

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: **Friday, August 4, 2017**

B-PAC meeting: September **4(Mon.)-6(Wed.), 2017**

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 meets twice a year and 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 one-year shutdown of the RCNP cyclotron facility.

The shutdown is planned to start in the latter half of the fiscal year 2018 (from October 2018 to March 2019) and will continue for one year although the detailed schedule is not fixed yet.

In the coming B-PAC, reevaluation is scheduled for the uncompleted experiments that were approved in or before March 2015. The corresponding spokespersons will have an announcement separately.

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.

The next B-PAC after the coming B-PAC will be held in February-March 2018.

Present B-PAC members

Hidetoshi Akimune (Konan Univ.)

Franco Camera (INFN/Milano)

Greg Hackmann (TRIUMF)

Naoyuki Itagaki (Kyoto Univ.)

Masatoshi Itoh (Tohoku Univ.)

Hiroki Kanda (RCNP)

Yoji Koike (Tohoku Univ.)

Shinichiro Meigo (JAEA)

Antonio M. Moro (Universidad de Sevilla)

Hitoshi Nakada (Chiba Univ.)

Alexandre Obertelli (CEA Saclay)

Akira Sato (Osaka Univ.)

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 millions 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 **Friday August 4, 2017**.

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 are found on

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

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/RCNPFc.html> .

4. Safety Check

A safety check is made for materials or equipments 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.
- i) 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 on the Web pages. URL is

<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. A. Tamii via an email to tamii@rcnp.osaka-u.ac.jp .

Takashi Nakano
Director of RCNP
Osaka University