

Minutes TITAN group meeting

Thursday, July 29th 2010

Present: Jens, Ernesto, Paul, Mel, Spencer, Benjamin, Usman, Martin S., Thomas, Tim, Vanessa, Stephan, Mat, Dave

1) Beamtime debriefing (Stephan)

- First resonances seen on Friday up to Rb85
- System is jumping around at higher masses
- Resonances with OLIS, but only for few minutes, system then started to jump around again
- System was stable for a while when the beam gates were installed
- Something in the system is drifting, need ideas on how to identify the source

2) Post beamtime

- Stephan made some measurements/ overnight scans. TOF distribution is getting worse every ½ hour and resonance completely disappears after 2 ½ hours (Tuesday scan)
- Next overnight scan, TOF was stable the whole night. Only small drifts observed (not unusual).
- Thomas set up labview system to control MCS to display integrated values over time @ 1Hz. RF turned off at midnight, after turning back on the displayed values jumped up and MCP0 current increased from 2mV to approx 8mV. Stayed rel. stable again after then, Ernesto said.

3) Ideas

- Need more diagnostic tools (Jens)
- Something is probably charging up in the beamline and therefore causing drifts (Stephan)
- Simion simulation of the whole beamline (Jens)
- MCP plates need to be replaced (Thomas)
- Mat, Vanessa, Martin, Usman, Spencer, Tim, Mel, Paul and Jens will be present for next beamtime

4) RFQ (Ernesto)

- Pulsed drift tube stable for past week
- RF PSD timed out last night, resetting on epics sufficed
- Daryl is redesigning control board for switch box
- 4 glassman supplies arrived, 4 more behlke switches on order

5) Misc

- Tim & Spencer will prepare talks for some next meeting
- Martin will pick up the new titan computers with Tim