Minutes
TITAN group meeting

9th September 2010 ISAC-II conference room @ 1 p.m.

Present: Jens, Matt, Thomas, Stephan, Martin Simon, Benjamin, Aaron, Martin (junior), Ernesto, Usman.

FRQ

Ernesto

Switch box and supplies for YCB3N/YCB3S: Dave Morris is taking care of the change on EPICS controls, canbus controllers expected by mid-september. Daryl has new control boards for switch box, one single box for both switches.

Gas: Mel ordered two new bottles, new purification system ordered.
FF PSD: Spoke with Don Dale, Darly Bishop. Will contact Michael.

New ion source assembly expected to be ready by Friday (10th September).
Venting polarizer line: Annika and Matt installed windows for Rb wavelength. This week sodium cell will be removed, PMT will be checked, collimating apertures for the light interaction region will be installed, beam will be aligned. Phil Levy is helping.
Diode laser: Laser locking needs to be implemented, Annika and Matt are looking into that.
DAQ and analyzer: System integrity need to be checked after b-nmr DAQ, looking into the analyzer/roody again

EBIT:

Martin Simon

First priority is to fix the transmission problem of RFQ. Have to work out detailed plan of fixing and then investigate.
Decision on the hardware necessary to bring the gun rack to epics has been made. Purchase can follow.
Getting beam from EBIT to MCP-0 (high count rate at MCP-6).
Timeline will be circulated soon.

Special meeting at 10:00 am tomorrow (Friday): Martin, Matt, Jens, Ernesto.

Thomas

Ordered parts for switch and gates. The detectors for electron capture branch ratio measurement were delayed (by one month).

Martin(junior)

Waiting for some components for beam-gate.

MPET

Stephan

For K39 vs Na23 measurement,
a. regular 10 Hz repetition rate shows 2 KeV difference from the literature with 0.5 uncertainty.
b. Without any dipole applied; For 47 ms (dipole not applied), 51 ms (quadrupole), data is not analyzed yet.

Two more systematic tests to be done;
a. Effect of Lorentz steerer.
b. Effect of different PPG settings.

Vacuum: Benjamin submitted the REA that will help organize the vacuum.
MPET beam-time preparation sent to Martin about what is to be done.
Baking: To be co-ordinated with CPET.

CPET

Usman

Brief report on electron injection is ready. In both high and low energies (electron energy) the injection is possible. 27 mm inner diameter for the steerer is a good choice. A "fatter" drift tube would be even better but is not possible due to diagnostic parts. Report is reviewed by Gerald. Gerald will send quotes for the power supply soon.

Benjamin

GSI HV switch: Deryl said he can help on this matter.
A report was prepared on electron cooling.
SIMION simulation shows that the electrons loose energy when the electrode potentials are switched!

At the end **Jens** added that in December (mid december), Uranium carbide target will be available, neutron rich K and Ca, Be, Al etc also possible.