

Minutes of the ISOLDE Physics Group Meeting, 25th of July 2018

Technical news

- **General**
 - New tape station up and running! Now needs to be fully tested before installation during LS2.
As part of every run from now, it will be used for characterizations.
- **GPS/REX/HIE-ISOLDE**
 - Krypton run went smooth, although statistics may not be sufficient for all the physics goals
 - Total Kr yield was not really great however and Kr to Mo ratio neither.
 - Friday switch to Rn run. Yields were excellent.
 - Sunday evening, miniball finished.
 - Collections of Xe were performed overnight
- **HRS**
 - No HRS runs were planned last week
- **RILIS**
 - Optical fibers to be installed.
 - Quiet time at RILIS due to holidays.
- **MEDICIS**
 - Irradiation for 149Tb collections was performed on Monday night.
Extraction started on Tuesday.
- **Targets**
 - On GPS #665 VD5 was used for separation and collection of 53Mn for nTOF
 - HRS: #637 UC W is being used for Ra and Ba runs at Miniball.
 - GPS: #632 ThC Vd7 will be used for Rn at Miniball.

Physics

- Miniball plans for this and next week:
Continuation of heavy Ra, Rn measurements of 2010-2012.
 - Measuring $^{222, 228}\text{Ra}$ (will be heaviest mass ever for Rex).
 - Later in $^{222, 224, 226}\text{Rn}$ next week on GPS.
 - Fr contamination will be seen.
 - Goal: Measuring B(E3) values for octupole deformation
 - Barium check will happen over the weekend.
- Joonas presented the results that were obtained last week at Miniball.
 - Measuring B(E2) values to test the seniority scheme
 - Target performed splendidly
 - ^{212}Ra at 4,35 MeV/u. Very high statistics compared to earlier.
 - Check at 3.8 MeV/u – Yields drop to half (= power of HIE-ISOLDE)
 - Unfortunate that they couldn't change the mass over the weekend as no operators were available.

- Xe collections at GLM and extractions at chemistry lab.
Project of gamma-MRI.

Safety

- Ana Paula is no longer Safety officer of HIE-ISOLDE.
Task will be taken over by EP and BE DSOs.

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AOB

- Leak detector broke again after only 1 day of operation. Contacted the company to fix it again. New one will be ordered next week.

Seminar

- The PGM was followed by a seminar of Eduardo Granados with the title: "Potential of Raman lasers at ISOLDE/RILIS".

The next PG meeting will take place on Wednesday, ..., at 14:00 in the building 508 meeting area.

Minutes taken by SMS