

TITAN meeting

July 22, 2010

Present: Jens, Dave, Matt, Thomas, Ryan, Paul, Max, Thomas, Stephan, Vanessa, Ernesto, Usman, Tim, Benjamin, Spencer, Martin, Mel

RFQ

- Switch box: Daryl broke a switch at 10kV → rescue remaining switch and put it back in box
- Pulsed drift tube: stable for the past week
- RF PSD: timed-out twice in the past week. Cause of failure is still unknown
 - results in opening HV cage and resetting VME works → sometimes tune-setting will be different and retuning at MPET side is required

MPET

There were problems with tune-settings over the last week. Good tuning (dipole resonance) on Thursday, but then suddenly everything changed. Something was not stable and stabilized after 4 days again.

- bad tune due to RFQ resetting
- real dipole resonance depleting
- working on reducing the kicking voltage to optimize and see if the resonance is still there
- stability tests: does the position of resonance changes with time?

What is causing instability? magnet, RF or something else

-next steps: Improve tune and gain matching. Look if quadrupole resonance is there, then move to OLIS beam

MPET magnet problems:

There is an ice blockage in both stacks. Therefore the pressure regulation is turned off.

- no filling with liquid Helium possible → quenching at one point, no gas can get out
- pressure changes could result in magnetic field changes

Mel would like to modify the stacks to stabilize the pressure for a more stable system for beamtime

-bleeding out some gas

Since this will help for now, fix the magnet and prevent quenching when needed, preferable after beamtime.

Beamtime:

Shift mode for the beamtime:

Night-Shift (8pm – 8am): Max, Dave, Thomas, Vanessa

Day-Shift (8am – 8pm): Ryan, Ernesto, Jens, Stephan

4am – 4pm: Paul

4pm – 4am: Matt

All other people: please talk to Stephan to coordinate your contribution

→**Moving to shift mode today, starting tomorrow**

Goal of beamtime: mass precision measurement of ^{74}Kr . If precision is not as good as hoped, we could measure something else. "A lot comes out of the ion source"

Today: 3pm INPC party