Minutes of the TITAN Meeting

Held on the 29th of July 2008

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

RFA Measurements:

Last week Christian performed RFA measurements for different gas pressures in the RFQ. For higher gas pressure the number of counts goes down, but when normalized no differences can be seen in the plots (except very small ones in the end)

At 4.5 keV Christian could see a spike just before the beam starts to drop. This could be explained by a focusing effect when the beam is electrostatically pulled around the mesh and more ions hit the detector. But this effect should be linearly depending on the beam energy, but it is only seen for 4.5 keV.

Christian also investigated the influences of the kicker and big differences were seen. The beam was again very unstable.

Switchyard and MPET:

Both beamlines are again pumped out. Beam could be brought to the MPET, but some hardware changes were made and the MPET is out of commission for a few days.

The MPET will be opened to remove some parts (needle valve, 1.33 flex hose, and block valve), which were (and will) never be used in the MPET, but are needed for the EBIT.

EBIT:

Convectron gauges have not arrived yet, but are expected to come within the next days. As soon as they are here and installed, the commissioning can be completed.

Simulation of Lorentz Steerer:

Savanna found the problem of last week's simulation. The results of the corrected simulation agree with Ryan's analytic expression.

Beam Request:

Due to actinide target tests and some water leaks only one target module is currently operational (with SiC or Ta target). Possible measurements are thus only ^{10}C, ^{14}O, or ^{38m}K.