- **PT:** perfect as usual, polarisation diff $> 100\%$



Thanks

to the excellent shift crews!