

ISOLDE Physics Group Meeting 31/05/2017

This weeks meeting took place in 508 to avoid the noise and take advantage of the air conditioning.

Technical news

- **GPS**
 - GPS target was not in good condition on the offline separator and is not ready for physics.
 - #513 backup target was used in its place and the B beams worked very nicely. Users satisfied with the yields.
 - 60 kV was not possible on the target due, probably, to leaking dehumidifier.
 - Run was performed with 30 kV instead, although not perfect was acceptable for IDS run.
 - There was a leak of SF₆ gas somewhere in the line as the bottle went from 2.0 bar to 0.2 bar in 2 days. This has to be improved and is being worked on.
 - At some point, the target anode went to OFF status but went to white and not red on the control screens.
 - Full trip of target HV also occurred, but control screens were frozen and still showed everything as green. It was finally resolved manually.

- **HRS**
 - COLLAPS target online on Monday, setup on Tuesday.
 - The beam tuning looked a little strange, tuning continued overnight.
 - In retrospect: most likely due to a disconnected power supply at the HRS front end. This was only discovered w/b 19th June.
 - The picoammeter on FC490 was exchanged, but there are still problems.

- **RILIS**
 - Al setup is ready and available.

- **Technical stop**
 - Technical stop went well and there was not disruption to the users.
 - Access to the dehumidifier at GPS was the biggest intervention.

- **REX/HIE**
 - ToF issues because pulsed electrodes have strange configuration.
 - Alignment and smoothing measurements due to be completed on Thursday. Data will be analysed to see if further intervention is required.
 - ISS magnet stand to arrive next week and surveying and drilling of holes to be completed. Magnet to be put in place w/b 12th June.
 - XT03 crane will be installed at the end of the week.

Physics news

- **IDS**

- ^8B decay experiment looking at breakup into α particles and possible p^+ decay.
- Particle spectroscopy setup was used with DSSSD+pad detectors for Si telescope that surrounds implantation point.
- Yields were as expected in the proposal after concern that they might be much lower.
- Lots of good data, showing indications of the high transition of interest.
- Work is now on going to analyse the full statistics data set.

A.O.B.

- **Scheduling**
 - Schedule is now published until early September. Wk33 still to be negotiated.
- **INTC**
 - INTC deadline is at 5pm, strictly, without exception.

Minutes taken by LPG