

# ISOLDE Physics Group Meeting minutes

Location: The meeting was held remotely via Vidyo as well as on-site (in Main Auditorium) with about 50/50 attendance in both.

Date: 8<sup>th</sup> October 2020

Time: 14:00-14:30

## TECHNICAL NEWS

### 1. FRONTENDS:

- Description: Good progress on FRONTEND10 (GPS). The control issues have been identified and are in the process of being resolved and some low level update of the GPS frontend control applications will start momentarily. This week the operators should start heating the target for the first time hoping to perform the first tests with stable beam in the coming week. The sparks occurring at 40kV with FRONTEND11 (HRS) were also solved, a few edges here and there needed to be rounded a bit more), and it can now hold 65kV. The first test with heating at the offline2 will be starting soon.

### 2. MEDICIS :

- Description: The 155Tb collections are ongoing. However, there has been some issues with the HV and the target is outgassing more than usual.

### 3. B.179 :

- Description: Consolidation of the ClassA lab is ongoing. The carburation of batch # 8 of the Uranium is ongoing. The preparation of ThCx target is delayed to 2021 to see whether there is an actual demand from the physics community for this target.

### 4. TAPE STATION :

- Description: A blank vacuum flange was replaced (it was damaged) and it seems that the vacuum leak is now solved. Some electronic noise has been identified on the tape station signal. Razvan Lica mentions that the only noise he saw was high-frequency noise picked up by the amplifier. The prototypes for the new  $\beta$ -detectors from IFIN-HH should arrive at CERN by the end of November.

## 5. HIE ISOLDE :

- Description: The alignment work is now finished. The test of the REX-EBIS is going according to plan. The commissioning of the XT02 and the XT03 Si detectors is currently ongoing. The cause for the thermo-acoustic vibrations which cause the superconducting cavities to trip is partially understood. In parallel, some ways to reduce the frequency of the trips have been found. This issue is still very much a work in progress. Repairs are ongoing on the 9-gap amplifier. In parallel, new applications for the tuning of this device are being deployed which should help the operators in the setting up.

## 6. GLM/GHM upgrade:

- Description: Work is ongoing. The dismantling of the NICOLE setup will start after the work in the GHM/GLM area is finished

## VISITS

1. Group visits are cancelled until the end of 2020. The question was raised whether a visit can be organised for the “Bemline for schools” program, it will not take place.

## ANY OTHER BUSINESS

1. Recommendations and information related to the new-coronavirus outbreak at CERN can be found on this page : <https://hse.cern/news-article/coronavirus-information-and-recommendations>.
2. Joachim Vollaire agreed to cover the cost of the upgrade of the WISARD crane as well as the rails for VITO with money left on this year's budget.
3. The plan to restart ISOLDE on the 21st of June 2021 is still on track.
4. The ISOLDE twitter is now online. People willing to help Jenny or having suggestions for posts are asked to contact Jenny directly.
5. The TAC report for the next INTC meeting should arrive next week.
6. Magda mentions that there will be a visit of the NI sales representative for Switzerland coming to discuss with the VITO team next week.
7. Karl can now provide the required safety trainings to grant access to the ISOLDE hall. There might be 1-2 places next week.

## SEMINAR

8. A seminar entitled 'Exploring the evolution of nuclear moments and charge radii approaching 100Sn' was given by Fredrik Parnefjord (PhD student with the CRIS experiment).