RCNP-Z-875

2024.1.12

**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: February 29 (Thu), 2024

• Video submission deadline: March 15 (Fri), 2024

• B-PAC meeting: March 29 (Fri), 30 (Sat, optional), 2024 (Depending on number of proposals)

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 RCNP 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.

This time, we will request proponents to prepare a presentation video of no more than 15 minutes in length and send it to us in advance. Proponents will be contacted after submitting their proposal regarding how to submit videos. The B-PAC meeting will consist of a very short summary presentation using 1 or 2 slides and a Q&A session on the content of the presentation. The spokesperson or one of collaborators is requested to attend the meeting and answer questions. The meeting will be held basically in-person, but the zoom meeting room will be prepared for those who can only participate on-line.

According to the recommendation of B-PAC, beam time will be scheduled for approved proposals. 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.

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

A proposal should include COVER PAGE, SUMMARY OF EXPERIMENT and DETAILED DESCRIPTION OF PROPOSED RESEARCH. The official language is English. Main text should not exceed ten pages. Additional description can be attached as an appendix if necessary. For the details see Section 4. For the budget request, it should not include the travel expenses or the costs for which RCNP is not responsible. The purpose and the reason of the request should be clearly described in the main text. A proposal with extremely high (more than about 10 million JPY) budget request is recommended to be submitted as a proposal for the research project. Note that the budget approved by the B-PAC is not guaranteed and the total amount and usage will be reconsidered according to the financial situation of the RCNP.

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:

Daniel Bazin (NSCL/FRIB/MSU)

Carlos Bertulani (Texas A&M) \*chair

Wataru Horiuchi (Osaka Metropolitan Univ.)

Yasushi Kino (Tohoku Univ.)

Yohei Matsuda (Konan Univ.)

Koji Miwa (Tohoku Univ.)

Katsuhisa Nishio (JAEA)

Marina Petri (Univ. of York)

Satoshi Sakaguchi (Kyushu Univ.)

Daisuke Suzuki (RIKEN)

Isao Watanabe (RIKEN)

Kazuki Yoshida (JAEA)

**2. Introduction of RCNP Cyclotron Facilities**

The introduction of RCNP Cyclotron Facilities is found at

https://www.rcnp.osaka-u.ac.jp/Divisions/np1-a/RCNPCFe.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) unsealed radioisotopes

h) other materials or equipment to be controlled.

In principle, use of animals is forbidden at RCNP. If you have any questions about 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>

For the budget request, it should not include the travel expenses or the costs for which RCNP is not responsible. The address for submitting a proposal is shown below. Electronic 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 postal mail.

Director Takashi Nakano

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If you have any questions, please contact the B-PAC secretary, Prof. T. Shima, via an email to shima@rcnp.osaka-u.ac.jp .

Takashi Nakano

Director of RCNP

Osaka University