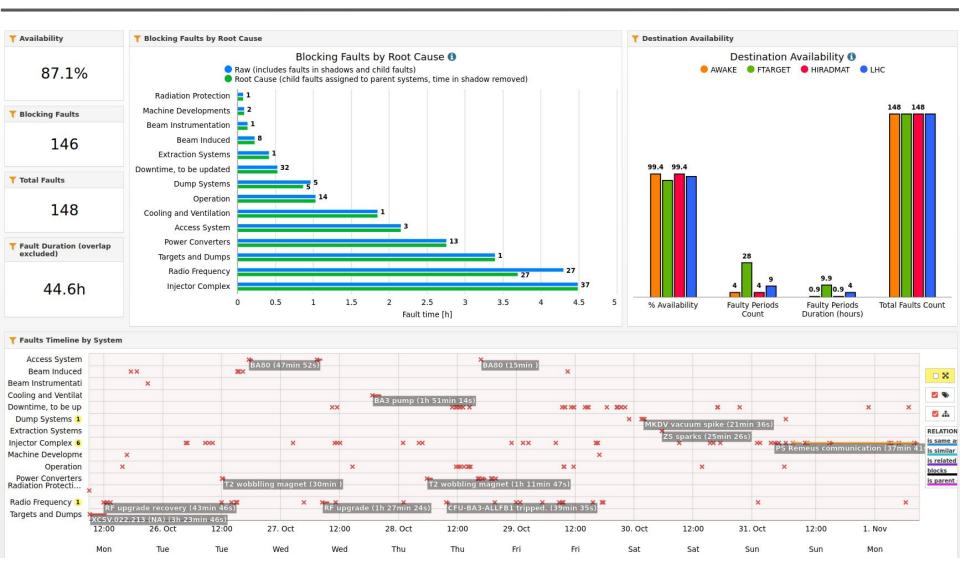


SPS Week 43 report

F.M. Velotti for the SPS team

Availability



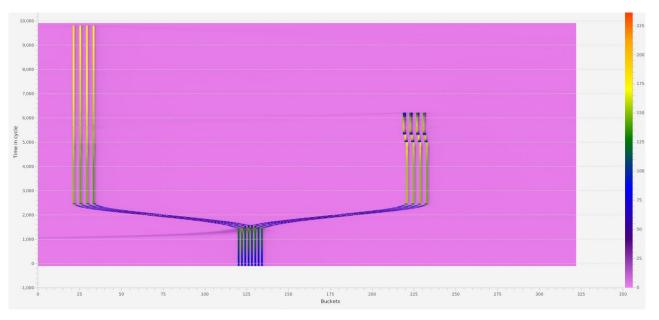


Main events



→ LHC had the last week of the 2 weeks test

- Main issue seen on our side was the fact that 3 converters in TI8 were pulsing following the FGC update over LS2 and significantly impacting the LHC orbit now economy switched off and all work as expected. Still needs to be completely removed for these elements as this could create problems in case forgotten
- → Second week of ion commissioning
 - About 3h dedicated to RF firmware and BC upgrades to allow attempt of slip stacking
 - By the end of the week successfully managed to slip-stack 4+4 bunches and accelerate them to flat top with about 50% transmission
- → SFTPRO had a rather quite week
 - Replacement of collimator in BA81 stopped NA physics for about 3h on monday collimator blocked closed and now blocked open to continue operation until the YETS
 - Recurrent issues on the wobbling magnets on both T2 and T4 basically the wobsu (monitoring system on the wobbling magnets) checks that the current of the PC is in
 1 A tolerance and this seems to fluctuate quite a bit
 - Since Sunday morning to Monday lunch time missing PSB ring 2 and SFTPRO in degraded mode beam sharing changed to deliver the expected number of protons on T4 for NA62
- → Lost of patrol in BA80 happened 3 times this week!



This week



- → HiRadMat last experiment
 - Dedicated scrubbing of yesterday started with a little delay due to the issue on the PSB ring 2 extraction kicker
 - About 12 h taken for dedicated scrubbing of the MKDV1 managed to have 4 batches of 72 bunches with about 1.2e11 ppb to flat top this morning
 - 2 new optics were quickly commissioned and larger emittance beam (prepared in the PSB) was also tested and matched the wanted values (about 2.5 um in both planes)
 - Ready for the experiment as foreseen in the planning
- → Kevin is taking over this week

