

Call for Proposals for Experiment and Project at the RCNP Cyclotron Facility

1. Experiment

This is a call for new and updated proposals for experiments at the RCNP Cyclotron Facility.

Proposal submission deadline: July 23 (Mon.), 2018

B-PAC meeting: August 23-24 (Thu.-Fri.), 2018

The RCNP Beam-time Program Advisory Committee (B-PAC) evaluates scientific values and feasibility of the proposed experiments as well as the budget requests. The result of the B-PAC is submitted to the Director. B-PAC reviews research programs received more than one month in advance of the B-PAC meeting although proposals may be submitted at any time.

The spokesperson or one of collaborators is requested to give an oral presentation of the proposal at B-PAC. The spokespersons are strongly requested to give the presentation at the B-PAC by themselves. If the spokesperson is not available, a presentation by TV conference system is acceptable. In the case, a representative is requested to attend the meeting. According to the recommendation of B-PAC, beam time will be scheduled for approved proposals.

Spokespersons are requested to send the numerical data to the Japan Charged-Particle Reaction data Group (JCPRG) in order to add them to the data base after completing their experiments. URL of JCPRG is <http://www.jcprg.org/>.

The beam time for approved proposals is usually scheduled within two years from the date of the approval, depending on the status of the preparations. However, the beam time allocation may delay due to the scheduled shutdown of the RCNP cyclotron facility for the upgrade of the injector AVF cyclotron from around the end of December 2018 to January 2020 and the accelerator commissioning time in February-March, 2020.

A proposal should include COVER PAGE, SUMMARY OF EXPERIMENT and DETAILED DESCRIPTION OF PROPOSED RESEARCH. The official language is English. Electric submission is strongly recommended. For the details see the item 5 below.

The RCNP director keeps about 10% of the total beam time to be distributed at his own discretion. This includes beam time for training undergraduate students upon request. Those who are interested in this beam time are asked to submit proper proposals, at any time to the Director.

Although B-PAC normally meets twice a year, the ones in March, 2019 and 2020 will not be held considering the reduction of the running time during the shutdown and commissioning time scheduled from the end of December 2018 to February-March 2020.

Present B-PAC members:

Hidetoshi Akimune (Konan Univ.)
Katsuhiko Ishida (RIKEN)
Naoyuki Itagaki (Kyoto Univ.)
Koichi Hagino (Tohoku Univ.)
Hiroki Kanda (RCNP)
Yoji Koike (Tohoku Univ.)
Yukie Maeda (Miyazaki Univ.)
Shinichiro Meigo (JAEA)
Antonio M. Moro (Universidad de Sevilla)
Alexandre Obertelli (TU Darmstadt)
Akira Sato (Osaka Univ.)
Calin A. Ur (ELI-NP)

2. Project

Proposals of projects which fill at least one of following criteria are also invited.

- a. Experiments which are expected to take more than 2 years to be completed.
- b. Experiments which request budgets larger than ten million JPY in total to RCNP.
- c. Experiments which request beam time longer than 30 days/year.
- d. Projects for constructing new equipment or for doing fundamental developments which are expected to be widely used in other experiments.

Proposals will be reviewed by the P-PAC or by its sub-committee, if necessary. The spokesperson is requested to give an oral presentation of the proposal. The deadline of proposals to be reviewed in the coming P-PAC is July 23, 2018

At the end of the project, the spokesperson should write a report on the accomplishments, budgets and other details of the project as an article of the RCNP Annual Report.

Details of the call for project proposals can be found at

<http://www.rcnp.osaka-u.ac.jp/Divisions/plan/project/index.html>.

Please contact Dr. H. Kanda, the P-PAC secretary, via an email to kandah@rcnp.osaka-u.ac.jp in case the submission is delayed.

3. Present Status and Highlights of RCNP Cyclotron Facilities

The present status of RCNP Cyclotron Facilities is found at

<https://www.rcnp.osaka-u.ac.jp/Divisions/np1-a/RCNPFfe.html>

4. Safety Check

A safety check is made for materials or equipment you will use in your proposed experiment. If you use one of the following items, the details need to be described in the proposal.

- a) a laser
- b) a flammable gas such as hydrogen, methane, ethane etc. except for the gases used for the wire chambers of Grand Raiden/LAS and the PPAC's at EN-course.
- c) nuclear fuel materials
- d) a gaseous or liquid target
- e) beryllium
- f) chemicals
- g) un-sealed radio-isotopes
- h) other materials or equipment to be controlled.

In principle, use of animals is forbidden at RCNP. If you have any questions about the safety, please contact the radiation control office before submitting proposals.

5. Application form

An application form can be found at

<http://www.rcnp.osaka-u.ac.jp/Divisions/plan/b-pac/application.html> .

The address for submitting a proposal is shown below. Electric submission is strongly recommended. Proposals should be sent to the RCNP Director with "Research Program" clearly written on the envelope if it is sent by a postal mail.

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If you have any question, please contact Prof. E. Ideguchi via an email to ideguchi@rcnp.osaka-u.ac.jp .

Takashi Nakano
Director of RCNP
Osaka University