Minutes of the TITAN Meeting

Held on the 8th of July 2008

Present: Maxime Brodeur, Thomas Brunner, Christian Champagne, Paul Delheij, Jens Dilling, Stephan Ettenauer, Melvin Good, Alain Lapierre, David Lunney, Ryan Ringle, and Savanna Shaw

RFA:

Christian showed plots of the RFA testing (with ^{6}Li and ^{7}Li). The very first two runs included a strange drop which is not understood, but did never occur afterwards again. Tests were done for DC beam through RFQ as well as in bunched mode with gentle and hard kicking. Christian also observed a focusing effect which he has confirmed by SIMON simulations.

Future plans: confirming energy characteristics also with Na, reducing the pressure in the RFQ, maybe hydrogen as buffer gas, space charge limits, explore resolution of RFA by reducing energy

Switch:

After the long weekend no beam came through any more although there haven't been any problems when the system was shut down before the weekend. Switch was opened up and loaded with 1 kV, but only 300 V with a saw signal on top were seen on the scope. When switched the voltage did not go to ground but the saw signal remains to be observable. It is completely unclear why the switch broke. For now the 20 kV switch will be installed.

EBIT:

Vacuum commissioning was planned for last week, but Mike was to busy and it was delayed to this week. In the meantime an Alcatel controller broke which makes it impossible to measure low pressures. In this condition Mike won't do the vacuum commissioning. Among the options to proceed were to wait for a replacement controller, to borrow one from Jens Larsen, or to change to a different controller system. A decision was made to follow later option.

Power supplies for the switch yard have to be installed which will be done in the beginning of August (due to vacations of some people involved in the installation). For that purpose some receptacles have to be moved.

EBIT detectors

Tig10 cards will be used.

MPET

Maxime completed the last systematic tests with scans of ^{6}Li versus ^{7}Li at 5 Hz and 10 Hz. Analyzing all systematic tests showed a shift in mass of 6 ppb between 1 Hz and 10 Hz, and a total systematic uncertainty of 11 ppb (compared to 0.4 ppb statistical uncertainty for the He measurements).

During the last test the conversion factor suddenly jumped. That cannot be due to the magnetic field drift, but maybe due to RF instabilities.

The Daly detector won't be installed at this point because of other priorities.

Channeltron
Noise was seen again on the channeltron, so maybe (some parts) are still alive. To check that Olis beam would be required.

Future beam-times
Caused by problems with the target chances in the beam schedule are likely to happen although no decision was made yet. So, MPET should be prepared to be ready for measurements before August 18th.