

RIBF user group town meeting at the JPS fall meeting 2016

Agenda:

- 1) RIBF user group activity report (Isobe) 30min.
- 2) Nishina center report (Yoneda) 15min.
- 3) Report on RIBF thesis award (Isobe) 5min.
- 4) Report on the RIBF Users Meeting 2016 (Ota) 10min.
- 5) Post RIBF plan (Ueno) 30min.
- 6) Other issues

UEC Report

UEC member

- N. Imai : CNS : Exp. (2013 - Mar. 2017)
- T. Sumikama : Tohoku : Exp. (2013 - Mar. 2017)
- A. Obertelli : Saclay : Exp. (2013 - Mar. 2017)
- K. Ogata : RCNP, Okaka : Theor. (2013 - Mar. 2017) Vice Chair
- M. Kimura : Hokkaido : Theor. (2013 - Mar. 2017)

- T. Isobe : RNC : Exp. (2015 - Mar. 2019) Chair
- T. Nakamura : Titech : Exp. (2015 - Mar. 2019) Web updating
- S. Ota : CNS : Exp. (2015 - Mar. 2019) Users meeting
- Y. Kanada-En'yo : Kyoto : Theor. (2015 - Mar. 2019) Thesis Award
- K. Yoshida : Niigata : Theor. (2015 - Mar. 2019) RIBF Discussion

Supplement Member

- P. Fallon : Berkeley : Exp (2015 - Mar. 2017)
- J. Lee : Hong Kong : Exp (2015 - Mar. 2017)
- M. Asai : JAEA : Exp (2015 - Mar. 2017)

Activities

- UEC meeting
- MT Committee Observer → distributing highlight
- RIBF Users meeting → Ota-san
- RIBF Users town meeting
- RIBF Thesis award → Enyo-san
 - Co-hosted with RNC
- RIBF discussion +

UEC meeting at Sep 8th.

- Town meeting at Miyazaki
- Requirement of FEE for the usage of RIBF.
- RIKEN guest house for the experiment at RIBF
 - RIBF user liaison started new service: automatic booking of 3 rooms at RIKEN guest house.
- RILAC long shutdown
 - For upgrading RILAC, RILAC is supposed to be shutdown for a long time (half year?).
- Thesis award 2017

Requirement of FEE for the usage of RIBF.

- From this fiscal year, the budget dedicated for running RIBF was approved.
- RIKEN executive committee asked RNC to consider the external budgets including introduction of FEE for the RIBF users.
- As of today, policy of RNC is not fixed yet.
- Director of RNC is thinking the introduction of collaboration FEE.
- 50Man-YEN/y?? (ISOLDE: 10-60Man-Yen/y, ALICE: 100Man-Yen/y, BELLE: 10Man-Yen/y)
- Director of RNC discussed this issue at Kakubutsuri committee, RNC-AC and IUPAP-WG9
 - It is difficult to pay without beam. (Kakubutsuri)
 - In kind substitute. (Kakubutsuri)
 - Open access rule should be followed. (RNC-AC)
 - Do not use collaboration FEE for the operation of RIBF. (WG9)

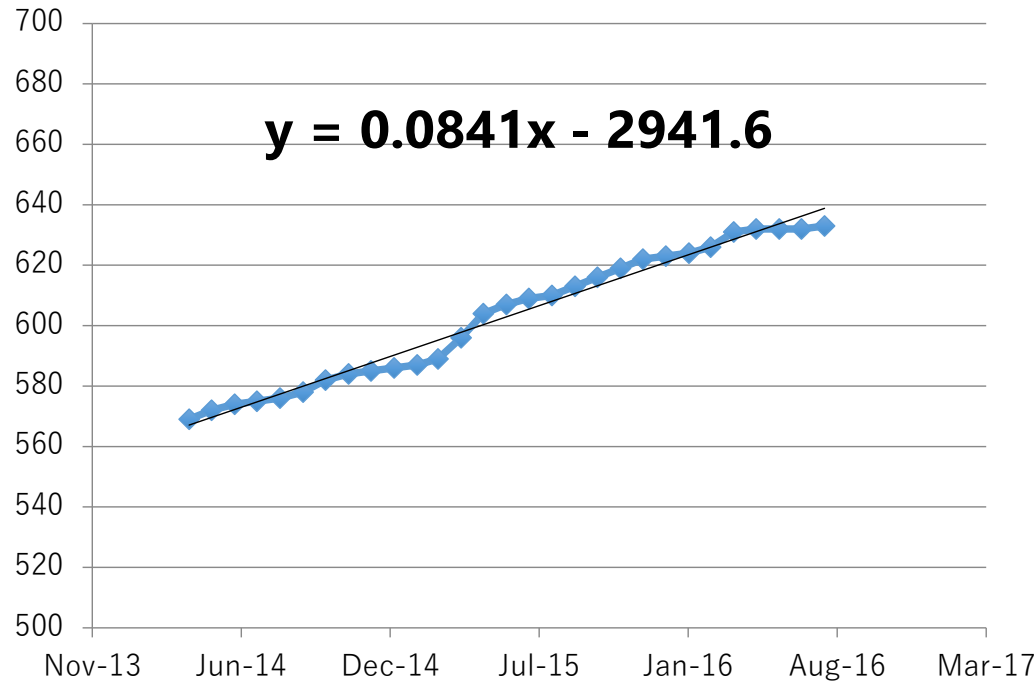
Election of UEC member for next period

- Call for candidate: 2017 Jan.
- Voting: 2017 Feb.

- Voting rate was only 10~20% at last time.

- Proposal:
- Chair of committee should not be RIKEN stuff.

Number of users group members



- **30peoper/year**
- Number of members whose mail address includes ".jp" is 431 out of 640: ~67% is expected to be domestic users.

RIBF Status Report

Ken-ichiro YONEDA

User Liaison and Industry Cooperation Group

RIKEN Nishina Center

RIBF Users Group Town Meeting

University of Miyazaki, Miyazaki, September 21, 2016

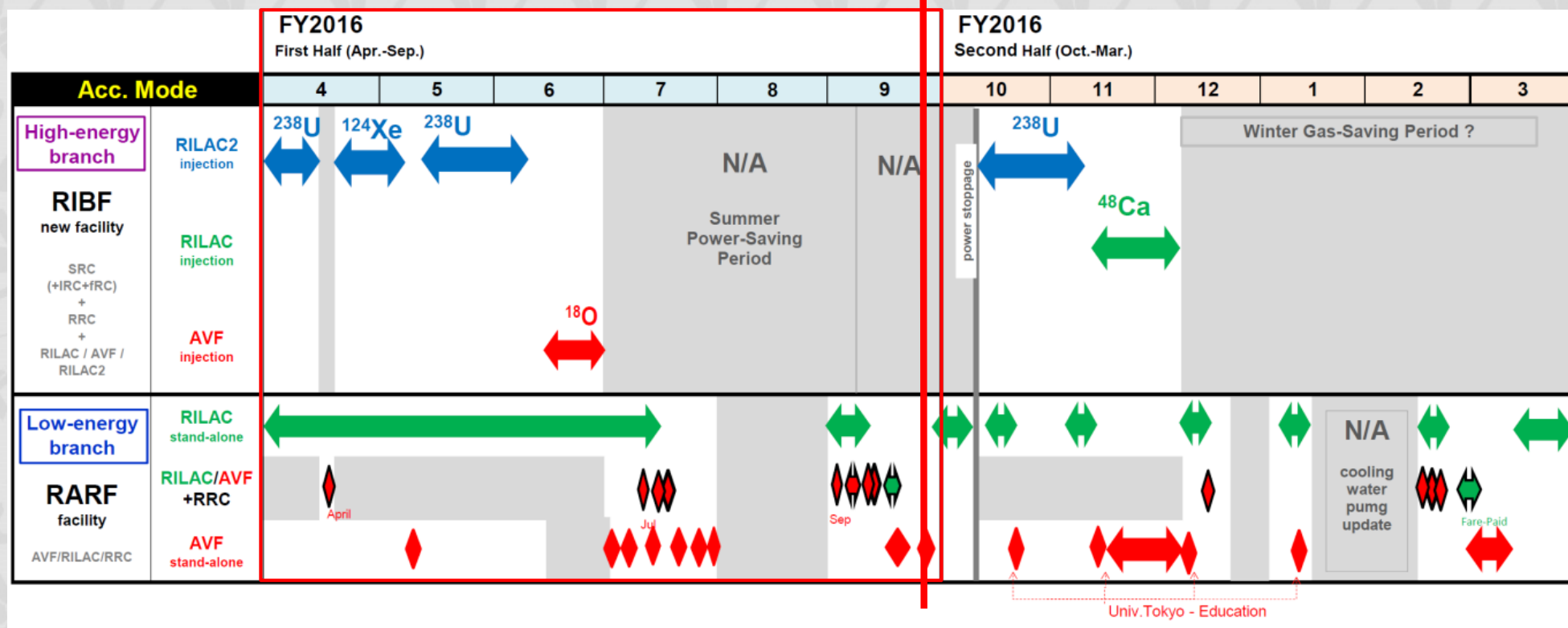
- On-Campus Accommodation
- RIBF Beam Time Operation in 1st half of FY2016
- Beam Time Plan of 2nd half of FY2016
- Announcements

On-Campus Accommodation

- 下期スケジュール分から各実験に3部屋仮予約を実施
→ 予約を「取れない」ことがある
 - ユーザグループの総意として
 - 各実験3部屋確保が重要
 - ユーザーズオフィスの3部屋確保終了後に予約可
 - 「とりあえず」の予約は不可、宿泊者が確定以降に予約を入れる
 - 予約は基本的に、理研(CNS,KEK)アシスタント経由で行う
 - を要望するか、議論いただきたい
 - 4月以降の仁科ロッジ変更
 - 利用可能な部屋数 16 → 17部屋に
 - 「全部屋加速器実験優先」の期間を指定
 - 秋は9月、10月、11月
 - webからの予約が可能に(理研内からのみ、8月から)
 - 予約は3ヶ月前から
 - 仁科ロッジ業務はH棟と統合
 - 鍵の受け取り、支払いが西門守衛所で可能に

- SRC/BigRIPS experiments
 April – June
 ^{238}U , ^{124}Xe , ^{18}O

Now



Beam Time Schedule April – June 2016

April

April 2016																																							
Proposal Number	Experiment 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	
									Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun
RILAC stand-alone																																							
NP1512 -LINACR1	-01	Peter Schury	LINAC-e2 (GARIS2)	⁴⁰ Ar	4.78 15.25 3.44	max	3	4:2 9:00	4:5 9:00																														
ML1501 -LINAC21	-01	Robert EICHLER	LINAC-e3 (GARIS)	²⁴ Mg	6	1 pA	5	4:8 9:00	4:13 9:00																														
ML1501 -LINAC21	-02	Robert EICHLER	LINAC-e3 (GARIS)	²² Ne	6	5 pA	17	4:16 9:00	9:00																														
AVF+RRC																																							
IB0702 -RRC1	-101	阿部 邦子 T. ABE	E5B	¹² C	135	1 pA	6hrs	4:23 9:00	4:23 15:00																														
ML1209 -RRC17	-15	常泉 和秀 K. TSUNEZUMI	E5B	¹² C	135	1 pA	2hrs	4:23 15:00	4:23 17:00																														
ML1209 -RRC9	-28	泉 雅子 M. IZUMI	E5B	¹² C	135	1 pA	1.5hrs	4:23 17:00	4:23 18:30																														

May

May 2016																																							
Proposal Number	Experiment 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
									Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	
RILAC stand-alone																																							
ML1501 -LINAC21	-02	Robert EICHLER	LINAC-e3 (GARIS)	²² Ne	6	5 pA	17	4:16 9:00	9:00																														
NP1512 -LINAC23	-01	木村 新大 S. KIMURA	LINAC-e2 (GARIS2)	³⁶ Ar	3.7	5 (max) pA	3	6:13 9:00	6:16 13:00																														
NP1512 -LINACR1	-02	Peter Schury	LINAC-e2 (GARIS2)	⁴⁸ Ca	4.83	1 (max) pA	6	6:25 9:00	6:28 9:00																														
NP1512 -LINAC24	-01	伊藤 由太 Y. ITO	LINAC-e2 (GARIS2)	⁴⁸ Ca	5	max	2	5:29 9:00	6:31 9:00																														
AVF stand-alone																																							
R0702 -AVF4	-57	羽藤 宏光 H. HABA	AVF-C03	d	12	10 pA	2	5:4 9:00	6:10 12:00																														

RRC trouble ESPRI

238U

SAMURAI TPC

June

June 2016																																						
Proposal Number	Experiment 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
									Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu	Fr	Sat	Sun	Mon	Tue	Wed	Thu
RILAC stand-alone																																						
NP1512 -LINAC24	-02	伊藤 由太 Y. ITO	LINAC-e2 (GARIS2)	¹⁸ O	6.5	max	3	6:3 9:00	6:8 9:00																													
NP1512 -LINAC24	-03	伊藤 由太 Y. ITO	LINAC-e2 (GARIS2)	¹⁷ O	6	max	4	6:8 9:00	6:13 9:00																													
ML1602 -LINAC30	-01	羽藤 宏光 H. HABA	LINAC-e3 (GARIS)	²³ Na	6	5 pA	7	6:16 9:00	6:23 21:00																													
MS -EXP16	-02	上垣外 修一 O. KAMIGAITO	GARIS内	α	7	10 pA	1	6:26 9:00	6:28 9:00																													
NP1512 -LINAC23	-02	木村 新大 S. KIMURA	LINAC-e2 (GARIS2)	³⁶ Ar	3.7	5 (max) pA	3	6:25 9:00	6:28 9:00																													
AVF stand-alone																																						
NP1512 -AVF27	-01	H. Yamaguchi / A. Tamii	ETA(CRIB)	⁷ Li	5.6	2 pA	2	6:4 9:00	6:8 9:00																													

EURICA final

SHARAQ

18O

SAMURAI

CNS Active Target

238U

¹²⁴Xe

Beam Time Schedule July – September 2016

July

										July 2016																														
Proposal Number	Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start time	end time	Days																															
									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	
RILAC stand-alone																																								
NP1512 -LINAC23	-02	木村 剛大 S. KIMURA	LINAC-#2 (GARIS2)	^{36}Ar	3.7	5 (max) µpA	3	9:29 9:00	7:2 9:00	[Schedule bars for July]																														
NP1512 -LINAC7R1	-03	Peter Schury	LINAC-#2 (GARIS2)	^{32}Ne	1.2-1.3 1.5-1.7	1 (max) µpA	7	7:12 9:30	7:18 9:30	[Schedule bars for July]																														
MS -ACC18	-04	今尾 浩士 H. IMAO	環状線 J25	^{238}U	1.4	100 pA	1.5	7:23 9:00	7:25 9:00	[Schedule bars for July]																														
AVF stand-alone																																								
R0702 -AVF4	-58	羽場 宏光 H. HABA	AVF-C03	α	7.25	10 µpA	1	7:2 9:00	7:3 9:00	[Schedule bars for July]																														
DD16	-01	今井 伸明 K. IMAI	E7B	^{20}Ne	8.2	250 (max) µpA	1.5	7:4 21:00	7:6 9:00	[Schedule bars for July]																														
R0702 -AVF4	-59	羽場 宏光 H. HABA	AVF-C03	d	12	10 µpA	2	7:9 9:00	7:11 9:00	[Schedule bars for July]																														
NP1512 -AVF33	-01	David M. Kahl	E7A(CRIB)	^{26}Mg	6.6	120 (max) µpA	2	7:16 21:00	7:18 21:00	[Schedule bars for July]																														
ML1307 -AVF14	-05	小林 義典 Y. KOBAYASHI	AVF-C03	p	12	10 µpA	1	7:23 21:00	7:24 21:00	[Schedule bars for July]																														
MS -ACC18	-05	大西 賢一 J. OHSEKI	AVF-C01	p	20	10 µpA	0.5	7:24 9:00	7:25 9:00	[Schedule bars for July]																														
R0702 -AVF4	-60	羽場 宏光 H. HABA	AVF-C03	α	12.5	5 µpA	2	7:30 9:00	8:1 9:00	[Schedule bars for July]																														
AVF+RRC																																								
IB0702 -RRC1	-102	阿部 知子 T. ABE	E5B	^{56}Fe	90	1 pA	3hrs	7:7 9:00	7:7 12:00	[Schedule bars for July]																														
ML1501 -RRC36	-08	富田 雅典 M. TOMITA	E5B	^{56}Fe	90	1 pA	2hrs	7:7 12:00	7:7 14:00	[Schedule bars for July]																														
ML1209 -RRC9	-09	泉 雅子 M. IZUMI	E5B	^{56}Fe	90	1 pA	1.5hr	7:7 14:00	7:7 15:30	[Schedule bars for July]																														
IB0702 -RRC1	-23	阿部 知子 T. ABE	E5B	^{49}Ar	95	1 pA	5hrs	7:14 9:00	7:14 14:00	[Schedule bars for July]																														
ML1209 -RRC9	-30	泉 雅子 M. IZUMI	E5B	^{40}Ar	95	1 pA	1.5hr	7:14 14:00	7:14 15:30	[Schedule bars for July]																														
IB0702 -RRC1	-104	阿部 知子 T. ABE	E5B	^{12}C	135	1 pA	6hrs	7:12 15:00	7:12 17:00	[Schedule bars for July]																														
ML1209 -RRC17	-16	常島 和秀 K. TSUNEZUMI	E5B	^{12}C	135	1 pA	2hrs	7:12 15:00	7:12 17:00	[Schedule bars for July]																														
ML1209 -RRC9	-31	泉 雅子 M. IZUMI	E5B	^{12}C	135	1 pA	1.5hr	7:12 15:00	7:12 16:30	[Schedule bars for July]																														
RILAC+RRC																																								
ML1501 -RRC34	-02	新藤 浩之 H. SHINDO	E3A	^{86}Kr	36	1 pA	1	7:4 9:00	7:5 12:30	[Schedule bars for July]																														
RILAC2+RRC																																								
MS -ACC16	-03	奥野 広樹 H. OKUNO	A02	α	7.3	max	1	7:15 9:00	7:16 9:00	[Schedule bars for July]																														
NP1512 -RRC40	-01	渡辺 祐 Y. WATANABE	E2B (KISS)	^{238}U	11	140 pA	2	7:17 9:30	7:19 9:30	[Schedule bars for July]																														

August

										August 2016																														
Proposal Number	Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start time	end time	Days																															
									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	
RILAC stand-alone																																								
DA13 -02	-08	森田 浩介 K. MORITA	LINAC-#3 (GARIS)	^{50}Ti	6	max	7	9:2 9:00	9:9 9:00	[Schedule bars for August]																														
R0702 -AVF4	-60	羽場 宏光 H. HABA	AVF-C03	α	12.5	5 µpA	2	7:30 9:00	8:1 9:00	[Schedule bars for August]																														
MS -ACC18	-06	大西 賢一 J. OHSEKI	AVF-C01	p	20	10 µpA	2	8:28 9:00	8:28 9:00	[Schedule bars for August]																														
AVF+RRC																																								
IB0702 -RRC1	-105	阿部 知子 T. ABE	E5B	^{56}Fe	90	1 pA	3hrs	9:1 9:00	9:1 12:00	[Schedule bars for August]																														

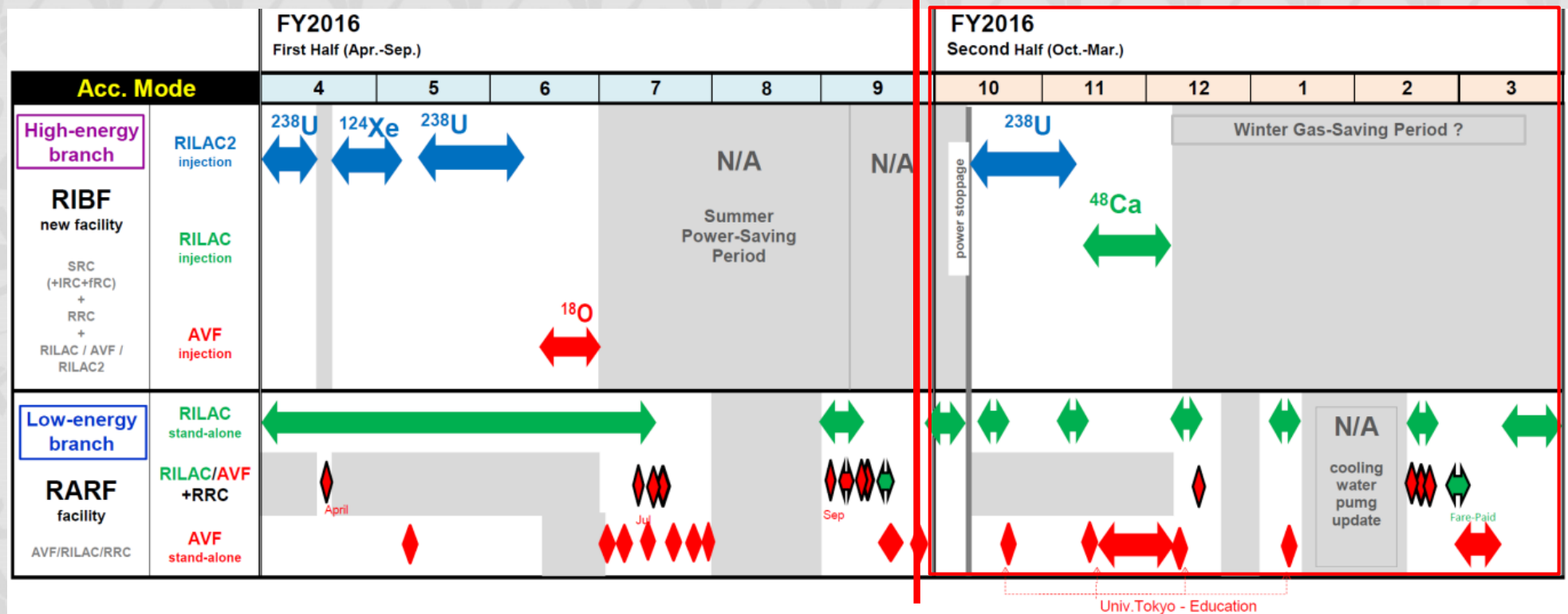
September

										September 2016																														
Proposal Number	Experiment Leader	Course	Particle	Energy (MeV/u)	Intensity	Time Frame (days)	start time	end time	Days																															
									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		
RILAC stand-alone																																								
DA13 -02	-08	森田 浩介 K. MORITA	LINAC-#3 (GARIS)	^{50}Ti	6	max	7	9:2 9:00	9:9 9:00	[Schedule bars for September]																														
DA13 -02	-09	森田 浩介 K. MORITA	LINAC-#3 (GARIS)	^{51}V	6	max	7	9:29 9:00	10:6 9:00	[Schedule bars for September]																														
AVF stand-alone																																								
NP1412 -AVF19R1	-01	K. Chae, H. Yamaguchi	E7A (CRIB)	^{16}O	8	600 pA	10	9:14 21:00	9:24 21:00	[Schedule bars for September]																														
R0702 -AVF4	-61	羽場 宏光 H. HABA	AVF-C03	d	12	10 µpA	2	9:26 21:00	9:28 21:00	[Schedule bars for September]																														
AVF+RRC																																								
IB0702 -RRC1	-105	阿部 知子 T. ABE	E5B	^{56}Fe	90	1 pA	3hrs	9:1 9:00	9:1 12:00	[Schedule bars for September]																														
ML1501 -RRC36	-09	富田 雅典 M. TOMITA	E5B	^{56}Fe	90	1 pA	2hrs	9:1 12:00	9:1 14:00	[Schedule bars for September]																														
ML1209 -RRC9	-32	泉 雅子 M. IZUMI	E5B	^{56}Fe	90	1 pA	1.5hr	9:1 14:00	9:1 15:30	[Schedule bars for September]																														
ML1602 -RRC43	-01	山崎 廣樹 H. YAMAZAKI	E6 (RIPS)	^{22}Ne	110	250 pA	4.5	9:2 21:00	9:7 15:00	[Schedule bars for September]																														
IB0702 -RRC1	-106	阿部 知子 T. ABE	E5B (RIPS)	^{12}C	135	1 pA	6hrs	9:8 15:00	9:8 15:00	[Schedule bars for September]																														
ML1209 -RRC17	-17	常島 和秀 K. TSUNEZUMI	E5B	^{12}C	135	1 pA	2hrs	9:8 15:00	9:8 17:00	[Schedule bars for September]																														
ML1209 -RRC9	-33	泉 雅子 M. IZUMI	E5B	^{12}C	135	1 pA	1.5hr	9:8 15:00	9:8 16:30	[Schedule bars for September]																														
IC15 -01	-01	吉田 敦 A. YOSHIDA	E5A	^{84}Kr	70	0.1 pA	3	10:1 9:00	10:4 9:00	[Schedule bars for September]																														
AVF+RRC+RRC																																								
IB0702 -RRC1	-03	阿部 知子 T. ABE	E5B	^{40}Ar	160	1 pA	4hrs	9:13 9:00	9:13 13:00	[Schedule bars for September]																														
RILAC+RRC																																								
ML1307 -RRC26	-02	三原 基嗣 M. MIYAHARA	E6 (RIPS)	^{50}Ni	63	200 (max) µpA	2.5	9:17 21:00	9:20 21:00	[Schedule bars for September]																														
RILAC2+RRC																																								
NP1512 -RRC41	-01	平山 賢一 Y. HIRAYAMA	E2B (KISS)	^{136}Xe	10.75	250 pA	2	9:21 9:00	9:23 9:00	[Schedule bars for September]																														

Low-energy branch only

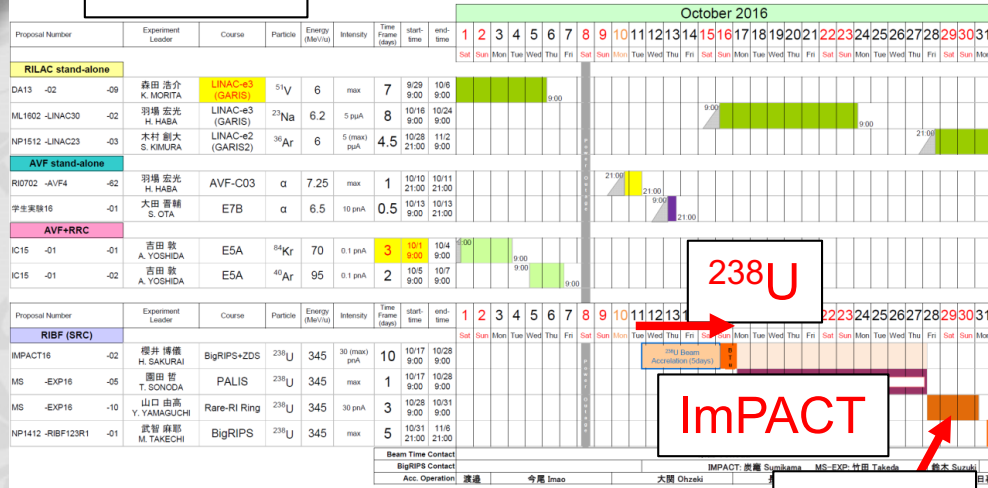
- SRC/BigRIPS experiments
 “135 days” operation
 ^{238}U , ^{48}Ca (will be running out?)

Now



Beam Time Schedule Plan: Oct.– Dec. 2016

October

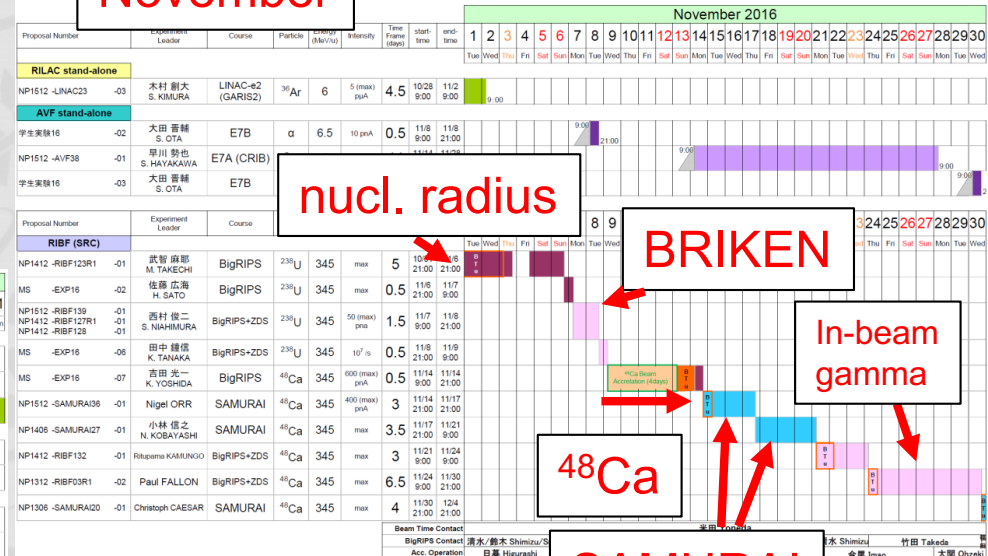


238U

ImPACT

R3 test

November



nucl. radius

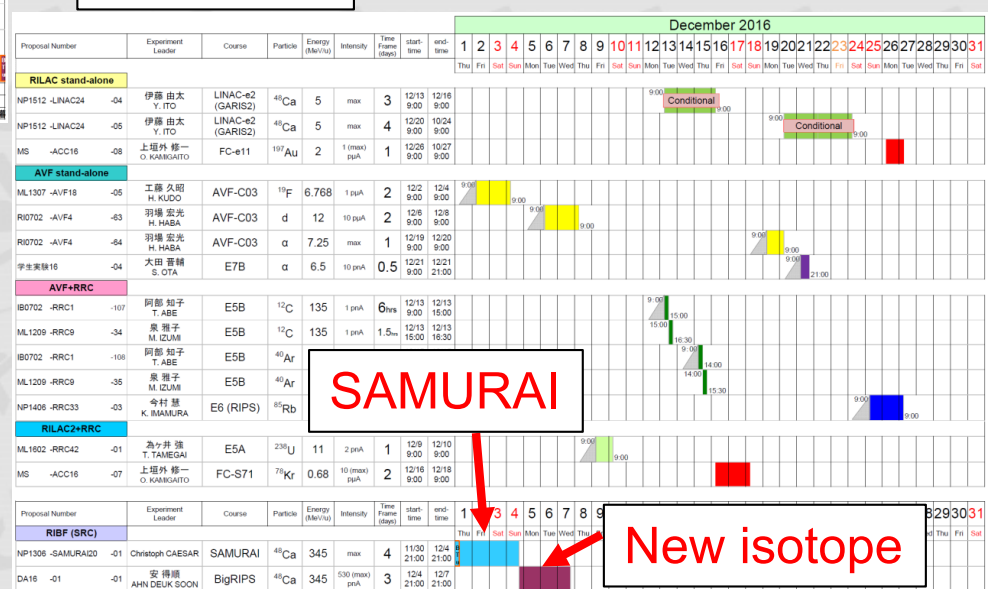
BRIKEN

In-beam gamma

⁴⁸Ca

SAMURAI

December



SAMURAI

New isotope

Backlog experiments

beam	# exp	days
Light ions	4	24.5
^{18}O	4	20
^{48}Ca	4	13.5
^{70}Zn	5	34
^{78}Kr	2	10
^{238}U	9	35.5
Total	28	137.5

* 14.5 days to be re-evaluated not included

FY2016 – 80.5 days of PAC-approved exps to be done
 FY2015 – 62 days of PAC-approved exps done

Announcements

- NP-PAC
 - Once a Year (for a while)
 - Next: December 1-3, 2016
 - Call for Proposals issued in July, deadline October 11
 - Replacement of proposals after submission deadline is NOT accepted
- RIBF Symposium and Mini-Workshop
 - http://www.nishina.riken.go.jp/ulic/ulic_apply.html
 - [Symposium]
Objective: Exchange views among researchers in a relevant field.
Maximum amount of financial support: 500,000 JPY
Deadline: Application must be submitted in March and in September.
 - [Mini-Workshop]
Objective: To solve specific problem. Analysis meeting is acceptable.
Maximum amount of financial support: 150,000 JPY
Deadline: Applications will be accepted all the time being reviewed and evaluated immediately.

RIBF Users Thesis award

Reports on Thesis Award 2016

- In the call of recommendations of nominees, a new category of theoretical study related to physics at RIBF has been added.
 1. Experimental study related to an RIBF facility
 2. Theoretical study related to physics at RIBF (new!)
- Recommendations of nominees have been called by RIBF-UEC and RIKEN Nishina Center(RNC), officially the UEC chair and the RNC director.
 - The selection committee consists of UEC members and a member from the RNC who was appointed by the UEC chair and the RNC director.
 - Certifications and plates (new!) have been given to winners.
 - A certificate ceremony and Award lectures have been held in the special session of RIBF users group meeting (Sep.8).

Results

- As already announced in the RIBF-users ML, two theses have been selected from 9 applicants including 4 applicants from non-Japanese institutions (5 experimental and 4 theoretical theses),
- Dr. Kosho Minomo (RCNP, Osaka)
 - "Determination of deformed and halo structure of unstable nuclei by fully microscopic theory"
- Dr. Clementine Santamaria (NSCL, MSU)
 - "Quest for new nuclear magic numbers with MINOS"



Non-English thesis

- UEC discussed application of non-English thesis and decided to accept a non-English thesis only if there is English publication(s) which contains main results of the thesis.
- Moreover,
 - An extended abstract (About 5 pages) will be requested.
 - including brief description of each chapter.
 - In case that no one in the selection committee can read the original thesis, we ask native reviewers from outside.
 - More than one referee per report is desirable.

RIBF Users Meeting 2016

- 2016/09/08 – 2016/09/09
 - Hosted by UEC and RNC
 - 23 talks
 - 16 poster presentation
 - no collaboration days
 - registration fee
 - 4000 JPY (2000 JPY for poster, 2000 JPY for break and others)
 - 2000 JPY (student)
 - 0 JPY (student w/ poster)

Organization

- LOC chose the invited talks which covers each project. Posters are contributed.
- No topical talk was allocated.
- First trial to organize the Users Meeting without budgetary support from Nishina center.
 - Users meeting is Users' meeting.

Country	Number
JAPAN	64
US	3
FRANCE	2
GERMANY	2
KOREA	2
UK	1
CANADA	1
TOTAL	75

including 13 students

Balance for registration fee

	Income	Outgo	Balance
registration fee	250,000		
break		48394	
poster		151040	
name plate		18735	
	250000	218169	31831