Minutes of the TITAN Meeting

Held on the 2nd of August 2007

Present: Alexei Bylinkii, Maxime Brodeur, Christian Champagne, Paul Delheij, Melvin Good, Ryan Ringle, Vladimir Ryjkov, Mathew Smith.

RFQ

*Mathew put an extra MCP in the ISAC beam line below the RFQ, which allowed to properly tune the beam towards the polarized beam line.
*We observed fluorescence of Li-7.
*Now we are pulsing in the forward direction. There is still a slow raise time, but the new RF and DC coupling system can remedy that. We got the beam up to the MCP in front of the MPET vacuum section.
*We will mount a silicon detector (borrow from Thomas) in front of one of the steerer before the MPET vacuum section. Will also add an aluminum foil (where the ions will implement) to don't overload the detector.

Note: There is a need to discuss with the control group about implementing the different MCP power supplies control and oscilloscopes in EPICS.

EBIT

*Chris found a missing welding mark on the Sickler lens housing chamber. Since one of the welders is on vacation, it cannot be done before next week.
*We receive some of Cecilia's detector pieces from the machine shop.
*Thomas got a bigger signal from the silicon detector by moving the detector closer to the source.

MPET

*Vladimir took some axial extraction spectra of ion produced by the e-gun inside the MPET by looking at the number of counts vs time. It gave very noisy spectra.
*Afterwards, we look at the TOF spectra after axial excitation and we got cleaner spectra, where we could identify water, but no hydrogen was observed.
*Then, we perform a magnetron dipole excitation for certain time and we observe some resonance.
*Now, we are applying cyclotron dipole excitation and try to clean portion of the TOF spectra.
*Vladimir thinks the reason why no hydrogen was previously observed was due to their bigger recoil by electron impact. A decrease of the trapping potential allows to see the hydrogen.
*The plan now is to continue to do some cyclotron excitation tomorrow and on Tuesday we will proceed with taking pulses from the RFQ.