

# Minutes of the TITAN Meeting

Held on the 16th of December, 2009

**Present:** Maxime Brodeur, Thomas Brunner, Jens Dilling, Stephan Ettenauer, Melvin Good, and Vanessa Simon

## **U-target:**

Almost certainly we won't get beam from the U-target.

## **Plans for the Shutdown:**

### Platform extension:

The work for the platform extension will most likely start in the 2<sup>nd</sup> week of January.

### CPET:

Since CPET won't be ready, we will not prepare the beamline for the CPET and the transfer beamline stays in place.

- x) Vanessa is currently performing simulations of the electron injection into the CPET.
- x) one new 6 way cross will be ordered
- x) design of diagnostics (F/cup and MCP) for e-source

### MPET:

We will open the vacuum and will

- x) put in the **Daly detector**
- x) **move back the MCP to the cross**
- x) **add a gate valve after the MPET** such that MPET and detectors are in two different vacuum sections and broken detectors can be quickly replaced. This will also require an additional **convection gauge** for the MPET section to avoid opening the gate valve (and breaking a turbo pump) when the vacuum is bad in the MPET section.
- x) **Place a 500 l turbo pump on top of the cross with the detectors**
- x) **possibly add a second gate valve in the vertical section** to separate detectors and the ion pump. Again we will need an additional **convection gauge**.
- x) add **electrode structure**

We decided that we will not add a second spare MCP for the moment: If we get the Daly detector working, we will have two independent detector systems for online runs. If the Daly does not work, we will remove it and add a spare MCP. In this configuration we can use Thomas' design for this part of the beamline.

### RFQ Pulsed drift tube:

- x) We keep the 20 kV switch for the moment
- x) Possibly, the setup of the switch will be slightly changed in case we realize something should be improved or changed.
- x) We will use the new 60 kV- high stability – low ripple power supply, limit it to 20 kV and use it with the current setup. The upgrade to the 60 kV switch requires a new cage and probably also a change in the circuit. This will be designed at a later time.

x) Replace the plastic feed-through with a ceramic one

**RFQ:**

Vacuum in the RFQ section will also be opened to

x) Fix the gauges which are currently not working (and put them on the right place in epics)

x) Seal of lid for RFQ: Possibly install an Indium seal. But since it is not really possible to bake Indium either, Indium might not be so great.

x) Repair FC2 and MCP in bend

x) Install emittance meter after first bend. We plan to perform RFQ emittance measurements (without using the RFQ PLT ).

Stephan will put together a ToDo list and timeline for the MPET and RFQ related talks.

**Whenever a beamline is opened: Please make pictures and put them into:**

[\\trshare\public\titan\public\\_html\intern\archive](\\trshare\public\titan\public_html\intern\archive)

**Conferences & Workshops:**

Registration for SMI-10 (March) will open soon. Please look and see if and why you would like to go.

**Webpage:**

x) Add pictures for all grad students

x) Vanessa or Aaron should slowly take over responsibilities for the webpage from Thomas.