

ISOLDE Physics Group Meeting 17/10/2018

Technical news

Quite some technical input needed last week.

Heaviest beam at maximum gradient of HIE-ISOLDE. Quite challenging in general. SC changed on the fly due to LHC tests, they also blocked cycles for long periods.

- **GPS**
 - At on GANDALPH at GLM. Physics at this evening.
 - Monday afternoon everything was in place.
 - Some difficulty with tuning due to out-of-order quadrupoles.

- **HRS**
 - Beam delivered on Wednesday to ISS.

- **REX/HIE**
 - EBIS has been very unstable. Being looked into
 - Problem is thought to be due to the cathode.
(in and out of electrical contact?)
 - Intervention on ST03 for broken stripping foil.

- **Targets**
 - Last target of the year fro CaO started yesterday.
 - Rest is done for rest of year.

- **MEDICIS**
 - MEDICIS has been radiating for collections for hospitals and for the PhD work of Simon Stegemann.
 - Small issue of radiation hardness of the target container.
Other try next week.
 - Will afterwards also try a larger container to better catch the beam.

- **RILIS**
 - Edgewave laser failed on Friday during ISS run.
Spare taken from offline lab.
 - Humidity interlocks tripping at RILIS, fixed by Saturday.

Physics

- **VITO**
 - Will take positive radioactive ions after the negative ion runs of GANDALPH

- **ISS**
 - ^{206}Hg beam. ISS worked very well.
 - Some issues with setup (EBIS, Lasers), but not as bad in hindsight.

- At first, a lot of background, but by gating on the EBIS time allowed for removing the background by a factor of 400. Very nice spectrum!
- Energy resolution about 140keV FWHM.
- None of the states were known, 6-8 states were observed now.
- Target carousel was operating well, but had 1 small issue.

- **SSP**
 - This week, negative on GLM for GANDALPH. Electron affinities of At.
 - GANDALPH improved a lot since last try previous year.

Other business

- **Visits**
 - This week, not many visits.
 - Minister of Science of Spain is visiting next week.

- **Safety**
 - Protons on target automatic recording to spread sheet lost during the summer and hasn't been up since.

- **A.O.B.**
 - No information

The meeting was followed a presentation of Mikael Reponen from the University of Jyvaskyla: *"Recent laser developments at IGISOL"*

The following meeting will take place on Oct 24, at 14.00h in the ISOLDE visitors room.

Minutes taken by SMS