



## ***Call for Proposals of Nuclear-Physics Experiments***

### ***at RI Beam Factory***

September 16, 2009

Yasushige Yano

*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 will review all nuclear physics proposals for RIBF facilities, including CRIB and SHARAQ operated by CNS, based on their scientific merits and feasibility. The PAC will submit reviewed papers with PAC recommendations to the director of RNC, while those for experiments using CRIB and SHARAQ will be submitted to the director of CNS.

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

With the date of the 6<sup>th</sup> PAC meeting fixed on Dec. 3 and 4, 2009, we now start to call for proposals to be discussed at the 6<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.

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. development of experimental equipment that requires beam-time use, and
3. 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)

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.

- |                 |                 |  |
|-----------------|-----------------|--|
| 1. GARIS :      | Kosuke Morita   | ( <a href="mailto:morita@ribf.riken.jp">morita@ribf.riken.jp</a> )             |
| 2. CRIB :       | Shigeru Kubono  | ( <a href="mailto:kubono@cns.s.u-tokyo.ac.jp">kubono@cns.s.u-tokyo.ac.jp</a> ) |
| 3. RIPS :       | Hideki Ueno     | ( <a href="mailto:ueno@riken.jp">ueno@riken.jp</a> )                           |
| 4. BigRIPS :    | Toshiyuki Kubo  | ( <a href="mailto:kubo@ribf.riken.jp">kubo@ribf.riken.jp</a> )                 |
| 5. ZeroDegree : | Nori Aoi        | ( <a href="mailto:aoi@riken.jp">aoi@riken.jp</a> )                             |
| 6. SHARAQ :     | Tomohiro Uesaka | ( <a href="mailto:uesaka@cns.s.u-tokyo.ac.jp">uesaka@cns.s.u-tokyo.ac.jp</a> ) |

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 User Support Office.

User Support Office  
RIKEN Nishina Center for Accelerator-Based Science  
2-1, Hirosawa, Wako, Saitama, 351-0198, JAPAN

Email : [UserSupportOffice@ribf.riken.jp](mailto:UserSupportOffice@ribf.riken.jp)

**Key dates:**

Issuance of this Call For Proposal : Sep. 16, 2009  
Deadline of proposal submission : Oct. 16, 2009  
the 6<sup>th</sup> PAC meeting : Dec. 3 – 4, 2009