

ISOLDE Physics Group Meeting minutes

Location: The meeting was held remotely via ZOOM

Date: 29th October 2020

Time: 14:00-14:30

TECHNICAL NEWS

1. FRONTENDS/TARGET AREA :

- Description: GPS stable beam is now knocking on various beam line and the operators are now finishing testing the beam diagnostics tools in the low energy part of ISOLDE. FE11 is being prepared in Offline2. Sparks are still a problem around 60kV.

2. MEDICIS :

- Description: ^{167}Tm collection are ongoing and the collection efficiency is good (~ 45 %). Sm and Tb collections will follow in the coming weeks.

3. TAPE STATION :

- Description: There are no end-sensors for the new tape stations. It needs to be implemented. The work on the tape station software is ongoing.

4. HIE ISOLDE and ISOLDE commissioning:

- Description: The repair of the 9 gaps amplifier is finished. The issue with the superconducting cavities is improving but not solved. The acceleration is still performed using an accelerating gradient whose magnitude is smaller than in 2018. We are now 4 weeks behind schedule. The REXTRAP commissioning using ^{20}Ne is going well. Phasing of the SRF cavities is ongoing with 7 left for next week. There are still numerous problems with controls and diagnostics which are being debugged by the operations team.

5. GLM/GHM upgrade:

- Description: The last concrete blocks should be put in place tomorrow.

6. RILIS:

- Description: RILIS is preparing for laser ionisation tests with Sm beams. They are also working on testing a new layout for the PI-LIST design.

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. There was a water issue at the old entrance again despite the installation of the water pump.
3. Next week is the INTC open session on Tuesday, so there will be no ISOLDE technical meeting. Wednesday is the closed session and a short physics group meeting will take place later that afternoon. Thursday is the next meeting of the ISCC.

SEMINAR

1. A seminar entitled ‘WISArD: Searches for exotic weak currents’ was given by Victoria Isabel Araujo Escalona from KU Leuven (PhD student with the WISArD group).