

## Minutes of the ISOLDE Physics Group Meeting, 5<sup>th</sup> of Sept 2018

### Technical news

It was a dense program on Tuesday and Wednesday from operations point of view.

- **General**
  - GHM fumehood is being installed.  
Should be operational for Hg beamtime at the end of the month.
  - Provisional schedule for end of the year has been sent out  
Last few weeks are provisional. Until 3rd of Nov, it's already fixed.  
Winter physics are still to be scheduled – RP discussions will decide.
  - Campaign started with the new tape station yesterday.  
Developments of this device are ongoing.
- **GPS**
  - Wednesday night the measurements of  $^{11}\text{Be}$  at 7.5 MeV/n in the TPC of Warsaw with visual radioactive decay started. The experiment went very well. The goal was to look for b-delayed protons.  
Hoping to see 30-40 protons in post analysis.
- **HRS**
  - After the GHM and TPC experiments, it is time for Sn transfer reactions. First time since 2012. First time that T-Rex will be operational in full configuration ever!  
The beam is quite difficult to produce however.  
Hopefully the radioactive beam will be there tomorrow
- **RILIS**
  - Berillium issues: Be ionization scheme went a bit less stable than expected. Many interventions were needed.
  - New chiller has arrived
  - Setting up for Mn and Mg following weeks.
- **Targets**
  - #641 will go online: UC for Mn mossbower
  - Antimony-beams target for collaps is being prepared.
  - SiC target for Mg experiment is already done
- **MEDICIS**
  - Back after few weeks of downtime
  - Magnetic probe being tested. Work ongoing.
  - Few irradiations ongoing during next week. Maybe 15 mins interruption during collection and 30 mins for change of target
  - Fire alarm went off. Quartz tube broke and this gave fire warnings.

## Physics

- last week : CRIS measured down to  $^{103/104}\text{Sn}$ . Up to  $A=124$  as well. Tricky to get going but in the end quite some data was gathered. Finished last Tuesday.
- Wednesday night  $^{11}\text{Be}$  at 7.5 MeV/n TPC of Warsaw with visual radioactive decay. Went very well.
- Ongoing: GHM, continuing study on Nitride semi conductors. This time measurements with Berilium were planned. Finish tonight or tomorrow.
- Next days: DP on  $^{134}\text{Sn}$ , exploring single-particle states in  $^{135}\text{Sn}$  where nothing is known. Goal of providing data for R-Process and shell-model calculation constraints. Hopefully it can be a landmark experiment. Stable beam last night for debugging helped a lot.

## Safety

- Website for scheduling will be down for 1 week next week. Email has to be sent to CERN safety if you want to schedule a safety training.
- Fire alarm went off in MEDICIS. Fumes from an overheated oil pump were detected after an accidental venting.

## Visits

- Friday is very busy. Many different visits are planned. Guides have been allocated and Hanne has prepared well and informed them in advance.
- EMIS visits are planned as well. – Please clear the pathway before these visits continue.

## AOB

- Call for volunteers for researchers night Friday 28<sup>th</sup> of Sept. for the ISOLDE stand. A bar and food trucks will be there as well. Official opening of the esplanade. Mail will follow.

## Seminar

- The PGM was followed by a seminar of summer student Edith Baader with the title:  
“A GUI for controlling the Drive system at ISS”.

The next PG meeting will take place on Wednesday 12<sup>th</sup> of Sept at 14:00 in the ISOLDE visitors' room (26-1-022).

Minutes taken by SMS