

Minutes of the TITAN Meeting

Held on the 27th of November 2008

Present: Florian Apfelbeck, Maxime Brodeur, Paul Delheij, Jens Dilling, Stephan Ettenauer, Melvin Good, Alain Lapierre, and Ryan Ringle

EBIT:

- x) Table for big Ge-detector (drawing by the end of the month including reproducible positioning of the detector)
- x) interlock system for E-Gun (will allow EBIT running un-manned), HIGH PRIORITY
- x) Labview controls to EPICS

next:

- x) focusing on extraction & injection in a systematic way; a measurement list will be set up.
- x) afterwards: emittance measurements; bracket to mount the MCP on the emittance meter is in the pump chamber

gamma background

When pointing the Ge-detector away from the EBIT, Th-234 lines are not as strong any more while other peaks are present, which are from isotopes in a gas state. Maybe there is Th in the filament of the E-Gun or in the ion gauges. It is important to find out where the background is coming from because in the U-238 chain there are many x-rays around 12 keV (difficult to measure EC-BR of Se-82).

MIDAS

Events with event identification 'a' were found for cases in which it should be '8'. The origin of this problem seems random. Paul will look into that and will talk with DAQ group if necessary.

MPET:

K-41 and K-39 were investigated and some discrepancy to the literature was found. However, uncertainties on the literature values are rather large. In the next test, H₃O and Na will be addressed for which the masses are known with higher precision.

EBIT & MPET:

Losses of EBIT beam after the bend are not completely understood and work will continue. Life time measurements of HCI in the MPET (O and N from EBIT) are planned.