

Accelerator Applications Research Division
RI Application Research Group
Industrial Application Research Team

1. Abstract

Industrial application research team handles non-academic activities at RIBF corresponding mainly to industries.

2. Major Research Subjects

Support of industrial utilization of the RIBF accelerator beam.

3. Summary of Research Activity

RNC promote facility-sharing program “Promotion of applications of high-energy heavy ions and RI beams.” In this program, RNC opens a part of the RIBF facility, which includes the AVF cyclotron, RILAC, RIKEN Ring Cyclotron and experimental instruments, to non-academic proposals from users including private companies. The proposals are reviewed by a program advisory committee, industrial PAC (IN-PAC). The proposals which have been approved by the IN-PAC are allocated with beam times and the users pay RIKEN the beam time fee. The intellectual properties obtained by the use of RIBF belong to the users. In order to encourage the use of RIBF by those who are not familiar with utilization of ion beams, the first two beam times of each proposal can be assigned to trial uses which are free of beam time fee.

In July 2021, the IN-PAC met and approved fee-based proposals from private companies; two proposals from new companies and five proposals from continuously using companies. In January 2022, the IN-PAC held a mail review and approved two fee-based proposals from continuous users. In 2020, four companies executed 23 fee-based beamtimes, twelve of which utilized a Kr beam with a total beam time of 221 h, nine utilized an Ar beam with a total beam time of 120 h and two of which utilized a Xe beam with a total beam time of 20 h.

Members

Team Leader

Atsushi YOSHIDA

Research Consultant

Tadashi KAMBARA

List of Publications & Presentations

Other

Fee-based beamtimes for private companies: Kr beam 221 h, Ar beam 120 h, Xe beam 20 h.