PSB Report

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for the PSB team
Availability 28/02 to 7/03:
91.5 % dominated by the **access on Monday**
Destination availability: only PS considered; beam commissioning activities for ISOLDE
Access for the realignment of Ring 2 BSW1L1.1 and 3 quadrupoles & RF CTRV output problem discussed in previous FOM. Successful realignment: beam-based roll angle estimation 0.3 mrad from 12.5 mrad Ring RMS orbits improved 1-1.5 mm

- 4 of the 5 faults were related to the QUAD-A circuit and led to POPS-B faults.
EPC installed an oscilloscope during the source intervention on Friday – A short stop of ~10 min is needed this week could be in the shadow of the SPS beam based alignment stop (Wednesday or Thursday) or the AD & nTOF DSO tests (Friday)
- Beam stop for an FGC reboot
Activities – Next week

• **LHCINDIV & MTE:** users within specifications; taken regularly in the PS for their beam commissioning;

• **LHCPilot & MTE:** requested from SPS for beam commissioning;

• **ISOLDE:** first beam to ISOLDE on Friday evening; reference measurements on the transfer line; new operational variants with minimal losses (based on 2021 MD users);

• **LHC25:** setup up to 220e10 ppr; specifications close to the LIU target; studies on $\beta$-beating and compensation to recover brightness

• **TOF:** variant with low intensity (200e10 ppr) and high vertical emittance (6-7.8 um) setup for the PS

• **AD:** initial setup completed; beam stable along the cycle; fine tuning to bring beam to specifications

• **Finalise setup of operational users**

• **PSB coordinator:** *J. F. Comblin* (168060)