

Dear Users and Collaborators of RIKEN Nishina Center,

Thank you very much for your kind words and offers of support on the tragic incidents in Japan.

It was very fortunate that the damage of RIBF or CNS facilities in RIKEN Nishina Center was not significant. The recovery process is on track, and we started an experiment at RILAC, using the gas co-generation system at RIBF. It is expected, however, that the full operation of RIBF will be difficult for at least several months due to the current electric power shortage in the Tokyo area. We are planning to run experiments within the limitations from the co-generation power. We will keep you informed for further updates.

We appreciate your continuous support for the science in Japan.

Hideto En'yo  
Director of RIKEN Nishina Center  
for Accelerator-Based Science

Takaharu Otsuka  
Director of Center for Nuclear Study  
University of Tokyo

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Dear RIBF users,

As stated by Directors En'yo and Otsuka, we are currently concentrating our efforts on examining the damages of the whole accelerator system and all equipment by the earthquakes. We hope to complete this by July, although, it will largely depend on the available electric powers. Tentatively all RIBF beam times scheduled for the spring 2011 period have been canceled.

Hoping to start normal operation of RIBF in this fall, we decided to hold the 9<sup>th</sup> PAC meeting as originally scheduled on 24-25 June, 2011 to keep up research activities. The Call-for-Proposals is attached.

Major changes since the last Call-for-Proposals are:

- two-year plan of primary beams for BigRIPS-based experiments is adjusted
- open to accept proposals for experiments at the SAMURAI spectrometer
- no proposals can be accepted for CRIB experiments

Information on the beam time schedule as well as on related subjects can be obtained from the minutes of the Machine-Time Committee Meeting. Please visit:

[http://www.nishina.riken.jp/UsersGuide/MT\\_Committee/meeting\\_minutes.html](http://www.nishina.riken.jp/UsersGuide/MT_Committee/meeting_minutes.html)

Hide Sakai  
Group Director of User Liaison and Industrial Cooperation  
RIKEN Nishina Center



***Call for Proposals of Nuclear-Physics Experiments  
at RI Beam Factory***

April 12, 2011

Hideto En'yo

*Director of RIKEN Nishina Center  
for Accelerator-Based Science*

Takaharu Otsuka

*Director of Center for Nuclear Study  
University of Tokyo*

This is a call for proposals of nuclear-physics experiments at the RI Beam Factory (RIBF) operated by RIKEN Nishina Center for Accelerator-Based Science (RNC) and Center for Nuclear Study (CNS), University of Tokyo.

The PAC (Program Advisory Committee) will review all nuclear physics proposals for RIBF facilities including SHARAQ operated by CNS, based on their scientific merits and feasibility. The PAC reports the results of recommendations to the directors of RNC and CNS.

The PAC is composed of international members, and the PAC meeting is held twice a year, usually in June and December.

Since the date of the 9<sup>th</sup> PAC meeting has been fixed on June 24-25, 2011, we now start to call for proposals to be discussed at the 9<sup>th</sup> PAC meeting. The spokesperson of a proposal is requested to give an oral presentation at the PAC meeting which is open to the public. For each submitted proposals, a few PAC members will be assigned as reviewers to review the proposal in detail prior to the PAC meeting. The PAC members, thus, may contact the spokesperson prior to the meeting if necessary.

In principle, approved experiments should be completed within two years, in principle. If an experiment does not finish within 2 years, a request for an extension or a new experimental proposal must be submitted.

We call for proposals for the following types:

1. nuclear physics experiments at our accelerator facility,
2. update of previously approved proposals,
3. development of experimental equipment that requires beam-time use, and

4. construction of large size instrumentations, such as a spectrometer, whose feasibility study has been completed (Note: the two-year rule is not applied to the proposals of this type).

As for item 1, we will newly start to call for proposals requesting to use the new spectrometer SAMURAI, whose installation will be completed by the end of this fiscal year. As for item 2, those who want to make significant updates to their proposals can submit the updated version of the previously approved proposals for the PAC to review, if one of the following three cases is applicable:

- i) The approved experiment can be scheduled to run by using the beams projected to run in 2011, if the approved primary beam is changed.
- ii) The approved experiment is significantly improved in sensitivity / efficiency by making use of SAMURAI.
- iii) The priority of approved proposals is not high and the spokesperson wants to increase priority. In particular, proposals approved as B or A/B are strongly encouraged to be resubmitted with revisions to be ranked as S or A.

In the update-proposal, one should state clearly what has changed since the proposal was approved and also describe any changes that might affect the physics aspect originally presented so that the PAC can determine if it remains at the same priority. Our tentative two-year plan of primary beams for BigRIPS-based experiments is as follows:

(Autumn 2010:	$d$ , $^{14}\text{N}$ , & $^{48}\text{Ca}$ )
Spring 2011:	$^{124}\text{Xe}$ , & $d$ , $^{14}\text{N}$
Autumn 2011:	$^{238}\text{U}$ & $\text{Xe}$
Spring 2012:	(open)

Please note that this is only a tentative schedule. The order of primary-beams and elements are subject to change depending on the situation of the beam development and the condition of the accelerator operation.

The submitted proposal must contain a cover sheet, and a detailed description of the proposed experiment or construction. The cover sheet can be downloaded from the web site <http://www.nishina.riken.jp/UsersGuide/NP-PAC/index.html>. Detailed information on the proposed experiment should be described in a free format, and attached to the cover sheet for submission. It should include the following description:

1. Goals and methods of the proposed experiment or proposed development
2. Setup, and conditions
3. Estimation of beam time requested
4. Readiness

Information on the facility including the primary beam list is available at

<http://www.nishina.riken.go.jp/UsersGuide/index-RIBF.html> .

The following is a list of contact persons of the experimental equipments. Those who plan to use the following facilities are requested to get in touch with the contact persons prior to the proposal submission.

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|-----------------|-------------------|--------------------------------|
| 1. GARIS :      | Kosuke Morita     | (morita@ribf.riken.jp)         |
| 2. RIPS :       | Hideki Ueno       | (ueno@riken.jp)                |
| 3. BigRIPS :    | Toshiyuki Kubo    | (kubo@ribf.riken.jp)           |
| 4. ZeroDegree : | Toshiyuki Kubo    | (kubo@ribf.riken.jp)           |
| 5. SHARAQ :     | Susumu Shimoura   | (shimoura@cns.s.u-tokyo.ac.jp) |
| 6. SAMURAI:     | Ken-ichiro Yoneda | (kyoneda@riken.jp)             |

Please note that the contact persons of the devices 4, 5, and 6 are modified from the previous call.

The personal information given in the submitted proposal will be used for the PAC evaluation purpose only. The titles, name of spokespersons including their affiliation of the PAC-approved proposals will appear in the Nishina Center web site, and publication if necessary.

Proposal should be sent to:

Dr. Hideki Ueno  
 User Support Office  
 RIKEN Nishina Center for Accelerator-Based Science  
 2-1, Hirosawa, Wako, Saitama, 351-0198, JAPAN  
 Email :UserSupportOffice@ribf.riken.jp .

Key dates:

Issuance of this Call for Proposal:	Apr. 12, 2011
Deadline of proposal submission:	May. 15, 2011
9 <sup>th</sup> PAC meeting:	Jun. 24-25, 2011