



ISOLDE FOM Report week 23

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BE-OP-ISO

Main Events - **Low Energy**

➤ HRS

- On Tuesday 1st of June the **SEMGRID** target was put on **HRS** from GPS.
- PSB was not able to start measurements on Tuesday, due to signal issues on the fixed SEMGRID.
- Issue resolved on Wednesday morning by BI (M. Durrafourg) and measurements could start.
- PSB continued **measurements with NORMHRS beam until Friday** when they changed for **STAGISO**.
- Friday afternoon measurements finished, proton request turned off. PSB reports no major offset to the beam which agrees with the alignment measurements.
- Regarding the fixed SEMGRID. They are getting old and especially on the HRS side it was giving troubles for PSB to get a signal. We will start organising a consolidation plan.
- Target #659 was put in HRS on Monday. This week we will set up stable beam, then take protons and deliver beam from HRS to the new tape station

➤ GPS

- On Tuesday 1st of June, target #638 was put in GPS.
- Entire week delivering beam from GPS to GLM and GHM

Main Events - **REX/HIE-ISOLDE**

To follow up on the incident that took place last Sunday. RF (D. Valuch) and with Cryo (N. Guillotin) evaluated the situation. A few key points (smaller font reported on previous FOM):

- A failure of one of the temperature sensors in CM3 brought down the cryoplant on Sunday 29th of May. Cryo piquet intervened but was not able to avoid the loss of LHe in the four cryomodules
- The temperature of the 15 SRF cavities in CM1, CM2 and CM4 raised above 10 K (higher than the critical temperature of Niobium)
- The cryo team worked on recovering the stability of the cryoplant on previous Monday and Tuesday
- **The SRF specialist assessed the impact on the SRF cavities on Tuesday and Wednesday. The cavities did not need to be reconditioned.**
- The cavities were handed back to the OP team on Thursday 3rd of June.
- We could not start cavity XLH1.CAV3 and RF (D. Valuch) fixed the issue remotely, even if not at CERN. Many thanks!
- Phasing of the buncher, IH and the 7gap1 structures completed for beams with $A/q=2.857$ and $A/q=3.333$.
- Reference set-ups for those A/q 's at 1.55 MeV/u prepared and documented.
- Problem with the amplifier for the 7gap2 found. The power seems to be limited to ~ 2 kW. RF specialist (C. Gagliardi) fixed the issue.
- Phasing of 7gap2 and 7gap3 structures for beams with $A/q= 3.333$.