

Minutes of the 62nd Machine-Time Committee Meeting

Date and time: January 25, 2013; 13:30–14:50

Place: RIBF Bldg., Room 203

Attendees: Sakai^a (Chair), Aoi^{d,†,‡}, Fukunishi^a, Hirayama^{c,†} (in lieu of Miyatake), Kamigaito^a, Kubo^a, Nishimura^{a,†}, Ueno^a, Uwamino^a, Wakasugi^a, Kuboki^{a,†}

Absent: Abe^a, En'yo^{a,†}, Haba^{a,†}, Kase^a, Miyatake^{c,†}, Morita^a, Motobayashi^{a,†}, Sakurai^a, Shimoura^b, Uesaka^a, Yamaguchi^b, Yoshida^{a,†}

^aRNC / ^bCNS / ^cKEK / ^dRIBF-UEC / [†]Observer / [‡]TV Attendee
(in random order)

Reports

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

As reported at the previous meeting, RNC had attempted to schedule extra beam times (BTs) of the BigRIPS-based experiments for January. It was however, not realized mostly due to budgetary constraints. In related with this BT coordination, the RRC-use BTs scheduled for the end of January were shifted to February in advance. Details are given below.

Exp.-Prog.-Num.	previous		changed
RILAC:			
MS-EXP12-10 (Kuboki)	suspended	→	Jan 29, 9:00 – Jan 29, 21:00
AVF:			
ML1101-AVF32-02 (Yokoyama)	Jan 7, 9:00 – Jan 8, 9:00	→	canceled
RI0702-AVF04-36 (Haba)	Jan 30, 9:00 – Feb 1, 9:00	→	canceled
RRC:			
¹² C {	IB0702-RRC01-59 (Abe)		
	ML09011-RC20-22 (Izumi)	Jan 22, 9:00 – Jan 23, 4:00	→ Jan 31, 9:00 – Feb 1, 4:00
	ML1101-RRC30-04 (Fukunishi)		
⁴⁰ Ar {	IB0702-RRC01-58 (Abe)	Jan 24, 9:00 – Jan 24, 19:00	→ Feb 4, 9:00 – Feb 4, 19:00
	ML09011-RC20-20 (Izumi)		
⁵⁶ Fe {	MS-EXP12-08 (Hirayama)		
	IB0702-RRC01-57 (Abe)	Jan 26, 9:00 – Jan 28, 19:00	→ Feb 6, 9:00 – Feb 8, 19:00
	ML09011-RC20-23 (Izumi)		

2. Report on the regular official facility inspection (Uwamino)

The regular official facility inspection and the document screening legally required for radiation facilities were conducted by qualified inspectors authorized by The Ministers of Education, Culture, Sports, Science and Technology (MEXT) for three days on December 5–7, 2012, where all radiation facilities, the RI storage rooms, and the wastes treatment equipment on the Wako Campus were investigated. It was reported that the Safety Management Group made the following minor revisions on the safety control of the AVF operation in response to results of the inspection, and notified that effect immediately to the competent ministers of the MEXT.

- Proton beams at $E > 15.1$ MeV will be available at the current $I \leq 10$ μ A.
- The other beams will be available at $I \leq 25$ μ A

The radiation safety system has been modified so that the shielding door of the E7 room will be

automatically interlocked when an experiment is running using a proton beam at $E > 15.1$ MeV in the AVF room. This radiation safety control condition will be removed, provided that a local radiation shielding capacity around the AVF target position is increased sufficiently.

Topics discussed

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

2. Review of BT requests in the Machine Study and Detector Development categories (Sakai)

Continuing from the previous meeting, a new BT request for the first half of FY2013 in the Machine Study (MS-EXP) were reviewed through interviews and a presentation by the representative. The outline of a beam acceleration test (MS-ACC) by the Accelerator Group was also explained. After discussions, it was determined that the following requests be approved. The BT scheduling for these programs however, was discussed in the topic 3 below, separately from this approval.

Category	Spokesperson	Device	Beam	E/A (MeV)	Current (pnA)	Request (days)	Result
MS-EXP	Kuboki	RILAC	^{238}U	1.45	10	1.5	Approved
MS-ACC ^{*1}	Kuboki	RILAC	^{136}Xe	1.6	max	0.5	–

^{*1} MS-ACC is the category set for the beam-acceleration tests by the Accelerator Group. The programs in this category as well as the beam acceleration in the usual accelerator operation are not required to be reviewed by the MT Committee and the Safety Committee. MS-EXP is the category for other R&D studies of a basic component regarded as a key device of the RIBF facility. These BTs are not open to users.

3. BT schedule for the FY2013 second half (Sakai)

A plan of the BT schedule for the second half of FY2013 (from February to the end of September, 2013 to be precise), proposed by the User Liaison Team (Ueno), was approved by the MT Committee. It was noted that the RIBF operation for the BigRIPS-based experiments will start from April 3, and continue until the end of June, 2013.

4. Outline of the BT schedule for the FY2013 second half (Sakai)

The list of primary beams and the outline of their time allocations for the second half of FY2013 were discussed for BigRIPS-based experiments. In the discussions, the required and prospective electric powers for the RIBF operation were discussed. Furthermore, the construction schedule of SLOWRI and the beam transport line from IRC to the former RARF facility area (so-called “Return Beamline”), to which the budgets have been allocated, were explained. (Note that the budget in the latter program includes the cost of a new beam line to the E5 room only, which is dedicated to biological irradiation experiments). The BigRIPS-based experiments relevant to these constructions will not be scheduled from mid-December, 2013 to mid-February, 2014 due to the SLOWRI construction and CGS maintenance. The same experiments using AVF as the injector will not be scheduled from July, 2013 to mid-February, 2014.

5. Reference beam currents at the next NP-PAC meeting (Sakai)

It was announced that the call-for-proposals for the next 12th NP-PAC meeting scheduled for June 28–29, 2013, will be opened from mid-March (Ueno). Based on the achieved average beam currents in this fiscal

year, reference beam currents, which should be used to calculate a request BT in a proposal to be presented at the 12th NP-PAC, have been modified as follows:

- ^{238}U : 10 pnA
- ^{124}Xe : 20 pnA
- ^{70}Zn : 75 pnA

6. Information transmission on the RIBF facility use, etc.

- It was requested that the regular schedule of the NP-PAC meeting and the BT scheduling process on the RIBF home page be made available (Aoi). In response to the request, the website will be modified.
- It was requested that the RIBF users be informed promptly when the minutes of the MT Committee Meetings are posted on the RIBF website (Aoi). A notification will thus be sent via email from RNC from now on.
- In order to further support users to design an experiment plan precisely, the RIBF website will be modified so as to include technical information on SHARAQ and SAMURAI. With regard to BigRIPS, a part of technical information is currently password-protected. The Committee asked the BigRIPS Team to consider the possibility of information disclosure without a password.

7. Next meetings

- The next meeting will be held on Friday, February 15, 2013, at 13:30.
- The meeting after the next will be held on Friday, March 15, 2013, at 13:30.