

TITAN General Meeting

Date: Tuesday, September 11, 2007 Time: 2:30 – 4:00

Chairperson: Jens Dilling

Minutes recorded by: Nina

Present: Jens Dilling, Vladimir Ryskov, Ryan, Ringle, Maxime Brodeur, Mathew Smith, Alain Lapierre, Thomas Brunner, Christian Champagne, Nikolina Ilic

Beam time

- First 2-3 weeks of November might get beam time from FEBIAD (probably night shifts)
- The problem with the possible mass measurement candidates listed below is isobaric contamination, would have to separate their masses in penning trap
 - ^{12}Ne (current mass known with 2×10^{-6} precision),
 - ^{17}F (current mass known with 2×10^{-7} precision)
 - ^{17}O
- Other mentioned candidates (^8L , ^9L , ^8He , ^{20}Na) not worth looking at

RFQ

- Although probe indicated everything is okay in the RFQ, it continues to behave strangely
 - The repetition rate is up to 100 Hz more
 - The arrival time of the pulses at the MCP is quicker than it was
 - Position pulse is moving around a bit
 - The pulse drift shoot is drawing really high current out of the power supply
- Plan is to sew it back up, start sending the beam, and see what happens
- Trying to get apertures put in and short box with it, but it takes 4 weeks for short box to be made, so a long box is going in for now
- We have 2 linear actuators, apertures will have to be ordered
- There might not be enough room to put the emittance rig back in the beam line, so it might be moved to the 10 inch flange

MPET

- The magnetic field where the Daly detectors were going to be placed has changed, so Maxime is doing a new simulation using a more recent magnetic field map
- Advantage of the Daly detector is that it has close to 100% efficiency
- Thomas will have to redo the design for the detector holders

- Tomas is ordering a metal gate valve to let beam into the detectors, and the plan is to install it on October 7

EBIT

- Coupling of electrodes was due to carbonization of the dry vacuum grease which needed for good thermal conduction
- The plan is to either clean the electrodes and reapply a smaller amount of grease, or prevent the electrodes from rotating and spreading the grease around
- X-ray detectors are on the way
- Christian is designing the RFA, and looking for a suitable mesh
- Christian cleaned the housing for the Einzel lens and daily detector

Other

- Might be able to get 5 cabins beside DLT
- Have to move out of the lab by the end of the month