

# FETS – CERN MoU status

Juergen Pozimski

FETS meeting at Warwick

31 June 2013

**Visit by Rhodri on 16/17 July this year at RAL / RHUL.**

**Discussion of details for the MoU concerning the diagnostics subjects:**

### **Stripline BPMs from Linac-4 and DAQ**

\* The exchange of information and technical drawings concerning the LINAC4 60 and 72 mm stripline BPM design for the use at FETS.

\* Loan of at least one CERN Linac-4 stripline BPM for testing at ISIS.

\* The exchange of information and technical drawings concerning the LINAC4 BPM front end electronics for the use at FETS.

.... in principle Gary will alter some minor details on the boards to make some fine adjustments for FETS (frequency) but otherwise the layout used will be identical.....

\* The exchange of detailed information on fabrication costs for BPM and front end electronics as well as suppliers.

### **Laser based ion beam diagnostic**

\* The exchange of information and technical drawings concerning the Laser based ion beam diagnostic at FETS and LINAC4.

\* Participation of FETS staff in the experimental program concerning Laser based ion beam diagnostic at LINAC4. (autumn 2013)

\* Participation of CERN staff in the experimental program concerning Laser based ion beam diagnostic at FETS. (autumn 2014)

\* The pulse high power Laser (SN.....) available at FETS to be lend to CERN for 2-3 month from September 2013 onward  
.... I assume that Stephen will organize this subject very soon and further details added.....

### **Further subjects that could be considered / should be discussed**

Cover of costs that might arise from the different activities in detail.

- Travel & accommodation of CERN and FETS staff

-Transport of equipment. (shipping cost of BPM / LASER )

**=> Waiting for updated document !**

**In contact with Alessandra Lombardi concerning :**

### **Rebunching cavities**

\* The exchange of information and technical drawings concerning the LINAC4 MEBT bunching cavity design for the use at FETS.

.... in principle Peter wants to use some of the basic features from the LINAC4 cavities and add some alterations. Overall the cavities will look very similar at first glance and therefore Peter is keen to avoid misunderstanding and would like to get official permission from CERN. I assume he will also be interested in a visit to CERN to get a direct impression and for some clarifying discussions.....

### **Beam dump information**

### **Collaboration with LINAC4 in general**

## **Space charge compensation of high power H- beams**

- \* The exchange of information, codes and technical drawings concerning the subject of Space charge compensation of H- beams.
- \* Participation of CERN staff/ students in the experimental program concerning space charge compensation at FETS. (2013-2014)
- \* Participation of FETS staff in the experimental program concerning Laser based ion beam diagnostic at LINAC4.
- \* The lend of hardware for investigation of space charge compensation from FETS to LINAC4. (Details to be defined if case arises)  
.... rather flexible here, interest from CERN ? .....

⇒The final MoU document (~ 3 pages of general text) have to be signed by all FETS partners ! This might be a time consuming process in the case of FETS.

⇒Please warn your administration !