

To: Spokesperson (and Liaison) of Approved Proposals of project

From: HIMAC Machine-Time Committee (Chair, Yoshiyuki Iwata)

Call for HIMAC Machine-Time Request

We are calling Machine-Time request for Term I (Apr. to Aug.) in FY2025.

Please submit relevant forms via email to the liaison at QST using the following method.

The co-researcher at QST (liaison, hereafter) should check the contents and email them to the Machine-Time Committee Secretariat. If you do not have a liaison, please send them to the Machine-Time Committee Secretariat.

1. Machine-Time Period

From Monday, April 7, 2025, to Monday, August 4, 2025. (See 2.(1) below, for details.)

2. Basic conditions and instructions for application Form

- (1) Machine-Time Schedule for Term I in FY2025
(The spaces in white or green colors are available for projects experiment)
- (2) Terms and Conditions of HIMAC Usage
- (3) MEBT—Current Status of Medium-Energy Irradiation Room
(including Schematic Diagram of Medium-Energy Irradiation Room)
- (4) BIOC—Note on Machine-Time application for physics in Bio-irradiation room
(including LET and Schematic Diagram of Bio-Irradiation Room)
- (5) HIMAC Machine-Time Usage Application Form
- (6) Bio-Irradiation Room Usage Proposal Machine-Time Desired Date Entry Form
(including example)
- (7) Radiation Generator Usage Plan(HIMAC) (including example)

※The above files can be downloaded from <https://www.qst.go.jp/site/iqms-kyoyo/1884.html>

3. Application Forms (Please fill in the relevant forms (5) to (7) above and send it to us. Please note that we may not be able to allocate your items if there are any errors in the information.)

- | | |
|--|--|
| (1) HIMAC Machine-Time Usage Application Form | (All Projects) |
| (2) Bio-Irradiation Room Usage Proposal Machine-Time Desired Date Entry Form | (Bio-irradiation room usage applicant) |
| (3) Radiation Generator Usage Plan(HIMAC) | (All Projects) |

4. Deadline

Please submit the application forms to the Machine-Time Committee Secretariat (via the liaison where applicable) by **Noon, Thursday, February 6, 2025.** Please be sure to adhere to the deadline.

5. Others

- (1) There are days when only Middle-Energy Irradiation Room is available.(Ion species is limited)
- (2) **Physics projects of BIOC usage: Don't forget to submit the "Bio-Irradiation Room Usage Proposal Machine-Time Desired Date Entry Form"**
- (3) Since the machine time Recruitment is made in parallel with the adoption of the project, the machine time is arranged on the assumption that the project is approved. If the project is not approved, the machine time request will be invalid.
- (4) If you have any questions, please contact Machine-Time Committee Secretariat.

HIMAC Machine-Time Committee Secretariat
e-mail: himac_mtc@qst.go.jp

2025年度第 I 期マシンタイム予定表

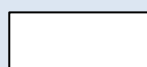
Apr.,7,2025~Aug.,4,2025 Machine-Time Schedule for Term I in FY2025

D	T	昼Day	夜Night	D	T	昼Day	夜Night
2025/3/31	Mon			2025/5/12	Mon		
4/1	Tue			5/13	Tue		
4/2	Wed			5/14	Wed		
4/3	Thu			5/15	Thu		
4/4	Fri			5/16	Fri		
4/5	Sat			5/17	Sat		
4/6	Sun			5/18	Sun		
4/7	Mon			5/19	Mon		
4/8	Tue			5/20	Tue		
4/9	Wed			5/21	Wed		
4/10	Thu			5/22	Thu		
4/11	Fri			5/23	Fri		
4/12	Sat			5/24	Sat		
4/13	Sun			5/25	Sun		
4/14	Mon			5/26	Mon		
4/15	Tue			5/27	Tue		
4/16	Wed			5/28	Wed		
4/17	Thu			5/29	Thu		
4/18	Fri			5/30	Fri		
4/19	Sat			5/31	Sat		
4/20	Sun			6/1	Sun		
4/21	Mon			6/2	Mon		
4/22	Tue			6/3	Tue		
4/23	Wed			6/4	Wed		
4/24	Thu			6/5	Thu		
4/25	Fri			6/6	Fri		
4/26	Sat			6/7	Sat		
4/27	Sun			6/8	Sun		
4/28	Mon			6/9	Mon		
4/29	Tue			6/10	Tue		
4/30	Wed			6/11	Wed		
5/1	Thu			6/12	Thu		
5/2	Fri			6/13	Fri		
5/3	Sat			6/14	Sat		
5/4	Sun			6/15	Sun		
5/5	Mon			6/16	Mon		
5/6	Tue			6/17	Tue		
5/7	Wed			6/18	Wed		
5/8	Thu			6/19	Thu		
5/9	Fri			6/20	Fri		
5/10	Sat			6/21	Sat		
5/11	Sun			6/22	Sun		

2025年度第 I 期マシンタイム予定表

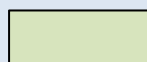
Apr., 7, 2025 ~ Aug., 4, 2025 Machine-Time Schedule for Term I in FY2025

D	T	昼Day	夜Night	D	T	昼Day	夜Night
2025/6/23	Mon			2025/7/21	Mon		
6/24	Tue			7/22	Tue		
6/25	Wed			7/23	Wed		
6/26	Thu			7/24	Thu		
6/27	Fri			7/25	Fri		
6/28	Sat			7/26	Sat		
6/29	Sun			7/27	Sun		
6/30	Mon			7/28	Mon		
7/1	Tue			7/29	Tue		
7/2	Wed			7/30	Wed		
7/3	Thu			7/31	Thu		
7/4	Fri			8/1	Fri		
7/5	Sat			8/2	Sat		
7/6	Sun			8/3	Sun		
7/7	Mon			8/4	Mon		
7/8	Tue			8/5	Tue		
7/9	Wed			8/6	Wed		
7/10	Thu			8/7	Thu		
7/11	Fri			8/8	Fri		
7/12	Sat			8/9	Sat		
7/13	Sun			8/10	Sun		
7/14	Mon			8/11	Mon		
7/15	Tue			8/12	Tue		
7/16	Wed			8/13	Wed		
7/17	Thu			8/14	Thu		
7/18	Fri			8/15	Fri		
7/19	Sat			8/16	Sat		
7/20	Sun			8/17	Sun		



: 生物照射室 / 中エネルギー照射室 利用可能

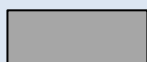
Bio-irradiation room and Middle-Energy Irradiation Room available.



: 中エネルギー照射室のみ 利用可能(核種制限あり※)

Medium-Energy Irradiation Room available.(Ion species is limited※)

※詳しくは世話人にお問合せください※Contact the sponsor for more information.



: 利用不可

Not available

HIMAC 利用条件

Terms and Conditions of HIMAC Usage

I. 実験利用の時間帯

Time zone of experimental use is typically 22:00–30:30 (= 10p.m. to 6:30 a.m. next morning)
HIMAC の利用に当たっては、重粒子線がん治療の患者照射を最優先とします。また、月曜の 17:00 までの間は、原則としてメンテナンス及び調整運転に使用します。

In using HIMAC, the highest priority goes to irradiating patients for heavy ion cancer therapy. In principle, HIMAC will be used for maintenance and adjustment operations until 5:00 p.m. on Mondays.

II. 使用可能な照射室及びコース

Available irradiation rooms and courses

照射室名 Irradiation room	照射コース名 Irradiation course	世話人 Manager
中エネルギー・ビーム照射室 Medium-Energy Irradiation room	MEXP	濱野 毅、高田 栄一 Tsuyoshi Hamano、Eiichi Takada
生物照射室 Bio-irradiation room	BIOC	下川 卓志 濱野 毅、日裏 剛基 Takashi Shimokawa、Tsuyoshi Hamano、Koki Hiura

照射コースの詳しい整備状況については、世話人にお問合せ下さい。

Please contact the manager for more information on the detailed maintenance status of the irradiation course.

世話人連絡先 物理関係(Physics):himac_phy@qst.go.jp TEL 043-206-3205 (ext. 80-6871)

Manager Contact 生物関係(Biology):himac_bio@qst.go.jp TEL 043-206-4048 (ext. 80-2721)

治療照射室は、原則として治療以外の使用はできません。

As a rule, the treatment irradiation room may not be used for any purpose other than treatment.

III. 各照射室で使用可能な(=比較的実績のある)ビーム

Readily available beams in each irradiation room

[下記の最大強度は遮蔽条件で決まる最大粒子数です。実際に利用できる強度は、一般にこの値より小さくなります。]

[The maximum intensity shown below is the maximum number of particles determined by shielding conditions.

The actual available intensity will be smaller than this value.]

a) MEXP (週 168 時間, 168h/week)

エネルギー(Energy) 6 MeV/u

最大強度(Max Intensity) 2.0×10^{12} pps (particles per second)

(供給可能なイオン種全て、ただし ^2H のみ 8.0×10^{11} 個/秒)

(All available ion species can be supplied; however, for ^2H , the supply rate is limited to 8.0×10^{11} pps.)

b) BIOC (週 35 時間+微弱(1%以下)ビーム 100 時間, 35h/week+100h(Beam intensity less than 1%))

イオン種 Particles	最大強度 Max Intensity	一様照射野形成用パラメータのあるエネルギー(MeV/u) Energy with parameters for uniform irradiation field formation	
He	1.2×10^{10}	150	150*
C	2.0×10^9	135、290、350、400	290*
Ne	8.5×10^8	230、400	400*
Si	4.4×10^8	490	
Ar	2.7×10^8	500*	
Fe	2.5×10^8	500*	

照射野は 100mmφ を基本とします。右端欄のものは SOBP(60mm)。これらのビームの線質及び、これ以外のイオン種、エネルギーについては 世話人にお問合せ下さい。 *印のものは BF 厚指定での使用とします。

C290MeV/u 2.0×10^9 pps、100mmφ の照射野のビームは、mono が $13\text{keV}/\mu\text{m}$ で $\sim 5\text{Gy}/\text{min}$ 、SOBP

中央部では $\sim 3\text{Gy}/\text{min}$ に相当します。

The basic irradiation field is 100mmφ. Those in the far right column are SOBP (60mm). Please contact the manager about the beam quality of these beams and other ion species and energies. Please note that the beam energy values are those of extracted from the synchrotron. Therefore, energy at the isocenter of BIOC is degraded by the media such as the monitors and the filters. The difference in energy is non-negligible especially in case of values with * as the binary filters are used to adjust the energy and the range. C290MeV/u 2.0×10^9 pps, mono beam with 100mmφ irradiation field corresponds to $\sim 5\text{Gy}/\text{min}$ at $13\text{keV}/\mu\text{m}$ and $\sim 3\text{Gy}/\text{min}$ at the center of SOBP.

中エネルギービーム照射室の整備状況

Current Status of Medium-Energy Irradiation Room

1. 中エネルギービーム利用室

Medium-Energy Irradiation Room

中エネルギービーム利用室のビームコースは1本だけ（MEXP）です。照射のための既存設備等は何もありませんので、三連四極電磁石から下流の設備については全てユーザーの側で準備してください（添付の平面図を参照してください）。図面から分かるように狭い部屋ですので、照射装置等は移動可能にして、実験終了後は原則としてこの部屋から搬出してください。

同じフロア（地下2階、管理区域内）に物理・汎用計測室があり、中エネルギービーム利用室との間に約40本のBNCケーブルが敷設されています。

使用できるビームのエネルギーは6MeV/uで固定、デューティは最大0.3%です。ビーム輸送系の振り分け電磁石がパルス駆動ですので、シンクロトロンにビームを供給しているときも、1Hz程度の繰り返してビームの利用が可能です。（典型的には、0.7ms巾のビームが1秒に1回来る）ビームスポットは最小で3mmφ程度です。強度はビームの種類に大きく依存しますので、詳しくは物理関係世話人までお尋ねください。

There is only one beam course (MEXP) in Medium-Energy Irradiation Room. There is no existing equipment for irradiation, so all equipment downstream from the triple quadrupole magnets should be prepared by the user (see the attached plan). As you can see from the drawing, this is a small room, so irradiation equipment, etc. should be movable, and in principle, should be removed from this room after the experiment.

On the same floor (B2F, in the controlled area), there is a physics/general-purpose measurement room, and about 40 BNC cables are laid between the room and Medium-Energy Irradiation Room.

The available beam energy is fixed at 6MeV/u, with a maximum duty of 0.3%. The beam transport system's sorting magnets are pulse-driven, so the beam can be used with a repetition rate of about 1Hz even when the beam is being supplied to the synchrotron. (Typically, a 0.7ms wide beam comes once per second.) The minimum beam spot is about 3mmφ. The intensity is highly dependent on the type of beam, so please ask the physics manager for details.

2. 付帯設備

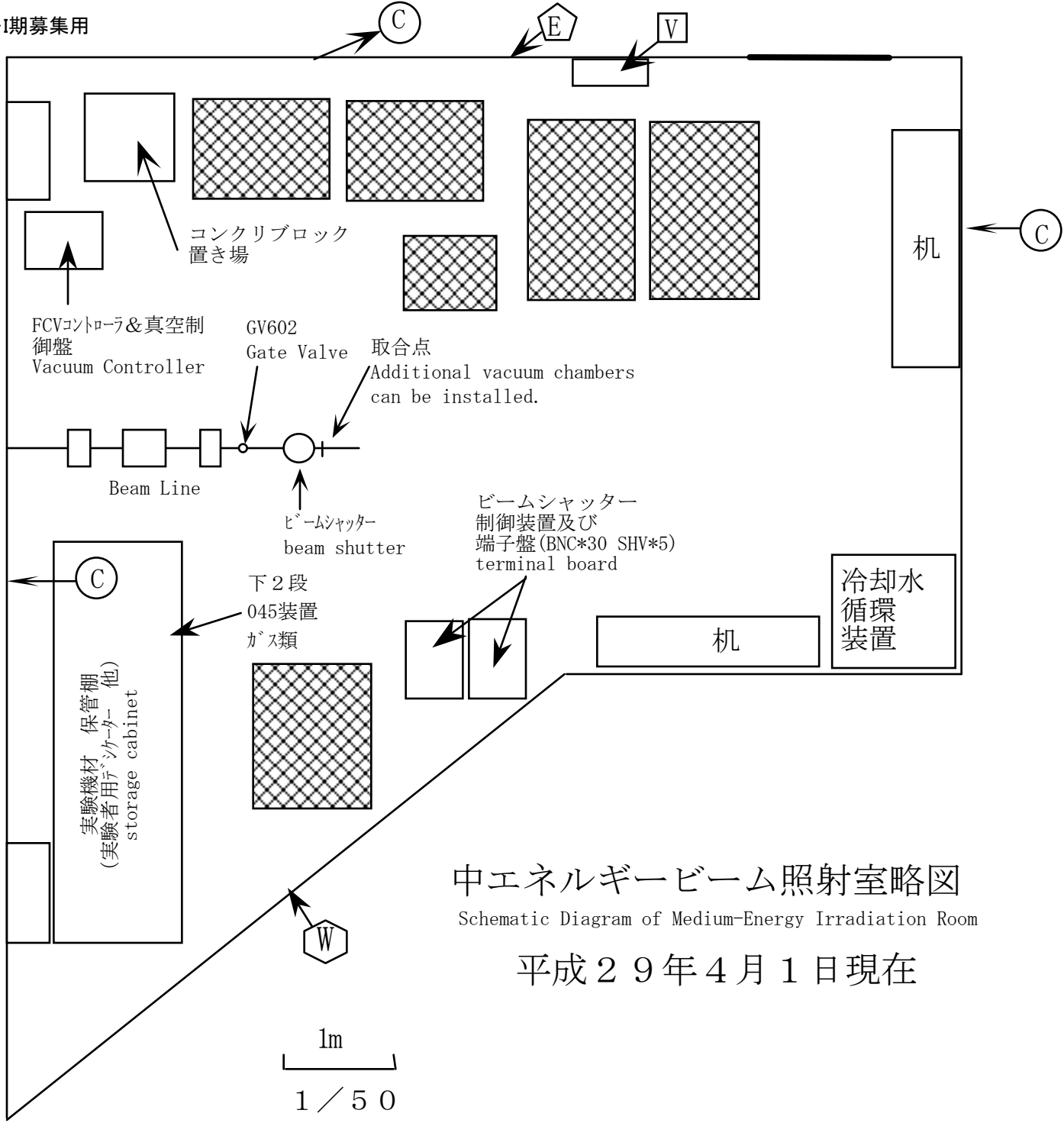
Attached equipment

エレクトロニクスモジュール、パソコンに搭載したMCAと、CAMACをベースとしたデータ収集系が共用の設備として利用可能です。

照射室と計測室にはLANが設置されており、サーバーとプリンターがつながっております。利用を希望される方は事前にご相談下さい。

Electronics modules, MCA on a PC, and a data acquisition system based on CAMAC are available as shared facilities.

LAN is installed in the irradiation room and the measurement room, and a server and printer are connected. If you wish to use these facilities, please consult with the manager in advance.



中エネルギービーム照射室略図
Schematic Diagram of Medium-Energy Irradiation Room

平成29年4月1日現在

分電盤 Switchboard
3w210V (50A)&2w105V (75A)
100V TypeA X 6個

コンセント
TypeA Socker
100V X 2個 (15A)

クリーンアース

冷却水ポート
12-9シンフレックス
2ポート

実験装置

生物照射室利用物理課題(PIB)マシンタイム応募についての注意 Note on Machine-Time application for physics in Bio-irradiation room (PIB)

I. コース占有時間について Beam course occupation time (for preparation, clearance)

ビーム開始前: 生物照射室内への実験機器搬入開始からビーム照射開始までの時間です。

ビーム終了後: ビーム利用終了から生物照射室内の実験装置搬出終了し、次の実験準備が可能になるまでの時間です。

Before Beam Start: This is the time from the start of delivery of experimental equipment into the Bio-irradiation room to the start of beam irradiation.

After Beam Stop: The time from the end of beam use to the end of unloading the experimental equipment in the Bio-irradiation room and the time when the next experiment is ready.

※これらの時間は、できるだけ現実的な時間としてください。

※照射室前室作業スペース(写真①)を占有する場合は、その時間も含めてください。

※制御卓エリア(写真②)で長時間の準備等が必要な場合は、利用申込票下段「その他、マシンタイム配分調整に対する優先希望事項など」にご記入ください。

*These times should be as realistic as possible.

*If the work space in front of the irradiation room (Photo①) is to be occupied, please include that time as well.

*If you need to spend a long time in the control table area (Photo②) for preparation, etc., please fill in the “4. Any other priority requests for machine time allocation adjustments, etc.” at the bottom of HIMAC Machine-Time usage application form.

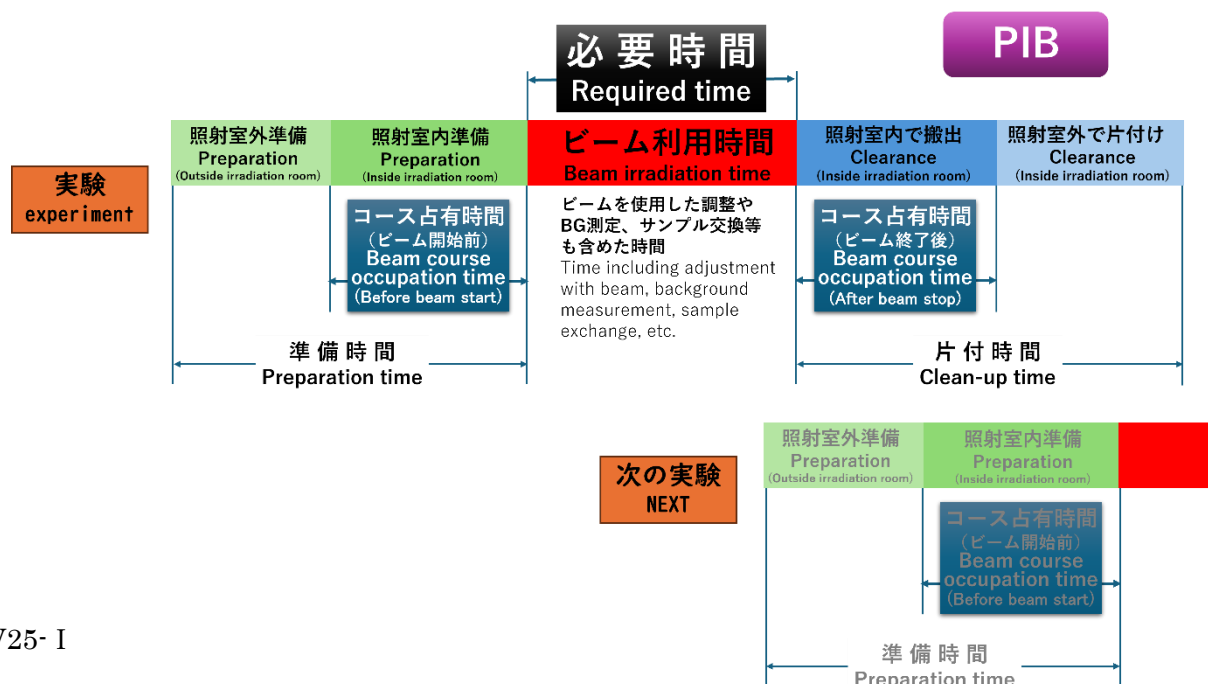


① 生物照射室前室作業スペース
Workspace in front of Bio-irradiation room



② 制御卓エリア
Beam control console area

II. 生物照射室利用物理課題における時間イメージ Time Image in PIB



HIMAC生物照射室で線量測定後に提供される標準ビームの
照射深に対する線量率・LET特性（計算結果のみ）

炭素線 290MeV/u, 135MeV/u

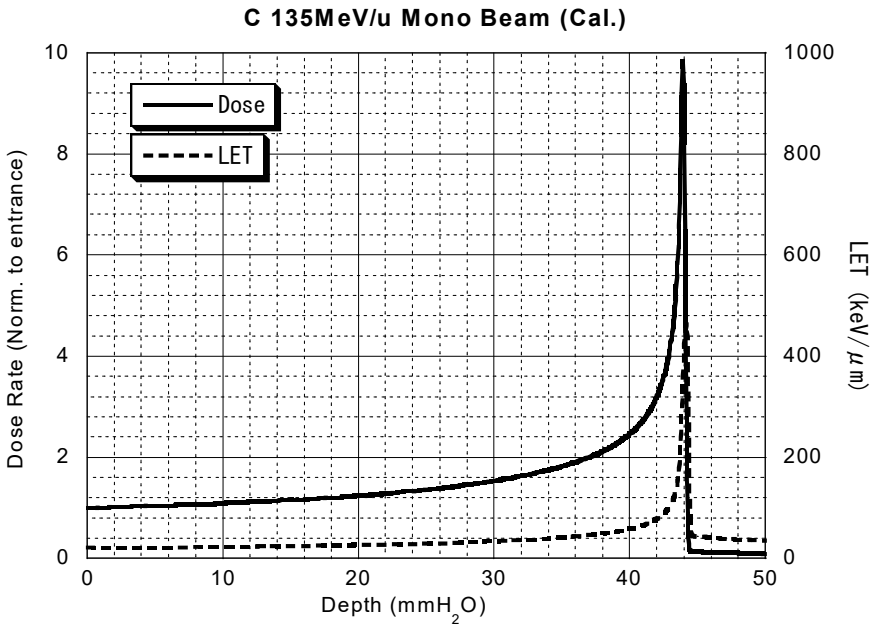
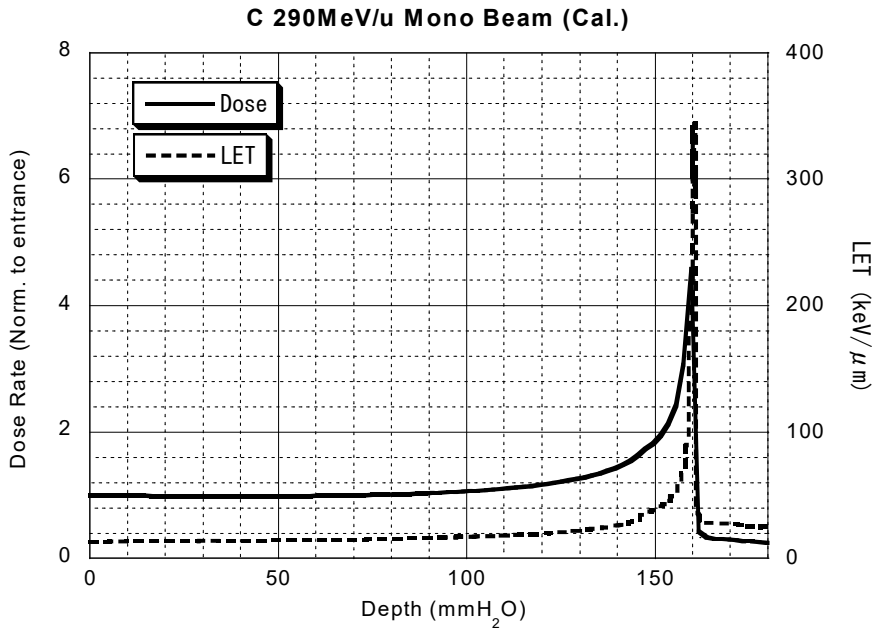
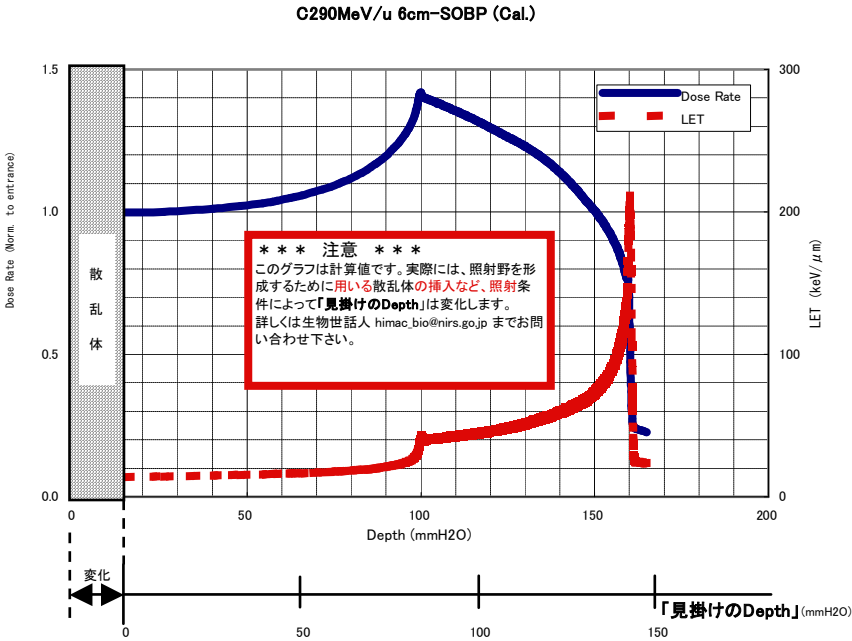
このグラフは、様々の仮定を用いて計算した結果であり、照射条件を決め
るときを目安として使用してください。
ビームに関する情報は、生物世話人にお問合せ下さい。

Dose rate and LET characteristics for standard beams provided after dose
measurement in the HIMAC biological irradiation room (calculated results only)

Carbon beam 290MeV/u, 135MeV/u

This graph is the result of calculations using various assumptions and should be
used as a guide when deciding on irradiation conditions.

For information on beams, please contact the biological manager.



HIMAC生物照射室で線量測定後に提供される標準ビームの
照射深に対する線量率・LET特性（計算結果のみ）

ネオン線 400MeV/u、ヘリウム線 150MeV/u

このグラフは、様々の仮定を用いて計算した結果であり、照射条件を決めるときの目安として使用してください。

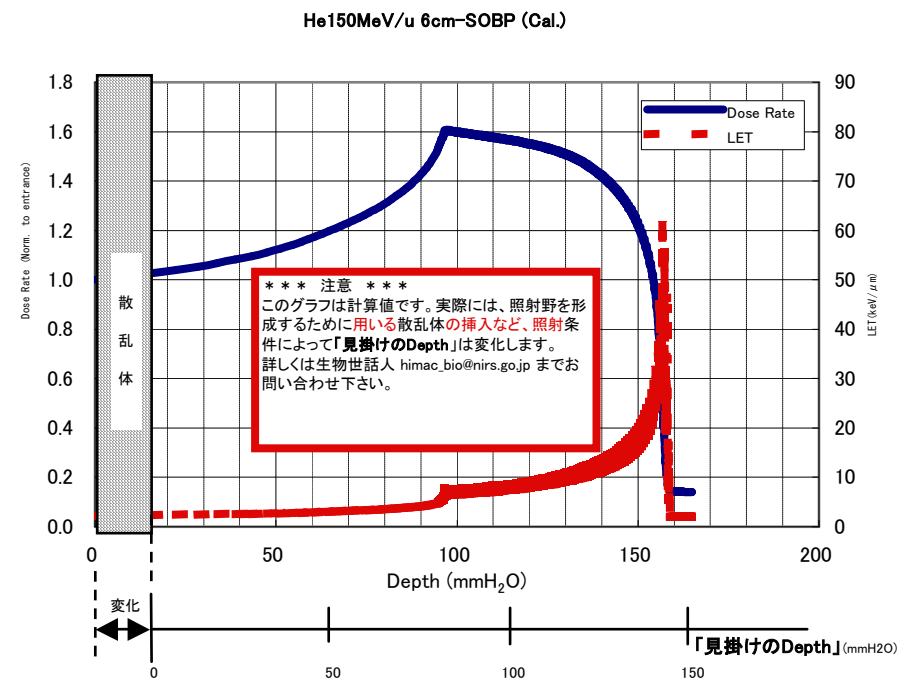
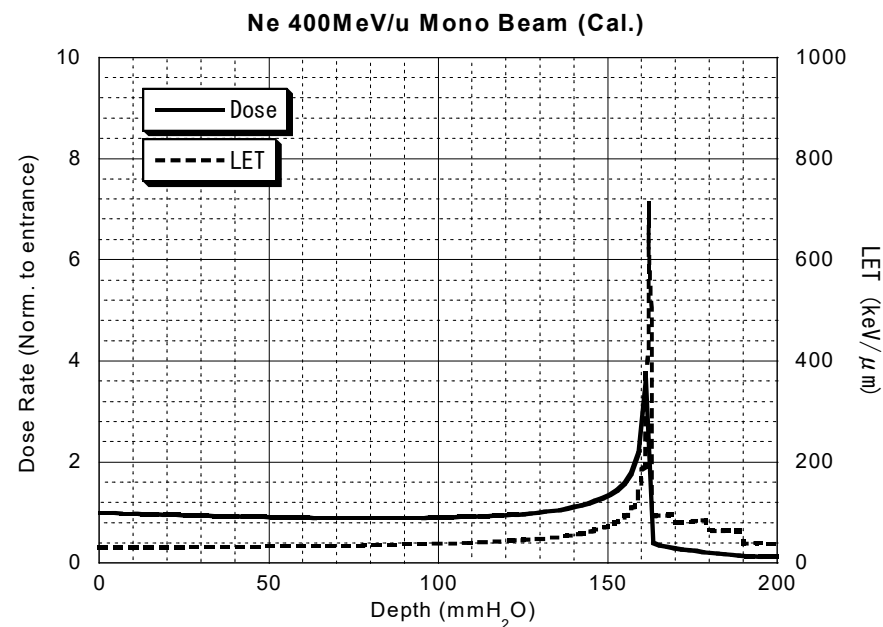
ビームに関する情報は、生物世話人にお問合せ下さい。

Dose rate and LET characteristics for standard beams provided after dose measurement in the HIMAC biological irradiation room (calculated results only)

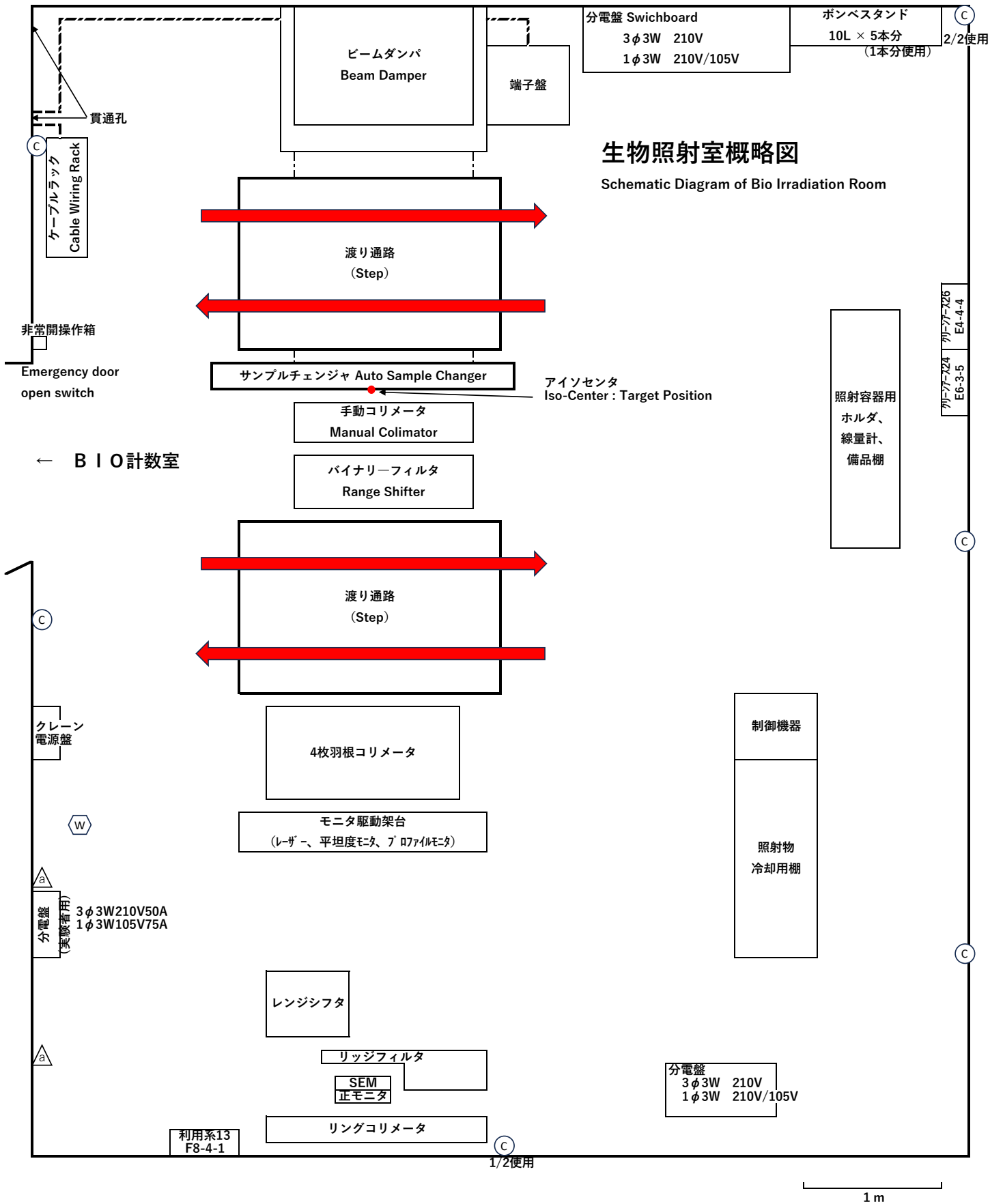
Neon beam: 400 MeV/u, Helium beam: 150 MeV/u

This graph is the result of calculations using various assumptions and should be used as a guide when deciding on irradiation conditions.

For information on beams, please contact the biological manager.



生物照射室装置配置図



○ コンセント：100V×2個 Type A Socket

△ 圧空

⬡ 冷却水実験用取り合い点

HIMAC Machine-Time Usage Application Form

! Please submit a copy of this form! If the ion type, course, experimental outline, etc. is different, please copy this form and fill it out separately, and submit the number of pages below!

Submission date: 2025/m/d Spokesperson: _____ Co-researcher at QST: _____
(E-mail :)

1. Beam conditions

1. Ion Species: _____ Energy: _____ MeV/u Beam Intensity: _____ $\times 10$ pps (particles/s) or [μ A@MEXP, biology assignment not required].

2. Course: ☐ MEXP

☐ BIO → Field Conditions [Size: _____ cm ϕ , Longitudinal ☐ mono ☐ SOBP() cm]

3. Special requirements for beam shape, etc. _____

Is there the same condition in a past beam? ☐ No ☐ Yes (Date(y/ m/ d))

2. Experiment Outline

1. Experimental Form: ☐ Measurements by SC ☐ Sample irradiation (inanimate) ☐ Cell irradiation

☐ Animal irradiation (☐ Mouse ☐ Rat ☐ Other(____))

☐ Bio-Specialty (☐ Genetically modified organisms, etc. (viral inoculation? ☐ Yes ☐ No) ☐ Pathogens)

☐ Other than above: _____

2. Experimental Conditions: ☒ beam course occupation time (for preparation, clearance)

Before _____ hour/day/week, After _____ hour/day/week

☒ Items used and space required in counting and laboratory (may be entered separately)

Devices you will bring in _____

Devices you will occupy _____

3. Other special notes (be sure to include any items that require prior agreement or coordination, such as large quantities of reagents or LN₂ use)

3. Desired beam period, etc.

Date (Month: upper/mid/late)	Required time (*)	Candidate dates (good date for you)	No-good dates and its reason	Other conditions**	Work manager# (email)
A	hr				()
B	hr				()
C	hr				()
D	hr				()

* Basis for calculation of the above required beam time ↓ (Can be completed separately)

** Time allocation for split irradiation, use of samples containing genetically modified organisms, etc., time fixing desired, precautions when adjusting the beam (if different from those described in 1), energy/intensity, etc. Energy/intensity, etc.

#The person in charge of the work must be someone who can come to the work site and be contacted before and after the machine time.

4. Any other priority requests for machine time allocation adjustments, etc.

Bio-Irradiation Room Usage Proposal
Machine-Time Desired Date Entry Form

- ① Enter a (O : Desired dates) or (X : No-good dates)
 ② Machine time may not be allocated even if you write "O"
 ③ May be allocated to a blank space
 ④ Enter animal, cell, microorganism, recombinant, BSL, etc. in the "Note" column.
 ⑤ If necessary, enter the preparation time on site (in Bio-irradiation room) in the "Remarks" column.

Project No. _____

Spokesperson _____

#Work manager _____

April	Candidate date	Note	May	Candidate date	Note	June	Candidate date	Note	July	Candidate date	Note	August	Candidate date	Note
	d n			d n			d n			d n			d n	
Tue,1st			Thu,1st			Sun,1st			Tue,1st			Fri,1st		
Wed,2nd			Fri,2nd			Mon,2nd			Wed,2nd			Sat,2nd		
Thu,3rd			Sat,3rd			Tue,3rd			Thu,3rd			Sun,3rd		
Fri,4th			Sun,4th			Wed,4th			Fri,4th			Mon,4th		
Sat,5th			Mon,5th			Thu,5th			Sat,5th			Tue,5th		
Sun,6th			Tue,6th			Fri,6th			Sun,6th			Wed,6th		
Mon,7th			Wed,7th			Sat,7th			Mon,7th			Thu,7th		
Tue,8th			Thu,8th			Sun,8th			Tue,8th			Fri,8th		
Wed,9th			Fri,9th			Mon,9th			Wed,9th			Sat,9th		
Thu,10th			Sat,10th			Tue,10th			Thu,10th			Sun,10th		
Fri,11th			Sun,11th			Wed,11th			Fri,11th			Mon,11th		
Sat,12th			Mon,12th			Thu,12th			Sat,12th			Tue,12th		
Sun,13th			Tue,13th			Fri,13th			Sun,13th			Wed,13th		
Mon,14th			Wed,14th			Sat,14th			Mon,14th			Thu,14th		
Tue,15th			Thu,15th			Sun,15th			Tue,15th			Fri,15th		
Wed,16th			Fri,16th			Mon,16th			Wed,16th			Sat,16th		
Thu,17th			Sat,17th			Tue,17th			Thu,17th			Sun,17th		
Fri,18th			Sun,18th			Wed,18th			Fri,18th			Mon,18th		
Sat,19th			Mon,19th			Thu,19th			Sat,19th			Tue,19th		
Sun,20th			Tue,20th			Fri,20th			Sun,20th			Wed,20th		
Mon,21st			Wed,21st			Sat,21st			Mon,21st			Thu,21st		
Tue,22nd			Thu,22nd			Sun,22nd			Tue,22nd			Fri,22nd		
Wed,23rd			Fri,23rd			Mon,23rd			Wed,23rd			Sat,23rd		
Thu,24th			Sat,24th			Tue,24th			Thu,24th			Sun,24th		
Fri,25th			Sun,25th			Wed,25th			Fri,25th			Mon,25th		
Sat,26th			Mon,26th			Thu,26th			Sat,26th			Tue,26th		
Sun,27th			Tue,27th			Fri,27th			Sun,27th			Wed,27th		
Mon,28th			Wed,28th			Sat,28th			Mon,28th			Thu,28th		
Tue,29th			Thu,29th			Sun,29th			Tue,29th			Fri,29th		
Wed,30th			Fri,30th			Mon,30th			Wed,30th			Sat,30th		
			Sat,31st						Thu,31st			Sun,31st		

* To clarify the desired beam time, enter the required hours x number of times per month and total required hours x number of times per period in the "Hours x Number of Times" box below.

April (hours x number of times)	h x times	May (hours x number of times)	h x times	June (hours x number of times)	h x times	July (hours x number of times)	h x times	August (hours x number of times)	h x times
								Total period (hours x number of times)	h x times
									h x times

Remarks _____

Notes on Entry

- Please indicate "O" (Desired dates) or "X" (No-good dates) in the "Candidate date" column of the schedule above.
- Please be sure to mark an "X" on the days when you cannot conduct the experiment, as we may have to allocate machine time on days other than those requested due to adjustments in the allocation of machine time.**
- Beams may not be supplied to the bio-irradiation room on certain days or may not be the desired Ion Species. Machine time may not be allocated even if you enter "O".
- If you know your schedule (desired date) for cell experiments, animal experiments, microorganism experiments, genetic modification experiments (P1, P2, P1A, P2A), biosafety experiments (BSL2), etc., please indicate them in the "Remarks" column. If you do not indicate your desired date, the allocation will be based on the maximum risk at the time of proposal submission.**
- If you have any requests for machine time allocation, please write them in the remarks column. We will use this as a reference when considering the allocation of machine time.
 (e.g.: I would like to have 30 minutes per session; I have applied for 2 hours x 4 sessions, but it is OK to have less than 4 hours per session; I would like to have at least 2 hours per session because I cannot work with less than 2 hours machine time; I would like to have at least 2 hours per session; etc.)
- For physics proposals, please indicate the desired nuclide (in the case of requests for multiple Ion Species energies) and the preparation period in the irradiation room in the remarks column, if necessary.
 Although we will take into account the preparation period as much as possible, we will consider the schedule with the highest priority given to the effective use of machine time.

Bio-Irradiation Room Usage Proposal Machine-Time Desired Date Entry Form

Example

- ① Enter a (○ : Desired dates) or (× : No-good dates)
- ② Machine time may not be allocated even if you write "○"
- ③ May be allocated to a blank space
- ④ Enter animal, cell, microorganism, recombinant, BSL, etc. in the "Note" column.
- ⑤ If necessary, enter the preparation time on site (in Bio-irradiation room) in the "Remarks" column.

Project No. 25HJ999

Spokesperson Taro Inage

#Work manager Taro Inage(physics) Jiro Anagawa(Biology)

April	Candidate date	Note	May	Candidate date	Note	June	Candidate date	Note	July	Candidate date	Note	August	Candidate date	Note
	d n			d n			d n			d n			d n	
Tue,1st			Thu,1st			Sun,1st			Tue,1st			Fri,1st		
Wed,2nd			Fri,2nd			Mon,2nd			Wed,2nd			Sat,2nd		
Thu,3rd			Sat,3rd			Tue,3rd			Thu,3rd			Sun,3rd		
Fri,4th			Sun,4th			Wed,4th			Fri,4th			Mon,4th		
Sat,5th			Mon,5th		↑ Preparation	Thu,5th			Sat,5th			Tue,5th		
Sun,6th			Tue,6th		↑ Preparation	Fri,6th			Sun,6th			Wed,6th		
Mon,7th			Wed,7th		↑ Preparation	Sat,7th			Mon,7th			Thu,7th		
Tue,8th	×		Thu,8th	○	cell Measure	Sun,8th			Tue,8th			Fri,8th		
Wed,9th	×		Fri,9th		(3 days for preparation)	Mon,9th			Wed,9th			Sat,9th		
Thu,10th			Sat,10th			Tue,10th	○	cell	Thu,10th			Sun,10th		
Fri,11th			Sun,11th			Wed,11th	○	cell	Fri,11th			Mon,11th		
Sat,12th			Mon,12th			Thu,12th			Sat,12th			Tue,12th		
Sun,13th			Tue,13th			Fri,13th			Sun,13th			Wed,13th		
Mon,14th			Wed,14th			Sat,14th			Mon,14th			Thu,14th		
Tue,15th			Thu,15th			Sun,15th			Tue,15th			Fri,15th	×	
Wed,16th	×		Fri,16th			Mon,16th			Wed,16th			Sat,16th		
Thu,17th	×		Sat,17th			Tue,17th			Thu,17th			Sun,17th		
Fri,18th			Sun,18th			Wed,18th	○	cell	Fri,18th			Mon,18th		
Sat,19th			Mon,19th			Thu,19th	○	cell	Sat,19th			Tue,19th		
Sun,20th			Tue,20th			Fri,20th			Sun,20th			Wed,20th		
Mon,21st			Wed,21st			Sat,21st			Mon,21st			Thu,21st		
Tue,22nd	×		Thu,22nd			Sun,22nd			Tue,22nd			Fri,22nd		
Wed,23rd	×		Fri,23rd			Mon,23rd			Wed,23rd	○	animal	Sat,23rd		
Thu,24th			Sat,24th			Tue,24th			Thu,24th	○	animal	Sun,24th		
Fri,25th			Sun,25th			Wed,25th			Fri,25th			Mon,25th		
Sat,26th			Mon,26th			Thu,26th			Sat,26th			Tue,26th		
Sun,27th			Tue,27th			Fri,27th			Sun,27th			Wed,27th		
Mon,28th			Wed,28th			Sat,28th			Mon,28th			Thu,28th		
Tue,29th			Thu,29th			Sun,29th			Tue,29th			Fri,29th		
Wed,30th	×		Fri,30th			Mon,30th			Wed,30th			Sat,30th		
			Sat,31st						Thu,31st			Sun,31st		

* To clarify the desired beam time, enter the required hours x number of times per month and total required hours x number of times per period in the "Hours x Number of Times" box below.

April (hours x number of times)	h × times	May (hours x number of times)	8 h × 1 times	June (hours x number of times)	2 h × 2 times	July (hours x number of times)	3 h × 1 times	August (hours x number of times)	h × times
								Total period (hours x number of times)	8 h × 1 times 2 h × 2 times 3 h × 1 times

Remarks

Not possible in April due to work commitments. Physics experiments require 3 days of advance preparation.
The cell experiment was set up as two 2-hour sessions, but we would like it to be allocated twice, even if only the 30 minutes needed for verification.

Notes on Entry

- 1) Please indicate "○"(Desired dates) or "×"(No-good dates) in the "Desired date" column of the schedule above.
- 2) **Please be sure to mark an "X" on the days when you cannot conduct the experiment, as we may have to allocate machine time on days other than those requested due to adjustments in the allocation of machine time.**
- 3) Beams may not be supplied to the bio-irradiation room on certain days or may not be the desired Ion Species. Machine time may not be allocated even if you enter "○".
- 4) **If you know your schedule (desired date) for cell experiments, animal experiments, microorganism experiments, genetic modification experiments (P1, P2, P1A, P2A), biosafety experiments (BSL2), etc., please indicate them in the "Remarks" column. If you do not indicate your desired date, the allocation will be based on the maximum risk at the time of proposal submission.**
- 5) If you have any requests for machine time allocation, please write them in the remarks column. We will use this as a reference when considering the allocation of machine time.
(e.g.: I would like to have 30 minutes per session; I have applied for 2 hours x 4 sessions, but it is OK to have less than 4 hours per session; I would like to have at least 2 hours per session because I cannot work with less than 2 hours machine time; I would like to have at least 2 hours per session; etc.)
- 6) For physics proposals, please indicate the desired nuclide (in the case of requests for multiple Ion Species energies) and the preparation period in the irradiation room in the remarks column, if necessary.
Although we will take into account the preparation period as much as possible, we will consider the schedule with the highest priority given to the effective use of machine time.

Radiation Generator Usage Plan(HIMAC) 25-1

Submission Date ()

Dear radiation safety section chief in QST Chiba office,

I would like to use the radiation generator in HIMAC as follows, please approve.

Affiliation of the project representative _____

Name of the project representative _____

Affiliation of the project staff in QST _____ (extension _____)

Name of the project staff in QST _____

1. Purpose of using the radiation generator in HIMAC

Title of the project
<input type="checkbox"/> Continuation Project / <input type="checkbox"/> New Project
Objective of the project
Experimental procedures

Name of the room used for the experiment*		Information on irradiated object (or irradiated animal)	Nuclides produced by activation and expected radioactivity		
<div></div>	Medium energy beam irradiation room		Nuclide1 :	Radioactivity :	Bq
	Physical and general-purpose irradiation room		Nuclide2 :	Radioactivity :	Bq
	Biological irradiation room		Nuclide3 :	Radioactivity :	Bq
	Secondary beam irradiation room		Nuclide4 :	Radioactivity :	Bq

* Place a check mark in the room where you will be using the room.

Please describe the area enclosed in the bold frame.

Date of receipt	/ /	Number of receipt	No. —
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2. Information on the irradiated object (or irradiated animal)

Whether there is a carry-in or not	In case of Yes	
<input type="checkbox"/> Yes / <input type="checkbox"/> No	Name of the storage room and storage period	Name of the disposal room

Whether or not irradiated objects are taken out of the radiation-controlled area in HIMAC	In case of Yes		
	Name of irradiated object (or irradiate animal)	Where to transport the irradiated objects	How to transport the irradiated objects
<input type="checkbox"/> Yes / <input type="checkbox"/> No			

3. Information on radioactive waste

Whether radioactive waste is generated or not	In case of Yes, check the radioactive waste details
<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> burnable / <input type="checkbox"/> Flame retardant / <input type="checkbox"/> unburnable / <input type="checkbox"/> animal <input type="checkbox"/> others ()

4. Irradiation beam conditions

【Irradiating ions and energy】 (Place a check mark in irradiating ions and energy.)

Irradiating ion energy (MeV/u)				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230	<input type="checkbox"/> 150	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230
<input type="checkbox"/> C	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430	<input type="checkbox"/> 135 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> N	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> O	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> Ne	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600	<input type="checkbox"/> 230 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600
<input type="checkbox"/> Si	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 <input type="checkbox"/> 600 <input type="checkbox"/> 800	<input type="checkbox"/> 490	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600 <input type="checkbox"/> 800
<input type="checkbox"/> Ar	<input type="checkbox"/> 6	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650	<input type="checkbox"/> 500	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650
<input type="checkbox"/> Fe	<input type="checkbox"/> 6	<input type="checkbox"/> 500	<input type="checkbox"/> 500	<input type="checkbox"/> 500

【Number of irradiating ionic particles】 (Place a check mark in number of irradiating ionic particles.)

Number of irradiating ionic particles (pps)*				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 2.0×10^{12}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 4.0×10^7
<input type="checkbox"/> C	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.8×10^9	<input type="checkbox"/> 2.0×10^9	<input type="checkbox"/> 6.6×10^6
<input type="checkbox"/> N	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.5×10^9	<input type="checkbox"/> 1.7×10^9	<input type="checkbox"/> 5.0×10^6
<input type="checkbox"/> O	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.1×10^9	<input type="checkbox"/> 1.2×10^9	<input type="checkbox"/> 3.7×10^6
<input type="checkbox"/> Ne	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 7.8×10^8	<input type="checkbox"/> 8.5×10^8	<input type="checkbox"/> 2.6×10^6
<input type="checkbox"/> Si	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 4.6×10^8	<input type="checkbox"/> 4.4×10^8	<input type="checkbox"/> 1.3×10^6
<input type="checkbox"/> Ar	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.4×10^8	<input type="checkbox"/> 2.7×10^8	<input type="checkbox"/> 8.0×10^5
<input type="checkbox"/> Fe	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 8.9×10^5

*Number of irradiating ionic particles (pps) in the table is the maximum number of particles approved for use; the actual number of irradiating ionic particles available is less.

Information on experimental participants

(*1)	(*2, 3)	Name	E-Mail address (*4)	Affiliation	Status within QST. (*5)

(*1) Among those who will actually participate in the project, please decide who will be responsible for representing the work group and place a check mark. This person may be different from the person who will be responsible for the project representative. If there will be a different person responsible for each machine time, please check all responsible persons.

(*2) Please circle those who have completed registration as a “Radiation Worker” in QST Chiba office.

(*3) Please Δ if you plan to register as a “Radiation Worker” in QST Chiba office.

(*4) Please fill in your e-mail address if you have one.

(*5) In QST Chiba office, please select the applicable category from the following and fill in the appropriate alphabet. Please check with the project staff in QST to determine which category applies to you.

A: Retirees and fixed term employees in QST	F: Visiting Collaborative Researcher	K : others ()
B: Collaborative Researcher	G: Postdoctoral Fellow	
C: Visiting Researcher	H: Invited Researcher	
D: Cooperative Program Graduate Student	I: JSPS Research Fellow	
E: Trainee	J: Junior Researcher Associate	

※If you are not registered as a “Radiation Worker” in QST Chiba office by the day of the experiment, you will not be able to participate in the experiment even if your name is on the list of participants for this experiment.

Example of filling out the form

(Form-1.5c)

Project No. (② 25HH999)

Radiation Generator Usage Plan(HIMAC) 25-1

Submission Date (③ 2025.2.3)

Dear radiation safety section chief in QST Chiba office,

I would like to use the radiation generator in HIMAC as follows, please approve.

Affiliation of the project representative ① QST Univ.

Name of the project representative ④ John Smith

Affiliation of the project staff in QST ③ Radiation safety section (extension ④ 9999)

Name of the project staff in QST ④ Taro Yamada

1. Purpose of using the radiation generator in HIMAC

⑤	Title of the project ⑤ Research on ~.
⑥	<input type="checkbox"/> Continuation Project / <input type="checkbox"/> New Project
⑦	Objective of the project
⑧	Experimental procedures

	Name of the room used for the experiment*	Information on irradiated object (or irradiated animal)	Nuclides produced by activation and expected radioactivity
⑨	✓	⑩	Nuclide1 : Radioactivity : Bq ⑪
	Physical and general purpose irradiation room		Nuclide2 : Radioactivity : Bq
	Biological irradiation room		Nuclide3 : Radioactivity : Bq
	Secondary beam irradiation room		Nuclide4 : Radioactivity : Bq

* Place a check mark in the room where you will be using the room.

Please describe the area enclosed in the bold frame.

Date of receipt	/	/	Number of receipt	No.	—
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No.	item	How to fill out the form
①	Project No.	Please fill in the project number.
②	Submission Date	Please fill in the submission date of the form.
③	Information on the project representative	Please fill in the affiliation and name of the project representative.
④	Information on the project staff in QST	Please fill in the affiliation and name of the project staff in QST.
⑤	Title of the project	Please fill in the title of the project.
⑥	Continuation Project / New Project	Please put a “✓” in the appropriate section for continuation project or new project.
⑦	Objective of the project	Please provide a brief description of the project objectives.
⑧	Experimental Procedures	Please describe the experimental procedure.
⑨	Name of the room used for the experiment	Please put a “✓” in the name of the room to be used for the experiment.
⑩	Irradiated object (irradiated animal)	In the case of irradiated object, describe the material and size of the sample in as much detail as possible. In the case of irradiated animals, describe the name and number of animals.
⑪	Nuclides produced by activation and expected radioactivity	Please describe the nuclides produced by activation and expected radioactivity of the irradiated material (or irradiated animal).

2. Information on the irradiated object (or irradiated animal)			
Whether there is a carry-in or not	In case of Yes		
	Name of the storage room and storage period	Name of the disposal room	
⑫ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	⑫	⑫	

Whether or not irradiated objects are taken out of the radiation-controlled area in HIMAC	In case of Yes		
	Name of irradiated object (or irradiate animal)	Where to transport the irradiated objects	How to transport the irradiated objects
⑬ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	⑬	⑭	⑮

3. Information on radioactive waste	
Whether radioactive waste is generated or not	⑰ In case of Yes, check the radioactive waste details
⑯ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<input checked="" type="checkbox"/> burnable / <input type="checkbox"/> Flame retardant / <input type="checkbox"/> unburnable / <input type="checkbox"/> animal <input type="checkbox"/> others ()

⑫	The presence or absence of irradiated object	Please put a “✓” in the appropriate section regarding whether or not irradiated materials (or irradiated animals) are brought into the radiation controlled area in HIMAC. If yes, please fill in the storage room and storage period.
⑬	Whether or not irradiated objects are taken out of the radiation controlled area in HIMAC	Please put a “✓” in the appropriate section regarding whether or not irradiated objects (or irradiated animals) have been removed from the radiation controlled area in HIMAC, and if so, please provide specific details regarding their destination and method of transportation.
⑭	Where to transport the irradiated objects	Please indicate the location of the irradiated material (or irradiated animals) to be transported
⑮	How to transport the irradiated objects	Please describe the method of transporting the irradiated material (or irradiated animals). If you are outsourcing it to a contractor, please provide the name of the contractor.
⑯	Whether radioactive waste is generated or not	Please put a “✓” in the appropriate section regarding the presence or absence of radioactive waste.
⑰	Radioactive waste details	Please put a “✓” in the appropriate section of the radioactive waste category and provide specific details.

4. Irradiation beam conditions

【Irradiating ions and energy】 (Place a check mark in irradiating ions and energy.)

Irradiating ion energy (MeV/u)				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230	<input type="checkbox"/> 150	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430	<input type="checkbox"/> 135 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> N	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> O	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> Ne	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600	<input type="checkbox"/> 230 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600
<input type="checkbox"/> Si	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600 <input type="checkbox"/> 800	<input type="checkbox"/> 490	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600 <input type="checkbox"/> 800
<input type="checkbox"/> Ar	<input type="checkbox"/> 6	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650	<input type="checkbox"/> 500	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650
<input type="checkbox"/> Fe	<input type="checkbox"/> 6	<input type="checkbox"/> 500	<input type="checkbox"/> 500	<input type="checkbox"/> 500

【Number of irradiating ionic particles】 (Place a check mark in number of irradiating ionic particles.)

Number of irradiating ionic particles (pps)*				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 2.0×10^{12}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 4.0×10^7
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.8×10^9	<input type="checkbox"/> 2.0×10^9	<input type="checkbox"/> 6.0×10^6
<input type="checkbox"/> N	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.5×10^9	<input type="checkbox"/> 1.7×10^9	<input type="checkbox"/> 5.0×10^6
<input type="checkbox"/> O	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.4×10^9	<input type="checkbox"/> 1.2×10^9	<input type="checkbox"/> 3.7×10^6
<input type="checkbox"/> Ne	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 7.8×10^8	<input type="checkbox"/> 8.5×10^8	<input type="checkbox"/> 2.6×10^6
<input type="checkbox"/> Si	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 4.0×10^8	<input type="checkbox"/> 4.4×10^8	<input type="checkbox"/> 1.3×10^6
<input type="checkbox"/> Ar	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.4×10^8	<input type="checkbox"/> 2.7×10^8	<input type="checkbox"/> 8.0×10^5
<input type="checkbox"/> Fe	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 8.3×10^5

*Number of irradiating ionic particles (pps) in the table is the maximum number of particles approved for use; the actual number of irradiating ionic particles available is less.

No.	item	How to fill out the form
⑮	Irradiating ions and energy	Please put a “✓” in the irradiating ions used and the applicable maximum energy in the project.
⑯	Number of irradiating ionic particles	Please put a “✓” in the number of irradiating ionic particles in the project.

Information on experimental participants

(*1)	(*2, 3)	Name	E-Mail address (*4)	Affiliation	Status within QST. (*5)
⑳	<input checked="" type="checkbox"/> <input type="checkbox"/>	John Smith	xxx@xxx.co.jp	QST Univ.	C

(*1) Among those who will actually participate in the project, please decide who will be responsible for representing the work group and place a check mark. This person may be different from the person who will be responsible for the project representative. If there will be a different person responsible for each machine time, please check all responsible persons.

(*2) Please circle those who have completed registration as a “Radiation Worker” in QST Chiba office.

(*3) Please Δ if you plan to register as a “Radiation Worker” in QST Chiba office.

(*4) Please fill in your e-mail address if you have one.

(*5) In QST Chiba office, please select the applicable category from the following and fill in the appropriate alphabet.

Please check with the project staff in QST to determine which category applies to you.

A: Retirees and fixed term employees in QST	F: Visiting Collaborative Researcher	K: others ()
B: Collaborative Researcher	G: Postdoctoral Fellow	
C: Visiting Researcher	H: Invited Researcher	
D: Cooperative Program Graduate Student	I: JSPS Research Fellow	
E: Trainee	J: Junior Researcher Associate	

※If you are not registered as a “Radiation Worker” in QST Chiba office by the day of the experiment, you will not be able to participate in the experiment even if your name is on the list of participants for this experiment.

No.	item	How to fill out the form
⑳	Information on experimental participants	Please include the experiment participant's name, email address, institutional affiliation, and status within QST.