

ISOLDE Physics Group Meeting minutes

Location: The meeting was held remotely via ZOOM
Date: 1st October 2020
Time: 14:00-14:30

TECHNICAL NEWS

1. FRONTENDS:

- Description: The first target has been installed on Frontend10 (GPS) No controls operational yet but possibility to by pass the interlocks to perform the first tests if required. Within 10 days it should be possible to perform the first tests with stable beam. Frontend11 (HRS) is still at the Offline2. The 65kV HV test were successfully passed. Control issues were also identified but these are not detrimental at this stage. Frontend11 should arrive in the ISOLDE hall the first week of November.

2. MEDICIS :

- Description: Following an inspection rust has been spotted on the rails of the MEDICIS transport robots. A proposed solution is to cover the rails with a gold plating but time is of the essence (intervention should happen by Mid-November). Various test with Sm beams were performed at MEDICIS. Next week 155Tb collections will be performed.

3. UCx preparation :

- Description: The carbonation of Uranium batches is still ongoing. We should now have enough to build about 10 targets for next year.

4. TAPE STATION :

- Description: The leak reported last week was investigated by Razvan and Sebastian Rothe. The vacuum easily went down to $1e-5$ mbar but one has to follow the evolution over time. They are contact with the vacuum group and will continue follow up on this issue.

5. HIE ISOLDE :

- Description: REX-beam commissioning is ongoing. The REX RFQ was calibrated using the Si detectors installed in the XT01 beam line. Aligning work is ongoing after installing the Si detectors in the XT02 and XT03 beam lines. HIE-ISOLDE is still suffering from thermo-acoustic vibrations which make the cavities tripped occasionally.

6. HRS upgrade

- Description: The HRS controls upgrade will be pushed to LS3.

7. GLM/GHM upgrade:

- Description: Concrete blocks are appearing around the GHM and GLM beam lines. The paint work is continuing.

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, discussions are still ongoing.

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. Next week the seminar will take place physically in the main auditorium at 3 o'clock.

SEMINAR

3. A seminar entitled “Gamma-MRI: towards high resolution single photon imaging using highly-aligned gamma-emitting nuclei” was presented by Karolina Kulesz (PhD student in Magda’s group).