

Minutes of the TITAN Meeting

Held on the 13th of May 2008

Present: Jens Dilling, Maxime Brodeur, Thomas Brunner, Stephan Ettenauer, Melvin Good, Alain Lapierre, Ryan Ringle, Savanna Shaw, Mathew Smith, Vladimir Ryjkov.

Next beam time preparation

- *The ionization tube is fixed. The cyclotron is repair and will sent proton to ISAC tonight.
- *Beam from the FEBIAD can available this week-end, but unless we can have yield measurements, we may not take the beam.
- *We will need to discuss under which condition we would take the beam.
- *We can get Mg beam from FEBIAD.

MPET

- *The RF amplifier was at the boarder last week, but we haven't got them yet.
- *Depending on when we get the amp we will either use three or four amplifier configuration for the dipole RF cleaning.
- *There are three possible cleaning methods:
 - SWIFT: this is a broadband cleaning that is very inefficient in term of the RF power.
 - Program few sine wave in one AWG: the arbitrary waveform does not seems to allow that. Induce aliasing of the waveform?
 - Use several AWG to sent signals of selected frequency (from expected contamination). This will be the option we will use.
- *In the FEBIAD beam time, possible contaminant would be: Li6 for He6, F17 for Ne17. In the case of He8, this should be clean, as Li8 can be resolve from ISAC mass separator.
- *Maxime founded that the 1 Hz vs 10 Hz rep. rate frequency shift was not 'real' and only a consequence of low statistical sample. This shift goes away as more measurements at 10 Hz are done. The data for these measurements can be founded in the e-log entries 139,140.
- *Injection in the MPET was founded to depend on the rep. rate, i.e. the voltage on the injection DT and the steerer prior to the LS are different at 10 Hz and 50 Hz. Max founded the settings at 50 Hz and will now work on the settings at 10 Hz.
- *Once done with the injection optimization, Max will study the effect of going for deeper trapping on the TOF distribution spread.

EBIT

- *Mel is working on the vacuum system.
- *Alain work on the ion source.
- *Chris re-did his analysis using Gaussian distribution instead of Maxwell-Boltzmann. He also did some SIMION simulations where he varied the beam incidence angle on the RFA grid and founded that 30 degrees incidence best explain the asymmetric slope in the recorded data from the RFA (wierd!).