

Call for Proposals for Experiment 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: December 21 (Mon.), 2020

B-PAC meeting: January 21-22 (Thu.-Fri.), 2021

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 way of holding the meeting is not decided, and it can be on-line or at the RCNP site, depending on the situation.

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 on-line 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. Currently, the shutdown of the facility due to the upgrade is scheduled to finish by the end of March and then after commissioning, the user beam time is planned to start from October 2021.

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.

Present B-PAC members:

Kenta Itahashi (RIKEN)

Satoshi Sakaguchi (Kyushu University)

Masaaki Kimura (Hokkaido University)

Kenichi Yoshida (Kyoto University)

Koichiro Shimomura (KEK)

Hidetoshi Akimune (Konan University)

Calin A. Ur (ELI NP) *chair

Katsuhiko Ishida (RIKEN)

Augusto O. Macchiavelli (LBNL)

Carlos Bertulani (Texas A&M)

Tatsuya Katabuchi (Tokyo Institute of Technology)

Wataru Higemoto (JAEA)

2. 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>

3. 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.

4. 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