

TITAN General Meeting

Date: Thursday Aug 09, 2007 **Time: 15:15**

Chairperson: Jens Dilling

Minutes recorded by: Cecilia

Present: Jens Dilling, Paul Delheij, David Lundy (from ISOLDE), Mel Good, Mathew Smith, Ryan Ringle, Vladimir Ryjkov, Maxime Brodeur, Alexei Bylinskii, Alain Lapierre, Thomas Brunner, Christian Champagne, Cecilia Leung

General Announcements:

1. Fri Aug 10 1:00pm scheduling meeting
 - Asked Jean-Michel for 2 more days of Li-beam. Prefer Nov or Dec
2. Beam time start Fri morning in 2 weeks (following B-NMR)
 - all beam days fall on days with proton cancer therapy, no beam to ISAC for 4 hrs.
 - need commissioning documents (RFQ ready, MPET beamline wait for approval, MPET need to obtain) & safety documents (for TITAN).
 - end of target's life. Will do Li-8 or Li-9 first. Can crank up to 75 μ A at later date.
3. Next 2 weeks, Mon/Wed/Fri quick meetings at 9:00am. (starting Mon, Aug 13)
 - before Mon, prepare checklist of what tasks are left prior to beam time

RFQ:

- Set up gill switch. Generating pulses- split atoms before MPET
- Open RFQ on Monday- snip capacitor, if doesn't work, reconnect again.
FIRM deadline: ready by 5pm Monday
- Making new 500 V cables
- silicon detector is below 10^{-7} (up from 10^{-10} yesterday)
leak test shows not leaking.
RGA determined predominately H₂O.
Right now at 2×10^{-8} & still going down. Will leave over weekend.
- PLAN = fix, deliver beam through (MCP at the end of) MPET
- Need put in cable from penning for acquisition.
- For now, using 5kV transfer energy.
Suggest start with lowest transfer E (1kV). Should be no problem for switching.
- Decided to stop ISAC beam when taking reference measurement
- For beam gate, investigate what ISAC offers? Computer control or manual?

MPET:

- Hopeless trying to make e- beam ionization work
need gate for time of flight spectra
- Magnetron excitation- peaks
e- beam generated = too large → Ion cloud = large
Aperture cuts into ions inside trap.
Since initial conditions poorly defined, t.o.f. measurements meaningless.
- 300 turbo died. Warrantee does not apply to pump crash?
Send pump back for investigation.
Dents from inside therefore nothing fell in
Got replacement pump from Dimo.
Chamber condition should return to 5×10^{-9} by Monday.
- PLAN: by Mon or Tues, 1kV Li- beam deliver to MPET
- Brian Lee install remote RF generator by Monday
Should have remote control over MIDAS parameters by beam time
- Data Acq. system developed at ISOLTRAP not compatible here.
Right now generate time of flight histogram, but useless for actual run.
- Data Acquisition:
For each step, MID files records TOF data, convert to data file (takes 5sec)
Ultimately, link TOF to map frequency

EBIT:

- 3 small bellows from Sikler lens housing damaged. Shop fixed
- Dan started working on frame for EBIT ion source (need 2-3 weeks)
Also building cable for Germanium detector
- Controller for EBIT power supply installed, now commissioning.
- Switching modules- ready in 2-3 weeks
- Franco decided Dan will do detector design prior to ion source structure design.
Both same priority, same amount of work
- put table in same REA as test ion source?
- Thomas: played with PIPS & source last week
Know & understand signals. Like how they looked 😊
- Controller has been rebooted. System going up/down.
Look into implementing “prompt” before allowing to reboot.