

TITAN Meeting Minutes

October 14, 2010

Present: UC, AG, SE, VS, MS, BE, MP, PD, EM, ATG, MG, JD

EBIT – MS, ATG

- Cathode is being heated up
- It is possible to get beam to MCP0 in “bounce” mode
 - Not hard to find on MCP6, ~1 hour to get beam on MCP0
- Currently ~13% efficiency in bounce mode (extraction electrode and collector coil on)

- Steps: turn e-beam on. Start looking for higher charge states

- Interlocks:
 - PLC's will be built into system next week
 - e-gun control computer can stay in until the final switch over

- LABVIEW:
 - Can communicate with EPICS variables
 - Scan program will be helpful and convenient, but not necessary for upcoming beam time
 - Continue working so that the project won't stall

RFQ & Laser Spectroscopy – EM

- Switch box and supplies:
 - being installed
 - power supplies working, but the supply output is scaled up by a factor of 2. May need to wait for Jane Richards to get back from a conference to continue.
 - New fibre optic cables from RFQ so that RFQ doesn't need to be powered down when switching between forward and reverse extraction

- Gas purifier – still on its way

- Phase locking between RFQ and MPET clock
 - should be easy to do with the new PPGs

- New ion source holder is built as per Mel's drawing

- Reverse extraction works
 - Can see beam on all 3 MCPs, and through the 1mm aperture
- Check the neutralization efficiency of sodium cell
 - Can take beam periodically on Monday for tests
- DAQ/Analyzer/Roody improvements underway
- Laser scanning supply is broken
 - Naomi is looking at it.

- Could get a supply from McGill if all else fails

CPET

UC

- baking set-up is complete and warm up is started
- elog is up and running (<http://titan01.triumf.ca:8081/>)

VS

- Working on important projects that are critical and have approaching deadlines
- Prototype for electrode switching to test requirements for power supplies

- Re- Lab clean up
 - Boxes and parts have gone missing. We need to find these for when CPET starts to be put together

- Reviewing REAs so that the bigger pieces can start to be built at end of year
- Machine shop has not started on ceramic pieces. JD and MG to ask about their status.

BE

- Simulations including synchrotron radiation have been performed
- Seems to have no effect. Longer time steps are being used to see if this has any effect.

PD

- the filling needs to be done this month
 - have seen snow before, most likely coming from the dewar.
 - Mel needs to install filters on the transfer line
 - May or may not be done this month due to time constraints
- Same applies to MPET, but MPET filling doesn't need to be done for a few months

MG

- Detailed drawing of maintenance table completed
 - A few things need to be changed

MPET – SE

- RFQ breathing seen even with few ions/shot

- Begin with K from the new source, then switch to Rb

- Control cables for the new valves have been completed. Will be installed soon

Clean-up

- One or two more sessions before the upcoming beam times
- Still Tuesdays at 1530