

# Minutes of the ISOLDE Physics Group Meeting, 1<sup>th</sup> of august 2018

## Technical news

### - General

- Old target station broke down.  
In the previous minutes, it was reported that the new tape station was ready to be used. This does not seem to be the case however.  
An intervention is scheduled on Tuesday.
- During the weekend, a CERN-wide power shutdown. Isolde and the PSBooster ere also affected. On Saturday evening, ISOLDE was ready to take protons again, but it took until Sunday afternoon that the Booster was able to send protons again to ISOLDE.

### - HRS

- Miniball experiment using HRS and HIE-ISOLDE took beam during the whole of last week.
- First beam from Wednesday afternoon 222 Ra at 4.3 MeV/u  
Switched to 228 Ra at 4.3 MeV/u from Thursday evening until Friday morning.
- 138 Ba was used to tune the LINAC and 142Ba was delivered during the weekend at two different energies (4.19 and 3.3 MeV/u).

### - GPS

- New target #665 was installed on Wednesday.  
Setup performed up to GLM with 40Ar.
- Collections were performed on 53Mn

### - REX/HIE-ISOLDE

- REX EBIS cathode is degrading and needs replacement.  
An intervention is planned during the CRIS run, when HIE-ISOLDE is not running.
- Last week, very successful runs on 222 and 228 Ra were performed. They started on Wednesday. On Friday, the beam was changed to Ba.
- On of the cavities was tripping every 15 minutes (84 trips in total!).  
A complete new rephasing of the machine will have to be performed where this cavity will be skipped. This will take a while. All future experiments will be affected in case they asked for maximum beam energy. A possible cause for the many trips might be the LHe cryo plant which is not yet stable.

### - RILIS

- All lasers have returned to RILIS. Setup for the Sn experiment has been started. Tests with the target will start the beginning of next week.

### - Targets

- A target has been installed for collections.
- The Liebe target is being heated right now and checked in the offline lab.

- **MEDICIS**
  - Collections planned, but radioprotection issues might not get resolved before the

### **Physics**

- Liam reported on the Miniball measurements of last week: 222 and 228 Ra were very successful. The octopole transitions were easily identified and they will be able to extract B(E3) values.
- Next week: More miniball on HIE-ISOLDE.

### **Safety**

- A few (non-crucial) alarms went off during last week. They were checked but nothing to worry about.

### **Visits**

- Two more summer-student visits planned next week. Guides have been appointed.

### **AOB**

- 4 new students were introduced to the group. We hope they have a great stay with us and wish them good luck with their research projects.

### **Seminar**

- The PGM was followed by a seminar of Hanne Christine Berg on the work she has done at CRIS during her stay as a summer student.

The next PG meeting will take place on Wednesday, 8<sup>th</sup> of August at 14:00 in the meeting area of building 508.

Minutes taken by SMS