

RIBF User Group Town Meeting

March 4, 2022
Online(Zoom)

- 1) Report on the RIBF UEC activity (Hinohara)
- 2) Report from Nishina Center (Yoneda-san)
- 3) Report/Announcement from Nuclear Many-Body Theory Lab (Kimura-san)
- 4) Others

Report on the RIBF UEC activity

Nobuo Hinohara
for the RIBF Users Executive Committee

Current member list of UEC

- Apr. 2019 - Mar. 2023
 - D. Suzuki, RIKEN, vice-chair
 - H. Crawford, LBNL
 - S. Nishimura, RIKEN
 - N. Hinohara, Tsukuba, chair
 - N. Shimizu, CNS
- Apr. 2021 - Mar. 2025
 - A. Corsi, CEA Saclay
 - Y. Ichikawa, Kyushu, vice-chair
 - J. Zenihiro, Kyoto
 - T. Abe, RIKEN
 - K. Sekizawa, Tokyo Tech
- Supplementary members Apr. 2021 - Mar. 2023
 - S. Naimi, IJCLab

UEC Activities

- Regular town meetings (online)
 - September 2021 (during RIBF Users meeting)
 - March 2022 (not a as a part of JPS meeting)
- Report from the MT committee (monthly)
- Member list update
- Conference calendar update (regularly)
- Bridging users and RNC

Member list update

We are working on deleting non-active members

Please update your registration (by **April 30, 2022**)

- Visit https://ribfuser.riken.jp/RIBF_UG/registration.html
- Click on “Update User Info.”
- Enter your email address, click on “送信/submit”
- Update your information if necessary
- **Irrespective of the update click on “送信/submit”**

	UG members
2022 (March 3)	761
2021	749
2017	655
2015	590
2013	498
2012	550
2011	505
2010	496

Bridging users and RNC

- Charter (https://ribfuser.riken.jp/RIBF_UG/charter.html)
- The purposes of the RIBF-UG are as follows:
 - To provide a formal channel for the exchange of information between the RIBF administration and the scientists who utilize this facility for research.
 - To provide advice and feedback to the RNC Director on matters relating to the development and operation of the RIBF.
 - To promote and enhance the effective use of the RIBF by collecting users concerns.
 - To act as a supporting and consulting body for the RIBF. The RIBF-UG maintains communications through appropriate means, such as regular meetings, electronic mailing lists, shared data bases, and webpages.
- UEC: coordinate the activities of the RIBF-UG (Charter 3)
- UEC starts to survey/collect concerns and requests of users using Google form



RIBF Users Group Survey

The RIBF UEC prepares the following form
"to promote and enhance the effective use of the RIBF by collecting users concerns"
(see 1. Purpose of RIBF UEC Charter).

If you have any comments/requests to the RIBF administration,
please fill out the following form.

We will take into consideration your opinions for our future activities.

RIBF UEC Charter:
https://ribfuser.riken.jp/RIBF_UG/charter.html

*必須

Name (Optional)

回答を入力

Residence *

Japan

Other Countries

Research Topics *

Nuclear Experiment

Nuclear Theory

その他: _____

Comments/Requests *

回答を入力

Google フォームでパスワードを送信しないでください。
このコンテンツは Google が作成または承認したものではありません。不正行為の報告・利用規約・プライバシーポリシー

RIBF Status Report

Ken-ichiro YONEDA

User Liaison Group

RIKEN Nishina Center

RIBF User Group Town Meeting
Web Meeting, 04 March, 2022

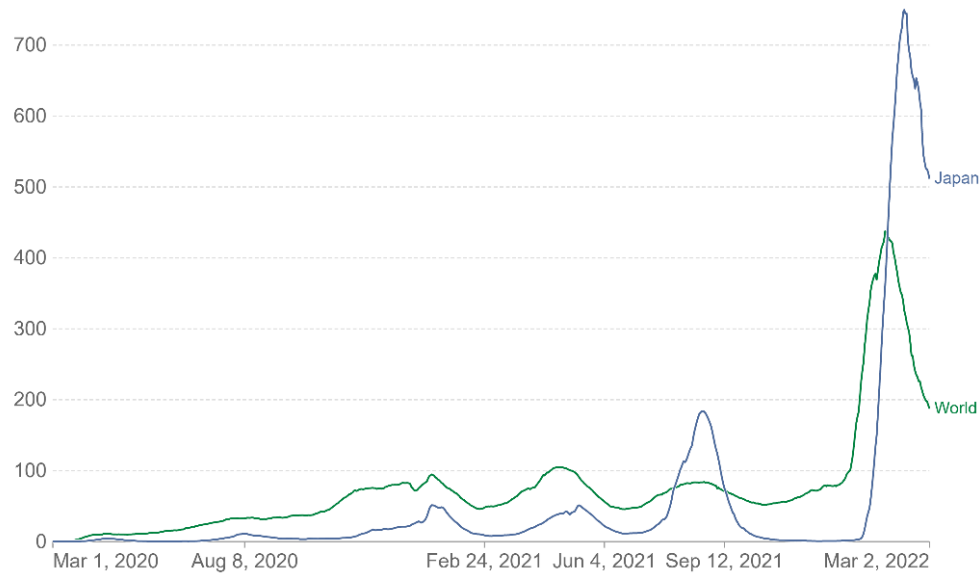
- COVID-19
- RIBF operation in 2nd half FY2021
- MT plan in 1st half FY2022
- NP-PAC meetings

- In Japan/Tokyo area
 - Still under “**quasi-state of emergency**”
 - **At least until March 21**
 - Still difficult for foreigners to visit RIKEN for experiments
 - On March 1 regulation changed:
Entry foreigners 3,500/day→5,000/day (~400,000 waiting)
RIKEN... focusing on new employers (~30 in March, ~90 later)
RIKEN's priority list → MEXT → MOFA
- In RIKEN
 - Keep “**Level-1**” regulation
 - **Research activities OK** but with best care
 - Accelerator use ... < 20 participants/experiment
 - Guideline and checklist for visitors
<https://ribf.riken.jp/COV/COVID.php>

Daily new confirmed COVID-19 cases per million people

7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.

Our World
in Data



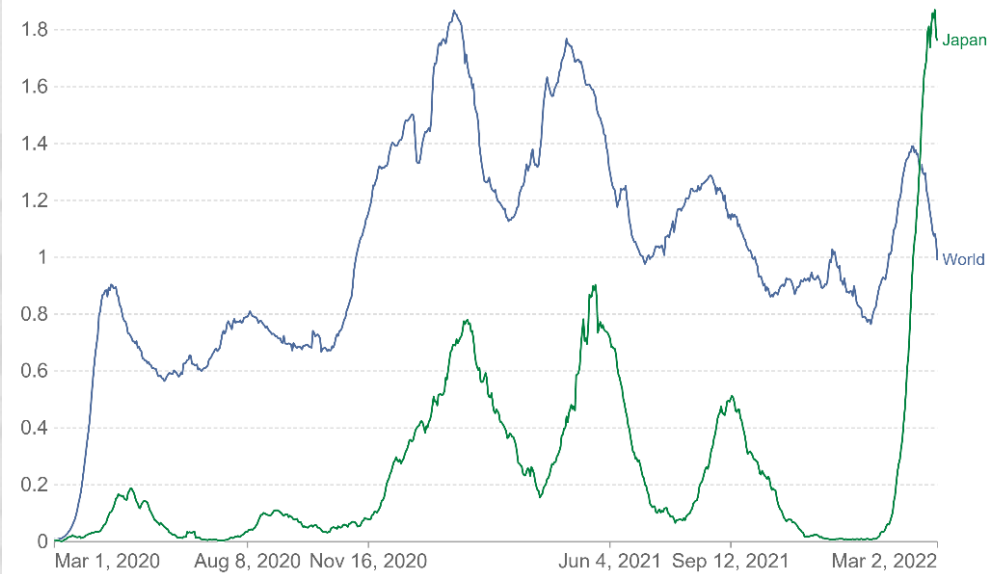
Source: Johns Hopkins University CSSE COVID-19 Data

CC BY

Daily new confirmed COVID-19 deaths per million people

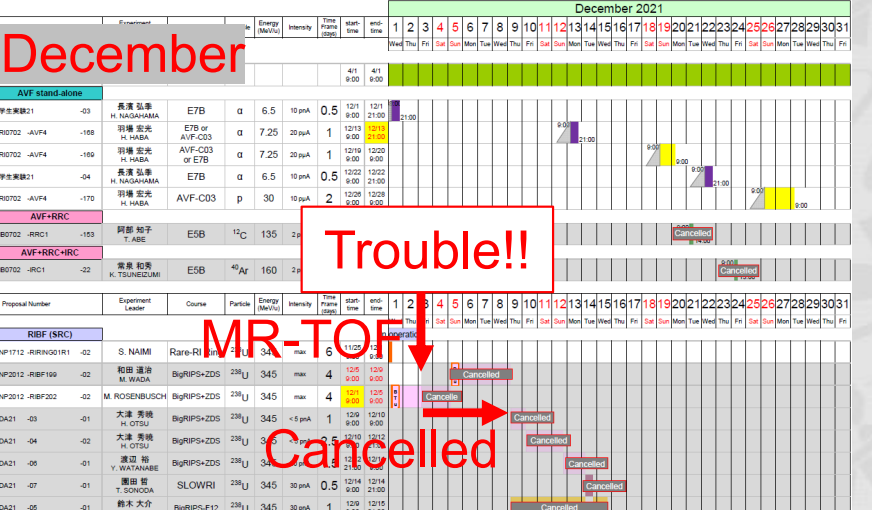
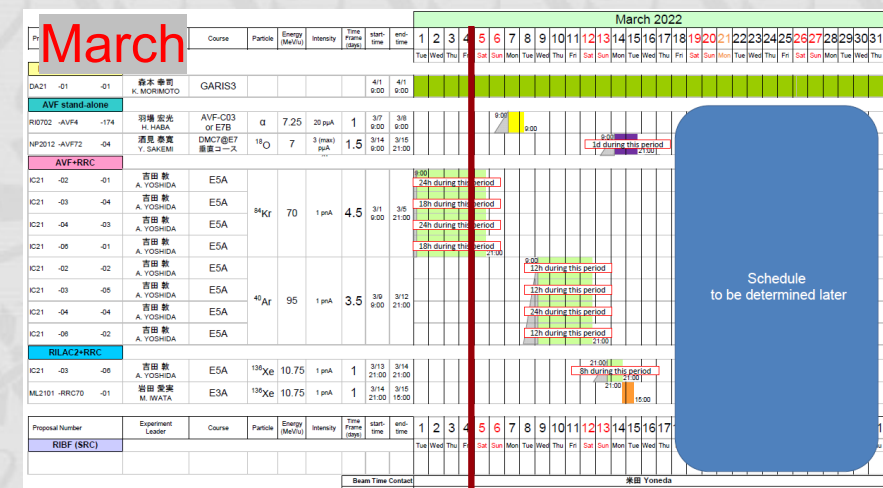
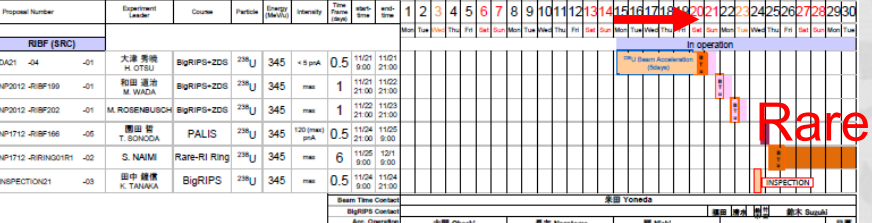
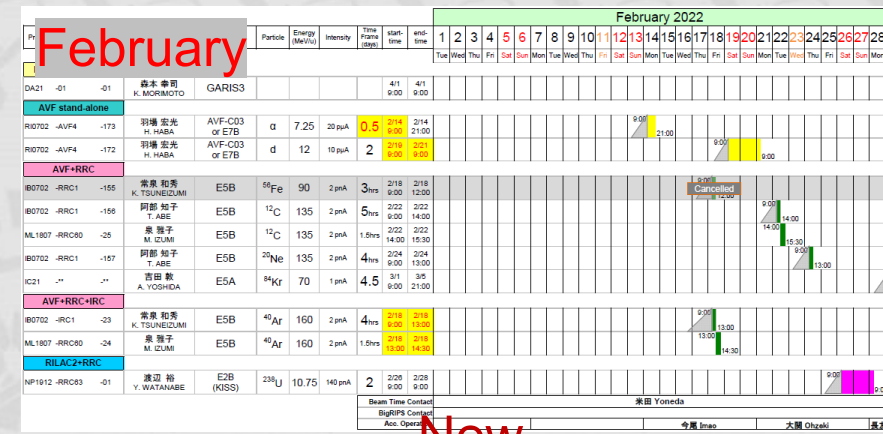
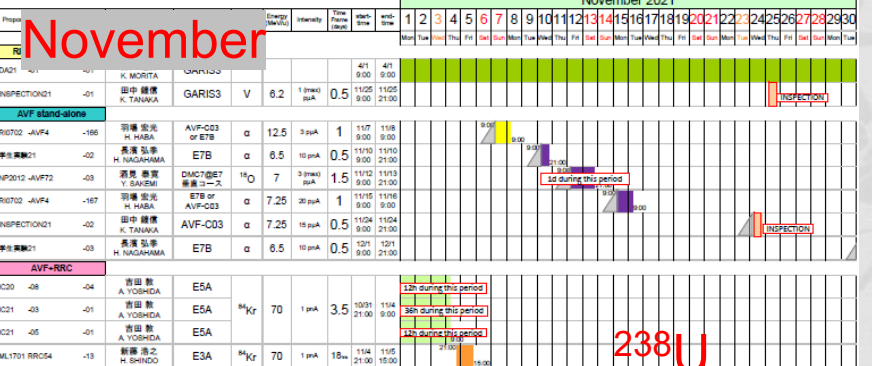
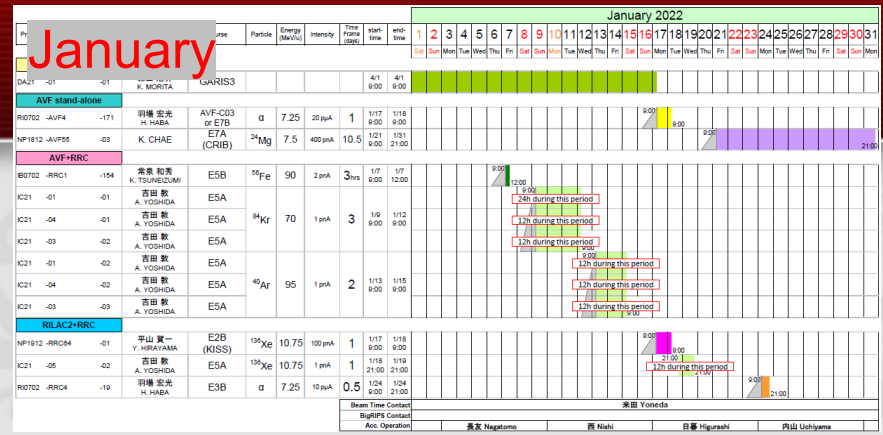
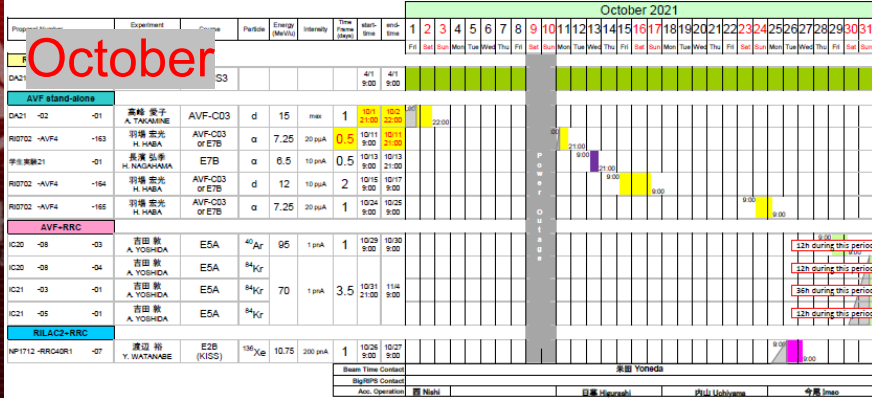
7-day rolling average. For some countries the number of confirmed deaths is much lower than the true number of deaths. This is because of limited testing and challenges in the attribution of the cause of death.

Our World
in Data



Source: Johns Hopkins University CSSE COVID-19 Data

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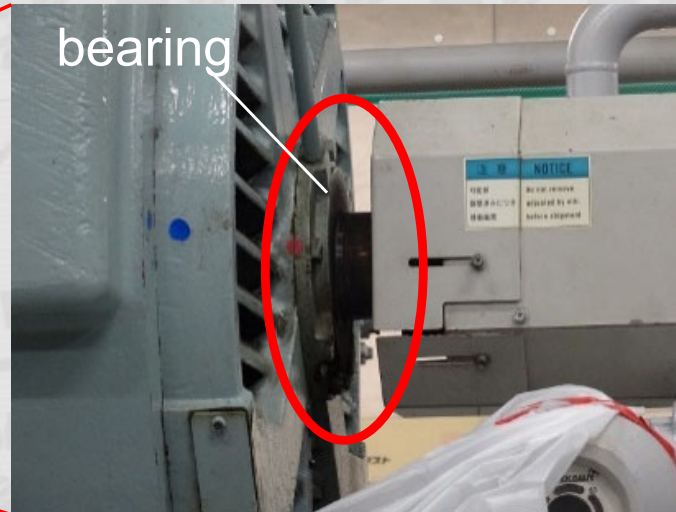
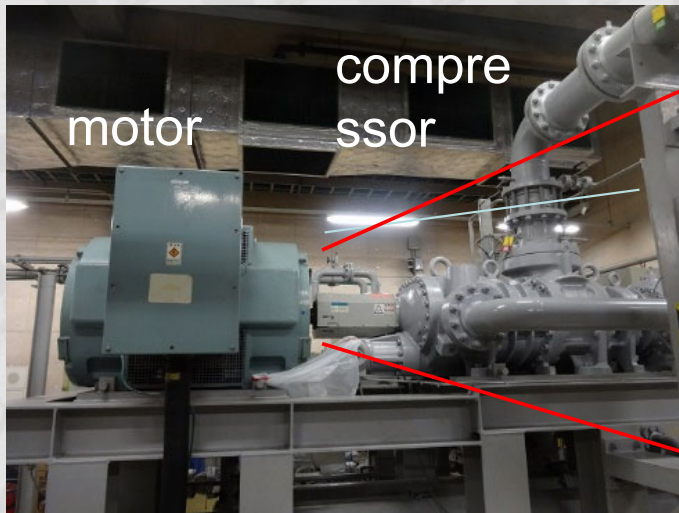


Schedule to be determined later

BigRIPS cryocooler trouble

Breakdown of BigRIPS large cryocooler compressor motor
December 3 around 7:30am

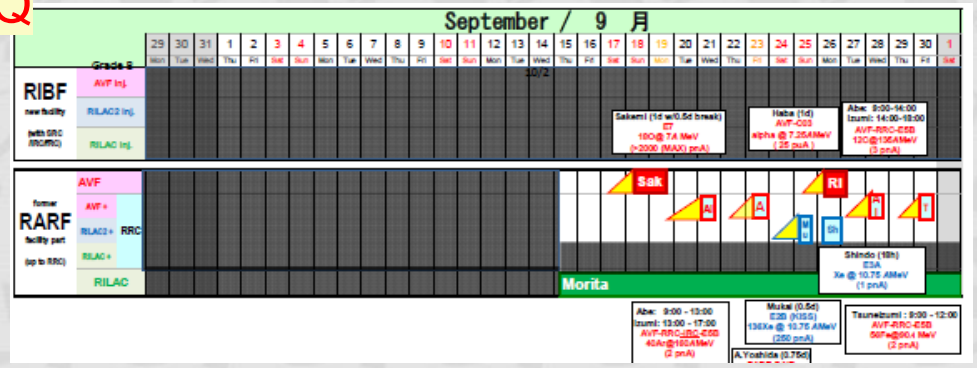
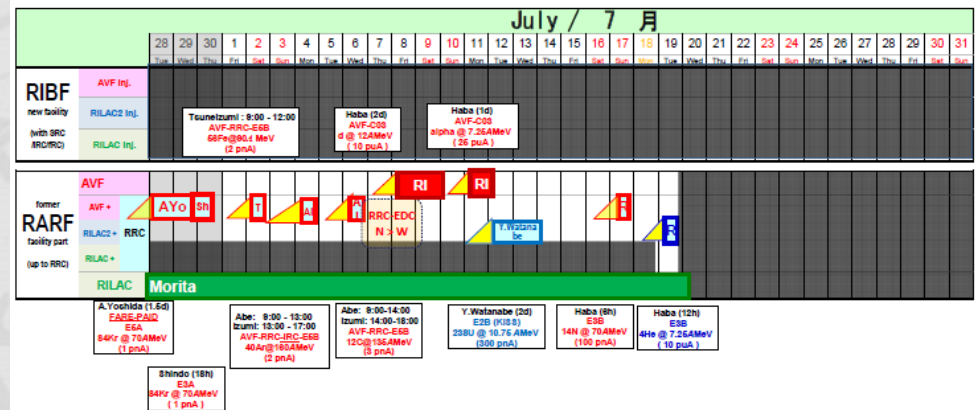
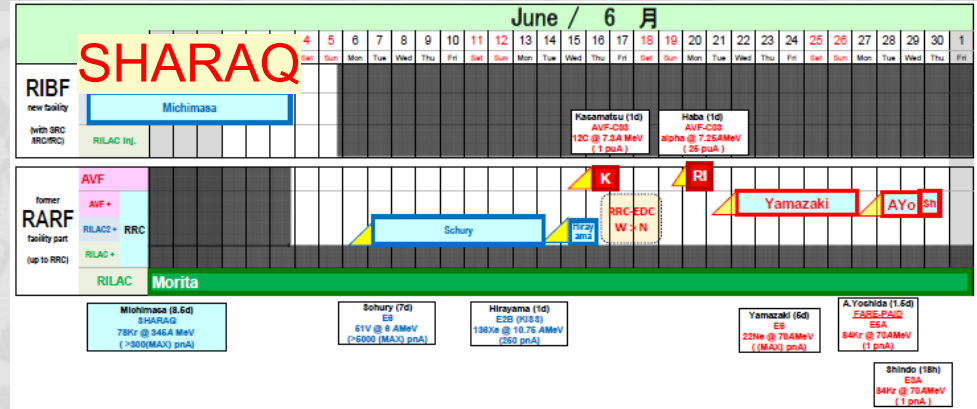
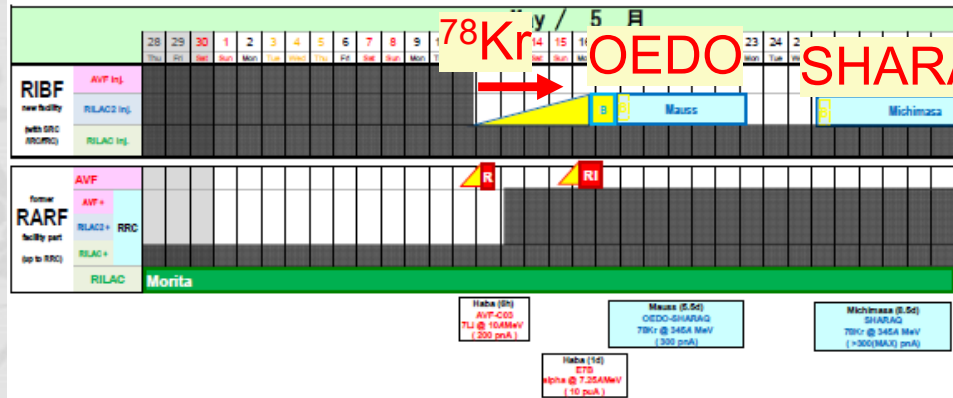
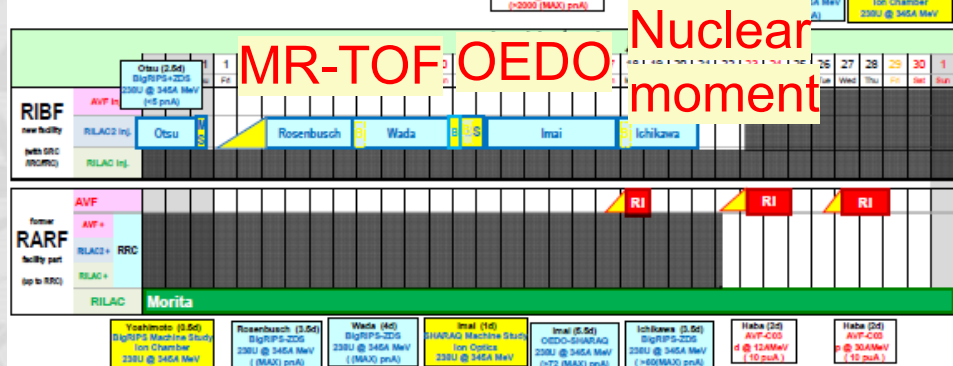
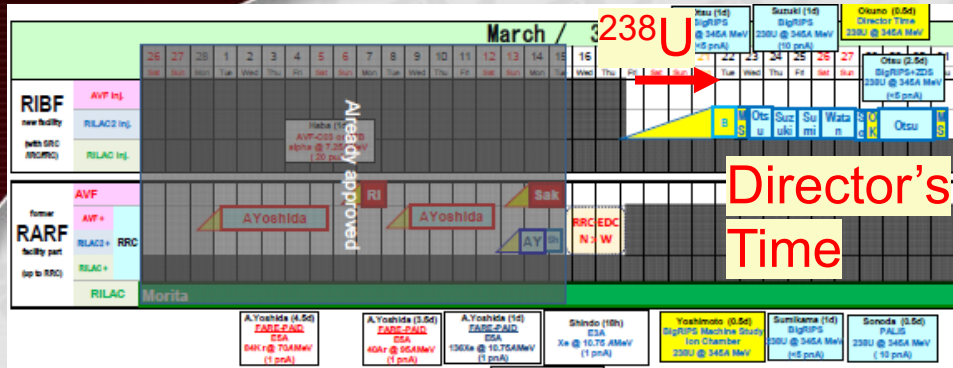
Bearing on the compressor side of motor got damaged, and heated.
Bearing grease evaporated, big amount of smoke emitted.



→ In January the maker company fixed it in their factory by renewing bearing.
There was no problem in the other parts, motor coil and so on.



Schedule plan March - Sep 2022 – under discussion





NP-PAC

22nd NP-PAC meeting
held on December 1 (Wed) – 3 (Fri), 2021

On-line meeting

Presentation movies to be collected before the meeting

Only Q&A in the meeting

Next (23rd) NP-PAC meeting
to be held in December 2022

To be announced in

<https://www.nishina.riken.jp/RIBF/NP-PAC/index.html>

hopefully in-person meeting

Announcement from
Nuclear Many-body Theory Laboratory
(核子多体論研究室)

Masaaki Kimura (RIKEN/Nishina)



理化学研究所
仁科加速器科学研究センター

A new Lab. for nuclear theory

- Nuclear Many-body Theory Laboratory (核子多体論研究室) has been launched (Group director: Masaaki Kimura)
- The laboratory will be in full-function from April
- In FY2022, Kimura will work both at RIKEN and Hokkaido Univ. He will work full-time at RIKEN from FY2023

Lab room is at 4th floor of RIBF bldg.



As of Mar. 1st, the laboratory room is under renovation



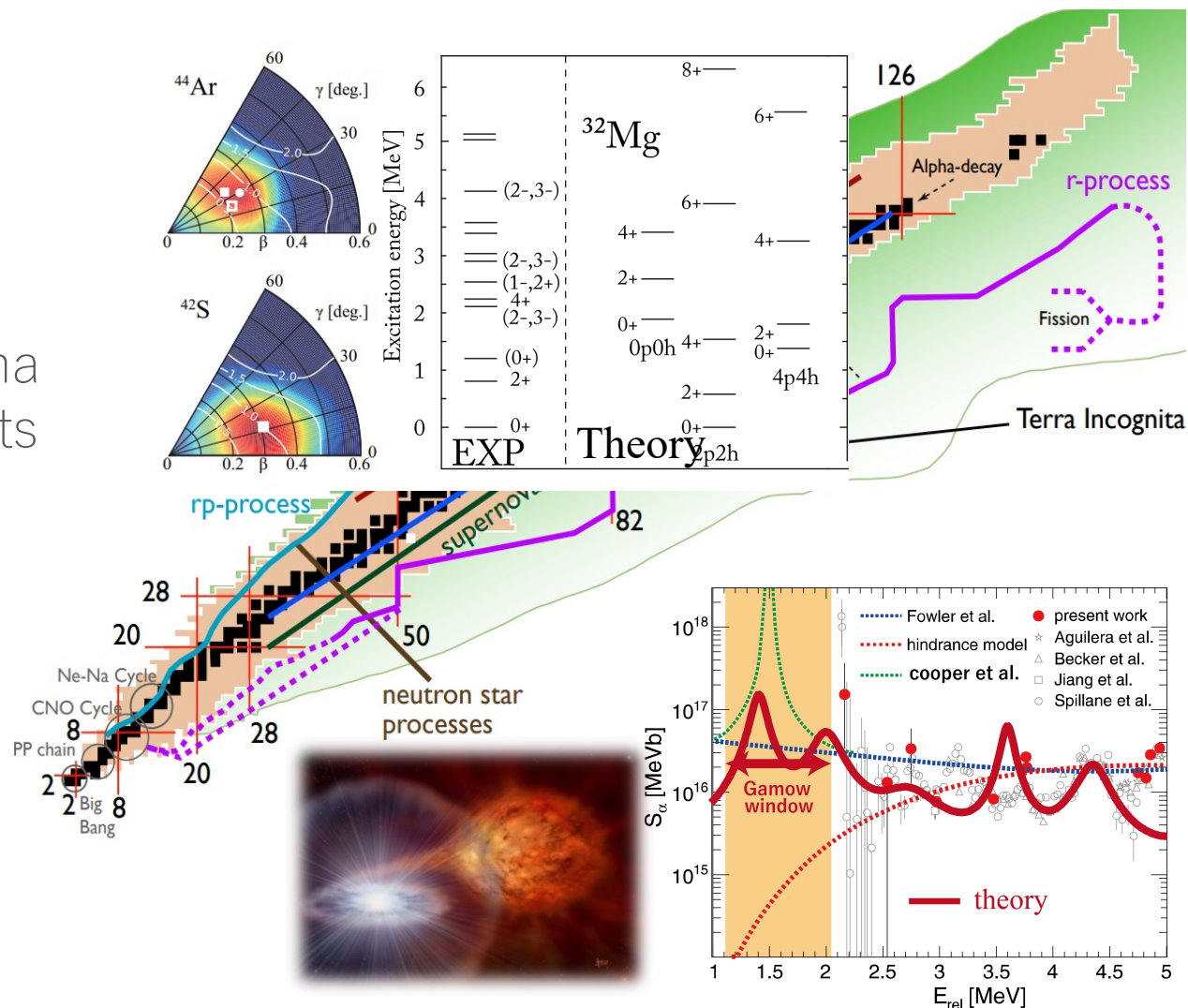
Courtesy of Naito.

Goals of the Lab.

Primary Goal: Promotion of theoretical studies for nuclear structure and reactions.
 Our priority is “physics of unstable nuclei”

- Theoretical studies of unstable nuclei in collaboration with RIBF experiments
 - Exotic nuclear structure and reactions at the limits of nuclear existence
 - Nuclear reactions at explosive phenomena in the Universe, and the origin of elements
- The Lab. will be a platform for the collaborations between RIKEN and domestic/international theory groups

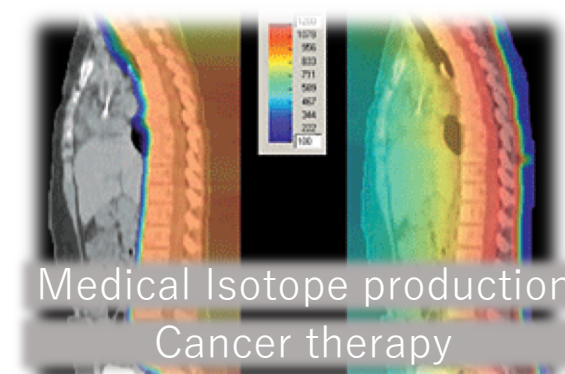
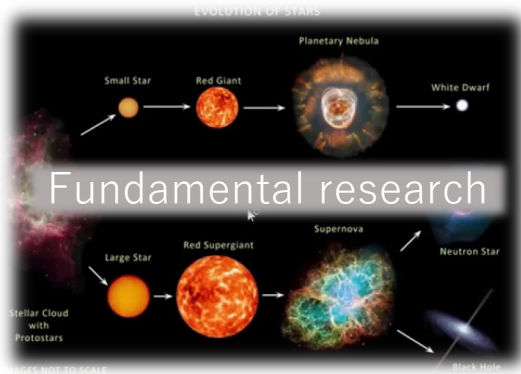
A workshop for unstable nuclear physics will be organized at RIKEN on May 30-Jun.1 (TBA)



Goals of the Lab.

Secondary Goal: Nuclear physics for applications

Research and Development of nuclear database for applications

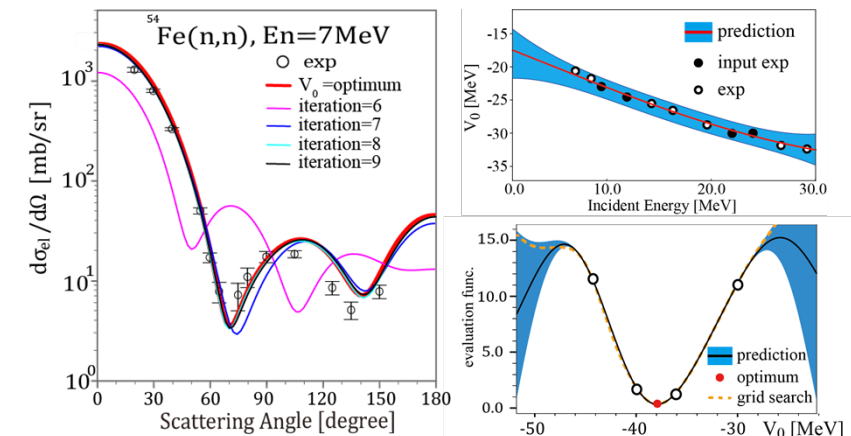


○ We are working for the R&D of nuclear reaction database using nuclear reaction model + AI

⇒ this will enhance the productivity of RIBF

Coupled Channel Optical model

$$V(r) = K \left[-V_R U_R(r) + i \left(4W_D a_D \frac{d}{dr} U_D(r) - W_V U_V(r) \right) + V_{Coul}(r) \right] + \left(\frac{\hbar}{m_\pi c} \right)^2 (V_{SO} + iW_{SO}) \frac{1}{r} \frac{d}{dr} U_{SO}(r) \mathbf{L} \cdot \boldsymbol{\sigma}$$



Research opportunities

For the Lab. activities, the contributions from young generations are essential.
We can offer a nice postdoc experience at RIBF

For Postdocs

- A postdoc position founded by JSPS budget (Application will open in Apr. or May.)
- Special Postdoctoral Researchers at RIKEN (Deadline is Apr. 14th)
- JSPS Postdoc fellowship (Applications open in May.)

For Ph. D students

- Junior Research Associate (JRA) for students in Japanese University.
(Applications opens in Sep.)
- International Program Associate (IPA) for overseas students
(Applications opens in Apr. and Oct.)

We expect many applications from young people.

Announcements

- Nuclear Many-body Theory Laboratory (核子多体論研究室) has just started.
 - Primary target of Lab. is physics at RIBF
 - The Lab. will be a platform for the collaborations between RIKEN and theory groups
 - The laboratory will be in full-function from April
 - A workshop will be held at RIBF bldg. on Mar. 30 – Jun. 1
- Research opportunities
 - For postdocs:
 - A postdoc position (科研費) in Apr. or May
 - SPR(基礎特研) until Apr. 14th
 - JSPS fellowship(学振) in May
 - For students
 - JRA for students in Japanese Univ. in Sep.
 - IPA for overseas students in Apr. and Oct.