

LINAC2026 to TOKYO

LINAC2026 Tokyo Bid Committee



Outline for the presentation **Tokyo for LINAC 2026**

- 1. Greetings from the LINAC 2026 Tokyo Bid Committee**
- 2. Why Japan / Tokyo**
- 3. Proposed Dates and Venue**
- 4. Conference Program**
- 5. Accommodation**
- 6. Host City Tokyo**
- 7. Access to Tokyo**
- 8. Support from Tokyo Metropolitan Government**
- 9. Support from Associations**



1. Greetings from the LINAC 2026 Tokyo Bid Committee



Bid Committee Chair

Osamu KAMIGAITO

Accelerator Group Director

RIKEN Nishina Center for Accelerator-Based Science



Bid Committee Deputy-Chair

Naruhiko SAKAMOTO

Team Leader,

RIKEN Nishina Center for Accelerator-Based Science



Bid Committee Members

Kazuo HASEGAWA, Dept. of Fusion Reactor Materials Research, QST



Toshiyuki SHIRAI, Dept. of Accelerator and Medical Physics, NIRS, QST

Hidetomo OGURI, Accelerator Division, J-PARC



Kensei UMEMORI, Accelerator Laboratory, KEK



Masanori SATO, Accelerator Laboratory, KEK

Shigeru KASHIWAGI, ELPH, Tohoku Univ.



Kazunari YAMADA, RIKEN Nishina Center



Karen SAKUMA, RIKEN Nishina Center



The host institute will be RIKEN Nishina Center.

2. Why Tokyo

Japan's advanced position in accelerator science.

Long History: 1st cyclotron in 1937 (RIKEN)

World-leading accelerators:

J-PARC (physics, material), Super KEKB (physics) ,

HIMAC (medical), RIKEN RIBF (radioisotopes) ...

Outstanding achievements:

Nobel prize (2008: CP violation @KEKB)

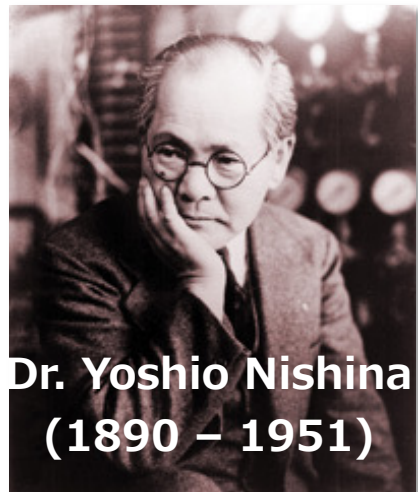
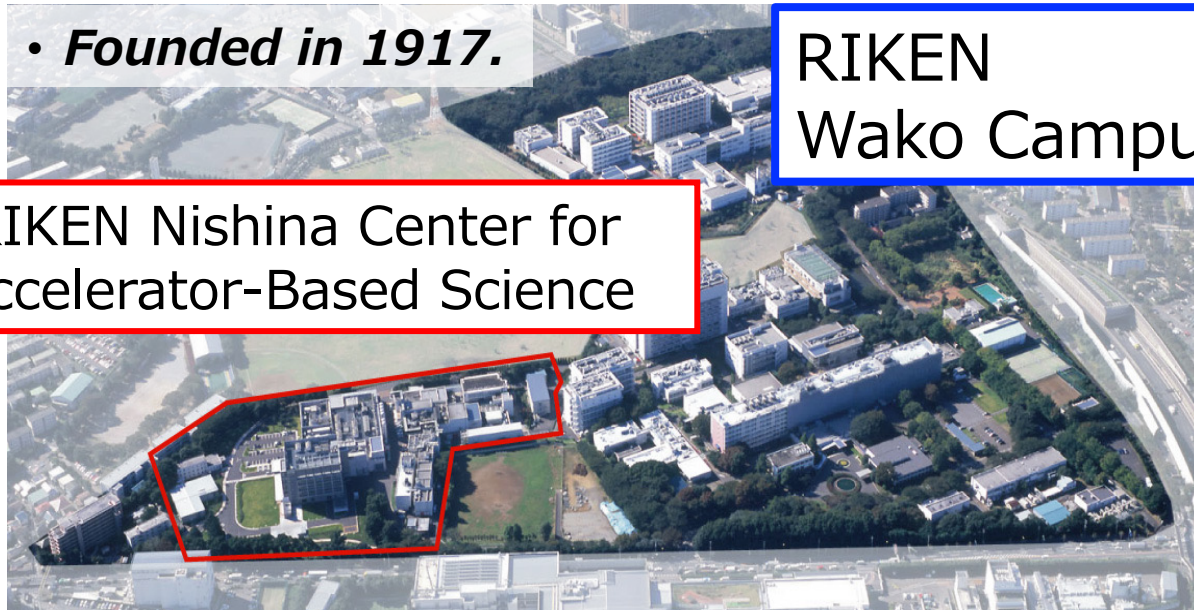
New element "nihonium" (2016 @**RIKEN RIBF**) ...

RIKEN: www.riken.jp/en/

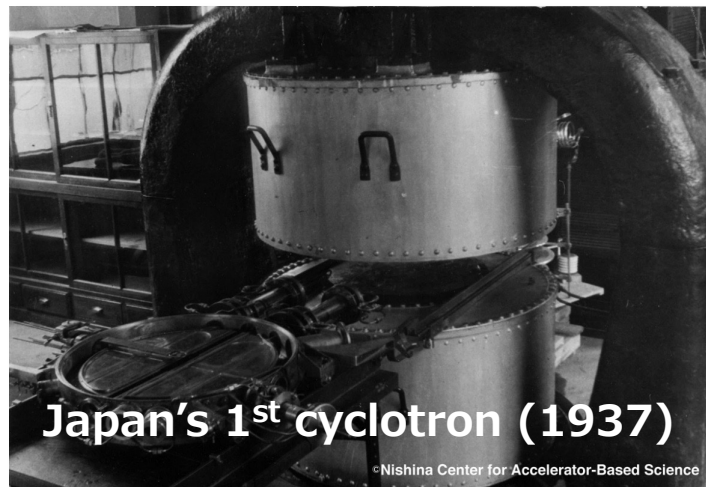
• *Founded in 1917.*

RIKEN Nishina Center for
Accelerator-Based Science

RIKEN
Wako Campus



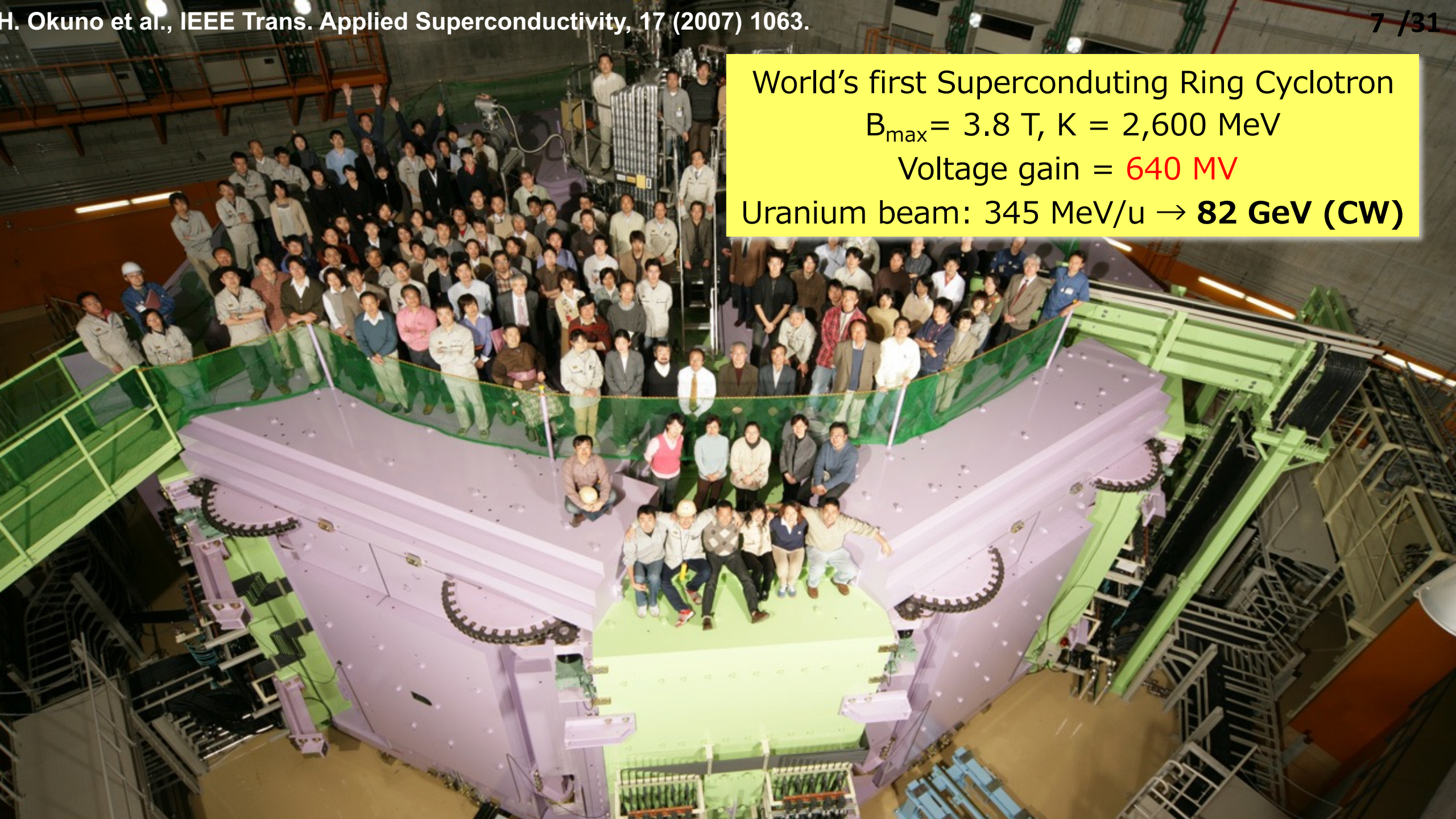
Dr. Yoshio Nishina
(1890 – 1951)



Japan's 1st cyclotron (1937)

©Nishina Center for Accelerator-Based Science

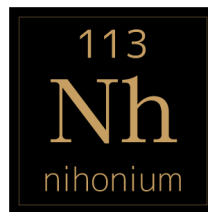
Greater Tokyo Area



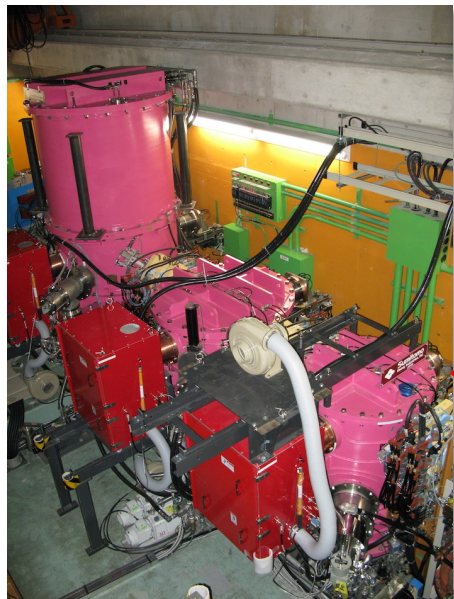
World's first Superconducting Ring Cyclotron
 $B_{\max} = 3.8 \text{ T}$, $K = 2,600 \text{ MeV}$
Voltage gain = **640 MV**
Uranium beam: $345 \text{ MeV/u} \rightarrow \mathbf{82 \text{ GeV (CW)}}$

RIKEN RIBF

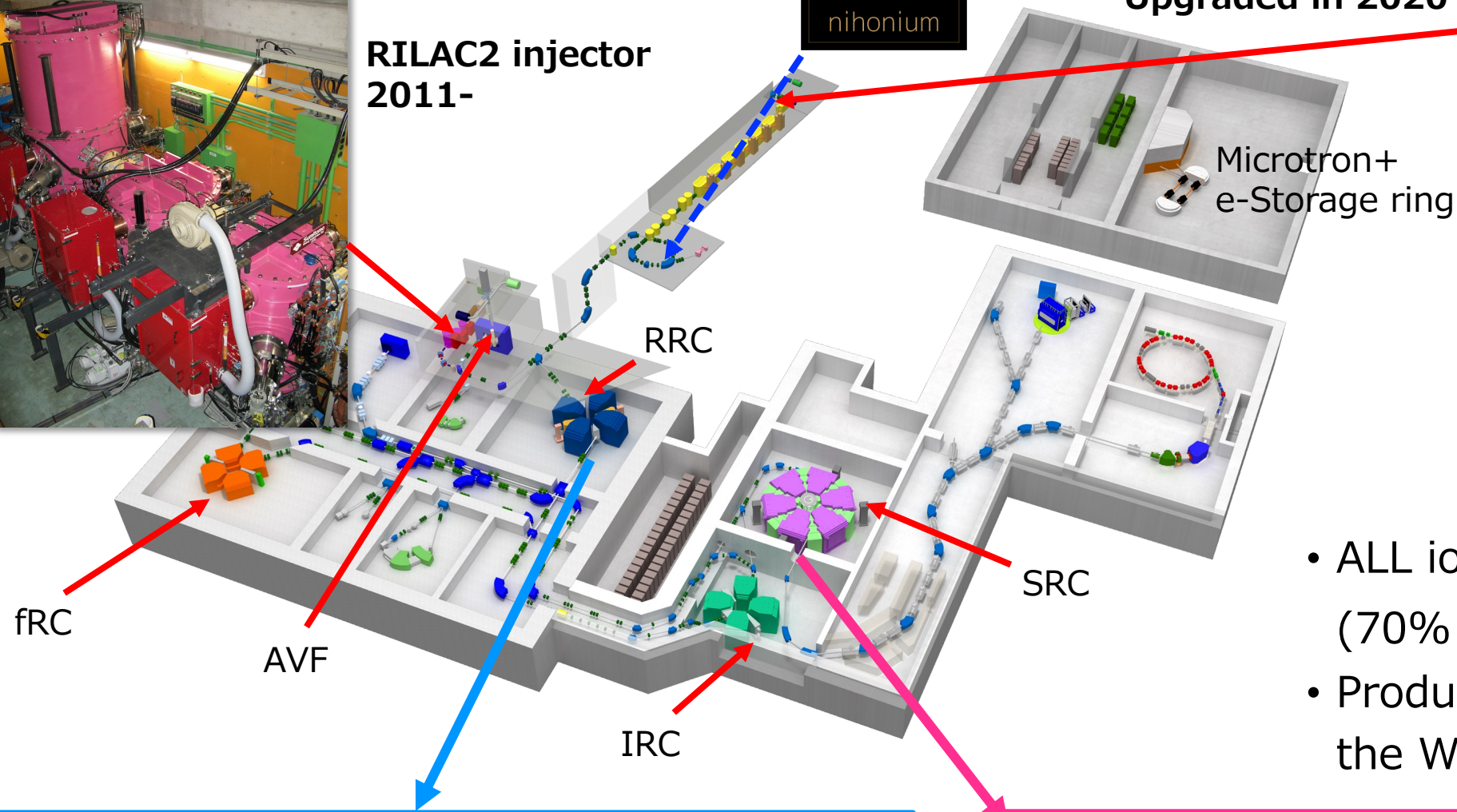
nihonium (2016)



RIKEN Heavy-ion Linac
(RILAC) 1981-
Upgraded in 2020



RILAC2 injector
2011-

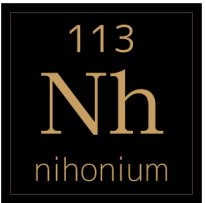


- ALL ions, up to 345 MeV/u (70% of C) in CW mode.
- Production of RI beams in the WHOLE mass region.

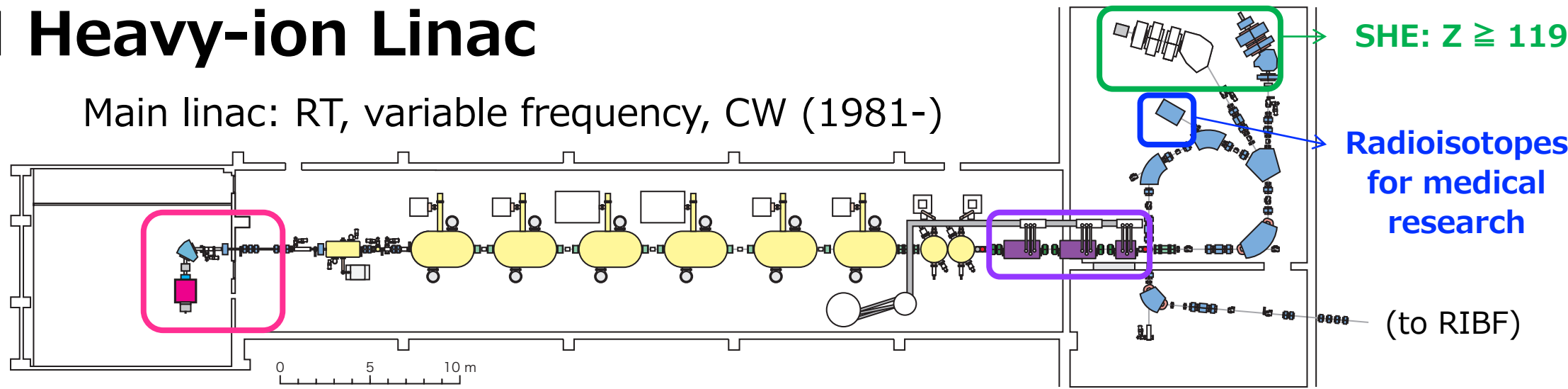
Heavy-ion beams of 5-10 MeV/u, ~3 kW

Heavy-ion beams of 345 MeV/u, ~20 kW

RIKEN Heavy-ion Linac



Main linac: RT, variable frequency, CW (1981-)



28GHz SC-ECRIS

RILAC upgrade project

Superconducting Linac Booster "SRILAC"



Higher Intensity

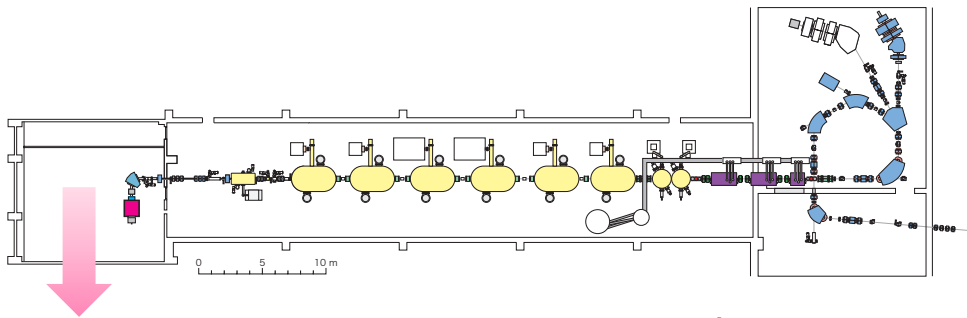


Completed in Jan. 2020

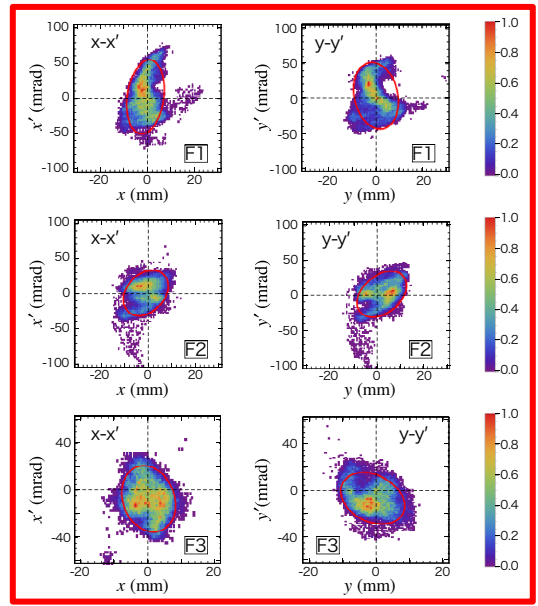
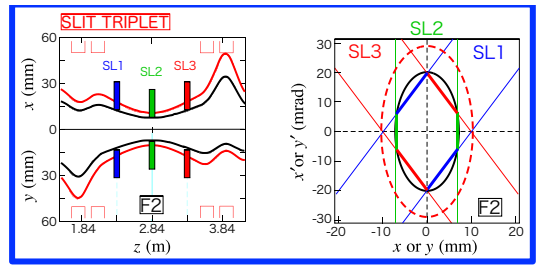


Higher Energy

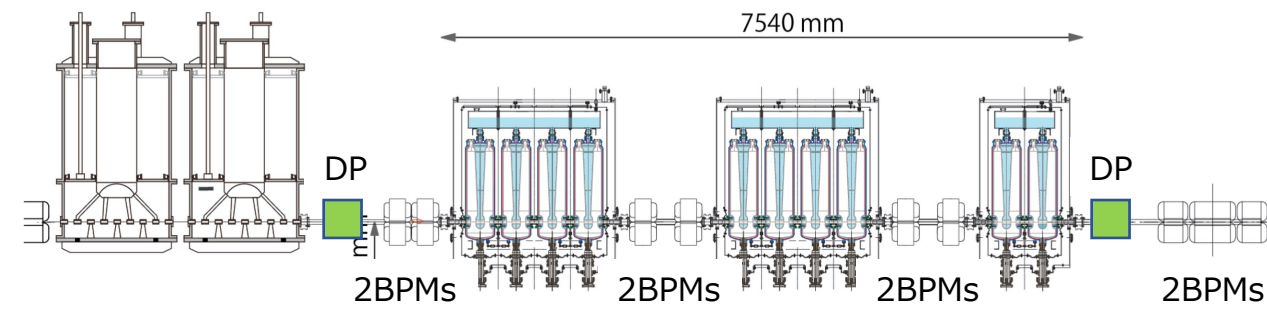




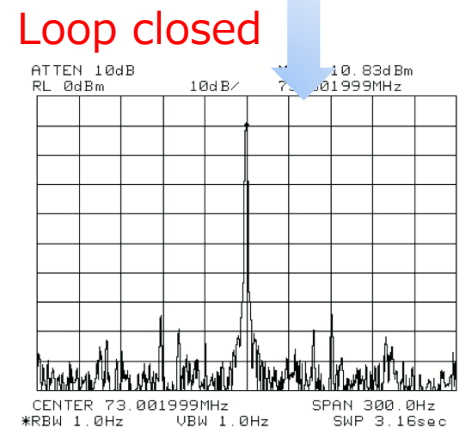
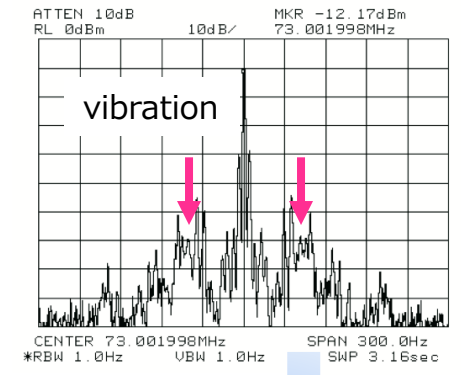
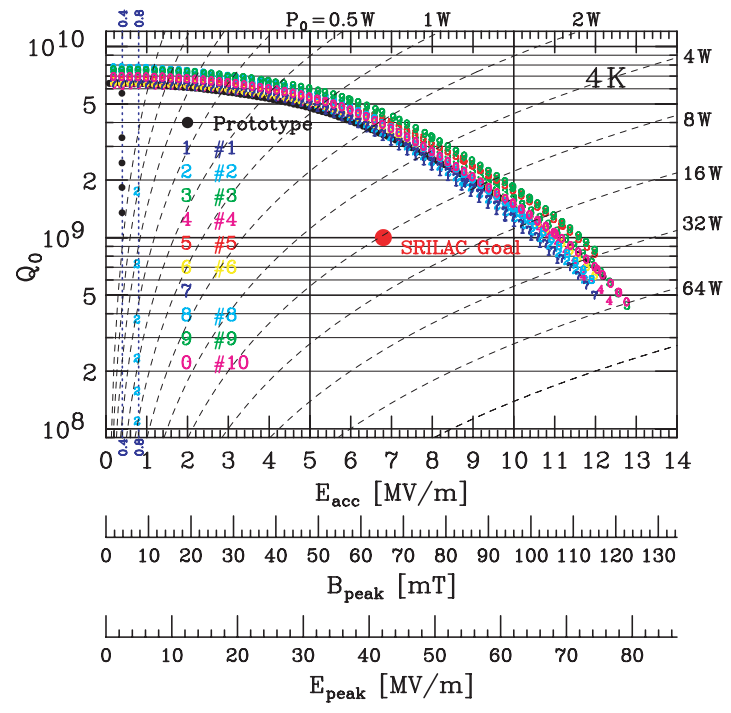
Emittance control with slit triplet Non-destructive BPM



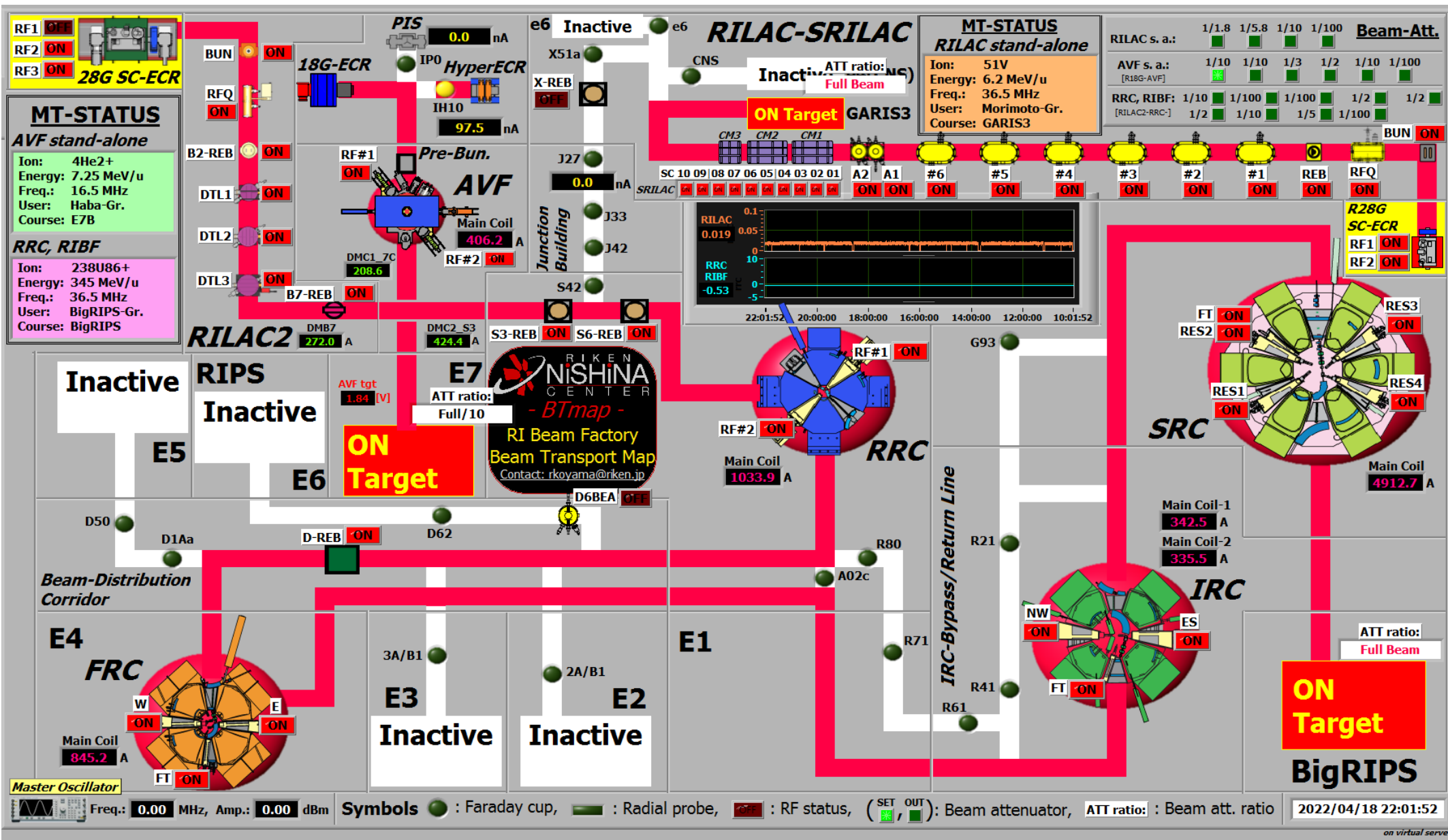
Differential pumping system (DP)



10 cavities (73 MHz) in 3 CMs

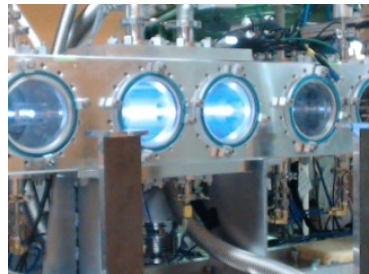
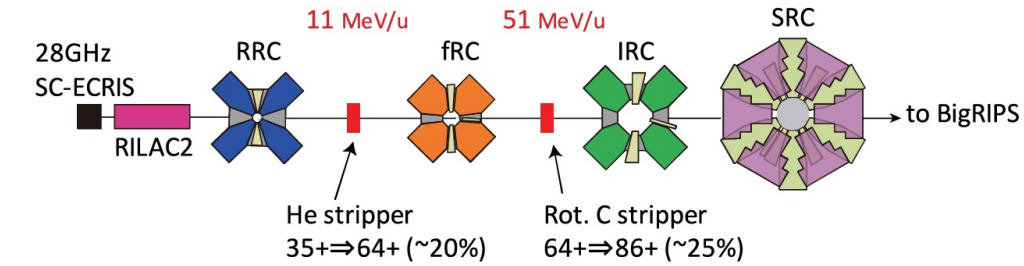


Loop closed

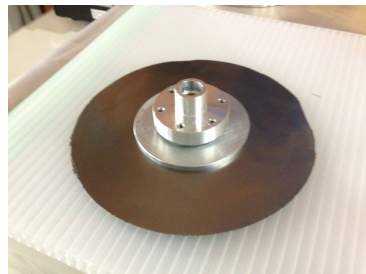


RIBF upgrade concept: advancement foreseen by 2026

Present acceleration scheme

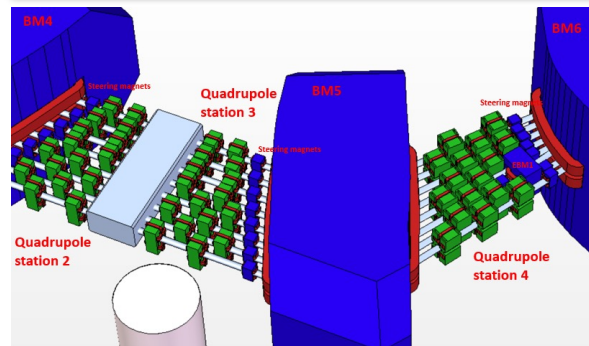
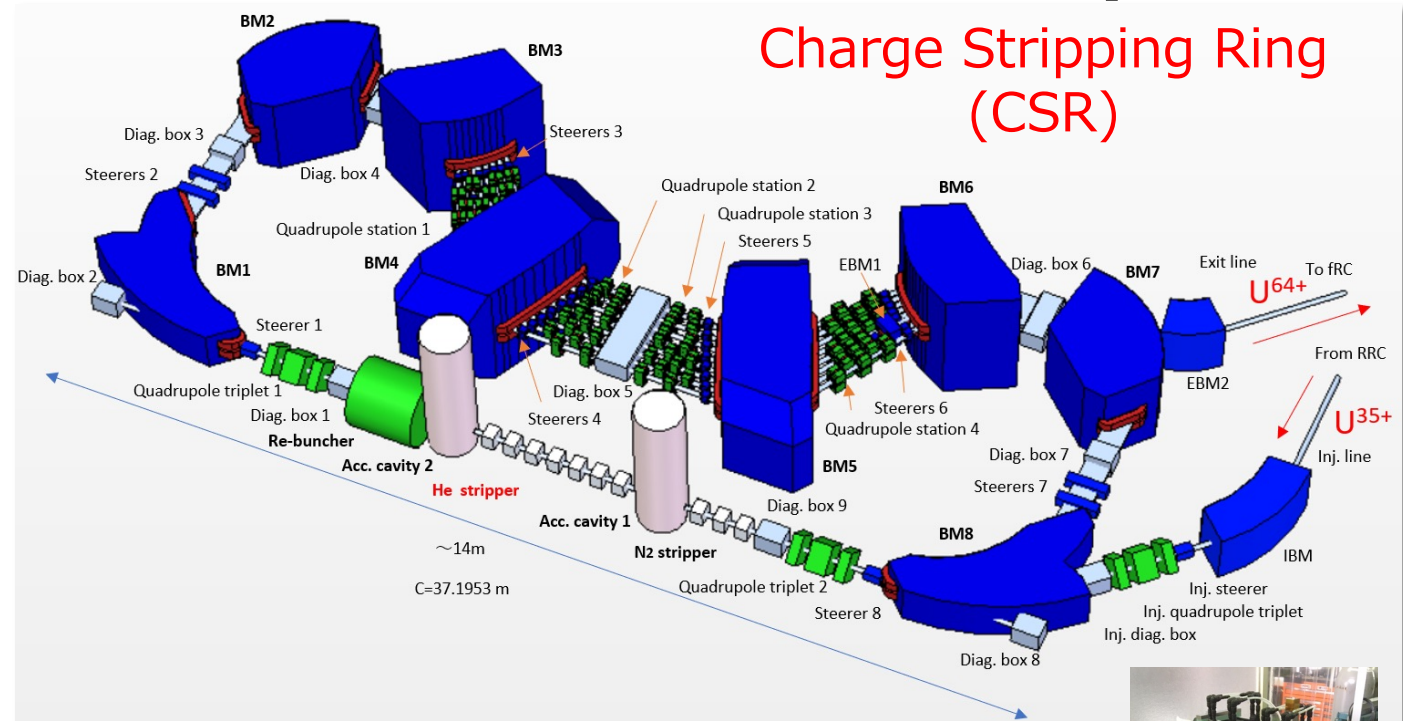
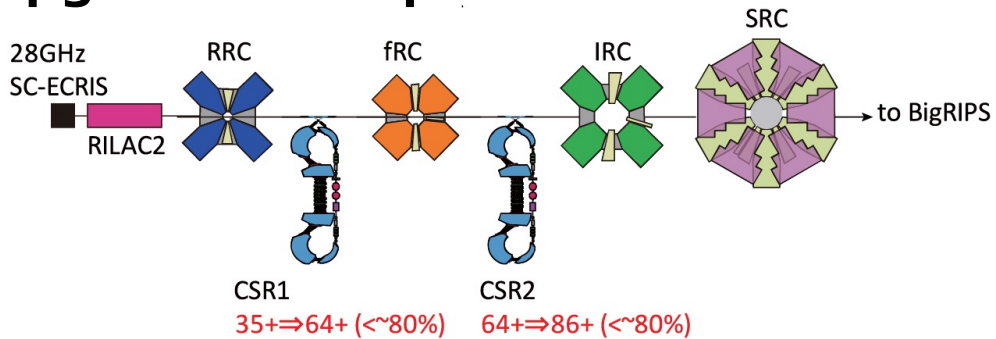


Helium gas

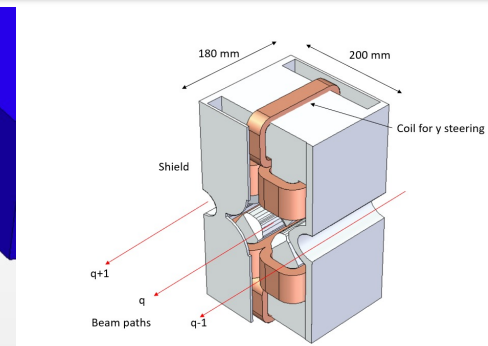


Graphite disk

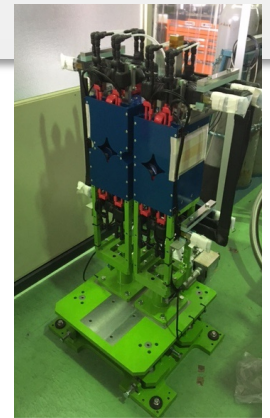
Upgrade concept based on "CSR"



Quadrupole stations



"Hourglass-like" Q



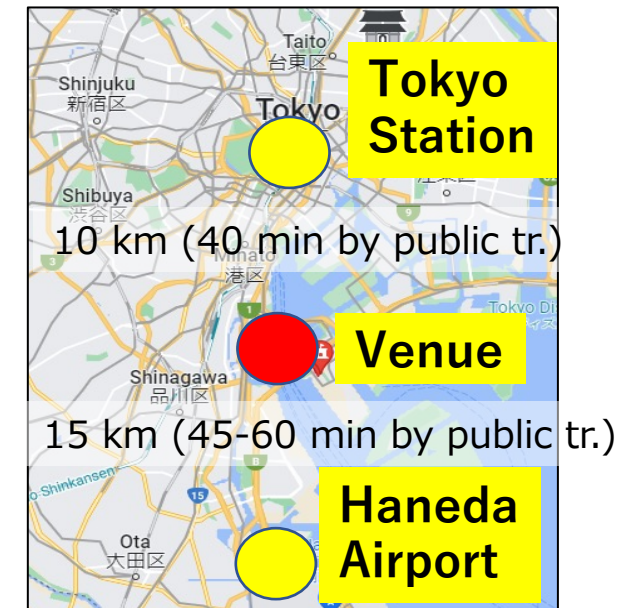
prototype

3. Proposed Dates and Venue

Dates: Sunday, 6th – Friday, 11th September 2026

Venue: Plaza HEISEI, Tokyo International Exchange Center

<https://www.jasso.go.jp/en/ryugaku/kyoten/tiec/plazaheisei/index.html>

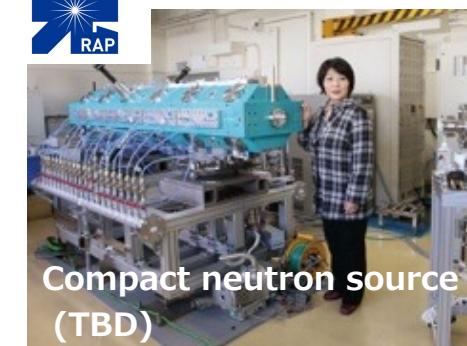


75 km (90-120 min by public tr.) from/to Narita Airport

4. Conference Program

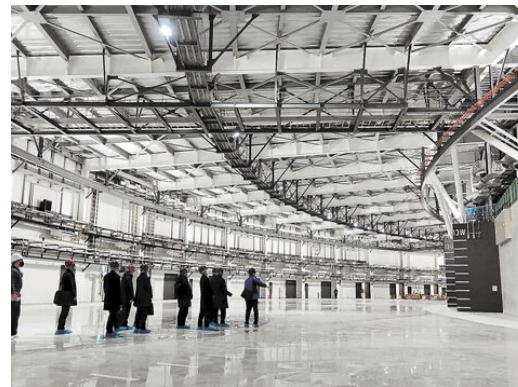
Sep. 6 (Sun)	Sep. 7 (Mon)	Sep. 8 (Tue)	Sep. 9 (Wed)	Sep. 10 (Thr)	Sep. 11 (Fri)
	Opening/ Plenary	Plenary	Plenary	Plenary	Plenary
	Coffee break				
	Plenary	Plenary	Plenary	Plenary	Plenary/ Closing
	Lunch break	Lunch break	Lunch box	Lunch break	Lunch box
Registration	Plenary	Plenary	Outing	Plenary	Visit to RIKEN
	Oral posters	Oral posters		Oral posters	
Student poster	Poster session	Poster session		Poster session	
Welcome reception	Speakers' reception			Conference dinner	

Visit to RIKEN



Compact neutron source
(TBD)

Post-conference visit to “Nano Terasu” – New photon ring @Tohoku Univ.



Outing & Conference dinner

Guided tour in Tokyo downtown & Tokyo bay cruise

Tokyo cruise



Hama-rikyu garden



Asakusa



Tokyo Sky Tree



Edo-Tokyo museum



Accompanying persons' programs & Optional tours



Tokyo night-view tour



Mt. Takao-san



Yokohama



Hakone



Kamakura



Nikko

Budget plan (1/2)

Income

Exchange rate: 1USD=125JPY

Income	Type	Number	Rate(JPY)	Total(JPY)	Total(USD)
Registration	Early	250	¥70,000	¥17,500,000	\$140,000
	Regular	50	¥80,000	¥4,000,000	\$32,000
	Students	20	¥25,000	¥500,000	\$4,000
	Accompanying persons	20	¥20,000	¥400,000	\$3,200
	Exhibitors	30	¥300,000	¥9,000,000	\$72,000
Sponsorship	Tokyo Gov.			¥8,000,000	\$64,000
Total				¥39,400,000	\$315,200

Budget plan (2/2)

Expenses

Exchange rate: 1USD=125JPY

Expenses		Cost(JPY)	Number	Servings	Total(JPY)	Total(USD)
Venue	Plaza HEISEI	¥9,000,000	1	1	¥9,000,000	\$72,000
	Exhibition stands	¥1,000,000	1	1	¥1,000,000	\$8,000
	Poster setup	¥1,000,000	1	1	¥1,000,000	\$8,000
	Audio/Visual Lease	¥1,000,000	1	1	¥1,000,000	\$8,000
Catering	Lunches	¥2,000	350	3	¥2,100,000	\$16,800
	Refreshments	¥1,200	350	10	¥4,200,000	\$33,600
	Welcome Reception	¥6,000	350	1	¥2,100,000	\$16,800
	Banquet	¥13,000	350	1	¥4,550,000	\$36,400
	IOC & Speaker dinner	¥10,000	45	1	¥450,000	\$3,600
Conference	PCO	¥5,000,000	1	1	¥5,000,000	\$40,000
	Conference bags	¥1,000	350	1	¥350,000	\$2,800
	Conference gifts	¥2,500	350	1	¥875,000	\$7,000
	Program booklets	¥1,500	350	1	¥525,000	\$4,200
	Student awards	¥200,000	1	1	¥200,000	\$1,600
	Proc. Staff expenses	¥250,000	6	1	¥1,500,000	\$12,000
	Part-time supports	¥10,000	15	6	¥900,000	\$7,200
	Plenary speakers	¥500,000	2	1	¥1,000,000	\$8,000
	Conference signboard	¥150,000	1	1	¥150,000	\$1,200
	Equipment transport	¥50,000	1	1	¥50,000	\$400
Events	Excursion lunches	¥1,500	200	1	¥300,000	\$2,400
	Excursion dinner	¥3,000	200	1	¥600,000	\$4,800
	Excursion transport	¥200,000	5	1	¥1,000,000	\$8,000
	Facility tour dinner	¥4,000	150	1	¥600,000	\$4,800
	Facility tour transport	¥150,000	5	1	¥750,000	\$6,000
	Banquet entertainment	¥200,000	1	1	¥200,000	\$1,600
Total					¥39,400,000	\$315,200

Our experience

International conferences/workshops

- CYC2004
- INTDS2014
- HIAT2015 (with JACoW)
- TTC2018

chaired by Accelerator Group members



Upcoming events

- 8th HPTW (2023)
- SRF2025

Nishina Center has hosted many international conferences on nuclear physics, such as ARIS2014, NN2018, etc..

8th High Power Targetry Workshop
May 25-29, 2020
Venue: RIKEN Wako campus

SCOPE
The HPT Workshop brings together scientists and engineers from the international community for particle accelerator targetry. Applications include machine facilities, machine facilities, radioactive ion beam facilities, material irradiation facilities, accelerator driven systems, and precision experiments for rare processes.

Themes for the workshop include:

1. R&D to support concepts
2. Radiation damage in target material and related simulations
3. Post-irradiation examination
4. Target design, analysis, selection of concepts
5. Health related challenges
6. Certification, fabrication, inspection, quality assurance
7. Operation of targetry and beam dumps
8. Waste, R&D
9. Multipurpose use of targets and beam dumps

Scientific Program Committee:

- C. Beaudoin (CERN)
- D. Das (JAEA)
- E. G. Ferrel (CERN)
- H. Fujita (RIKEN)
- I. Lind (JAEA)
- M. Mitsuoka (RIKEN)
- N. Okamoto (RIKEN)
- R. Oishi (RIKEN)
- S. Sato (RIKEN)
- T. Sato (RIKEN)
- T. Suda (RIKEN)
- Y. Yamamoto (RIKEN)

Local Organizing Committee:

- K. Ohno (RIKEN)
- S. Yamamoto (RIKEN)
- T. Yamamoto (RIKEN)
- T. Sato (RIKEN)
- T. Suda (RIKEN)
- T. Sato (RIKEN)
- T. Sato (RIKEN)
- T. Sato (RIKEN)
- T. Sato (RIKEN)
- T. Sato (RIKEN)

J-PARC

TESLA Technology Collaboration Meeting
26-29 June 2018

The mission of the TESLA Technology Collaboration (TTC) is to bring together experts in the field of TESLA and related accelerator technologies across the broad diversity of scientific applications. It is to keep open and provide a bridge for communication and sharing of ideas, developments, and progress in associated projects. To this end the Collaboration supports and encourages free and open exchange of scientific and technical knowledge, expertise, engineering design, and equipment.

You are welcome to the yearly TTC meeting to be held at RIKEN Nishina Center, SPring-8.

Venue:
RIKEN Nishina Center
2-1 Hirosawa Wako
351-0205 Saitama, Japan

Open seminars on Friday June 29th:

- 11:00AM Industrial applications in compact-ERL at KEK: EUV light source for semiconductor lithography, Me-PF production for medical applications, and Non-destructive inspection for nuclear security system (Saitama, Saitama, JPN)
- TTC-SSM Next generation high intensity neutron source at GSI-Rokkasho: A-FNS (Saitama, Saitama, JPN)

TTC Meeting Scientific Program Committee:

- Hans Waser (DESY), TTC-chair
- Robert Lauder (TRIUMF)
- Eiji Kaku (RIKEN) (DESY)
- Wolfgang Herr (DESY)
- Naruho Sakuma (RIKEN) LOC-chair
- Sergio Belomestnykh (FNAL)
- Alvaro Yamamoto (KVI/CERN)
- Paolo Ferrero (ISIS)

<https://nbt.riken.jp/TTC2018/>

NISHINA

13th International Conference on Heavy Ion Accelerator Technology
HIAT 2015
YOKOHAMA, JAPAN
September 7 - 11, 2015






Conference Venue: WORKPIA YOKOHAMA
Hosted by RIKEN Nishina Center
Conference Chair: Osamu Kamegaito

HIAT 2015
400x566

www.nishina.riken.jp/hiat2015

NISHINA

5. Accommodation

	Hotel Name	Distance	Rooms
1	Hotel Grand Nikko Daiba 23,800 JPY (183 USD & up)	 10 min	844
2	Hilton Tokyo Daiba 31,897 JPY (245 USD & up)	 12 min	452
3	Tokyo Bay Ariake Washington Hotel 11,480 JPY (88 USD & up)	 15 min	830
4	Sotetsu Grand Fresa Tokyo-bay Ariake 10,650 JPY (81 USD & up)	 15 min	790
5	Daiwa Roynet Hotel 14,900 JPY (114 USD & up)	 17 min	207

*Numbers on the list and map are corresponding.

*Prices are based on Sep.2022 including breakfast, service charge and tax.



Sample Accommodation Options

Superior Room (30sqm)
Grand Nikko Tokyo Daiba



Hilton Room (30sqm)
Hilton Tokyo Daiba



Standard Single Room (14.3sqm)
Tokyo Bay Ariake Washington Hotel



Standard Double (17.3-21.7sqm)
Sotetsu Grand Fresa Tokyo-bay Ariake



Standard Double Room (21sqm)
Daiwa Roynet Hotel Tokyo Ariake



6. Host City Tokyo

- **Site of the 2020 Olympic and Paralympic Games**

The city's infrastructure has been upgraded

Hospitality has been enriched

- **7th popular city in the world for int'l conf. organizers**

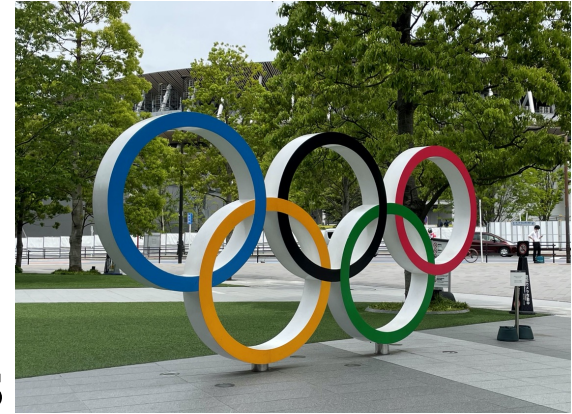
according to the Union of International Associations (UIA) statistics in 2019

- **The world's safest city**

according to 2019 Economist Intelligence Unit Report

- The roads are exceptionally **clean**, the air is **clear**,
and tap water is **safe** to drink.

- **Top 5** in the COVID-19 Regional Safety Assessment



Track Record of Conferences Held in Tokyo

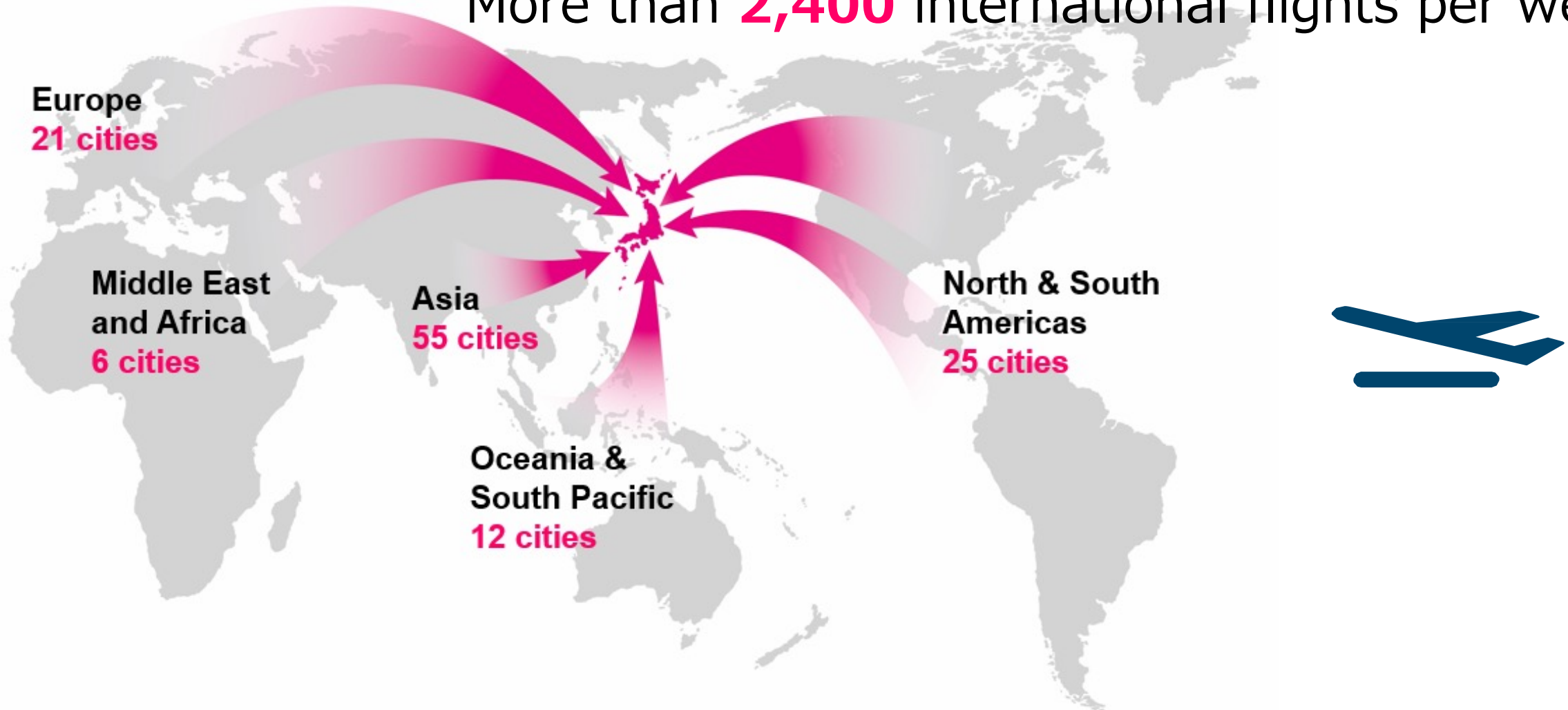
Year	Name of Conference	Attendees
2012	2012 Annual Meetings of the IMF and the World Bank Group	12,000
2013	9th World Endodontic Congress of IFEA	1,500
	Intelligent Transport Systems World Congress and Exhibition	4,000
2014	World Ophthalmology Congress	20,000
	International Bar Association General Meeting	6,300
	International Electrotechnical Commission General Meeting	2,600
2015	OpenStack Summit October 2015 Tokyo	5,000
2016	25th Conference of The Asian Pacific Association for the Study of the Liver	4,500
	46th Annual Meeting of the International Continence Society	2,100
	ISQua 33rd International Conference	1,200
2017	Global Summit of Women	1,400
	21st Asian Congress of Surgery / The 79th Annual Congress of Japan Surgical Association	6,500
2018	2018 IWA World Water Congress & Exhibition	10,000
	SIGGRAPH Asia 2018	7,000

Track Record of Conferences Held in Tokyo

Year	Name of Conference	Attendees
2019	29th International Cartographic Conference	1,100
	FASAVA (Federation of Asian Small Animal Veterinary Association) 2019 Congress	2,200
2020	International Conference on Very Large Data Base *Online"	5,000
2021	SIGGRAPH Asia 2021	10,000
2022	22nd International Congress of Nutrition	4,500
	The 6th World Trauma Congress	1,000
	One Young World Summit 2022	2,000
	31st Inter-Pacific Bar Association Annual Meeting and Conference	1,300
	International Society for Diseases of the Esophagus	1,100
2023	1st International Societies for Investigative Dermatology Meeting	2,500
	International Congress of Industrial and Applied Mathematics	3,000
	World Confederation for Physical Therapy General Meeting and Congress	6,000
2026	33rd International Congress of Actuaries	2,000

7. Access to Tokyo

More than **2,400** international flights per week



8. Support from Tokyo Metropolitan Government



Financial Support



In-Kind Support



Tokyo Convention & Visitors Bureau
Business Events Team

Financial Support from the Tokyo Metropolitan Government

- Maximum subsidy of **8,000,000 JPY (approximately 61,500 USD*)** *1 USD = 130 JPY
- Applicable to offset 75% of total costs of venue rental, installation of Wi-Fi, audio visual equipment rental and signboards
- Calculated based on “Visitor Nights”
= Number of on-site overseas attendees X number of conference days
i.e., 250 overseas attendees X 6 conference days = **1,500 visitor nights**

Total Overseas “Visitor Nights” in Tokyo	Maximum Amount of Subsidy (JPY)
800 – 1,599	8,000,000
400 – 799	4,000,000



In-Kind Support from the Tokyo Metropolitan Government

➤ Half day city tours or technical tours

40 people × 6 courses

➤ Information desk

2 days at the airport and 4 days at the venue



9. Support from Associations (to be applied for)

- Foundation for High-Energy Accelerator Science

<https://www.heas.jp/index.shtm>

- Yamada Science Foundation

<https://yamadazaidan.jp/en/>

- The Japan World Exposition 1970 Commemorative Fund

<https://www.osaka21.or.jp/jecfund/english/>

- Conference Support by RCNP, Osaka University
¥400,000 JPY (total) for support of students & young researchers

- RIKEN Symposium Support

An aerial photograph of a modern city skyline, likely Tokyo, featuring several prominent glass skyscrapers and a mix of architectural styles. The foreground shows a river and lush green trees. The sky is bright blue with scattered white clouds. The text 'See you in TOKYO at LINAC2026' is overlaid in large, white, outlined letters across the upper portion of the image.

See you in TOKYO
at LINAC2026