

RIBF User Group Town Meeting

2023/09/07

@RIKEN

Agenda

- 1) Report on the RIBF UEC activity (Ichikawa)
- 2) Report from Nishina Center (Yoneda-san)
- 3) Others

Report on the RIBF UEC activity

Yuichi Ichikawa

For the RIBF Users Executive Committee

New members of UEC

□ Apr. 2021 - Mar. 2025

Y. Ichikawa (Kyushu, chair)

T. Abe (Keio, vice chair)

A. Corsi (CEA Saclay)

J. Zenihiro (Kyoto)

K. Sekizawa (Tokyo Tech.)

□ Apr. 2023 - Mar. 2027

K. Miki (Tohoku, vice chair)

D. Nishimura (Tokyo City)

P. Schury (KEK)

F. Minato (Kyushu)

H. Liang (Tokyo)

UEC activities

- ❑ Regular town/online meetings
- ❑ Report from the MT committee (monthly)
- ❑ RIBF Users Group Thesis Awards
- ❑ RIBF Users Meeting
- ❑ Member list update
- ❑ Conference calendar update (regularly)
- ❑ Bridging users and RNC

Stats of Users Meeting

- Organized mainly by J. Zenihiro and D. Nishimura, and Locally supported by D. Suzuki
- Onsite + Online (Zoom)
- 18 invited talks:
 - 2 Facility, 3 Upgrade Plan, 9 Experiments, 2 Theory, 2 Thesis Award
- Participants: 52 onsite + 60 online (Cf. 114 registrants)
 - Cf.) 94 (2022, online), 139 (2021, online), 127 (2020, online), 52 (2019, onsite)

Thesis Awards

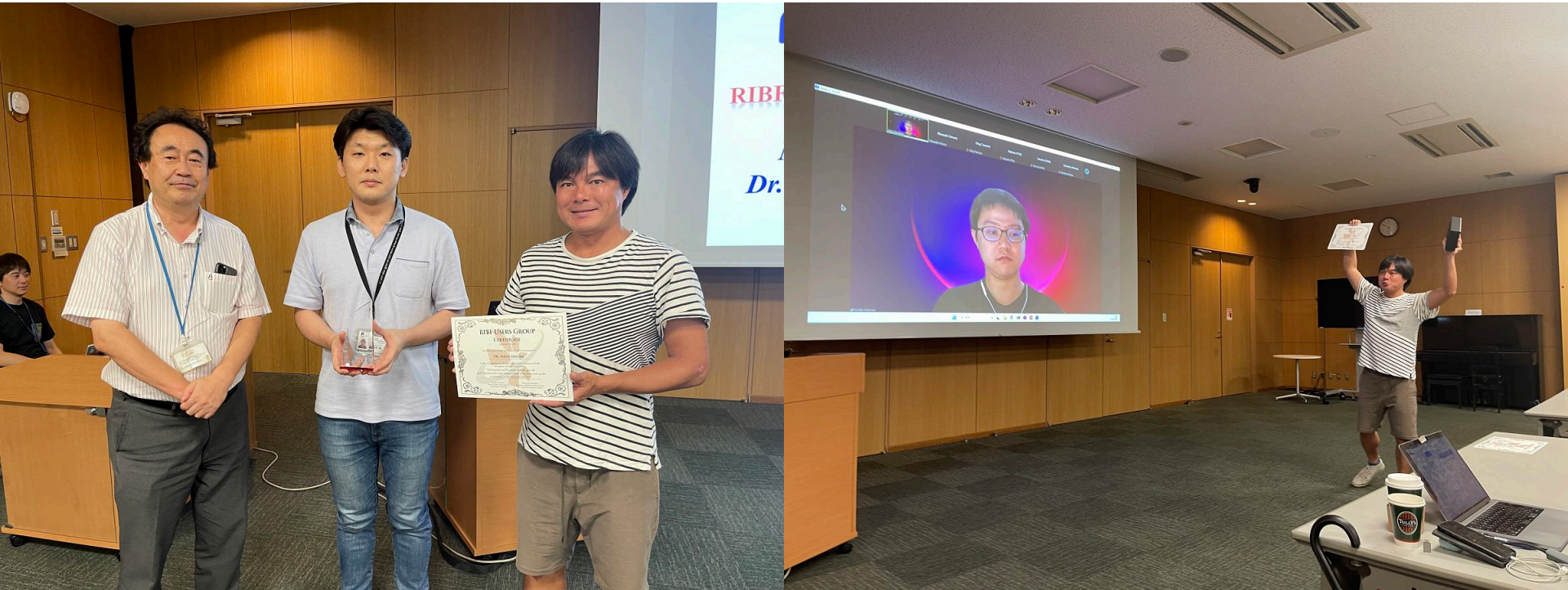
Dr. Shun Imura (Rikkyo Univ.)

“Development of RF carpet type He gas cell
and high-precision mass measurement of
neutron-rich nuclei at around $A=50-60$ with MRTOF”
(Osaka University, 2022)

Dr. Yoshiki Chazono (RIKEN)

“New reaction model for revealing deuteron inside nuclei”
(RCNP, Osaka University, 2022)

Congratulations again!



Member list update

Non-active members (over 600) will be deleted

Please update your registration

- 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”

We would like to propose

- **Annual check / update** at every April
- Otherwise deleted

Town Meeting

- Report from UEC and Nishina Center
- Conventionally at JPS meeting (onsite)
- **We would like to suggest to separate from JPS meeting**
- Autumn: Coupled with Users Meeting
- Spring: Early March (JPS meeting will be online)

Request to Nishina Center / RIBF

- ❑ Originally UEC was established to bridge the RIBF users and Nishina Center
- ❑ We would like to survey requests to Nishina Center

Ex.)

- Format of Users Meeting (coupled with collaboration mtg?)
- Timing of Users Meeting
- Timing of proposal call, deadline, reviewers comments
- Beam time allocation
- Local supports

RIBF Status Report

Ken-ichiro YONEDA

User Liaison Group

RIKEN Nishina Center

RIBF User Group Town Meeting
RIBF Conference Hall, September 7, 2023

- RIBF operation in 1st half FY2023
- SRC hardware trouble
- MT plan in 2nd half FY2023
- NP-PAC meeting



RIBF operation April-September '2023

April 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
									Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
DA21 -01	森本 幸司 K. MORIMOTO	GARIS3				4/1	9:00	10/1																														
AVF stand-alone ML2101 -AVF73 -04 横山 明彦 A. YOKOYAMA AVF-C03 ^7Li 6 1 pA 1 4/4 9:00 4/5 9:00 RI0702 -AVF4 -100 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 4/11 9:00 4/11 9:00 RI0702 -AVF4 -197 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 4/17 4/18 9:00 9:00 AVF+RRC MS -ACC23 -01 足立 泰平 T. ADACHI D室・D18 ^{14}N 135 150 pA 1 4/13 21:00 4/14 21:00 IB0702 -RRC1 -160 阿部 知子 T. ABE E5B ^{12}C 135 5 pA 5hrs 4/11 9:00 4/15 14:00 IB0702 -RRC1 -167 常泉 和秀 K. TSUNEIZUMI E5B ^{56}Fe 90 2 pA 3hrs 4/26 4/26 12:00 AVF+RRC+IRC IB0702 -IRC1 -28 阿部 知子 T. ABE E5B ^{40}Ar 160 2 pA 4hrs 4/21 9:00 4/21 13:00 RILAC2+RRC MS -ACC23 -02 足立 泰平 T. ADACHI D室・D18 ^{136}Xe 10.75 300 pA 1 4/13 9:00 4/14 9:00 ML2200 -RRC70 -01 池ノ井 謙 T. TAMEGAI E5A ^{238}U 11 10 pA 2 4/23 4/25 9:00 9:00 RI0702 -RRC04 -25 羽場 宏光 H. HABA E3B α 7.25 max 0.5 4/28 21:00 4/28 21:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation: 足立 Tadahiko, 内山 Uchiyama, 今尾 Imao, 大隅 Ohzaki, 長友 Nagatomo																																						

May 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
									Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
DA21 -01	森本 幸司 K. MORIMOTO	GARIS3				4/1	9:00	10/1																																			
AVF stand-alone RI0702 -AVF4 -198 羽場 宏光 H. HABA E7 vertical p 19 10 pA 1 5/8 21:00 5/9 21:00 NP2012 -AVF70 -02 M. SFERRAZZA E7A (CRIB) ^7Li 8.3 max 8 5/12 5/20 9:00 9:00 RI0702 -AVF4 -199 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 5/22 5/23 9:00 9:00 AVF+RRC IC22 -08 -01 吉田 敦 A. YOSHIDA E5A ^{84}Kr 70 1 pA 1 5/25 5/25 9:00 IC22 -09 -01 吉田 敦 A. YOSHIDA E5A ^{84}Kr 70 1 pA 3 5/25 5/28 9:00 9:00 IC22 -09 -02 吉田 敦 A. YOSHIDA E5A ^{84}Kr 70 1 pA 1 5/25 5/25 9:00 IC22 -08 -02 吉田 敦 A. YOSHIDA E5A ^{40}Ar 95 1 pA 1 5/30 5/31 9:00 9:00 IB0702 -RRC1 -168 阿部 知子 T. ABE E5B ^{12}C 135 2 pA 5hrs 5/11 9:00 5/14 14:00 RILAC2+RRC NP2212 -RRC78 -01 木村 創大 S. KIMURA E6 (GARIS2) ^{136}Xe 10.75 100 pA 1.5 5/20 5/21 9:00 5/21 21:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation:																																											

New trouble !!
in SRC

<https://www.nishina.riken.jp/rarfmt/pc.html>

June 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
									Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
RILAC stand-alone DA21 -01 -04 森本 幸司 K. MORIMOTO GARIS3 4/1 9:00 10/1 9:00 AVF stand-alone RI0702 -AVF4 -200 羽場 宏光 H. HABA AVF-C03 α 12.5 4 pA 1 6/5 9:00 6/6 9:00 RI0702 -AVF4 -201 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 6/12 9:00 6/13 9:00 RI0702 -AVF4 -202 羽場 宏光 H. HABA AVF-C03 d 12 10 pA 1.5 6/9 9:00 6/10 21:00 RI0702 -AVF4 -206 羽場 宏光 H. HABA AVF-C03 ^7Li 10 200 pA 6hrs 6/3 9:00 6/3 18:00 NP2012 -AVF70 -03 M. SFERRAZZA E7A (CRIB) ^7Li 8.3 2 pA 7 6/21 9:00 6/28 9:00 AVF+RRC IB0702 -RRC1 -168 阿部 知子 T. ABE E5B ^{12}C 135 5 pA 5hrs 6/11 9:00 6/11 14:00 ML2101 -RRC70 -06 岩田 榮実 M. IWATA E3A ^{129}Xe 35.58 1 pA 0.5 6/20 9:00 6/20 21:00 AVF+RRC+IRC IB0702 -RRC1 -29 阿部 知子 T. ABE E5B ^{40}Ar 160 2 pA 4hrs 6/8 9:00 6/8 13:00 RILAC2+RRC NP2112 -RRC72 -03 向井 もも M. MUKAI E2B (KISS) ^{136}Xe 10.75 100 pA 1.5 6/21 9:00 6/22 21:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation:																																								

July 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
									Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
RIBF (SRC) NP1912 -SAMURAI53 -02 H. WANG SAMURAI ^{18}O 250 max 7.5 6/18 6/25 9:00 6/25 21:00 MS -EXP23 -01 大津 秀純 H. OTSUJI SAMURAI ^{18}O 250 300 pA 2 6/25 21:00 6/25 21:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation:																																								

August 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
									Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
AVF stand-alone NP2012 -AVF72 -08 酒見 悠寛 Y. SAKEMI DMC7@E7 18O 7 1.5 pA 3.5 7/5 9:00 7/6 21:00 RI0702 -AVF4 -203 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 7/10 9:00 7/11 9:00 RI0702 -AVF4 -204 羽場 宏光 H. HABA E7 vertical p 19 10 pA 1 7/17 9:00 7/18 9:49 AVF+RRC ML2101 -RRC70 -07 岩田 榮実 M. IWATA E3A ^{84}Kr 70 1 pA 0.5 7/3 9:00 7/3 21:00 IC21 -09 -01 吉田 敦 A. YOSHIDA E5A ^{84}Kr 70 1 pA 2 7/12 9:00 7/14 9:00 IC22 -07 -06 吉田 敦 A. YOSHIDA E5A ^{84}Kr 70 1 pA 1 7/15 9:00 7/15 9:00 IC21 -09 -02 吉田 敦 A. YOSHIDA E5A ^{40}Ar 95 1 pA 1 7/15 9:00 7/15 9:00 RILAC2+RRC NP2212 -RRC78 -02 木村 創大 S. KIMURA E6 (GARIS2) ^{136}Xe 7.2 100 pA 1.5 7/5 9:00 7/6 21:00 RI0702 -RRC4 -26 羽場 宏光 H. HABA E3B α 7.25 max 0.5 7/8 9:00 7/8 21:00 NP2112 -LINA67R5 -03 P. SCHURY E6 (GARIS2) ^{51}V 6 3 pA 3 7/12 9:00 7/12 9:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation:																																								

September 2023

Prop.	Exp. Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start-time	end-time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
									Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
AVF stand-alone DA21 -01 -04 森本 幸司 K. MORIMOTO GARIS3 4/1 9:00 10/1 9:00 RI0702 -AVF4 -205 羽場 宏光 H. HABA AVF-C03 α 7.25 25 pA 1 9/25 9:00 9/26 9:00 NP2012 -AVF72 -09 酒見 悠寛 Y. SAKEMI DMC7@E7 18O 7 1.5 pA 3.5 9/27 9:00 9/27 21:00 AVF+RRC IB0702 -RRC1 -170 常泉 和秀 K. TSUNEIZUMI E5B ^{56}Fe 90 2 pA 3hrs 9/19 9:00 9/19 12:00 IB0702 -RRC1 -169 阿部 知子 T. ABE E5B ^{12}C 135 5 pA 5hrs 9/22 9:00 9/22 14:00 ML2112 -RRC74 -11 泉 雅子 M. IZUMI E5B ^{12}C 135 5 pA 2hrs 9/22 9:00 9/22 16:00 AVF+RRC+IRC IB0702 -IRC1 -30 阿部 知子 T. ABE E5B ^{40}Ar 160 2 pA 4hrs 9/21 9:00 9/21 13:00 ML2112 -RRC74 -12 泉 雅子 M. IZUMI E5B ^{40}Ar 160 2 pA 2hrs 9/21 9:00 9/21 13:00 RILAC2+RRC NP2212 -RRC77 -01 平山 賢一 Y. HIRAYAMA E2B (KISS) ^{136}Xe 10.75 100 pA 2 9/18 9:00 9/18 9:00 NP2012 -RRC67 -01 P. WALKER E2B (KISS) ^{136}Xe 7.2 100 pA 6 9/25 9:00 10/1 9:00 Beam Time Contact: 米田 Yoneda BigRIPS Contact: 今尾 Imao Acc. Operation:																																							

A new SRC trouble

May 19, “sub-transfer tube” had a problem...
a pipe for He going back from SRC to cryo-system
A lot of “ice” on the pipe
→ too bad heat insulation

→ SRC operation in spring cancelled

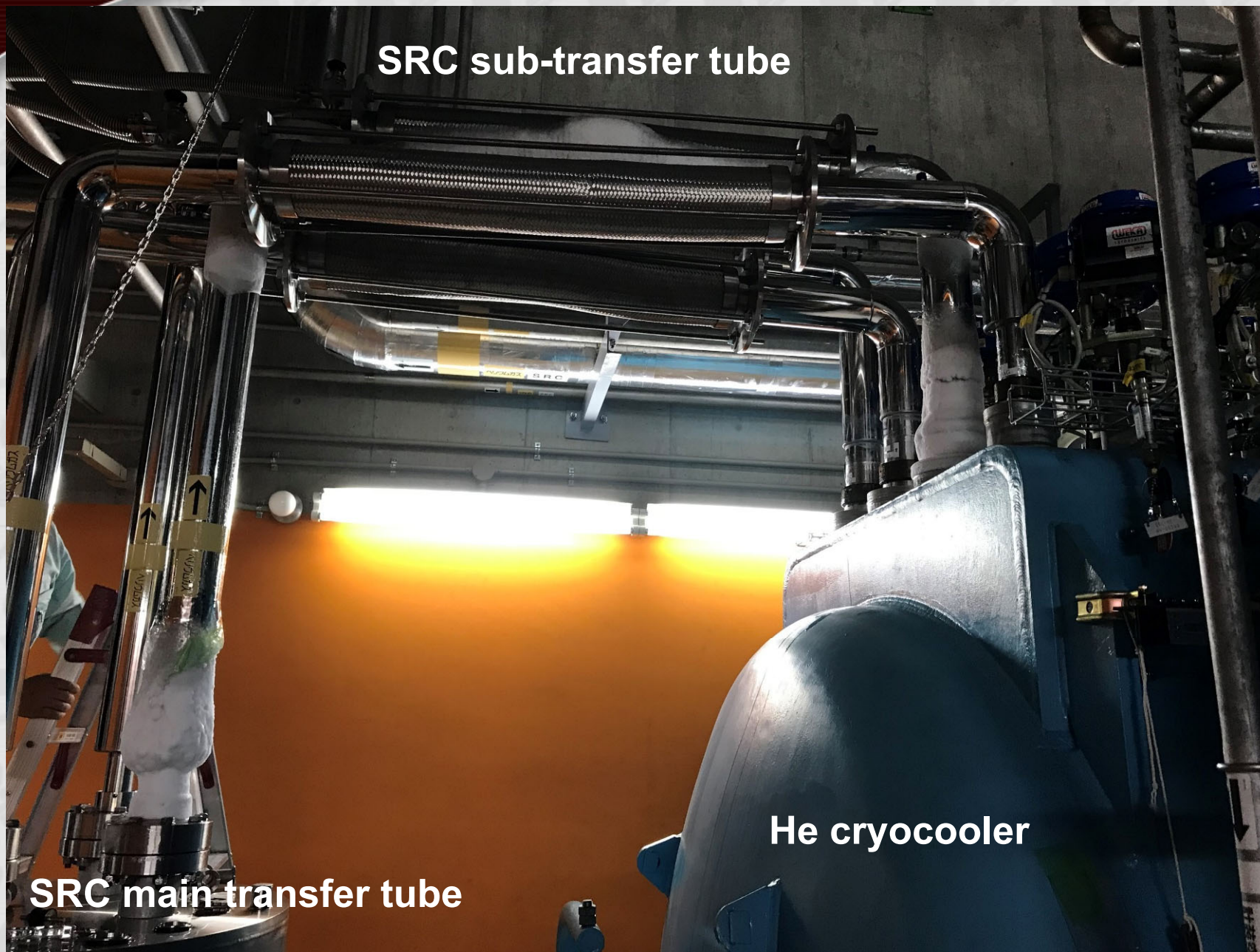
August 21, parts to fix, specified
How long to fix it? Still under consideration

schedule of 2nd half 2023 ... not fixed yet

SRC with ^{18}O from Nov 16?

or

NO SRC in autumn?



SRC sub-transfer tube

SRC main transfer tube

He cryocooler



NP-PAC

24th NP-PAC meeting
to be held on December 5 (Tue) – 7 (Thu), 2023

Meeting in person for presentation

Proposal submission deadline: October 10

Call for Proposals to be issued soon

Latest information will be given in:

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