

## Minutes of the ILIMA collaboration board meeting, Nov. 30, 2012

Participants: Thomas Faestermann, Yuri Litvinov, Christophor Kozhuharov, Markus Steck, Xinwen Ma (via video conf.), Phil Walker, Helmut Weick

Proxy: Klaus Blaum to YL

Guest: Iris Dillmann

Apologies: K. Blaum, H. Geissel, S. Goriely, Z. Patyk, W. Plaß, D. Seliverstov, T. Yamaguchi, C. Scheidenberger

Minutes by TF

### 1. Membership and previous minutes

XW is now a member of the CB after an official letter from Lanzhou has been received.

In addition six more persons (Yuhu Zhang, Xiaohong Zhou, Yong Zheng, Xiancheng Chen, Youjin Yuan and Junxia Wu) from Lanzhou applied for ILIMA membership; approved by the board.

The last election of board representatives was in 2008. Thus new elections are overdue.

PW will call for nominations via email. To have a quick result, the voting can also be performed via email before the next board meeting.

After a brief discussion the minutes of the CB meeting of Feb. 18, 2012, were approved.

### 2. ILIMA's place in the FAIR-GSI project structure

For the interaction of FAIR with GSI a new structure has been created: FAIR@GSI (diagram attached).

Within the '*Stored Beams*' activities, lead by Markus Steck, there is a group: '*SPARC Detectors*', lead by Y. Litvinov. On the other hand H. Simon is leading the '*Rare Isotope Beams*' with a group '*Detector Laboratory*'.

CK reminds that GSI has within NuSTAR two core activities: R3B and ILIMA.

ID suggests to have the ILIMA detectors for the CR or the HESR encompassed in the *SPARC detector* group. The reason is, that the ILIMA detector development (Schottky pickups, ToF detectors and Heavy Ion detectors) are very specific to the environment of the rings and esp. the UHV conditions.

The board agrees to suggest to the division leaders H. Simon and M. Steck to rename the group *SPARC detectors* to *SPARC and ILIMA detectors* and to discuss how practically to organise the ILIMA-related work in the corresponding divisions. PW will send these minutes to H. Simon and M. Steck with a cover letter.

### **3. Schottky pick-ups**

YL: Shahab Sanjari has submitted his PHD thesis, dealing with the realization of the resonant pickup, to the University of Frankfurt. There is a good chance that he will continue working on such resonators at GSI.

CK remarks that the Schottky detectors fit well together with SPARC detectors.

Continued discussion about how many high-harmonics detectors will be needed.

In addition to resonators with high Q, there will be the need for a lower-harmonics resonator to differentiate between ambiguities and a detector for the transverse Schottky-noise.

MS remarks that real calculations are needed.

CK agrees to prepare a report with real numbers for how many pick-ups are needed.

### **4. ToF detectors**

Lanzhou has developed ToF detectors for their CRSe ring and have officially offered to provide two ToF detectors for ILIMA.

The board gratefully received this offer.

W. Plaß and X. Ma are asked to discuss how to collaborate on this issue.

YL: The Lanzhou student/postdoc (Xiaolin Tu) who built the ToF detectors will come to GSI in 2013 and could continue with this work.

HW: The Gießen group of W. Plaß is engaged in evaluating the optimum parameters for the detector and should continue these and similar studies.

The board sees the need for more discussions in small groups.

### **5. Other detectors (pocket detectors)**

ID: needs technical support from GSI but until now ILIMA detectors have no clearly defined place in the structure FAIR@GSI.

ID obtained about half of the BMBF Verbundforschung funds she applied for. The question arises whether the 2012 funds are better spent on vacuum equipment or on Si detectors.

CK remarks that the development in vacuum equipment is certainly slower, therefore funds are better spent now on vacuum equipment and later on Si detectors.

The board agrees.

TF reports that the TU München BMBF application for ILIMA detector development has not been approved (to keep the sum rules). However there is a new call to the German universities for GSI R&D funds, where ILIMA is in the list (published on Nov. 26, 2012) of projects where R&D will be supported. The TU München plans to apply for a PhD position plus some investment money, essentially for developing the readout of Si detectors. Applications to the GSI director are due by Dec. 7, 2012.

The GSI collaborators YL and HW as well as ID with her Helmholtz Young Investigator Group, and of course the ILIMA board, support this strongly.

## **6. Financial planning**

There is a strong need for an updated money matrix.

CK suggests strongly that a technical board meeting should discuss the new situation and assess the available funds (Projektmitelantrag (PMA) funds and Young Investigator funds).

HW raises the problem of MoU's that are partly outdated and should be renewed. He points out that MoU's may be helpful when presented to national funding agencies.

XM states that Lanzhou is willing to sign an MoU, but their contribution can be mostly in manpower and 'in kind'.

PW reports on a new version of UK funding for NUSTAR, *UK-NUSTAR 2*. He would like to apply for funding to develop Schottky detectors on the grounds that they are very important for isomer studies.

The board would welcome very much a UK contribution.

## **7. Schedule for TDR writing**

Nothing further to report.

## **8. Open meeting during NuSTAR week, 25 Feb - 1 Mar 2013**

There is a consensus that a kind of ILIMA symposium should be organized.

The ideal scenario would be an ILIMA session (3 talks) in the plenary programme.

PW will suggest this to the NuSTAR chairman T. Nilsson and the desired speakers should be proposed by ILIMA. One suggestion is Jacek Dobaczewski.

Board members are asked to make further suggestions for speakers.

## **9. Other conferences and workshops**

### **[513. WE-Heraeus-Seminar: Astrophysics with Ion Storage Rings](#)**

14.01.2013 – 18.01.2013, organized by Y. Litvinov, R. Reifarth, K. Sonnabend

Symposium “**100 Years of Mass Spectrometry (SYMS)**” at the spring meeting of the AMOP/DPG in Hannover, 18. - 22.03.2013, organized by Y. Litvinov, K. Blaum

### **[530. WE-Heraeus-Seminar: Nuclear Masses and Nucleosynthesis](#)**

23.04.2013 – 26.04.2013, organized by A. Arcones, G. Bertsch, K. Blaum

**10. Any other business**

none

**11. Date of next CB meeting**

Feb. 26, 2013, at the Annual NuSTAR meeting at GSI.