

PS Report week 24



Many thanks
to the PS OP and coordination teams as well as all equipment experts and support teams!

Availability W23/24 (Thu – WED 7:30am)

Availability

97.2%

Blocking Faults

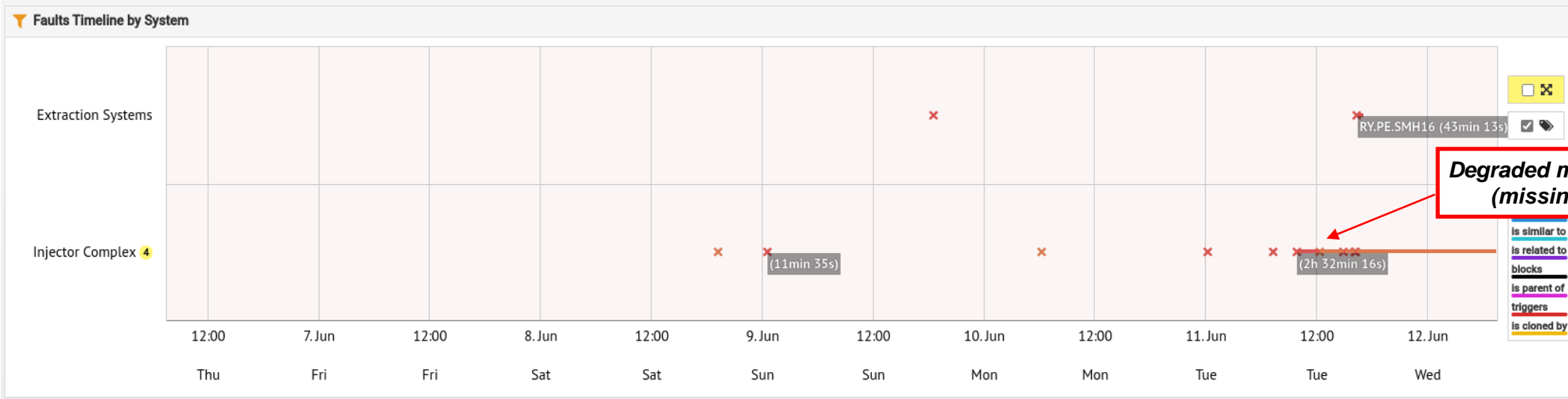
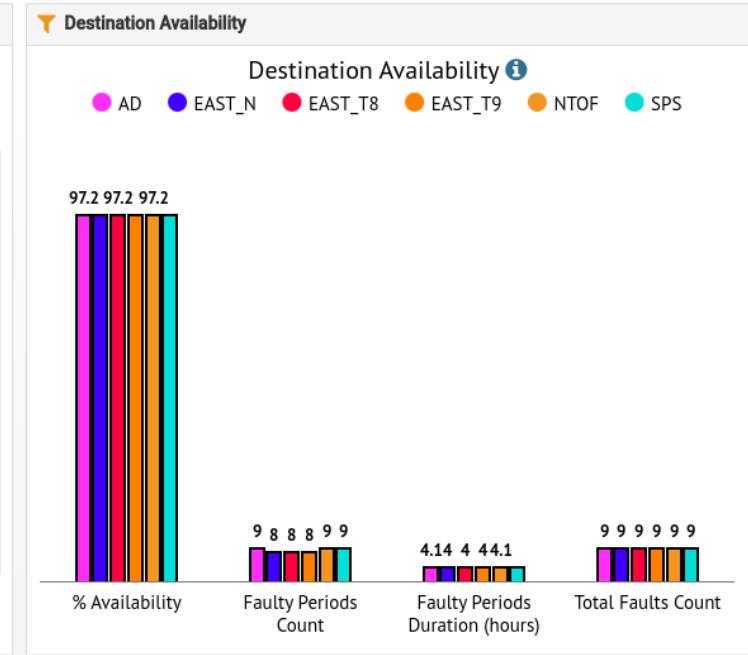
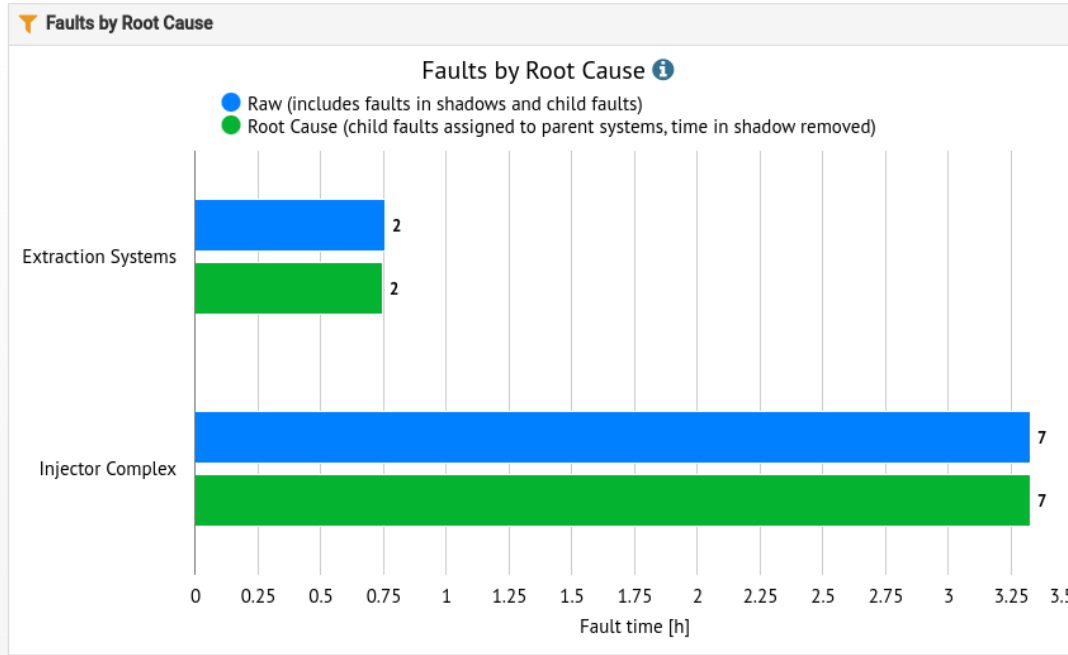
9

Total Faults

12

Fault Duration (overlap excluded)

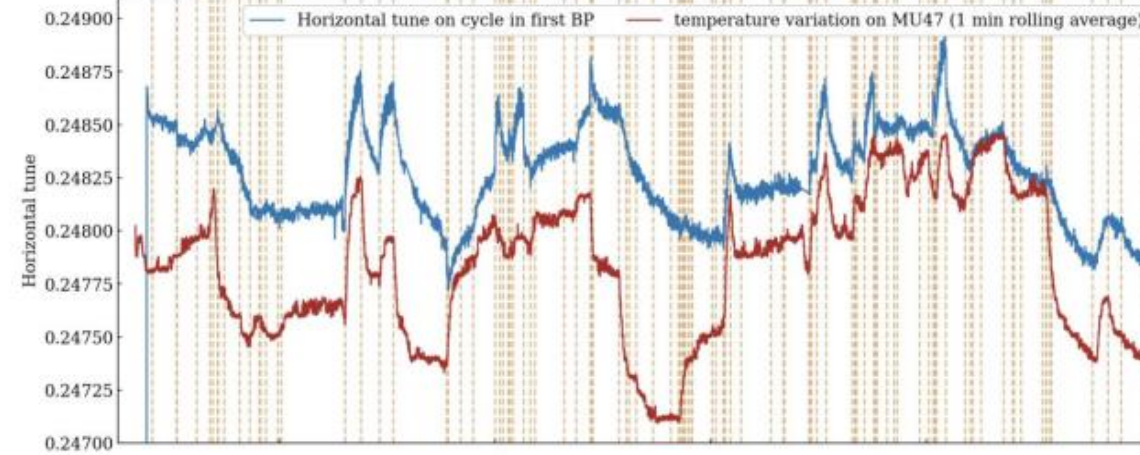
22.2h



Main issues and activities

- Excellent availability in W23 and start of W24!
- Main fault is stripping foil of PSB Ring2, running only with $\frac{3}{4}$ PSB Rings
 - PS ran in degraded mode from Tuesday morning until Technical Stop
 - TOF adjusted for production with dedicated cycles only using PSB Ring3
 - Beam produced for SFTPRO at lower intensity, following magnet exchange in SPS
 - AD produced with 4 bunches and asymmetric pattern
- Preparation of TOF beam with 44ns at extraction ongoing (completion at restart following stop)
- Optimization of EAST_N cycle (reduced losses, increased intensity on target), to be propagated on EAST_T9
- Continuous effort for SFTPRO beam to understand fluctuations of MTE efficiency and tests at highest intensity (3.5-4e13 ppp)

Tune evolution, MU47 magnet temperature correlation, supercycle changes



Last cycle: uncoupled
SFT_PRO_MTE_L4780_2024_V1

Wednesday, Jun 12 2024 - 08:58:27
Showing cycle: 07:30:02

PS	PSR / E10	% TT2	% TT10	% SPSR	% MTE EFF
SFTPRO1	889.2	98.9	98.4	0.0	20.00
SFTPRO1	883.1	99.1	98.7	0.0	...

EXTRACTION

MULTIPOLES

CAVITIES 10 MHz

SPS FREQ

LHC FILLING:

WARMUP

PREPARATION

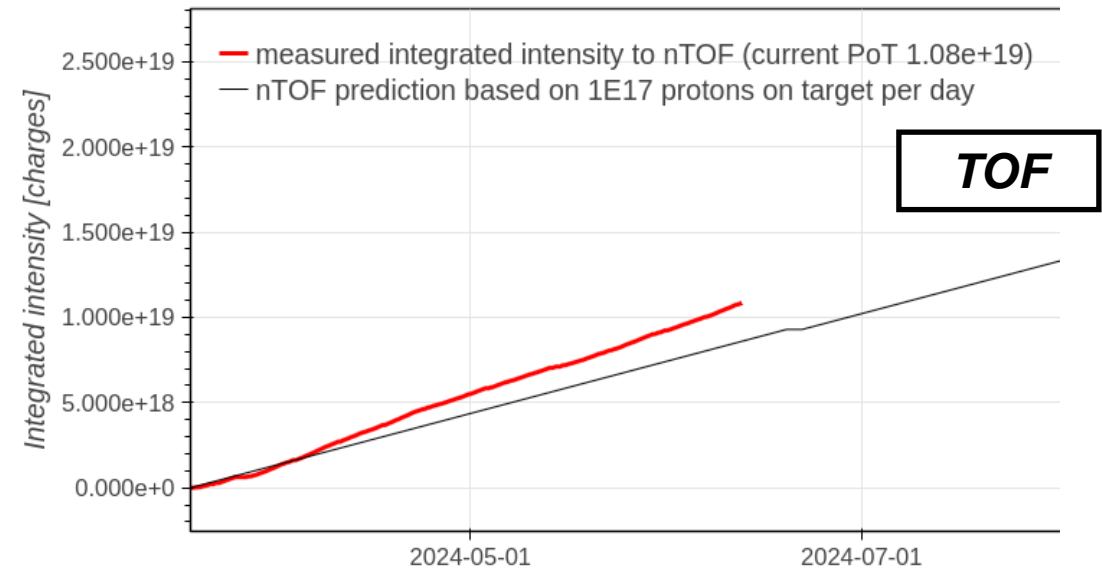
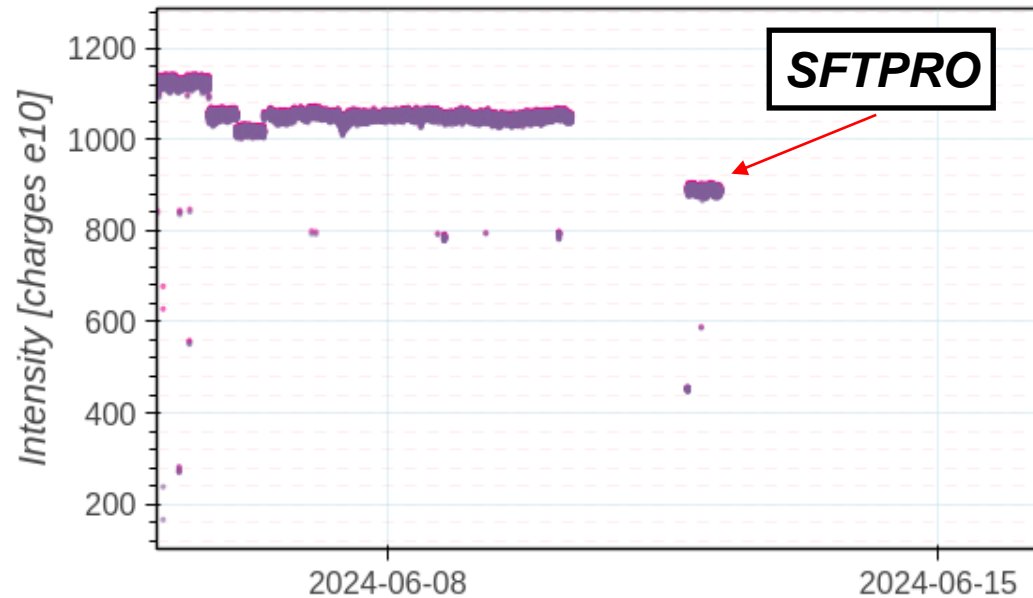
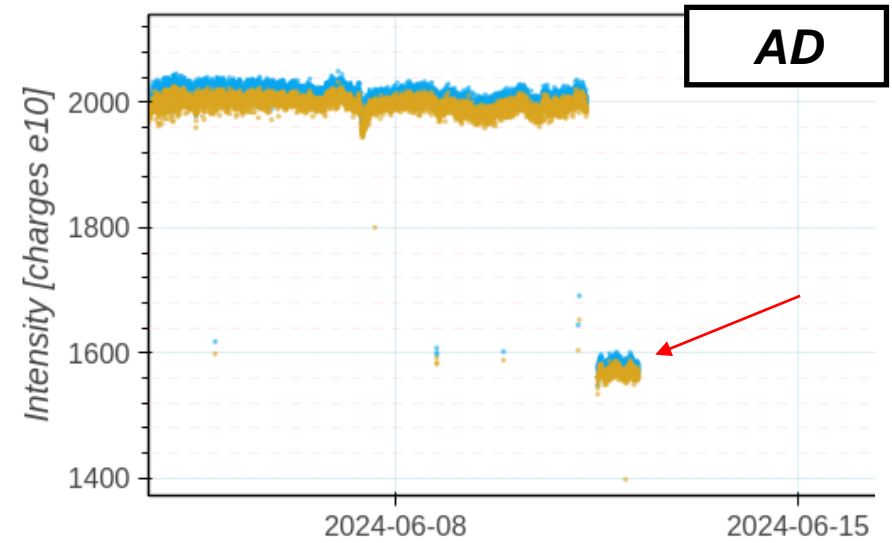
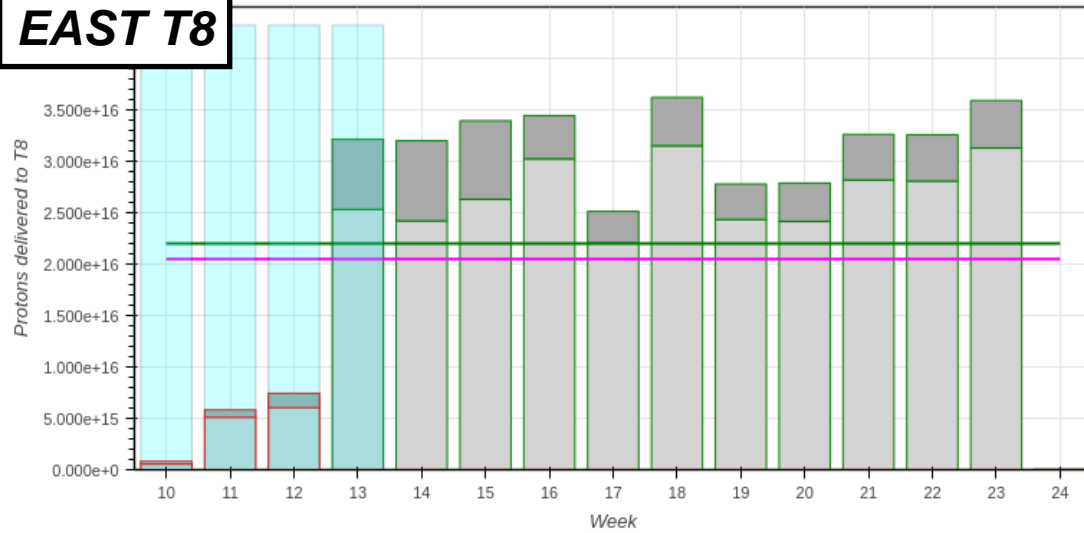
IMMINENT

SFTPRO with missing PSB Ring2

Delivered intensity

** PSB R2

EAST T8



Questions and Comments

PS Coordinator for week 24 – **Alexandre Lasheen**

PS Coordinator for week 25 – **Ewen Maclean**



9:00 live meeting at the CCC on Wednesday/Friday

Zoom link to follow the meeting on remote: <https://cern.zoom.us/j/9372114100?pwd=L29BcmIHUENCdFBRSytXYVcrM1B4Zz09>

Meeting ID : 937 211 4100

Passcode: 525463