

# Minutes of the 59th Machine-Time Committee Meeting

Date and time: October 12, 2012; 13:30–14:20

Place: RIBF Bldg., Room 203

Attendees: Sakai<sup>a</sup> (Chair), Fukunishi<sup>a</sup>, Haba<sup>a,†</sup>, Henning<sup>a,†</sup>, Kamigaito<sup>a</sup>, Kase<sup>a</sup>, Kubo<sup>a</sup>, Motobayashi<sup>a,†</sup>, Nishimura<sup>a,†</sup>, Ueno<sup>a</sup>, Uwamino<sup>a</sup>, Wakasugi<sup>a</sup>, Yako<sup>b</sup> (in lieu of Shimoura), Yamaguchi<sup>b</sup>

Absent: Abe<sup>a</sup>, En'yo<sup>a,†</sup>, Miyatake<sup>c,†</sup>, Morita<sup>a</sup>, Sakurai<sup>a</sup>, Shimoura<sup>b</sup>, Uesaka<sup>a</sup>, Yoshida<sup>a,†</sup>

<sup>a</sup>RNC / <sup>b</sup>CNS / <sup>c</sup>KEK / <sup>†</sup>Observer

(in random order)

## Reports

### 1. Changes of the beam-time schedule (Ueno)

It was reported that the beam-time (BT) schedule for September–October was changed as shown below due to the trouble of the ion source and the power supply of the RRC main coil which occurred on September 20 and 26 respectively. In addition, two RILAC BTs were also tentatively scheduled.

Exp.-Prog.-Num.	previous	changed
<b>RILAC:</b>		
MS-EXP12-09 (Kaji)		(conditional) Nov 11, 9:00 – Nov 13, 9:00
ML1006-LINAC27-04 (Haba)		(conditional) Nov 27, 9:00 – Dec 1, 9:00
<b>AVF-RRC:</b>		
NP0709-RRC39-04 (Ishibashi)	Sep 19, 21:00 – Sep 23, 21:00	→ Oct 13, 9:00 – Oct 18, 9:00
ML1101-RRC30-03 (Fukunishi)	Sep 26, 21:00 – Sep 27, 5:00	→ Sep 28, 7:00 – Sep 28, 15:00
IB0702-RRC01-54 (Abe)	Sep 27, 9:00 – Sep 27, 16:00	→ Sep 28, 0:00 – Sep 28, 5:00
ML0901-RRC20-17 (Izumi)	Sep 27, 16:00 – Sep 27, 20:00	→ Sep 28, 15:00 – Sep 28, 17:00
IB0702-RRC01-55 (Abe)	Sep 28, 9:00 – Sep 28, 12:00	→ Oct 1, 13:00 – Oct 1, 16:00
ML0901-RRC20-21 (Izumi)	Sep 28, 12:00 – Sep 28, 18:00	→ Sep 29, 15:00 – Sep 29, 19:00
MS10-EXP12-10 (Hirayama)	Sep 28, 21:00 – Sep 30, 9:00	→ Sep 29, 22:00 – Oct 1, 12:00
RI0702-RRC04-09 (Haba)	Oct 1, 9:00 – Oct 2, 21:00	→ Oct 8, 9:00 – Oct 10, 17:00

### 2. RRC trouble (Kase)

Due to an electrical short circuit that occurred in the power supply of the RRC main coil on September 26, the BT schedule was modified as mentioned above. The investigation of the cause revealed that the short was due to a water leakage from a circulation route. The damage was temporarily repaired. After consulting with engineers of a company, the Accelerator Group decided to continue the RRC operation without proceeding with a full repair work. The BT operation has restarted after the modification of the BT schedule.

### 3. Status of PAC meetings (Ueno)

- 12th NP-PAC: A schedule for the PAC meeting was discussed as Topic 2 given below.
- 9th ML-PAC: A PAC report was sent to both the RNC and RAL directors on September 25. With regard to RIBF, the ratio of approved BTs to proposed BTs was 26.5 days to 51.9 days (breakdown: AVF 4/6, RILAC 11/31, and RRC 11.5/14.9). It was added that one proposal for an experiment using RILAC was approved as an “S” grade program for the first time.

## **Topics discussed**

### **1. Approval of the minutes of the previous meeting (Sakai)**

### **2. Schedule of the 12th NP-PAC meeting (Sakai)**

Taking into account the convenience of the PAC members, it was proposed to schedule the 12th NP-PAC meeting on June 28–29, 2013. The proposal was approved. It was noted that the schedule will be finalized by the CNS–RIKEN Research Collaboration Liaison Meeting.

### **3. Tentative two-year primary beam plan (Sakai)**

A tentative two-year plan of the primary beams to be delivered to BigRIPS-based experiments was determined, and also approved by the RNC deputy director as follows:

- 2012 Fall–Winter (Oct–Jan) :  $^{238}\text{U}$ ,  $^{124}\text{Xe}$  (, AVF-injected light charged particle (LCP))
- 2013 Spring (Apr–Jun) :  $^{238}\text{U}$ ,  $^{78}\text{Kr}$  (,  $^{48}\text{Ca}$ , & AVF inj. LCP)
- 2013 Fall–Winter (Oct–Jan) :  $^{238}\text{U}$ ,  $^{48}\text{Ca}$ , AVF-inj. LCP
- 2014 Spring (Apr–Jun) : *open*

### **4. Priority of the kind of heavy ions to be developed (Sakai)**

A development of the ion source to deliver high-current  $^{238}\text{U}$  and  $^{48}\text{Ca}$  beams which have been classified as the highest and second priority heavy ions, respectively, is in progress. The selection of heavy-ion candidates for the third priority onward has been carried forward from the last meeting. The Committee decided that to set priority, it was necessary to further discuss the beams which will be used in the future SHE research. The discussions on this issue will be continued

### **5. Termination of NP0702-LINAC12 (Sakai)**

Although the experimental-program NP0702-LINAC12 (Morita) had been approved without any limitation on the number of days of the BT, the MT Committee determined that the BT was completed. It was noted that a new program should be approved by PAC separately from NP0702-LINAC12.

### **6. AVF ion source operation (Sakai)**

The ion source of AVF has been operated by CNS under the joint RIBF management of CNS and RNC. It was reported that recently, the troubles related to the ion source occurred frequently during the delivery of new beams such as Rb and S, thus causing delays in the BT schedule. Discussions took place on how to improve the situation. Since this problem involves human resource management and development, it will be discussed at the CNS–RIKEN Research Collaboration Liaison Meeting as an issue concerning joint management.

### **7. Next meetings**

- The next meeting will be held on Friday, November 16, 2012, at 13:30
- The meeting after the next will be held on Friday, December 21, 2012, at 13:30