

Call for Proposals for Experiment at the RCNP Cyclotron Facility

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

The RCNP Beam-time Program Advisory Committee (B-PAC) assesses the scientific value, feasibility, and budget requests of proposed experiments. Beam times for approved proposals will be allocated based on B-PAC recommendations. Typically, beam time is allocated within two years from the approval date, depending on preparation status.

The RCNP director allocates about 10% of the total beam time at their discretion. This includes time for training undergraduate students upon request. Interested parties should submit proposals to the Director at any time.

The information of the RCNP Cyclotron Facilities is found at <https://www.rcnp.osaka-u.ac.jp/Divisions/np1-a/RCNPcFe.html>. We request that spokespersons submit their numerical data to the Japan Charged-Particle Reaction Data Group (JCPRG) upon the completion of their experiments for inclusion in the database. The JCPRG website can be accessed at <http://www.jcprg.org/>.

About the B-PAC meeting

The B-PAC meeting is scheduled for **June 19, 2025, with June 20 as an optional day if needed**. A spokesperson or collaborator should present the proposal, preferably in person. If unavailable, a Zoom conference will be set up.

The current B-PAC members are as follows:

Daniel Bazin (NSCL/FRIB/MSU)
Carlos Bertulani (Texas A&M) *chair
Tatsuya Katabuchi (Institute of Science Tokyo)
Kenji Kojima (TRIUMF)
Yukie Maeda (Miyazaki University)
Yohei Matsuda (Konan University)
Marina Petri (University of York)
Daisuke Suzuki (University of Tokyo)
Kiyoshi Tanida (JAEA)
Isao Watanabe (RIKEN)
Kenichi Yoshida (RCNP)
Kazuki Yoshida (RCNP)

Application form

The application form is available at <http://www.rcnp.osaka-u.ac.jp/Divisions/plan/b-pac/application.html>.

An application document must include a cover page, summary of experiment, and detailed description of proposed research. The official language for the document is English. The main text should not exceed ten pages; additional descriptions may be attached as an appendix if necessary. Reviewers may not be experts on the proposed research. Clear descriptions are encouraged.

Regarding the budget request, it should exclude travel expenses and costs that are not covered by RCNP. The breakdown of the budget should be detailed in the main text. Proposals with a significantly high budget request (exceeding approximately 10 million JPY) are advised to be submitted as proposals for International Joint Usage/Research Program (*) Please note that the amount approved by the B-PAC will be re-evaluated by the RCNP administration based on the financial situation.

*International Joint Usage/Research Program

RCNP asks if the experiment will be carried out as part of an International Joint Usage/Research Program, please briefly describe the information on the other approved experiments and the proposals to this B-PAC meeting or planned in future. The detailed information about the International Joint Usage/Research Program can be found at

<https://useroffice.rcnp.osaka-u.ac.jp/joint-usage/research-projects>.

Safety assessment

A safety assessment must be conducted for any materials or equipment intended for use in your proposed experiment. If you plan to utilize any of the following items, detailed descriptions must be included in the proposal.

- a) laser
- b) flammable gas such as hydrogen, methane, ethane etc. except for gases used for the wire chambers of Grand Raiden/LAS and the PPAC's at EN-course.
- c) nuclear fuel materials
- d) gaseous or liquid targets
- e) beryllium
- f) chemicals
- g) unsealed radioisotopes

other materials or equipment to be safety-controlled.

The use of animals is generally prohibited at RCNP. For any safety-related inquiries, please contact the radiation control office before submitting proposals.

Proposal submission

Proposals should be sent by e-mail to the RCNP Director (director@rcnp.osaka-u.ac.jp) with the title "B-PAC proposal (spokesperson's name)". The submission deadline is **May 15 (Thu), 2025**.

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

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