

Beam development meeting 2009-11-25

Present: L. Merminga, J. Lassen, P. Bricault, M. Dombisky, F. Ames, G. Ball, B. Laxdal, J. Dilling, D. Kulp (phone)

Agenda:

- Implantation station for Al-beam (and general purpose implantation), Friedhelm Ames
- Towards routine actinide target operation in present target stations (up to 10 $\mu$ A), Pierre Bricault
- Beam development plans, Pierre Bricault
- On-line target ion/source needs for next year, Gordon Ball (postponed to next meeting)

*Implantation station for Al-beam (and general purpose implantation)*

Friedhelm: presentation of plans for general purpose implantation station (see presentation in the attachments)

After some questions, along the line of project charter sheet, personal involved, general timeline (when are the Al targets needed the latest for the run at Los Alamos?), some discussion took place how this project should be approached.

Identified as risk: proper ion optical calculations needed, and downstairs kicker needs to be useable after the collection station is installation.

M. Trinczek will be responsible for this project, and he will fill out a project charter sheet. A general timeline will be produced and evaluated, priorities will be given. This project will come back to the BDSG in its next meeting.

*Towards routine actinide target operation in present target stations (up to 10 $\mu$ A)*

Routine operation (possibly) with higher currents should be aimed for in the timeframe summer 2012. At this point the TRIUMF operation license needs to be renewed and it would be beneficial that at this point we should try to get approval to go to higher currents.

Marik is tasked with generating an updated plan for running UC (without LaC tests) @ 2 $\mu$ A. This plan includes the making of target, running, transport of target out of on-line position into hot cell, quick release, etc.

Marik will have the plan ready in late Jan 2010 for internal review. A review with outside experts at TRIUMF should be scheduled for May 2010.

The review will include hot-cell, remote handling, etc, which will allow operation of U-targets for the duration of the next 5 year plan in existing target stations.

Beam development plans incl. target ion source developments:

Some plans for target/ion-source were presented by Pierre. Pierre will follow up with this in an e-mail to give details on short-term and longer term developments, status and plans.