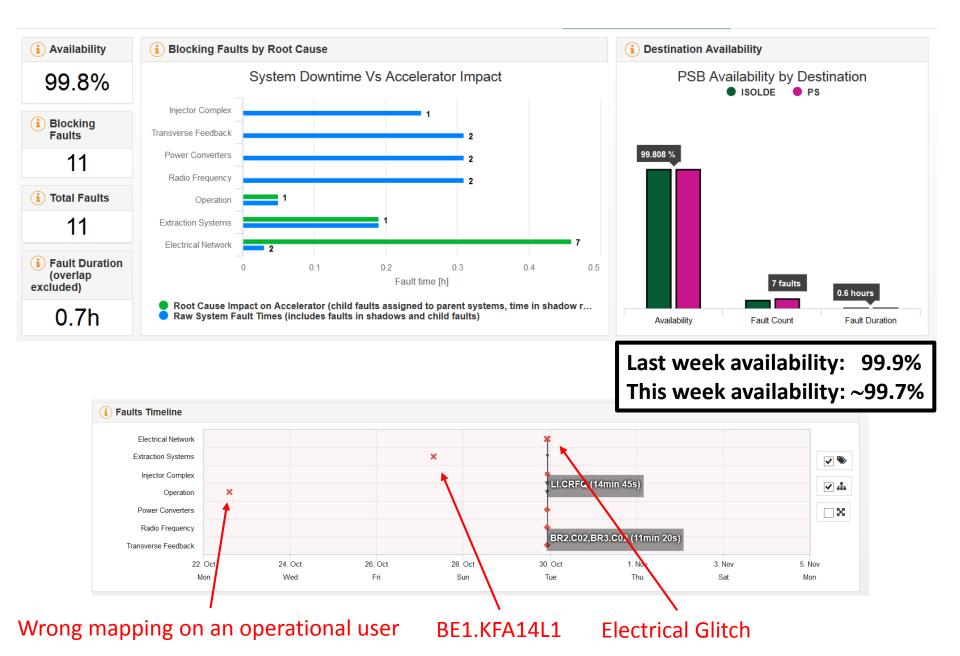
## **PSB Availability in the Last 2 Weeks**



- All operational beam in specs.
- Reference measurement finished.
- On top of standard beam operation the focus of the last two weeks was in supporting the LHC and injector MD programs.
- As a consequence of the current issue with Linac3 and the delay of the ions run, last minute request by LHC to repeat the low energy, high beta VdM scans in the LHC on Saturday 3<sup>rd</sup> November, either afternoon or night:
  - VdM type beam
  - Intensity 0.9-1.0E11 ppb at LHC injection
  - Transvere emittance **1.5-2.5 um** at LHC injection in both planes
  - Beam revived and tested in the PSB and PS. Ready for SPS to test it.
    - PSB USER: LHCINDIV\_VdM\_4r\_2018\_1.5eHV

## List of MDs in the last 2 week (apart from reference measurements):

- Resonance compensation: ABP (Foteini) mapped resonances at 160 MeV and proposed corrections
- Tune scans → Andrea will present results today on tune scans and resonance compensation
- Emittance measurement along the cycle
- BCMS brightness measurements, also using the new prototype WS in R3H
- Optics Measurements
- Instability studies
- TFB commissioning
- Successful test to implement 8 servo loops for Finemet (for multi-harmonic operation).
- Finemet reliability run tried with updated WR B-Train firmware.
  - This was a follow up to the issues found in April when starting the B-Train reliability run.
  - Some issue with the extraction synchronization in R4. System reverted to Ferrite for operations. Being followed up by RF experts.
- BT2.KFA20 scans at flat-top
- Kick response for the new wideband BPM, BTP.BPM15
- PPM-matched optics for ring3 at PS injection for LHC brightness measurements

## **Operational and MD Beams Status**

## List of MDs in the last 2 week (apart fr

- Resonance compensation: ABP (Fote 1200
- Tune scans → Andrea will present re
- Emittance measurement along the c
- BCMS brightness measurements, als
- Optics Measurements
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  - Some issue with the extraction Being followed up by RF expert
- BT2.KFA20 scans at flat-top
- Kick response for the new wideband
- PPM-matched optics for ring3 at PS

