# **Minutes of the TITAN Meeting**

Held on the 21<sup>th</sup> of April 2008

**Present:** Jens Dilling, Maxime Brodeur, Thomas Brunner, Christian Champagne, Melvin Good, Gerald Gwinner, Zunjian Ke, Ryan Ringle, Wei Shi, Mathew Smith, Vladimir Ryjkov.

## **RFQ**

- \*The 'Vladimir cup' is now installed on top of the faulty nipple. The vacuum in the switchyard section 2 hours after installation was 7.2E-9 Torr (with all gate valves closed).
- \*The MCP0 is still sparking when going above V(A) = 1700V, V(B) = 1900V.
- \*The beam was tuned at 1 keV beam energy, HV(RFQ) = 28 kV.
- \*Total jitters are 5-8 mV for 30 mV amplitude pulses.
- \*The RFQ was operated at 1, 20 and 100 Hz and no sensible change in the jitters were observed.

#### **MPET**

\*Max & Vlad will perform systematic measurements using the Li6-7, Na23, K39 beam from the ion source. The first test will consist to see if the measured cyclotron frequency depends on the number of ion in the trap. Purpose: try to explain the non-linear dependence in 'mass dependent' shift.

## Beam time preparation

- \*The observed yields are: 600 000 Be-11, 25 (!) Be-12, knowing that the previously observed, 'book' yields are: 2 000 000 Be-11, 3 000 Be-12. The proton current is 40 uA. \*The Be-12 yields are non-optimized, but we cannot expect them to go up by more than a factor of 3 to 5.
- \*Our target for this run: get to measure Be-12 at low yield.
- \*Suggested preparation for low counts rate includes:
  - Deeper trap (20 V)
  - Higher rep rate (50 Hz)
  - Go at higher beam transport energy (2 keV)

### **Coller Trap Status**

- \*Magnet to be fired up.
- \*Depending on the budget, the cooler trap may have to be tested using HCI from TITAN's EBIT.
- \*The whole trap structure design drawings are ready to be sent to the shop.
- \*Testing setup will include both electron and proton cooling scheme.

<sup>\*</sup>Freidhelm said that we can have both C-12 and N-14 OLIS beam for the run.