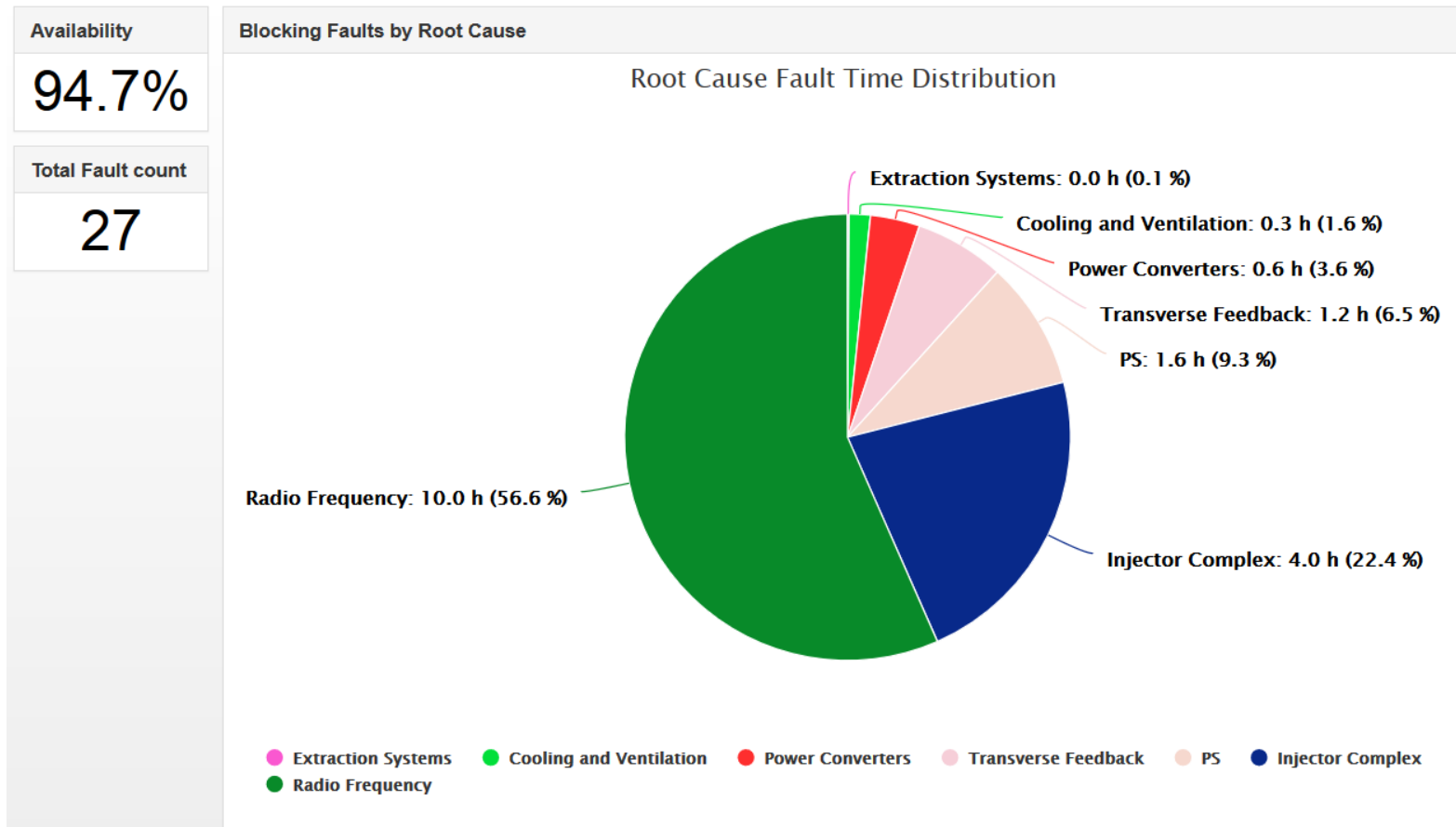


PSB Operation: Status

Operation:

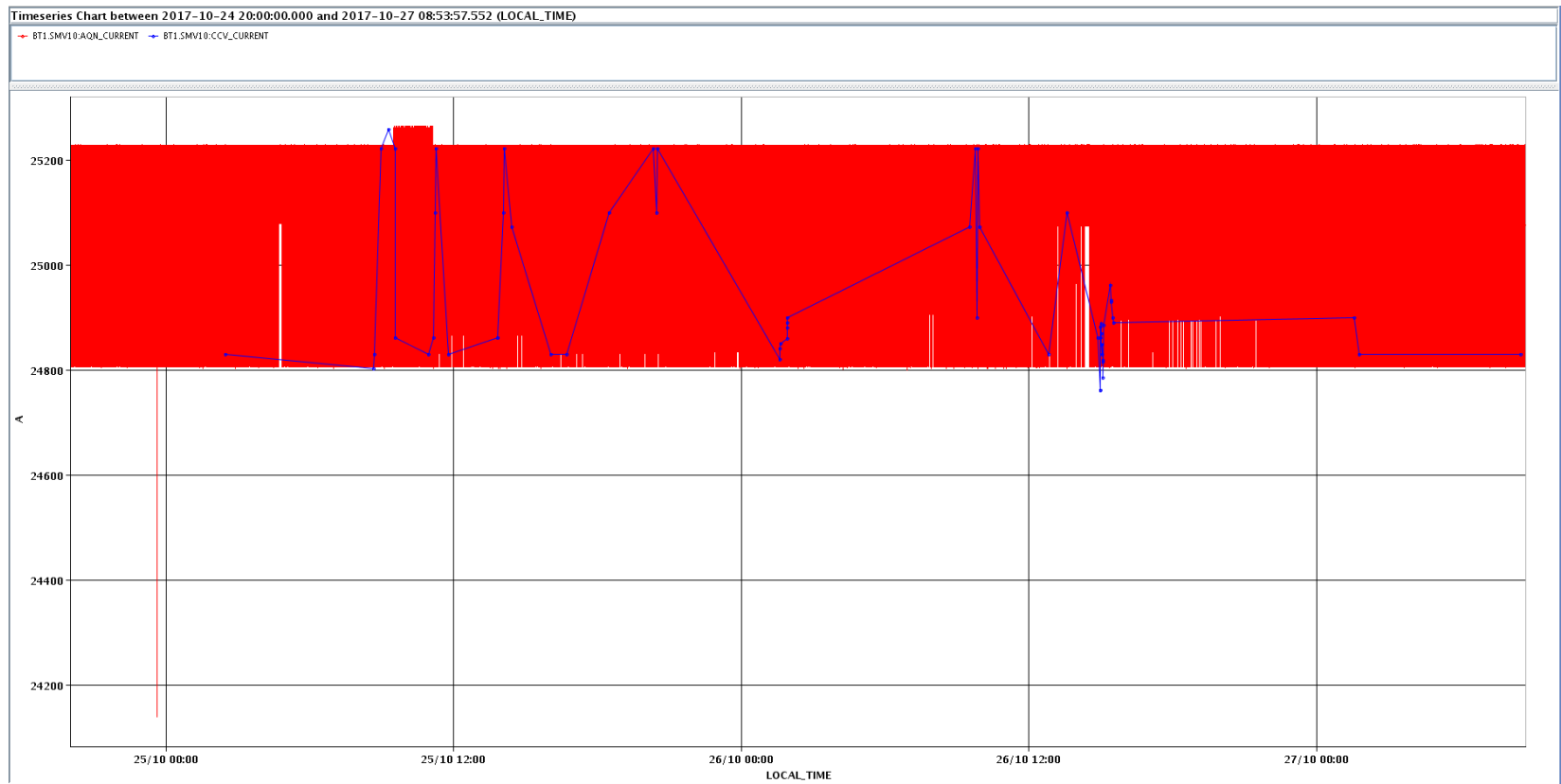
- All operational beams available and within the requested specifications.
- Availability of **94.7% in the last 2 weeks of operation** (was 98.5% two weeks ago).
- Main downtime due to RF (Ventilation, TFB), Linac2 (RF Tank1/2) and PS access.



PSB Operation: Intervention during Scheduled Stop

BT1.SMV10:

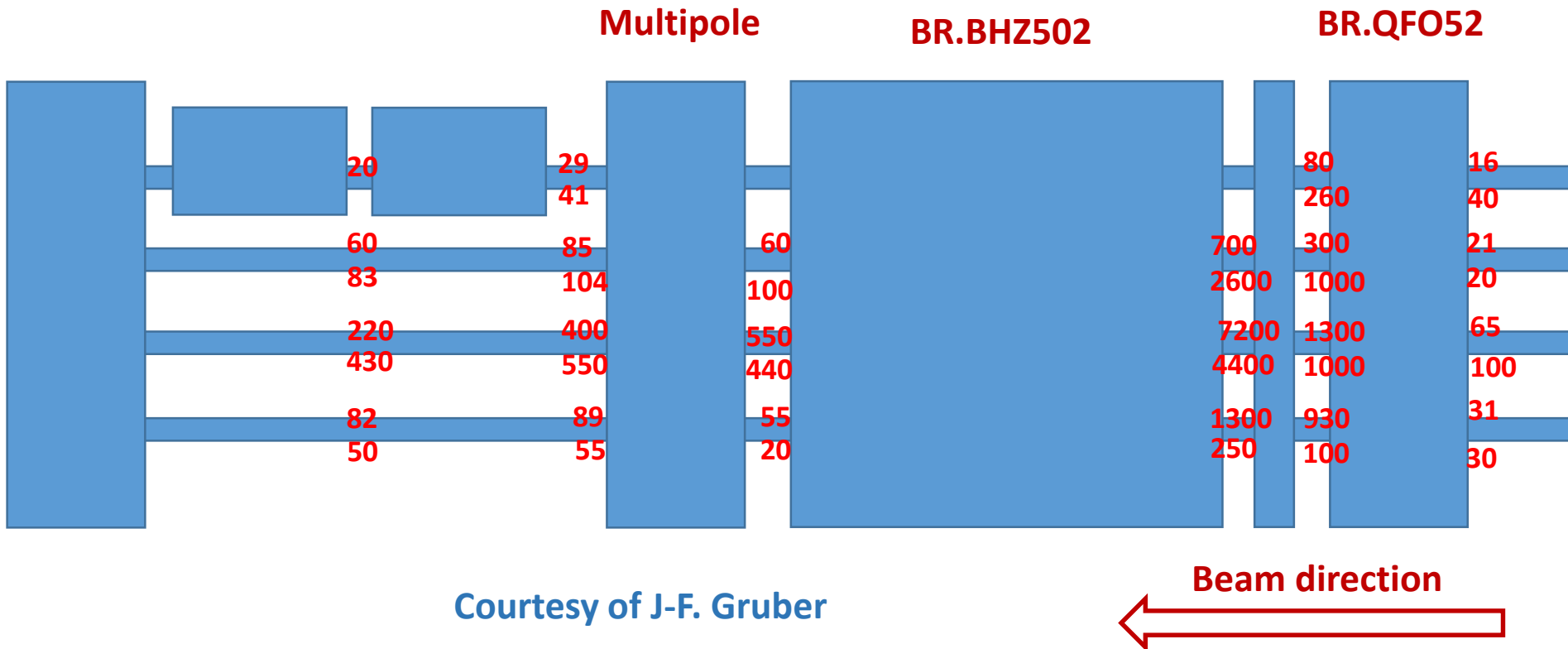
- **TE-EPC intervention to fix the systematic drift in AQN current wrt the CCV value.**
- Issue affected the PSB-PS steering, resulting in **losses** or **emittance growth**.
- Intervention successful: Since last Tuesday no drift observed.



PSB Operation: Intervention during Scheduled Stop

Installation of additional BLMs in BHZ502:

- Previous survey from RP showed that the losses were mostly coming from Ring2.
- The losses were mostly at the entrance of BHZ502.
- Yu included the new BLMs in the PSB BLM application and preliminary observed the losses starting at injection and lasting ~50 ms.
- The losses disappear when disabling the vertical correctors in Ring2.



PSB Operation: Status

LHC Special Run:

- As part of the physics programme for the **900 GeV high beta star run the LHC experiments** plans to have a **VdM scan at LHC injection energy (end Nov./beg. Dec.)**
- Intensity at LHC injection **1.3e11 protons per bunch.**
- Transverse emittance at LHC injection **~2.0 μm .**
- Bunch spacing of **525 ns.**
- **LHCINDIV VdM 4r 2017:**
 - At PSB extraction we currently have **1.3e11 ppb and $\varepsilon_h/\varepsilon_v \sim 1.5/2.0 \mu\text{m}$.**
 - Reworked yesterday by Tibor after SPS feedback.
- New beam request for **LHC Roman Pots** ~last week of the run.
- **LHCINDIV-type of 8-10E10 p on ring 3, transverse emittances as low as possible (<1 μm).**
- **MD_LHCINDIV_LowInt_lowEmit:**
 - Reduced # of turns from 1.8 to 1.
 - Emittances in both planes around 0.45 μm and stability not degraded.