

PS status W44 – 01.11.2018

I. Efthymiopoulos

on behalf of PS operations and supervisor team

Availability

88.1%

Blocking Faults

44

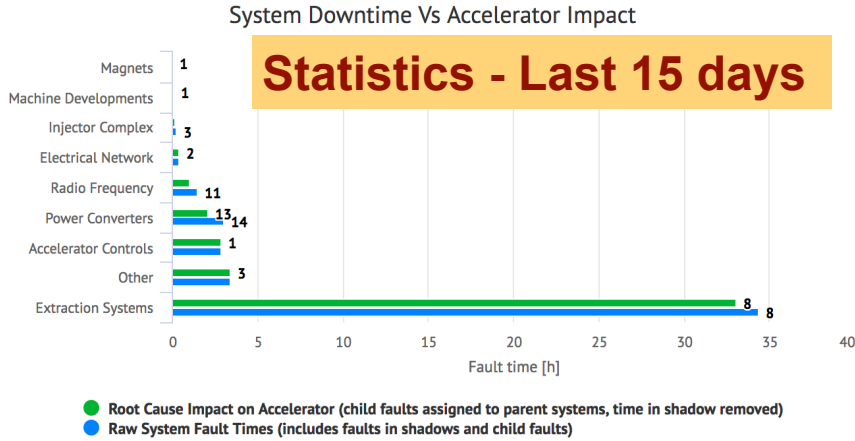
Total Faults

48

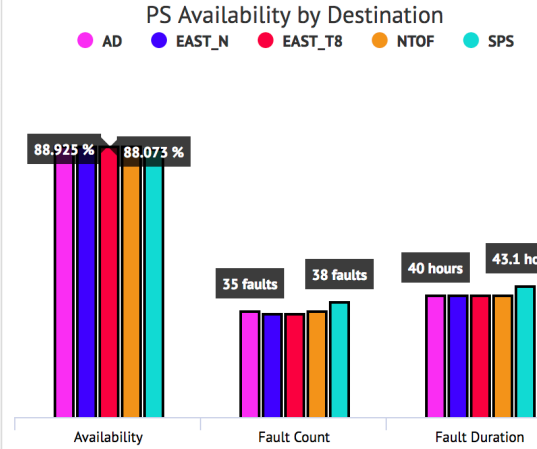
Fault Duration (overlap excluded)

44.9h

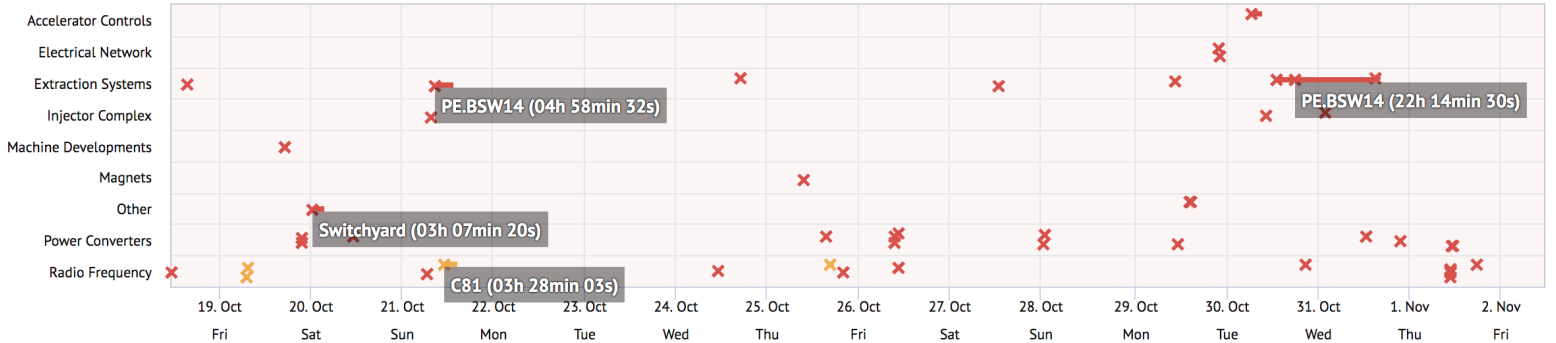
Blocking Faults by Root Cause



Destination Availability



Faults Timeline



✓

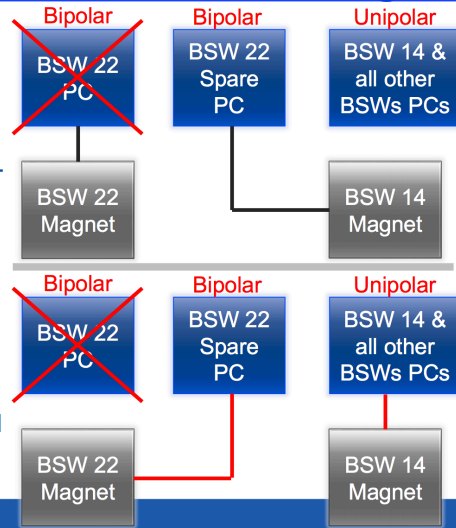
✓

✓



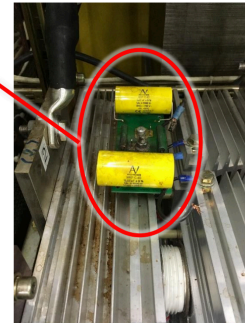
BSW22 Bumper Issue

- BSW.22 PC failure on Tuesday 30th Oct. 1 PM
- PIPO & OP responsible on site for diagnostics – apparently short-circuited output thyristors bridge (providing bipolar function)
- No Eng. Expert available that afternoon (myself on Holidays)
- I was called & suggested to temporarily rollback to previous scheme
- 6:30 PM intervention finished – all beams back except MTE

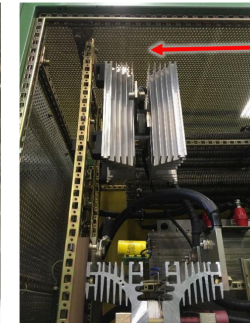


- Polarity inverter thyristor's snubber blown up due to water showers
- Thyristors ok, but behaved as in short-circuit due to auto turn-on phenomena because snubber absence (thyristors can turn-on without trigger if dV/dt is above a given value)

Snubber
(capacitors
and resistors)



Old rack's roof
– steel grates

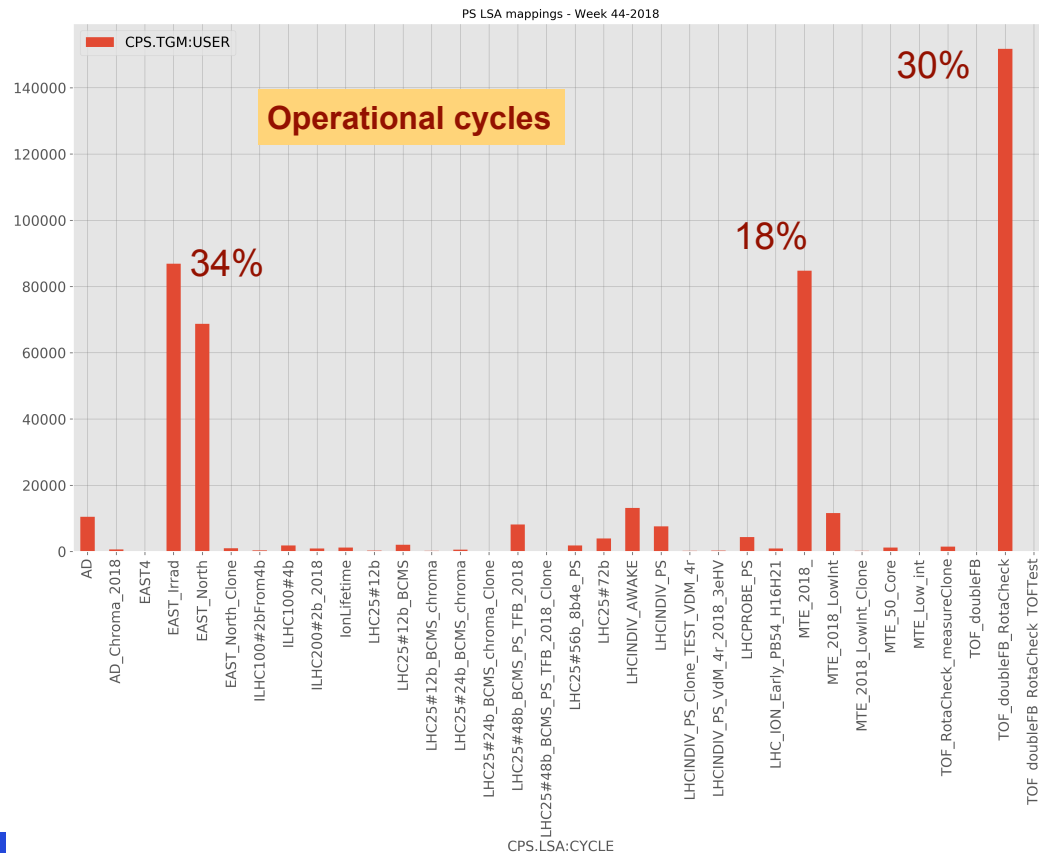


- Modifications foreseen during LS2
 - Upgraded converters + normal spare policy

Courtesy Davide Aguglia - TE/EPC

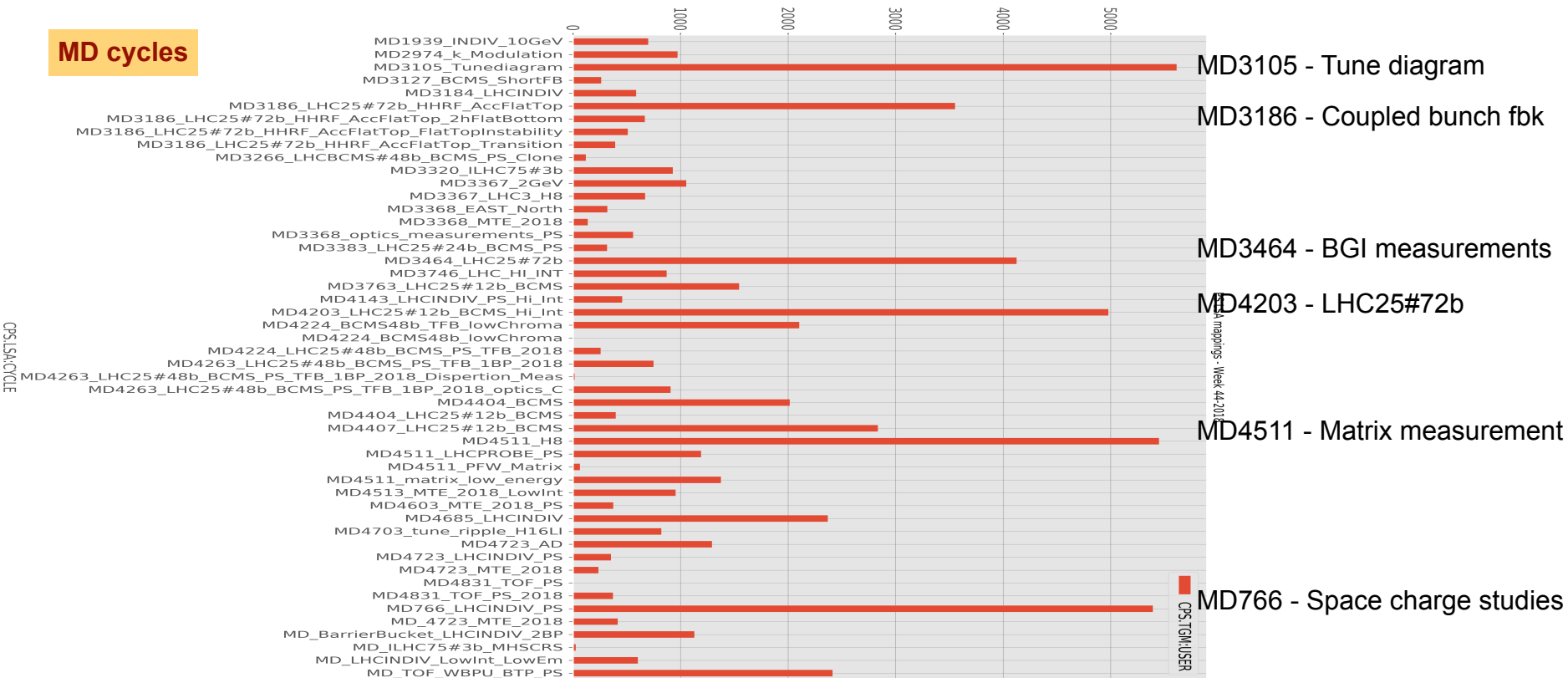
PS Beams - Destinations

Destination	Cycles
Oper beams	466'584
MD beams	63'358
Zero	249'713
Total	779'655



PS Beams - Destinations

MD cycles

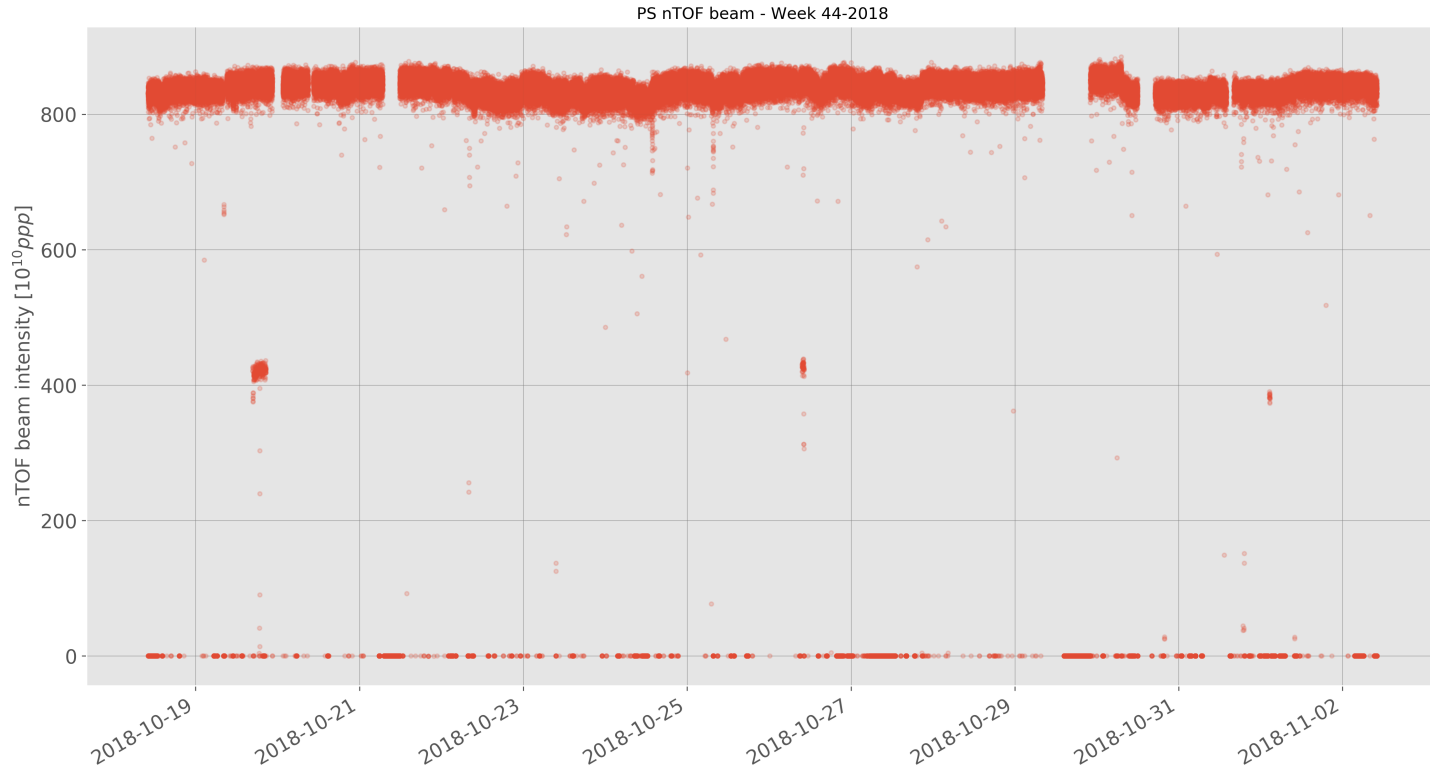


MD : Status Transverse Studies

Alex Huschauer

- **MD3105** – Tune diagram measurements
 - Attempt to degauss main magnets with the PFW
- **MD3367** – Transverse impedance measurements
 - Tune shift vs. intensity and impedance localization
- **MD3368** – Optics measurements
 - RDT, resonance compensation and off-momentum measurements
- **MD3383** – k-modulation with low-energy quads
- **MD4263** – BCMS brightness studies
 - Simultaneous emittance vs. intensity measurements in PSB and PS using the prototype WSs in both machines
- **MD4511** – PFW matrix measurements
- **MD4603** – Benchmarking of new WS
 - Comparison between operational and new scanners
- **MD4723** – TT2 optics measurements
 - Reference measurements for different operational cycles, kick response from the ring to TT2
- Chromaticity reference measurements on operational cycle

PS Beams - Intensities - nTOF

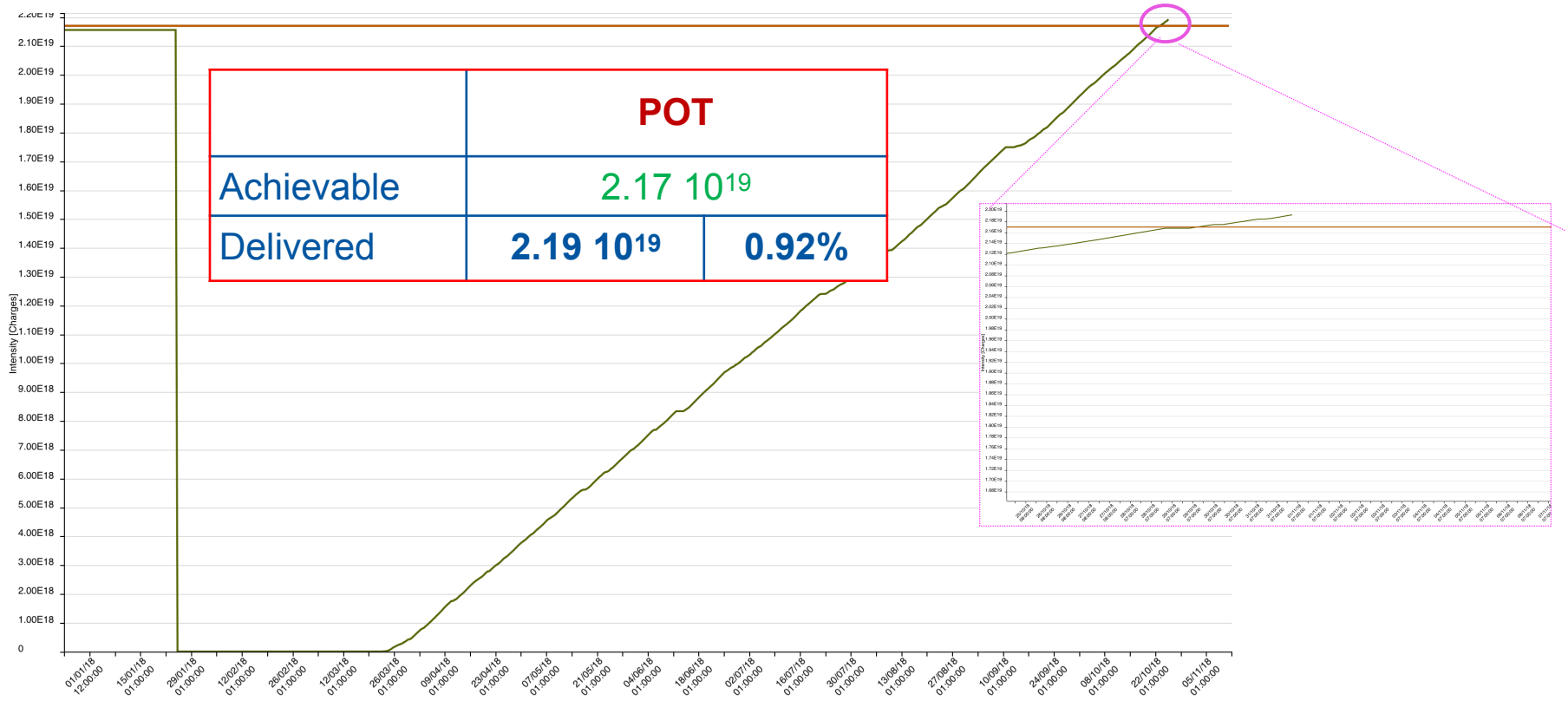


nTOF
840 10¹⁰ ppp

Yearly Planned POT
reached on late
Monday October 29 !!



nTOF - Cumulative Intensity on Target



PS Beams - Intensities - SPS

