

ADRIB25
Advancing physics at next RI Beam Factory
<https://indico2.riken.jp/event/5005>
First Circular
(updated on December 15, 2024)

Dear Colleagues,

The workshop on advancing physics at next RI Beam Factory (ADRIB25) will be held at the Nishina Hall of the RIKEN Nishina Center on January 22 and 23, 2025. The details on the workshop are found at official website <https://indico2.riken.jp/event/5005>.

Since its first beam in 2007, the RI Beam Factory (RIBF) has been creating various opportunities for a wide range of physics, such as the shell evolution, nucleosynthesis or nuclear equation of state. The workshop aims at gathering experimental and theoretical experts to discuss physics opportunities to be created at the RIBF in future. Main focus goes to the mid to long term ranges charted by the RIBF Facility Upgrade Project, a major facility upgrade envisioned to the accelerator complex and the secondary beamline with a goal set to increase a uranium beam intensity to 2,000 pnA from the current maximum of about 100 pnA.

ADRIB25 is the second edition of the ADRIB series following the first meeting in January 2024. This time ADRIB25 will be held in the same week of the RIBF Users Meeting (UM) (January 21). This arrangement was made in close collaboration with the RIBF Users Executive committee (UEC) to facilitate the participation of RIBF users to both workshops that are closely related and encourages their involvement in future projects of the RIBF. ADRIB25 will be more focused on mid to long term perspectives, while UM will be set to discuss the present status and short-term future projects. More details on UM will be provided by the UEC in a separate announcement.

About the RIBF Facility Upgrade Project

The report is available at the website of the RIKEN Nishina Center.

https://www.nishina.riken.jp/researcher/RIBFupgrade/index_e.html.

Topics

The main topics of ADRIB25 include:

- Overview of the RIBF Facility Upgrade Project
- Reaction mechanisms of RI beam production
- Upgrades for spectrometers
- Structure and dynamics of heavy element RIs
- Nuclear force and equation of states
- Correlations and clustering

- Mass and beta-decays for nucleosynthesis
- Quenching problem

Invited speakers

M.L. Cortes (RIKEN Nishina Center)
M. Dozono (Kyoto University)
S. Endo (University of Electro-Communications)
T. Fukui (Kyushu University)
S. Koyama (RIKEN Nishina Center)
S. Michimasa (RIKEN Nishina Center)
T. Naito (RIKEN iTHEMS)
D. Nishimura (Tokyo City University)
T. Oishi (RIKEN Nishina Center)
T. Okudaira (Nagoya University)
A. Ono (Tohoku University)
N. Paar (University of Zagreb)
V. Phong (RIKEN Nishina Center)
S. Sakai (RIKEN Nishina Center)
M. Sasano (RIKEN Nishina Center)
Y. Taniguchi (Fukuyama University)
S. Terashima (IMP, CAS)
Y. Tsunoda (CNS)
A. Watanabe (Institute of Science Tokyo)
M. Yamagami (University of Aizu)
Y. Yamamoto (CNS)

Contributed talks

R. Danjo (Tohoku University, RARiS)
F. Endo (RCNP, Osaka University)
A. Kanai (University of Tsukuba)
K. Kawai (Kindai University)
K. Nakajima (Kindai University)
T. Saito (RIKEN)
K. Uzawa (Kyoto University)
K. Washiyama (University of Tsukuba)
X. Zhang (Kyoto University)

Registration

The registration form is available at <https://indico2.riken.jp/event/5005/registrations>

The deadline is **December 27**.

Banquet

The workshop banquet will be held in the evening of January 22. It will be jointly organized for ADRIB25 and UM. The fee will be around 5,000 JPY/person.

Venue

The workshop will be held onsite at the Nishina Hall of the RIKEN Nishina Center.

Accommodation

Please make your own hotel arrangements by yourself. Those who wish to stay at the guest house are asked to contact the workshop organizers.

Support

We will support students and early-career researchers to encourage their participation. Domestic travel and local expenses will be fully or partially covered based on the availability of funds. The application form is found in the online registration form.

Important dates

November 30: Deadline for abstract submission

December 27: Deadline for registration

January 22 and 23: Workshop

We are looking forward to seeing you.

Sincerely,

Organizing committee

W. Horiuchi (Osaka Metropolitan University), Y. Ichikawa (Kyushu), M. Kimura (RIKEN), K. Miki (Tohoku), F. Minato (Kyushu), D. Nishimura (Tokyo City University), T. Onishi (RIKEN), M. Rosenbusch (RIKEN), M. Sasano (RIKEN), D. Suzuki (Univ. Tokyo), A. Takamine (Kyushu), K. Yoshida (RCNP), J. Zenihiro (Kyoto)