# **Academic Year 2025**

# Graduate School of Science Hokkaido University

# **Doctoral Course**

(Latter Period of Doctoral Program)

# **Winter Selection**

# **Guidelines for Application for the Entrance Examination**

For enrollment April 2025 or October 2025

General Category and Special Category for Working Adults (Including Admission for International Students Residing in Japan)

November 2024

# <u>Notes</u>

I. Applicants for the Department of Natural History Sciences must submit a certificate for English Language proficiency (the original of score sheet of either TOEFL or TOEIC). See page 6 and 8 for details. As for the examination schedule, etc., please confirm it by yourself based on the period of application receipt. Applicants who have already submitted a score sheet for the summer admission (August 8 &9, 2024) may apply for exemption from submitting a score sheet (or may submit a new score sheet). Applicants must tick the box 'Exemption from score sheet submission' on the application form.

# **Personal Information Management by Hokkaido University**

- (1) In handling personal information at Hokkaido University, Hokkaido University makes every effort to obey relevant laws and ordinances such as the "Protection Law for Private Information Held by Independent Administrative Corporations", and protect personal information pursuant to "National University Corporation Hokkaido University Personal Information Management Rules".
- (2) Personal information, such as name, address, etc., provided by the applicant to the university in the process of applying for admission and pre-assessment of eligibility will be used only for 1) assessment of applicants (processing of application, conducting selection), 2) the announcement of application results, 3) enrollment procedures, 4) surveys and research on enrollee selection methods, and 5) business operations pertaining to 1-4.
- (3) Private companies commissioned by the University (hereafter called "commissioned companies") may handle personal data to engage in the relevant operations. Part or all of the personal information submitted to the University by the applicant will be provided to the commissioned companies, to the extent necessary for them to carry out their duties.
- (4) After successful applicants are enrolled, the personal information provided by the applicants to the university in the process of applying for admission and pre assessment of eligibility will be used for; 1) academic affairs (registration, academic guidance, etc.), 2) student support services (health management, scholarship applications, etc.), 3) career support services, and 4) tuition and fees, and related administrative operations.
- (5) Among the personal information of (4), only contact details, name and address and so on, may be used by Hokkaido University Frontier Foundation, Alumni Association of the School of Science and Alumni Association Elm of Hokkaido University with security measures.
- (6) Applicants will be informed separately about the handling of personal data in accordance with the EU General Data Protection Regulation (GDPR). Applicants to whom such rules apply (those applying from within the European Economic Area (EEA) member states) should notify the Graduate School Educational Affairs Section, Science and Life Science Administration Department, prior to application.

# Admission Policy for the Graduate School of Science

Applicants must have completed core subjects in the fields of Mathematics, Physics, Chemistry, Biological Sciences, Earth Sciences, or related subjects. To engage in more specialized and advanced academic research, they must also have the ability, character, and aptitude to study independently and to rigorously investigate the principles of nature as well as must have extensive knowledge and techniques.

# Principle Selection Policy (Multiple-Layered Evaluation Method)

# [General Category]

Written and oral examinations will be conducted in accordance to each department and field of study. In the written examination, particular emphasis will be placed on the evaluation of "knowledge and skills" and "ability to think, judge, and express". In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills," "ability to think, judge, and express,", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

# [Special Category for Working Adults]

Written and oral examinations will be conducted in accordance to each department and field of study. In the written examination, particular emphasis will be placed on the evaluation of "knowledge and skills" and "ability to think, judge, and express".

In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills," "ability to think, judge, and express,", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

For applicants under the Special Category for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills. In addition, their levels of "knowledge and skills", "ability to think/judge/ express", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation" are given a great importance.

# (Special Category for International Students)

In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills,"
"ability to think, judge, and express,", "ability to work independently and cooperatively",
"comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

• Principle Selection Policy (Evaluation Elements and Their Importance) [Doctoral Course (Latter Period of Doctoral Program)]

		3	Key Academic Elemen	nts				Cultural			
Category of Entrance Examination	Evaluation Element	Knowledge and Skills	Ability to think, judge, and express	Leaning Attitude (to take initiative, to cooperate with diverse people)	Comprehension	Ability to identify problems	Interest and motivation	knowledge			
	Written examination	0	0		0						
General Category	Oral examination (※2)	0	©	©	©	0	0	0			
	Application Documents (Research Plan, Transcript, etc.)	Comprehensively evaluated									
	Written examination	0	0		0						
Special Category for Working Adults	The Graduate School of Science will assess applicants based on their master's thesis or equivalent (through an interview), knowledge on their specified field, foreign language skills, research plan after enrollment and other application documents submitted. For applicants under the Special Category for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills.	©	©	©	0	©	©				
	Oral examination (X2)	0	0	0	0	0	0	0			
	Application Documents (Research Plan, Transcript, etc.)			Comprehensively evaluated							
Special Category for	Oral examination (%1)	0	0	0	0	0	0	0			
International Students	Application Documents (Research Plan, Transcript, etc.)	Deline Mestine C		Compreh	ensively evaluated						

# **General Category and Special Category for Working Adults**

# 1. Admission Quota

	Admissio	on Quota			
Department	April, 2025	October, 2025	Website's URL		
Mathematics	<u>,</u>	9	https://www2.sci.hokudai.ac.jp/dept/math/en		
Condensed Matter Physics	7		https://phys.sci.hokudai.ac.jp/cond-mat/index_eng.html		
Cosmosciences	A few s	students	https://www.cosmo.sci.hokudai.ac.jp/en/index.html		
Natural History Sciences	A few s	students	Earth and Planetary Dynamics/ Earth and Planetary System Science/ Seismology and Volcanology: https://geodynamics.sci.hokudai.ac.jp/dyna-admin/en/index.html https://epsys.sci.hokudai.ac.jp/english.html https://isv.sci.hokudai.ac.jp/english/ Biodiversity: https://biodiversity.sci.hokudai.ac.jp/bd/en/ Science Communication: https://sc.sci.hokudai.ac.jp/		
Total	Approx. 1	16students			

# [Important]

- ① For more details about each department, please contact the department concerned.
- ② Applicants to the Department of Natural History Sciences must choose from among the Divisions of 1) Earth and Planetary Science etc. (Earth and Planetary Dynamics/ Earth and Planetary System Science/ Seismology and Volcanology) 2) Biodiversity, or 3) Science Communication. Check the appropriate box on the application form.
- ③ The admission quota in the table above includes working adults and international students. Those who wish to enroll while continuing their employment may apply under the Special Category for Working Adults.

# 2. Eligibility

## Applicants must fulfill one of the following criteria.

- (1) Received or are expected to receive a master's degree or a professional degree (refers to the professional degree stipulated in Article 5-2 of the Degree Regulations (Ordinance of the Ministry of Education, Science and Culture No.9 of 1953) in accordance with the provisions of Article 104 (3) of the School Education Act) prior to admission;
- (2) Received or are expected to receive a degree equivalent to a master's degree or a professional degree at a university outside Japan prior to admission;
- (3) Received or are expected to receive a degree equivalent to a master's degree or a professional degree by completing course subjects through a distance-learning course offered by an institution of a foreign country while living in Japan prior to admission;
- (4) Received or are expected to receive a degree equivalent to a master's degree or a professional degree by completing a structured education at an institution established in Japan that is recognized by the school education system of a foreign country as an equivalent of the graduate school of that country and is designated separately by the Ministry of Education, Culture, Sports, Science and Technology (MEXT);
- (5) Received or are expected to receive a degree equivalent to a master's degree by completing a course at the United Nations University which was established based on the United Nations General Assembly Resolution of December 11 of 1972, stipulated in Article 1(2) of the Act on Special Measures Concerning the Enforcement of the Agreement between the United Nations and Japan about the Headquarters of the United Nations University (Act No. 72 of 1976);

- (6) Are recognized as having academic aptitude equivalent or superior to those who hold a master's degree by completing a structured education provided by an institution of a foreign country, an educational institution designated in (4) above, or the United Nations University, and by passing an examination or screening or equivalent specified in Article 16-2 of the Standards for the Establishment of Graduate Schools;
- (7) Have been designated by MEXT (Ministry of Education Notification No. 118 of 1989), i.e.;
- ① Graduated from a university, engaged in research at a university or a research institute for two years or longer, and are recognized by the Graduate School of Science as having reached an academic level equivalent or superior to those who hold a master's degree, based on research results.
- ② Completed 16 years of structured education outside Japan, or completed 16 years of structured education of a foreign country through a distance-learning course offered by an institution of that country while living in Japan, and subsequently engaged in research at a university or a research institute for two years or longer, and are recognized by the Graduate School of Science as having reached an academic level equivalent or superior to those who hold a master's degree, based on research results.
- (8) Are recognized as having academic aptitude equivalent or superior to those who have a master's degree or a professional degree through the screening for entrance eligibility conducted by the Graduate School of Science and have reached the age of 24 by the enrollment date.
- \* Applicants must contact their prospective supervisor and obtain his/her acceptance in advance. The approval from the prospective supervisor does not confirm the success in the entrance examination. Also, applicants must check a supplementary description of "Documents Specified by Each Department (List of preferred laboratories or fields.")
- \* Applicants who wish to enroll in October 2025 must indicate so by checking the appropriate box on the application form.

# 3. Pre-assessment of Eligibility

# Application Period: November 28 – December 2, 2024

Applicants who fall under (7) or (8) in "2. Eligibility" must go through a pre-assessment of eligibility prior to the application for entrance examination. Please submit "5. Application Documents" during the period described above. To receive the result, please enclose a self-addressed envelope with a 110-yen stamp affixed.

<u>Applicants must not pay the entrance examination fee at the time of the pre-assessment.</u> They should pay the entrance examination fee in accordance with the notes below.

Applications must be received by post during the application period.

#### [Important]

- \*The results of the pre-assessment will be sent to applicants around December 12, 2024, by post. Once their eligibilities have been confirmed, applicants must pay the examination fee in accordance with "7. Entrance Examination Fee," and submit the payment certificate by January 9, 2025. Application will not be accepted if the payment certificate is not received during the specified period.
- \*Students who will receive the Japanese Government (MEXT) scholarship, the State-Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President's Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.

# 4. Application Period

# Application Period: January 6 – January 9, 2025

Applicants who fall under (1) through (6) in "2. Eligibility" must submit "5. Application Documents" together with the payment certificate (see "7. Entrance Examination Fee") during the application period. Applications must be received by post during the application period.

### 5. Application Documents

### (1) General Category

\* Applicants who fall under (7) or (8) in "2. Eligibility" must submit the following documents during the application period described in "3. Pre-assessment of Eligibility".

\* In the following table, "O" indicates documents that must be submitted by all applicants, while " $\triangle$ " indicates documents that must be submitted by those who meet the definition in the "Remarks".

		Applicants		
	Documents	(1) (2) (3) (4) (5) (6)	(7) (8)	Remarks
1	Application Form, Resume, Admission Ticket and Photo Card.	0	0	[Prescribed form] Applicants who have completed a structured education outside Japan or a distance-learning course offered by a foreign educational institution must fill out Resume B.
2	Research Plan after enrollment	0	0	Use prescribed form.
3	Copy of the thesis for master's degree	Δ		Applicable to a master's or professional degree holder.     Applicants from the Master's Course in the Graduate School of Science, Hokkaido University, are not required to submit this document.
4	Summary of research made during the Master's Course (within two pages in A4-sized paper).	Δ		Applicable to those who received or are expected to receive a master's degree.  Applicants to the Department of Mathematics should submit a <u>summary of study and research</u> instead of a summary of research.
5	List of research accomplishments and copy of principal research paper		0	In any format.
6	Certificate of Research		0	[Discretionary format] Documents to prove the topic and period of your research issued by the head of university or research institute or a supervisor.
7	Official transcript issued by the graduate school or equivalent institution	0	0	<ul> <li>① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document.</li> <li>② Applicants under (6), (7) or (8) in "2. Eligibility" are required to submit a transcript issued by the academic institution or school they graduated most recently.</li> <li>* In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.</li> </ul>
8	Official certificate of graduation (or expected graduation issued by the graduate school or equivalent institution	0	0	① An Official Certificate must be issued by the Head of the graduate school or equivalent institution. (Degree information should be contained if you have already graduated.)  ② Applicants who graduated or are expected to graduate from a graduate school or equivalent institution in China (except Taiwan, Hong Kong, and Macao) must submit the following document written in English along with an official certificate of graduation (or expected graduation).  Applicants who; -graduated (a) Online Verification Report of Higher Education Qualification Certificate -are expected to graduate (a) Online Verification Report of Student Record  Document (a) can be obtained from the China Credentials Verification (中国高等教育学历证书查询 http://www.chsi.com.cn/xlcx/bgys.jsp)  Please make sure the web authentication should be valid at least 15 days at the time of submission.  ② Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ③ Applicants under (7) or (8) in "2. Eligibility" are required to submit the certificate issued by the last academic institution or school they graduated. ④ Applicants under (6) in "2. Eligibility" are required to submit a document equivalent to the Qualifying Examination.  * In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.
9	Documents specified by each department	Δ	Δ	See "(3) Documents Specified by Each Department" below.

10	Self-addressed envelope to receive the admission ticket for entrance examination.	0	0	[Prescribed envelope] Write your name, mailing address and postal code on an envelope with a 480- yen stamp attached. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
11	Stickers to receive application results and to be used for communication purposes	0	0	[Prescribed sticker] Write your name, mailing address and postal code on each sticker. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
12	Recommendation letter from the president or a faculty member of the most recent academic institution	Δ	Δ	[A4-sized paper in any format] Applicants to the Department of Mathematics, Condensed Matter Physics, or Cosmosciences may submit this document (not mandatory).
13	Certificate for English Language proficiency (The original score sheet of TOEFL or TOEIC)	Δ	Δ	Applicants for Natural History Sciences must submit certificates. Applicants must submit either (1) or (2) score sheet. Score sheet must be original. (Refer to "Note" below.)  (1) TOEIC Public Testing [Listening & Reading] (must have been taken in or after July 2022)  *In the case of taking TOEIC (Public Testing) after April 2023, a printed Digital Official Score Certificate could be submitted instead of the original Official Score Certificate. (2) TOEFL-iBT (Home Edition is accepted) (must have been taken in or after July 2022) TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted.  Applicants who have already submitted a score sheet for the summer admission (August 8 & 9, 2024) may apply for exemption from submitting a score sheet (or may submit a new score sheet). Applicants must tick the box 'Exemption from score sheet submission' on the application form.
14	Self-addressed envelope to receive the result of pre- assessment		0	Write your name, mailing address and postal code on a standard envelope with a 110-yen stamp attached.

# (Note) Handling of English language proficiency score sheets submission

No additions or replacements of score sheets submitted during the application period will be accepted. If you can submit a printout of the test results that can be checked on the website at the time of submitting the application documents, and if you can submit the original score sheet by Monday February 10, 2025 (must arrive by post or in person), you can submit a printed copy of the relevant test result instead of the original score sheet during the period for receiving the application form. However, if the original score sheet is not submitted (by post or in person) by Monday February 10, 2025, the English language proficiency score will be treated as 'no score'. In this case, the examination fee already paid will not be refunded.

# (2) Special Category for Working Adults

- \* Applicants under (7) or (8) in "2. Eligibility" must submit the following documents during the application period for "3. Pre-assessment of Eligibility."
- \* In the following table, " $\bigcirc$ " indicates documents that must be submitted by all applicants, while " $\triangle$ " indicates documents that must be submitted by those who meet the definition in the "Remarks".

Documents  Applicants  (1) (2) (3) (4) (7) (8) (5) (6)		Appl	icants	
		(7) (8)	Remarks	
1	Application Form, Resume, Admission Ticket and Photo Card.	0	0	[Prescribed Form] Applicants who have completed a school education outside Japan or a distance-learning course offered by a foreign educational institution must fill out <b>Resume B</b> .
2	Certificate of employment issued by a person with authority over personnel administration in the applicant's workplace.	0	0	[Discretionary format] Successful applicants will be required to submit a written consent on enrolling in the doctoral course while continuing their employment issued by the person who has authority over personnel management. All applicants are advised to obtain the consent in advance.
3	Research Plan after enrollment.	0	0	Use Prescribed Form
4	List of research accomplishments and copy of principal research paper	0	0	Discretionary format

5	Certificate of research	0	0	[Discretionary format] Documents to prove the topic and period of your research issued by the president of a university, head of a research institute or a supervisor.
6	Official transcript issued by the most recent graduate school or equivalent institution	0	0	<ul> <li>① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document.</li> <li>② Applicants under (6), (7) or (8) in "2. Eligibility" are required to submit a transcript issued by the academic institution or school they graduated most recently.</li> <li>* In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.</li> </ul>
7	Official certificate of graduation (or expected graduation) issued by the most recent graduate school or equivalent institution	0	0	① An Official Certificate must be issued by the Head of the graduate school or similar institution. (Degree information should be contained if you have already graduated.) ② Applicants who graduated or are expected to graduate from a graduate school or similar institution in China (except Taiwan, Hong Kong, and Macao) must submit the following document written in English along with an official certificate of graduation (or expected graduation).  Applicants who; -graduated (a) Online Verification Report of Higher Education Qualification Certificate -are expected to graduate (a) Online Verification Report of Student Record  Document (a) can be obtained from the China Credentials Verification (中国高等教育学历证书查询 http://www.chsi.com.cn/xlcx/bgys.jsp) Please make sure the web authentication should be valid at least 15 days at the time of submission.  ② Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ③ Applicants under (7) or (8) in "2. Eligibility" are required to submit the certificate issued by the last academic institution or school they graduated. ④ Applicants under (6) in "2. Eligibility" are required to submit a document equivalent to the Qualifying Examination.  * In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.
8	Documents specified by each department	Δ	$\triangle$	See "(3) Documents Specified by Each Department" below.
9	Self-addressed envelope to receive an admission ticket for entrance examination	0	0	[Prescribed envelope] Write your name, mailing address and postal code on the prescribed envelope with a 480-yen stamp attached. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
10	Stickers to receive application results and to be used for communication purposes	0	0	[Prescribed sticker] Write your name, mailing address and postal code on each sticker. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
11	Recommendation letter from a person with authority over personnel management in the workplace, or by a (prospective) supervisor at the university or research institute	Δ	Δ	[A4-sized paper in any format] Applicants to the Department of Mathematics, Condensed Matter Physics, or Cosmosciences may submit this document (not mandatory).

1	2 Certificate for English Language proficiency (The original score sheet of TOEFL or TOEIC)	Δ	Δ	Applicants for Natural History Sciences must submit certificates. Applicants must submit either (1) or (2) score sheet. Score sheet must be original. (Refer to "Note" below.)  (1) TOEIC Public Testing [Listening & Reading] (must have been taken in or after July 2022)  *In the case of taking TOEIC (Public Testing) after April 2023, a printed Digital Official Score Certificate could be submitted instead of the original Official Score Certificate. (2) TOEFL-iBT (Home Edition is accepted) (must have been taken in or after July 2022) TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted.  Applicants who have already submitted a score sheet for the summer admission (August 8 & 9, 2024) may apply for exemption from submitting a score sheet (or may submit a new score sheet). Applicants must tick the box 'Exemption from score sheet submission' on the application form.
1	Self-addressed envelope to receive the result of preassessment		0	Write your name, mailing address and postal code on a standard envelope with an 110-yen stamp attached.

(Note) Handling of English Language Proficiency Score Sheet Submission

No additions or replacements of score sheets will be accepted.

At the application submission period, if you can submit a printed copy of the test results that can be viewed on the web, and if you can submit the original score sheet by Wednesday February 10, 2025 (must arrive by mail or in person), you may submit a copy of the test results as a substitute for the original score sheet during the application period. However, if the original score sheet is not submitted (by mail or in person) by Wednesday February 10, 2025, the English

Language proficiency score will be treated as "no score". In such a case, the examination fee already paid will not be refunded.

# (3) Documents Specified by Each Department

	Department	Documents to be submitted	Remarks
Mathematics		Motivations for application (prescribed form)	Provide the motivations for applying to this department.
Condensed Matter Physics		List of preferred laboratories or fields (prescribed form)	To do so, you must contact the supervisors of your prospective laboratories in advance and obtain permission of acceptance and permission of listing the laboratories in the survey sheet
	Cosmosciences	List of preferred laboratories or fields (prescribed form)	Provide the name of one laboratory you wish to choose from the List of Supervisors and Research Fields. To do so, you must contact the supervisors of your prospective laboratories in advance and obtain permission of joining and permission of listing the laboratories in the survey sheet
iences	Earth and Planetary Dynamics Earth and Planetary System Science Seismology and Volcanology	List of preferred laboratories or fields (prescribed form)	Provide the name(s) of supervisor(s) you wish to seek guidance from the List of Supervisors and Research Fields.
istory Sc	Biodiversity	List of preferred supervisors (prescribed form)	Provide the name(s) of supervisor(s) you wish to seek guidance from.
Earth and Planetary System Science Seismology and Volcanology  Biodiversity  Science Communication		List of preferred     laboratories or fields     (prescribed form)     Motivations for application     (prescribed form)	

# 6. Where to Submit

To: Graduate School Educational Affairs Section Science and Life Science Administration Department Hokkaido University Kita-10 Nishi-8, Kita-ku, Sapporo 060-0810, Japan \*<u>Application documents must be sent by mail.</u> Please mark "Application for the Graduate School Enclosed" in red on the envelope and send it by express registered mail. Please use the envelope prepared by you, not the "envelope for sending examination ticket" provided in the admission guidelines.

# 7. Entrance Examination Fee: 30,000 yen

- (1) Students who are expected to complete the Master's Course offered by the graduate schools of Hokkaido University, or who will receive the Japanese Government (MEXT) scholarship\*, the State-Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President's Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.
  - \* MEXT scholarship students recommended by Japanese Embassies/Consulates, authorities, or universities other than Hokkaido University are required to submit a copy of the letter proving that they will receive this scholarship.
- (2) Remit the examination fee through a bank or a post office by using the payment slip for entrance examination fee which is enclosed in the application package and attach the payment certificate to the appropriate section on the application form.
- (3) The examination fee is not refundable except for the following cases:
  - The applicant has decided not to submit an application after examination fee was remitted, or the application was not accepted.
  - The applicant paid the examination fee twice by mistake.

# 8. Screening Method

The Graduate School of Science will assess applicants based on their master's thesis or equivalent (through an interview), knowledge on their specified field, foreign language skills, research plan after enrollment and other application documents submitted.

For applicants under the Special Category for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills.

- \* As to the Oral Examination of the Division of Science Communication in the Department of Natural History Sciences, it will be held online using the Internet Meeting System.
- \* In the Department of Natural History Science, TOEFL or TOEIC scores are taken into account in the selection process. Please check the TOEFL and TOEIC examination dates, application periods and etc. on your own.

# 9. Examination Dates & Venue

Date: February 12 -13, 2025

Venue: Graduate School of Science, Hokkaido University (Kita-10 Nishi-8 Kita-ku, Sapporo)

\* The Graduate School of Science will send detailed information on the entrance examination, including the exam time and place when sending the administration ticket.

# 10. Announcement of Results

The examinee's number of successful applicants will be posted on the website of the Graduate School of Science around 4:30 PM on February 20, 2025. All applicants are notified of their results individually.

# 11. Procedures for Enrollment and Payment of Fees

All successful applicants are notified of the registration procedure at the time of notification of results.

Enrollment Fee: 282,000 yen (estimated)

\* Applicants who are expecting to complete a Master's Course in the graduate schools of Hokkaido University are not required to pay the enrollment fee.

Tuition Fee: 267,900 yen for the first semester [Total annual tuition fee = 535,800 yen] (estimated).

\*If the tuition fee is revised during the period of your enrollment, the revised fee becomes effective immediately.

# 12. Important Notice

- (1) Make sure to bring your admission ticket on the day of examination and put it on your desk.
- (2) After submitting the application documents, applicants are not allowed to change their selection of department for any reason.
- (3) If you need special considerations and/or arrangements in taking the examination due to physical difficulties, consult with the Graduate School Educational Affairs Section at the time of application.

# 13. Extending Enrollment Duration

It is possible to extend the standard years of study at the Graduate School of Science. Read "Extension of the Enrollment Duration" on page 11, and submit an application if you wish to take advantage of this scheme.

#### 14. Other Information

The admission ticket for entrance examination will be sent around January 20, 2025, to all applicants whose application document is accepted.

① If you have any questions about the application procedure, please contact the following:

# **Graduate School Educational Affairs Section**

Science and Life Science Administration Department Hokkaido University Kita-10 Nishi-8 Kita-ku, Sapporo 060-0810, Japan (Office hours: 8:30 a.m. – 5:00 p.m. weekday) Tel: (011) 706 - 3675

E-mail: r-gakuin@sci.hokudai.ac.jp

Graduate School of Science, Hokkaido University

https://www2.sci.hokudai.ac.jp/gs/en

## **Extension of the Enrollment Duration**

#### 1. Aims

When students are under special circumstances such as having a job, etc. (including child and nursing care), they may apply for an extension of enrollment duration which exceeds the standard enrollment duration (3 years) (hereinafter referred to as "Extension of the Enrollment Duration"). The graduate school may approve such requests after reviewing their application.

#### 2. Intended Students

Students who fall under one of the criteria below and for that reason, wish to set the study duration longer than the standard Enrollment Duration to complete an academic (research) course:

- (1) Have a full-time job in a public office or company (excluding those who are exempt from job duty but receive a salary), or are self-employed;
- (2) Have a part-time job that has a significant influence on the full-time academic work;
- (3) Are taking care of children or other family members, which has a significant influence on the full-time academic work; or
- (4) Are visually impaired, hearing impaired, physically handicapped, etc., which are deemed to have a significant influence on the academic work for an extended period of time.

## 3. Maximum Enrollment Duration

The maximum enrollment duration is 6 years for the doctor's degree program, and a student can apply for extension by the year. Students who have been approved of Extension of the Enrollment Duration may not continue their study beyond 6 years.

Students may take a temporary leave of absence from school for up to 3 years, the same as the students under the standard duration of study.

# 4. Application Procedure

(1) Application Period

As a general rule, application documents for Extension of the Enrollment Duration should be submitted at the time of application for entrance examination.

- (2) Required Documents
  - ① Application Form for Extension of the Enrollment Duration(Form 1).
  - ② Research Plan Under Extension of the Enrollment Duration(Form 2).
  - ③ Documents to prove that an applicant needs to apply for Extension of the Enrollment Duration
- (3) Announcement of Results

The Graduate School of Science reviews each application individually and will notify the results to all the successful applicants who passed entrance examination.

# 5. Reducing or Extending the Duration of Enrollment

When regarded as necessary, the Graduate School of Science may approve Reduction or Extension of the Enrollment Duration only once. The maximum reduction of Extended Duration of Enrollment is the period of adding one year to the standard duration of study (3 years).

# 6. Annual Tuition Fee

The tuition fee for students with the extension of enrollment duration will be calculated by multiplying the annual tuition fee by the number of years equivalent to the standard duration of study (3 years), then dividing the resulting amount by the number of years approved for extended study. If the revision is made to the tuition fee or the changes to the Duration of Extended Enrollment are approved, the fee will be calculated accordingly. However, the adjustment will not be made to the tuition fee which has already been paid.

Students who have not received the results of their application for the Extension of Enrollment Duration must not pay the tuition fee before they receive the official notification of the results.

# 7. Other Information

For more details about Extension of the Enrollment Duration, please contact the Graduate School Educational Affairs Section, Science and Life Science Administration Department, Hokkaido University.

# **Academic Year 2025**

# Graduate School of Science Hokkaido University

# **Doctoral Course**

(Latter Period of Doctoral Program)

# **Winter Selection**

# **Guidelines for Application for the Entrance Examination**

For enrollment April 2025 or October 2025

(Admission for International Students Residing Abroad)

November 2024

# <u>Notes</u>

Applicants for special category (international students) must submit a certificate for Japanese or English Language proficiency. Applicants who have difficulties in submitting certificates for Japanese or English Language proficiency may submit a transcript or similar document that shows Japanese or English grades issued by the university or school they graduated from.

# **Personal Information Management by Hokkaido University**

- (1) In handling personal information at Hokkaido University, Hokkaido University makes every effort to obey relevant laws and ordinances such as the "Protection Law for Private Information Held by Independent Administrative Corporations", and protect personal information pursuant to "National University Corporation Hokkaido University Personal Information Management Rules".
- (2) Personal information, such as name, address, etc., provided by the applicant to the university in the process of applying for admission and pre-assessment of eligibility will be used only for 1) assessment of applicants (processing of application, conducting selection), 2) the announcement of application results, 3) enrollment procedures, 4) surveys and research on enrollee selection methods, and 5) business operations pertaining to 1-4.
- (3) Private companies commissioned by the University (hereafter called "commissioned companies") may handle personal data to engage in the relevant operations. Part or all of the personal information submitted to the University by the applicant will be provided to the commissioned companies, to the extent necessary for them to carry out their duties.
- (4) After successful applicants are enrolled, the personal information provided by the applicants to the university in the process of applying for admission and pre assessment of eligibility will be used for; 1) academic affairs (registration, academic guidance, etc.), 2) student support services (health management, scholarship applications, etc.), 3) career support services, and 4) tuition and fees, and related administrative operations.
- (5) Among the personal information of (4), only contact details, name and address and so on, may be used by Hokkaido University Frontier Foundation, Alumni Association of the School of Science and Alumni Association Elm of Hokkaido University with security measures.
- (6) Applicants will be informed separately about the handling of personal data in accordance with the EU General Data Protection Regulation (GDPR). Applicants to whom such rules apply (those applying from within the European Economic Area (EEA) member states) should notify the Graduate School Educational Affairs Section, Science and Life Science Administration Department, prior to application.

# Admission Policy for the Graduate School of Science

Applicants must have completed core subjects in the fields of Mathematics, Physics, Chemistry, Biological Sciences, Earth Sciences, or related subjects. To engage in more specialized and advanced academic research, they must also have the ability, character, and aptitude to study independently and to rigorously investigate the principles of nature as well as must have extensive knowledge and techniques.

# Principle Selection Policy (Multiple-Layered Evaluation Method)

# [General Category]

Written and oral examinations will be conducted in accordance to each department and field of study.

In the written examination, particular emphasis will be placed on the evaluation of "knowledge and skills" and "ability to think, judge, and express". In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills," "ability to think, judge, and express,", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

# [Special Category for Working Adults]

Written and oral examinations will be conducted in accordance to each department and field of study.

In the written examination, particular emphasis will be placed on the evaluation of "knowledge and skills" and "ability to think, judge, and express".

In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills," "ability to think, judge, and express,", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

For applicants under the Special Category for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills. In addition, their levels of "knowledge and skills", "ability to think/judge/ express", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation" are given a great importance.

# [Special Category for International Students]

In the oral examination, particular emphasis will be placed on the evaluation of "knowledge and skills," "ability to think, judge, and express,", "ability to work independently and cooperatively", "comprehension", "ability to identify problems", and "interest and motivation".

The Graduate School of Science will comprehensively assess applicants on the basis of the application documents (such as research plan, transcript, etc.).

# • Principle Selection Policy (Evaluation Elements and Their Importance) [Doctoral Course (Latter Period of Doctoral Program)]

	,	3	Key Academic Elemen							
Category of Entrance Examination	Evaluation Element	Knowledge and Skills	Ability to think, judge, and express	Leaning Attitude (to take initiative, to cooperate with diverse people)	Comprehension	Ability to identify problems	Interest and motivation	Cultural knowledge		
	Written examination	0	0		0					
General Category	Oral examination (%2)	0	0	0	0	0	0	0		
	Application Documents (Research Plan, Transcript, etc.)			Compreh	ensively evaluated					
	Written examination	0	0		0					
Special Category for Working Adults	The Graduate School of Science will assess applicants based on their master's thesis or equivalent (through an interview), knowledge on their specified field, foreign language skills, research plan after enrollment and other application documents submitted. For application documents submitted. For application their specified stategory for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills.	©	<b>©</b>	©	0	©	<b>©</b>			
	Oral examination (※2)	0	0	0	0	0	0	0		
	Application Documents (Research Plan, Transcript, etc.)	Comprehensively evaluated								
C 1 C	Oral examination (%1)	0	0	0	0	0	0	0		
Special Category for International Students	Application Documents (Research Plan, Transcript, etc.)			Compreh	ensively evaluated					

<sup>★1:</sup> Examination will be carried out by using Online Meeting System, etc.

<sup>\*\*2:</sup> The Graduate School of Science will assess applicants based on their master's thesis or equivalent (through an interview), knowledge on their specified field, foreign language skills, research plan after enrollment and other application documents submitted.

(Note) 

"\*Key element we will give great importance on evaluation / O···Key element we will give importance on evaluation

# **Special Category for International Students**

# 1. Admission Quota

Donoutruont	Admission Quota		
Department	April 2025	October 2025	
Mathematics			
Condensed Matter Physics	A.C 1		
Cosmosciences	A few students		
Natural History Sciences			

# 2. Eligibility

Applicants must be a citizen of a county other than Japan and living outside of Japan (therefore it is difficult to travel to Japan to take the entrance examination). They must be recognized as having enough competence and scholastic performance by a faculty member of the Graduate School of Science who has agreed to be a supervisor\* after enrollment. Also, they must fulfill one of the following criteria:

- (1) Received or are expected to receive a degree equivalent to a master's degree or a professional degree at a university outside Japan prior to admission;
- (2) Received or are expected to receive a degree equivalent to a master's degree by completing a course at the United Nations University which was established based on the United Nations General Assembly Resolution of December 11 of 1972, stipulated in Article 1(2) of the Act on Special Measures Concerning the Enforcement of the Agreement between the United Nations and Japan about the Headquarters of the United Nations University (Act No. 72 of 1976);
- (3) Are recognized as having academic aptitude equivalent or superior to those who hold a master's degree by completing a school education provided by an institution of a foreign country or the United Nations University, and by passing an examination or screening or equivalent specified in Article 16-2 of the Standards for the Establishment of Graduate Schools;
- (4) Have been designated by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) (Ministry of Education Notification No. 118 of 1989), i.e., completed 16 years of structured education outside Japan and subsequently engaged in research at a university or a research institute for two years or longer, and are recognized by the Graduate School of Science as having reached an academic level equivalent or superior to those who hold a master's degree, based on research results; or
- (5) Are recognized as having an academic aptitude equivalent or superior to those who hold a master's degree or a professional degree through the screening for entrance eligibility conducted by the Graduate School of Science, and have reached the age of 24 by the enrollment date.
- \* Applicants must contact their prospective supervisor and obtain his/her acceptance in advance. Then they will receive a password necessary for online application. The approval from the prospective supervisor does not confirm the success in the entrance examination. Also, applicants must request their prospective supervisor to write a recommendation letter (discretionary format) and ask him/her to submit it to the Graduate School Educational Affairs Section during the application period.
- \* Those who wish to enroll in October 2025 must indicate so by choosing "October 2025 enrollment" at the time of online application.

# 3. Pre-assessment of Eligibility

# Application Period: November 28 – December 2, 2024, by 5:00 PM JST

Applicants who fall under (4) or (5) in "2. Eligibility" must go through a pre-assessment of eligibility prior to the formal application period for entrance examination. Please submit "6. Application Documents" in PDF format during the above period by email to the address below. If you provide false information, your application may be rejected.

Email address: r-gakuin@sci.hokudai.ac.jp

Applicants must not pay the entrance examination fee at the time of the pre-assessment.

The results of the pre-assessment will be sent to applicants around December 12, 2024, by email. Once their eligibilities have been confirmed, applicants must pay the examination fee in accordance with "5. Application Procedure and Payment of Fees" during the period described in "4. Application Period".

Students who will receive the Japanese Government (MEXT) scholarship, the State-Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President's Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.

# 4. Application Period

# ◆ Online application: December 12 – December 17, 2024, by 5:00 PM JST

\* After completing the online application, applicants must scan all application documents in PDF format and send them via email by December 17, 2024.

Email address: r-gakuin@sci.hokudai.ac.jp

# ◆ Deadline for submitting application documents by post: January 9, 2025, by 5:00 PM JST

- \* Aside from the PDF files sent by email, applicants must send hard copies of the application documents by registered mail. They must be received by the deadline so consider the time for courier delivery.
- \*Applicants under (1), (2), or (3) in "2. Eligibility" must apply by referring to "5. Application Procedure and Payment of Fees" during the application period.
- \*Applicants under (4) or (5) in "2. Eligibility" must first apply for the pre-assessment explained in "3. Pre-Assessment of Eligibility". Once their eligibilities have been confirmed, they must complete the procedure described in "5. Application Procedure and Payment of Fees" during the application period.

# 5. Application Procedure and Entrance of Fees

Applicants must complete all of the following (1-3) by the deadline specified in "4. Application Period".

# ① Online Application

Applicants must have (or have access to) a printer for printing the application documents, and have an email address capable of receiving a notification from the university (cell phone's email address is not accepted).

- 1) Access the Hokkaido University Online Application website using the password received from the prospective supervisor (https://e-apply.jp/e/hokudai-sci/)
- 2) Read the instructions on the website carefully and fill out all the necessary information.
- 3) If successfully registered, notification will be sent to the email address you have provided.

### 2 Payment of Entrance Examination Fee

Entrance examination fee of 30,000 yen must be paid in accordance with the instructions provided on the payment procedures screen shown after you have completed the online application. Use one of the following methods to make payment.

- (i) Credit card
- (ii) Pay-easy (bank ATM, Japan Post bank ATM, or online banking), convenience store, PayPay Bank, or Rakuten Bank
- (iii) ChinaPay (online payment service offered by China UnionPay)
- \* Along with the entrance examination fee, about 500 yen will be added as a handling charge.
- \* Students who will receive the Japanese Government (MEXT) scholarship, the State- Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President's Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.

MEXT scholarship students recommended by Japanese Embassies/Consulates, authorities, or universities other than Hokkaido University are required to submit a copy of the letter proving that they will receive this scholarship.

- \* The examination fee is not refundable except for the following cases:
  - The applicant has decided not to submit an application after examination fee was remitted, or the application was not accepted.
  - The applicant paid the examination fee twice by mistake.

# ③ Submission of Application Documents by Post

Print the application form and resume that are generated after you have completed the online application and send them along with other necessary documents (see "6. Application Documents") in an envelope by registered mail. It must be received by the deadline. The application documents will not be returned once submitted.

# To: Graduate School Educational Affairs Section Science and Life Science Administration Department Hokkaido University Kita-10 Nishi-8, Kita-ku, Sapporo 060-0810, Japan

- \* The application will be considered complete once all documents are received by the Graduate School Educational Affairs Section. Note that completion of the online application alone does not constitute completion of the application procedure.
- \* Applications received after the deadline will not be accepted. Consider the time for courier delivery and be sure to post it well in advance.

# **6. Application Documents**

\* In the following table, "O" indicates documents that must be submitted by all applicants; while "\(\triangle\)" indicates documents that must be submitted by those who meet the definition in the "Remarks"

		Applicants		
	Documents	(1) (2) (3)	(4) (5)	Remarks
1	Application Form and Resume.	0	<u></u> *	Print the application form and resume that are generated after completing online application registration (on A4-sized paper).  * Applicants under (4) or (5) in "2. Eligibility" must do so after their eligibilities have been accepted through the pre-assessment.
2	Application Form for Preassessment.		0	Prescribed form is available for download from the online application website.
3	One ID Photograph	0	0	Photo size must be (4cm×3cm)
4	Research plan after enrollment.	0	0	Prescribed form is available for download from online application website. Print on A4 sized paper.
5	Copy of the thesis for master's degree	Δ		Applicable to a master's degree holder.
6	Summary of research made during the Master's Course (within two pages in A4-sized paper).	Δ		Applicable to those who received or are expected to receive a master's degree. Applicants to the Department of Mathematics should submit a <u>summary of study and research</u> instead of a summary of research.
7	Official transcript issued by the graduate school	0	0	Recommendation letter form the applicant's supervisor may be attached for reference.     Applicants under (3), (4) or (5) in "2. Eligibility" are required to submit a transcript issued by the academic institution they graduated most recently.     In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.
8	Japanese or English Language Proficiency Certificate	0	0	Applicants who have difficulties in submitting the Japanese or English Language proficiency certificate may submit a transcript or similar document that indicates Japanese or English grades issued by the graduate school where they graduated from.

9	Official certificate of graduation (or expected graduation) issued by the graduate school or equivalent institution	0	0	①An Official Certificate must be issued by the Head of the graduate school or equivalent institution. (Degree information should be contained if you have already graduated.)  ② Applicants who graduated or are expected to graduate from a graduate school or equivalent institution in China (except Taiwan, Hong Kong, and Macao) must submit the following document written in English along with an official certificate of graduation (or expected graduation).  Applicants who;  -graduated (a) Online Verification Report of Higher Education Qualification Certificate  -are expected to graduate (a) Online Verification Report of Student Record  Document (a) can be obtained from the China Credentials Verification (中国高等教育学历证书查询 http://www.chsi.com.cn/xlcx/bgys.jsp)  Please make sure the web authentication should be valid at least 15 days at the time of submission.  ② Applicants under (4) or (5) in "2. Eligibility" are required to submit the certificate issued by the last academic institution or school they graduated.  ③ Applicants under (3) in "2. Eligibility" are required to submit a document equivalent to the QE (Qualifying Examination).  * In the case that the official transcript is written in a language other than Japanese or English, "Original Official Transcript written in the language concerned" and "Original official translation in Japanese or English" must be attached.
10	Copy of Passport	0	0	Photocopy the page showing your full name.
11	Documents requested by a prospective supervisor	Δ	Δ	

# 7. Screening Method

The Graduate School of Science will assess applicants based on their application form, resume, official transcript issued by the academic institution they graduate most recently, recommendation letter from the prospective supervisor, and other documents submitted.

# 8. Announcement of Results

The examinee's number of successful applicants will be posted on the website of the Graduate School of Science around 4:30 PM on January 30, 2025. All applicants are notified of their results individually.

# 9. Procedures for Enrollment and Payment of Fees

All successful applicants are notified of the registration procedure at the time of notification of results.

Enrollment Fee: 282,000 yen (estimated)

Tuition Fee: 267,900 yen for the first semester (Total annual tuition fee = 535,800 yen) (estimated)

\*If the tuition fee is revised during the period of your enrollment, the revised fee becomes effective immediately.

# 10. Extending the Period of Registration

It is possible to extend the standard years of study at the Graduate School of Science. Read "Extension of the Enrollment Duration" on page 8, and submit an application if you wish to take advantage of this scheme.

# ① If you have any questions about the application procedure, please contact the following:

# **Graduate School Educational Affairs Section**

Science and Life Science Administration Department Hokkaido University Kita-10 Nishi-8 Kita-ku, Sapporo 060-0810, Japan (Office hours: 8:30 a.m. – 5:00 p.m. weekday) Tel: +81-11-706 - 3675

E-mail: r-gakuin@sci.hokudai.ac.jp

Graduate School of Science, Hokkaido University https://www2.sci.hokudai.ac.jp/gs/en

### **Extension of the Enrollment Duration**

### 1. Aims

When students are under special circumstances such as having a job, etc. (including child and nursing care), they may apply for an extension of enrollment duration which exceeds the standard enrollment duration (3 years) (hereinafter referred to as "Extension of the Enrollment Duration"). The graduate school may approve such requests after reviewing their application.

#### 2. Intended Students

Students who fall under one of the criteria below and for that reason, wish to set the study period longer than the standard Enrollment Duration to complete an academic (research) course:

- (1) Have a full-time job in a public office or company (excluding those who are exempt from job duty but receive a salary), or are self-employed;
- (2) Have a part-time job that has a significant influence on the full-time academic work;
- (3) Are taking care of children or other family members, which has a significant influence on the full-time academic work; or
- (4) Are visually impaired, hearing impaired, physically handicapped, etc., which are deemed to have a significant influence on the academic work for an extended period of time.

### 3. Maximum Enrollment Duration

The maximum enrollment duration is 6 years for the doctor's degree program, and a student can apply for extension by the year. Students who have been approved of Extension of the Enrollment Duration may not continue their study beyond 6 years.

Students may take a temporary leave of absence from school for up to 3 years, the same as the students under the standard period of study.

# 4. Application Procedure

(1) Application Period

As a general rule, application documents for Extension of the Enrollment Duration should be submitted at the time of application for entrance examination.

- (2) Required Documents
  - ① Application Form for Extension of the Enrollment Duration (Form 1).
  - ② Research Plan Under Extension of the Enrollment Duration (Form 2).
  - 3 Documents to prove that an applicant needs to apply for Extension of the Enrollment Duration
- (3) Announcement of Results

The Graduate School of Science reviews each application individually and will notify the results to all the successful applicants who passed the entrance examination.

# 5. Reducing or Extending the Enrollment Duration

When regarded as necessary, the Graduate School of Science may approve of reducing or extending the Extension of the Enrollment Duration only once. The maximum reduction of Extended Duration of Enrollment is the period of adding one year to the standard period of study (3 years).

#### 6. Annual Tuition Fee

The tuition fee for students approved to study for an extended period will be calculated by multiplying the annual tuition fee by the number of years equivalent to the standard period of study (3 years), then dividing the resulting amount by the number of years approved for extended study. If the revision is made to the annual tuition fee or the changes to the Duration of Extended Enrollment are approved, the fee will be calculated accordingly. However, the adjustment will not be made to the tuition fee which has already been paid.

Students who have not received the results of application for Extension of the Enrollment Duration must not pay the tuition fee before they receive the official notification of results.

# 7. Other Information

For more details about Extended Period of Registration, please contact the Graduate School Educational Affairs Section, Science and Life Science Administration Department, Hokkaido University.

# List of Supervisors and Research Fields

As of November 1, 2024

**Doctoral Course** 

Department of Mathematics, Graduate School of Science

Professor ASAKURA Masunor Professor Professor VASUDA Seidai Number theory, arithmetic geometry  Professor VASUDA Seidai Number theory, arithmetic geometry  Associate Professor ASATO Mutsumi Algebraic analysis, rings of differential operators  Number theory, representation theory, automorphic L' Associate Professor SHIBUKAWA Youich Yang-Bexter equations and quantum groups  Associate Professor MATSUSHIAM. Travis Crystal basis, Yang-Baxter equations, Schubert calculus  Associate Professor MATSUSHIA Dasake  Professor AKITA Toshivuki Algebraic topology, group cohomology, quandle  Professor INOGUCHI Junichi (Somorty, integrable systems, Lie group, homogenous spaces, Professor Professor FURUHATA Histori Differential geometry  Professor FURUHATA Histori Differential geometry  Professor FURUHATA Histori Differential geometry, dynamical systems, Panlevé systems Associate Professor KASUYA Natohito Differential topology, contact structures, complex structures  Associate Professor KWASKI Morlinieb Symplectic geometry, partial quasi-morphism  Professor HORA Alkinto  Professor HORA Alkinto  Professor HORA Alkinto  Associate Professor MYAO Tadahiro  Associate Professor WINAO Tadahiro  Associate Professor WINAO Tadahiro  Associate Professor SUZUKI Yubei Associate Professor HAMSHE Massahara  Associate Professor SUZUKI Yubei  Associate Professor MASKI Batahara  Professor SUZUKI Yubei  Associate Professor MASKI Batahara  Professor MASKI Satoshi Perstal differential equations, machematical physics  Associate Professor SATO Yuzuru  Complex systems, chaotic dynamical systems	Fields	Super		Keywords	Remarks
Professor YASUDA Seidai Number theory, arithmetic geometry  SAITO Mutsumi Algebraic analysis, rings of differential operators  Associate Professor Arita Toshiyuki Algebraic geometry  Professor Professor Arita Toshiyuki Algebraic geometry  Professor Professor FURUHATA Hotohi Differential geometry  Professor Associate Professo		Professor	ASAKURA Masanori	Arithmetic geometry	
Algebra  Algebra  Associate Professor  CAI, Yuunqiing Associate Professor  CAI, Yuunqiing Associate Professor  CAI, Yuunqiing Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  ARITA Toshiyuki  Algebraic geometry  Professor  ARITA Toshiyuki  Algebraic geometry  Professor  ARITA Toshiyuki  Algebraic professor, a KITA Toshiyuki  Algebraic geometry  Professor  ARITA Toshiyuki  Algebraic professor, a Lie group, homogeneous spaces  Professor  FURUHATA Hitoshi  Differential geometry  Professor  Associate Professor  KABAYASHI Shunpel  Differential geometry  WASAKI Katsunori  Complex geometry, dynamical systems, Painlevé systems  Associate Professor  KASUYA Naohiho  Differential Equations associated with Nonlinear Dynamics  Professor  KUBO Hiduo  Professor  HORA Akihito  Professor  HORA Akihito  Professor  MIYAO Tadahiro  Associate Professor  KOBAYASHI Massharu  Associate Professor  MIYAO Tadahiro  Associate Professor  KOBAYASHI Massharu  Associate Professor  MIYAO Tadahiro  Associate Professor  Associate Professor  MIYAO Tadahiro  Associate Professor  MIYAO Tadahiro  Associate Professor  MIYAO Tadahiro  Associate Professor  Associate Profess		Professor	MATSUMOTO Keiji	Special functions	
Associate Professor CAI, Yuanqing Number theory, representation theory, automorphic L'fusetiona, automorphic representations, covering groups  Associate Professor SHIBUKAWA Youled Yang-Baxter equations, and quantum groups  Associate Professor SCRIMSHAW, Travis Crystal basis, Yang-Baxter equation, Schubert calculus  Associate Professor MATSUSHITA Dassuke Algebraic geometry  Professor INOGUCHI Junichi Geometry, integrable systems, Lie group, homogeneous spaces  Professor FURUHATA Hitoshi Differential geometry  Professor FURUHATA Hitoshi Differential geometry  Professor KOBAYASHI Shimpsi Differential geometry  Professor Furuhata Hitoshi Differential geometry  Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures  Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures  Associate Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics  Professor HONDA Naofumi Professor HONDA Naofumi Professor HONDA Naofumi Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor KOBAYASHI Masaharu Harmonic Analysis  Associate Professor HASEBE Takahiro Probability theory, functional analysis, condensed matter physics  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HASEBE Takahiro Probability theory, statistical mechanics, mathematical physics olutions  Professor NAMIKI Takao Probability theory, statistical mechanics, mathematical physics professor NAMIKI Takao Probability theory, statistical mechanics, mathematical physics professor NAMIKI Takao Probability theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, variational analysis  Associate Professor KURODA Hivotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hivotoshi Partial differential equations, variational saystems		Professor	YASUDA Seidai	Number theory, arithmetic geometry	
Associate Professor Associ	Algahya	Specially Appointed Professor	SAITO Mutsumi	Algebraic analysis, rings of differential operators	
Associate Professor SCRIMSHAW, Travis Crystal basis, Yang Baxter equation, Schubert calculus Associate Professor MATSUSHITA Datisuk Algebraic geometry  Professor AKITA Toshiyuki Algebraic topology, group cohomology, quandle Professor INOGUCHI Junichi Geometry, integrable systems, Lie group, homogeneous spaces Professor FURUHATA Hitoshi Differential geometry  Professor FURUHATA Hitoshi Differential geometry  Professor FURUHATA Hitoshi Differential geometry  Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KAWASAKI Morimichi Symplectic geometry, partial quasi-morphism  Professor KUBO Hideo Partial Differential Equations associated with Naulinear Dynamics Professor HONDA Naofumi Algebraic analysis, probability theory  Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor KORAYASHI Masaharu Harrmonic Analysis  Associate Professor KORAYASHI Masaharu Harrmonic Analysis  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis, pompere analysis, propense of vice of the physics of the professor NAGAYAMA Masaharu Reaction diffusion systems, mathematical physics Professor NAGAYAMA Masaharu Probability theory, functional analysis  Applied Mathmatics  Associate Professor MASAKI Satoshi Partial differential equations, theory of viscosity solutions Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis	Algebra	Associate Professor	CAI, Yuanqing	* * *	
Associate Professor  ARITA Toshiyuki  Professor  ARITA Toshiyuki  Algebraic topology, group cohomology, quandle  Professor  INOGUCHI Junichi Geometry, integrable systems, Lie group, homogeneous spaces  Professor  FURUHATA Hitoshi Differential geometry  Szecally Appointed Professor  Associate Professor  Associate Professor  KASUYA Naohiko Differential topology, contact structures, complex structures  Associate Professor  KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics  Professor  HORA Akihito Functional analysis, probability theory  Professor  Analysis  Associate Professor  MIYAO Tadahiru Associate Professor  MIYAO Tadahiru Associate Professor  KUBAYASHI Masaharu Harmonic Analysis  Associate Professor  Associate Professor  HASEBE Takahiro Probability theory, functional analysis Associate Professor  HASEBE Takahiro Probability theory, functional analysis Professor  NAGAYAMA Masaharu Probability theory, statistical mechanics, mathematical physics Professor  NAGAYAMA Masaharu Probability theory, statistical mechanics, mathematical physics Professor  NAGAYAMA Masaharu Professor  MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis Professor  MASAKI Satoshi Partial differential equations, harmonic analysis, variatio		Associate Professor	SHIBUKAWA Youichi	Yang-Baxter equations and quantum groups	
Professor AKITA Toshiyuki Algebraic topology, group cohomology, quandle Professor INOGUCHI Junichi Geometry, integrable systems, Lie group, homogeneous spaces Professor KOBAYASHI Shimpei Differential geometry Professor FURUHATA Hitoshi Differential geometry Professor FURUHATA Hitoshi Differential geometry Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KABOAKI Morimichi Symplectic geometry, partial quasi-morphism  Professor HORA Akihito Punctional analysis, probability theory Professor HONDA Naofumi Professor MIYAO Tadahiro Associate Professor MIYAO Tadahiro Associate Professor UMETA Yoko Associate Professor UMETA Yoko Associate Professor SUZUKI Yuhei Associate Professor HASEBE Takahiro Associate Professor HASEBE Takahiro Associate Professor NAGAYASHI Masaharu Harmonic Analysis Professor SAKAI Akira Professor SAKAI Akira Professor NAGAYAMA Masaharu Professor N		Associate Professor	SCRIMSHAW, Travis	Crystal basis, Yang-Baxter equation, Schubert calculus	
Professor INOGUCHI Junichi Geometry, integrable systems, Lie group, homogeneous spaces Professor ROBAYASHI Shimpei Differential geometry Professor FURUHATA Hitoshi Differential geometry  Specially Appointed Professor IWASAKI Katsunori Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KAWASAKI Morimichi Symplectic geometry, partial quasi-morphism  Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics Professor HONDA Naofumi Algebraic analysis, probability theory Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics Associate Professor UMETA Yoko Kuse WEE analysis apopulate analysis, condensed matter physics Associate Professor SUZUKI Yuhei Operator algebras Associate Professor HASEBE Takahiro Probability theory, functional analysis Professor SAKAI Akira Probability theory, functional analysis Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical physics Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation Professor MASAKI Satoshi Partial differential equations, variational analysis Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis Associate Professor Sulva Satoshi Partial differential equations, variational analysis Associate Professor Sato Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	MATSUSHITA Daisuke	Algebraic geometry	
Professor   FORMAYASHI Shimpei   Differential geometry		Professor	AKITA Toshiyuki	Algebraic topology, group cohomology, quandle	
Professor   FURUHATA Hitoshi   Differential geometry		Professor	INOGUCHI Junichi	Geometry, integrable systems, Lie group, homogeneous spaces	
Associate Professor Associate Professor Associate Professor Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures Associate Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics Professor HORA Akihito Punctional analysis, probability theory Professor HONDA Naofumi Algebraic analysis Associate Professor MIYAO Tadahiro Associate Professor UMETA Yoko Associate Professor Ass		Professor	KOBAYASHI Shimpei	Differential geometry	
Associate Professor KASUYA Naohiko Differential topology, contact structures, complex structures  Associate Professor KAWASAKI Morimichi Symplectic geometry, partial quasi-morphism  Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics  Professor HORA Akihito Functional analysis, probability theory  Professor HONDA Naofumi Algebraic analysis  Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor UMETA Yoko Exact WKB analysis, apomptotic analysis, higher order Painleré equations, Stokes geometry  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor SAKAI Akira Probability theory, functional analysis  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor MASAKI Satoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Complex systems, chaotic dynamical systems	Geometry	Professor	FURUHATA Hitoshi	Differential geometry	
Associate Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics  Professor HORA Akihito Functional analysis, probability theory  Professor HONDA Naofumi Algebraic analysis  Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor UMETA Yoko Exact WKB analysis, anymptotic analysis, higher order Painleré equations, Stokes geometry  Associate Professor KOBAYASHI Masaharu Harmonic Analysis  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations. Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis		Specially Appointed Professor	IWASAKI Katsunori	Complex geometry, dynamical systems, Painlevé systems	
Professor KUBO Hideo Partial Differential Equations associated with Nonlinear Dynamics  Professor HORA Akihito Functional analysis, probability theory  Professor HONDA Naofumi Algebraic analysis  Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor UMETA Yoko Exact WKB analysis, asymptotic analysis, higher order Painlevé equations, Stokes geometry  Associate Professor KOBAYASHI Masaharu Harmonic Analysis  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations. Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	KASUYA Naohiko	Differential topology, contact structures, complex structures	
Professor HORA Akihito Functional analysis, probability theory Professor HONDA Naofumi Algebraic analysis Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics Associate Professor UMETA Yoko Exert WKB analysis, asymptotic analysis, higher order Painlevé equations. Stokes geometry Associate Professor KOBAYASHI Masaharu Harmonic Analysis Associate Professor SUZUKI Yuhei Operator algebras Associate Professor HASEBE Takahiro Probability theory, functional analysis Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	KAWASAKI Morimichi	Symplectic geometry, partial quasi-morphism	
Professor HONDA Naofumi Algebraic analysis  Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor UMETA Yoko Exact WKB analysis, asymptotic analysis, higher order Painlevé equations, Stokes geometry  Associate Professor KOBAYASHI Masaharu Harmonic Analysis  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Complex systems, chaotic dynamical systems		Professor	KUBO Hideo	Partial Differential Equations associated with Nonlinear Dynamics	
Professor MIYAO Tadahiro Mathematical physics, functional analysis, condensed matter physics  Associate Professor UMETA Yoko Exact WKB analysis, asymptotic analysis, higher order Painlevé equationa, Stokes geometry  Associate Professor KOBAYASHI Masaharu Harmonic Analysis  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Professor	HORA Akihito	Functional analysis, probability theory	
Analysis  Associate Professor UMETA Yoko  Exact WKB analysis, asymptotic analysis, higher order Painlevé equations, Stokes geometry  Associate Professor KOBAYASHI Masaharu  Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Professor	HONDA Naofumi	Algebraic analysis	
Associate Professor   KOBAYASHI Masaharu   Harmonic Analysis    Associate Professor   SUZUKI Yuhei   Operator algebras    Associate Professor   HASEBE Takahiro   Probability theory, functional analysis    Associate Professor   HAMAMUKI Nao   Nonlinear partial differential equations, Theory of viscosity solutions    Professor   SAKAI Akira   Probability theory, statistical mechanics, mathematical physics    Professor   NAGAYAMA Masaharu   Reaction-diffusion systems, mathematical modeling, numerical simulation    Professor   NAMIKI Takao   Ergodic theory, dynamical systems, complex systems    Professor   MASAKI Satoshi   Partial differential equations, harmonic analysis, variational analysis    Associate Professor   KURODA Hirotoshi   Partial differential equations, variational analysis    Associate Professor   SATO Yuzuru   Complex systems, chaotic dynamical systems		Professor	MIYAO Tadahiro	Mathematical physics, functional analysis, condensed matter physics	
Associate Professor SUZUKI Yuhei Operator algebras  Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems	Analysis	Associate Professor	UMETA Yoko	${\bf ExactWKBanalysis,asymptoticanalysis,higherorderPainlev\'eequations,Stokesgeometry}$	
Associate Professor HASEBE Takahiro Probability theory, functional analysis  Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	KOBAYASHI Masaharu	Harmonic Analysis	
Associate Professor HAMAMUKI Nao Nonlinear partial differential equations, Theory of viscosity solutions  Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	SUZUKI Yuhei	Operator algebras	
Professor SAKAI Akira Probability theory, statistical mechanics, mathematical physics  Professor NAGAYAMA Masaharu Reaction diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	HASEBE Takahiro	Probability theory, functional analysis	
Professor NAGAYAMA Masaharu Reaction-diffusion systems, mathematical modeling, numerical simulation  Professor NAMIKI Takao Ergodic theory, dynamical systems, complex systems  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Associate Professor	HAMAMUKI Nao	Nonlinear partial differential equations, Theory of viscosity solutions	
Applied Mathmatics  Professor  NAMIKI Takao  Ergodic theory, dynamical systems, complex systems  Professor  MASAKI Satoshi  Partial differential equations, harmonic analysis, variational analysis  Associate Professor  KURODA Hirotoshi  Partial differential equations, variational analysis  Associate Professor  SATO Yuzuru  Complex systems, chaotic dynamical systems		Professor	SAKAI Akira	Probability theory, statistical mechanics, mathematical physics	
Applied Mathmatics  Professor MASAKI Satoshi Partial differential equations, harmonic analysis, variational analysis  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Professor	NAGAYAMA Masaharu	$Reaction \hbox{-} diffusion \ systems, \ mathematical \ modeling, \ numerical \ simulation$	
Applied Mathmatics  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Professor	NAMIKI Takao	Ergodic theory, dynamical systems, complex systems	
Mathmatics  Associate Professor KURODA Hirotoshi Partial differential equations, variational analysis  Associate Professor SATO Yuzuru Complex systems, chaotic dynamical systems		Professor	MASAKI Satoshi	Partial differential equations, harmonic analysis, variational analysis	
		Associate Professor	KURODA Hirotoshi	Partial differential equations, variational analysis	
Associate Professor TASAKI Sohei Mathematical life sciences, Microbiology		Associate Professor	SATO Yuzuru	Complex systems, chaotic dynamical systems	
l		Associate Professor	TASAKI Sohei	Mathematical life sciences, Microbiology	
Associate Professor TABATA Koji Online learning,data science,theory of computation		Associate Professor	TABATA Koji	Online learning,data science,theory of computation	
Associate Professor NAKANO Yushi Dynamical systems, ergodic theory, chaos		Associate Professor	NAKANO Yushi	Dynamical systems, ergodic theory, chaos	

Department of Condensed Matter Physics, Graduate School of Science

Laboratories	Super	visors	Keywords	Remarks
Electronic Properties of Solids	Professor	YOSHIDA Hiroyuki	We develop new materials in strongly correlated electron systems by various chemical methods including high pressure synthesis, and elucidate their properties by both bulk physical properties measurements (electrical resistivity, magnetization, specific heat measurements, and precise measurements in ultra-high magnetic fields, etc) and microscopic measurements (µSR, neutron and synchrotron X-ray scattering, etc).	
o. zonac	Assistant Professor	KON Fusako	Specifically, we develop frustrated magnetic materials, multipole materials, skyrmion materials, novel actinide compounds and also search for quantum many-body states in high magnetic fields, cross-correlational phenomena, and new superconducting states and odd-parity multipoles.	
	Professor	AMITSUKA Hiroshi		
J-Material: Physics of Strongly Correlated	Professor	YANAGISAWA Tatsuya	J-material, superconductivity, Magnetism, Heavy fermion, Quantum phase transition, Magnetoelectric effects, Very low temperatures, High magnetic fields, High pressure, Ultrasonic measurements, MuSR, Neutron scattering,	
Systems Systems	Associate Professor	TAKESADA Masaki	RXS, Ferroelectrics, Multiferroics, Electronic ferroelectricity, Phase transition, Photoinduced cooperative phenomena	
	Assistant Professor	HIDAKA Hiroyuki		
	Professor	KAWAMOTO Atsushi		
	Associate Professor	MATSUNAGA Noriaki	NMR, Strongly-correlated electrom systems, Superconductivity, Magnetism Low-dimensional organic	
Electronic Properties of Low-demensional Material	Lecturer	IHARA Yoshihiko	conductors, Scanning tunneling microscopy (STM), Scanning tunneling spectroscopy (STS), Nonlinear conductivity, Symmetry of Cooper pairs, Spin density	
	Assistant Professor	NOBUKANE Hiroyoshi	waves (SDWs), Chiral superconductivity, Mesoscopic systems, Topological phenomena	
	Assistant Professor	FUKUOKA Syuhei		
Condensed Matter	Associate Professor	MISHINA Tomobumi	We study the interaction of light with matter, mainly by spectroscopic measurements using laser light. Target systems include organic materials, metals, and semiconductors. In the case of molecular luminescence in solution, we deal with energy relaxation of a few milliseconds due to liquid dynamics; in the case of excited-state relaxation in semiconductors, we measure	Will retire in March, 2025.
Dynamics	Assistant Professor	YAMAMOTO Sekika	relaxation in microseconds to nanoseconds; and in the case of phonon spectroscopy in solids, we study relaxation phenomena on time scales of picoseconds or less. We also synthesize nanocrystals of a few nanometers in size by chemical synthesis methods and study various phenomena caused by quantum effects in the electron system confined in very small nanocrystals.	
	Professor	NEMOTO Koji	We theoretically study novel physical phenomena in strongly- correlated electron systems based on quantum mechanics and statistical physics. We aim to systematically understand physical phenomena and explore the possibility of new electronic states	Will retire in March, 2025.
g	Professor	KITA Takafumi	and quantum phenomena. The recent research topics are the following.  (1) Classification of electronic physical properties based on microscopic multipoles  (2) Topological magnetism including magnetic skyrmions	Will retire in March, 2025.
Statistical Physics	Associate Professor	HAYAMI Satoru	(3) Emergent spin-orbit-coupled physics in magnetic materials (4) Cross-correlated phenomena over electric, magnetic, elastic, heat, and light (5) Exploring novel physics by using a machine-learning method	
	Assistant Professor	OKUDA Koji	We also study efficiency of heat engines using nonequilibrium statistical mechanics and complex dynamics in pattern formation and chaos of coupled-oscillator systems, using not only theoretical analysis but also numerical simulation.	

Laboratories	Super	visors	Keywords	Remarks
Mathematical Physics	Professor	YAMAMOTO Shoji	Making full use of various—both analytical and numerical—quantum statistical methods, we explore novel quantum cooperative phenomena in strongly correlated electron systems. A recent keyword is "topology". Interpretation of phenomena must be our ultimate goal, but we often take further interest in the mathematical and methodological ways we can accomplish this. We construct microscopic theories on	
Maniemanicai i nysics	Lecturer	OHARA Jun	a variety of physics such as quantum spin liquid, photoinduced magnetism, nuclear magnetic resonance, inelastic neutron scattering, Raman scattering, optical conductivity, and angle-resolved photoemission spectroscopy. We sometimes enjoy theoretical formulation in itself and sometimes interpret observations in cooperation with experimentalists and chemist.	
Nanostructure Physics (RIES)	Professor	KOBAYASHI Kaya	Superconductors and magnets, novel materials synthesis, layered materials, transition metal dichalcogenides, van der Waals heterostructure, material characterization, thin flake devices, thin film, MBE, TEM	
(RIES)	Associate Professor	KONDO Kenji	Qunatum field theory, Many-body perturbation theory, Spintronics devices, Magnetism, Electronic correlations, Dirac electron, Topological insulator	No acceptance for FY2025
Condensed Matter Theory Field of Advanced Functional Materials and Physics (NIMS).	Visiting Professor	YAMASE Hiroyuki	Quantum many-body theory, Superconductivity, Magnetism, Critical phenomena, Electronic nematic liquids	
Nano-system Photonics Field of Advanced Functional Materials and Physics (NIMS)	Visiting Professor	NAGAO Tadaaki	Surface physics, Nanophotonics, Energy conversion, Nanomaterials	
Solid State of Physics in High Magnetic Fields Field of Advanced Functional Materials and Physics (NIMS)	Visiting Professor	IMANAKA Yasutaka	Magneto-Spectroscopy, High magnetic field, Terahertz wave, Cyclotron resonance, Quantum Hall effect, Dirac Fermion, Topological insulator	
Surface Quantum Phase Materials Field of Advanced Functional Materials and Physics (NIMS)	Visiting Professor	UCHIHASHI Takashi	Surface and interface, Atomic layer, Two-dimensional, Quantum materials, Superconductivity, Topological state, Ultrahigh vacuum, Nanotechnology, Scanning tunneling microscopy, Electron transport	
Muon Spin Resonance Laboratory Field of Spin Resonance Material Science (RIKEN)	Visiting Professor	WATANABE Isao	μSR material science at the RIKEN-RAL Muon Facility in the UK. Experimental and theoretical studies on the magnestism, superconductivity, industiral applications, non-distructive element analysis, muon hyperfine interactions in metals, insuators and organic molecules. Muon site and magnetic spin structural analysis by the density functional theory.	
Electron Spin Resonance Laboratory Field of Spin Resonance Material Science (RIKEN)	Visiting Associate Professor	OSHIMA Yugo	Electron Spin Resonance (ESR) from X-band to millimeter and sub-millimeter waves, High magnetic field, Strongly- correlated materials, Molecular magnets, Molecular conductors, Spin-Liquid system, Nano-carbon materials.	

Department of Cosmosciences, Graduate School of Science

Laboratories	Super	rvisors	Keywords	Remarks
Observational Astronomy	Professor	SORAI Kazuo	Observational astronomy, extragalacitc astronomy, interstellar matter, development of	
	Assistant Professor	SALAK Dragan	observational instruments and system for the Antarctic THz telescope	Institute for the Advancement of Higher Education
	Professor	SUZUKI Hisao		
	Professor	KOBAYASHI Tatsuo		
Theoretical Particle Physics and Cosmology	Associate Professor	SETO Osamu	Particle physics, beyond the standard model, dark matter, dark energy, grand unified theory, superstrings, supersymmetry, early universe	
	Lecturer	SUEHIRO Kazuhiko		
	Assistant Professor	DAS Arindam		Institute for the Advancement of Higher Education
Theoretical Nuclear Physics	Associate Professor	NOMURA Kosuke	Nuclear structure and dynamics, and related quantum many-body theory, exotic nuclear deformations and collective excitations, nucleosynthesis, double beta decay, machine learning	
Theoretical	Professor	OKAMOTO Takashi	Theoretical astronomy, numerical simulations, semi-analytic modelling, first star formation, first galaxy formation, galaxy evolution,	
Astrophysics	Assistant Professor	SUGIMURA Kazuyuki	galaxy clusters, supermassive black holes, interstellar matter, star formation	
	Professor	KURAMOTO Kiyoshi		
	Professor	TAKAHASHI Yukihiro		
	Professor	ISHIWATARI Masaki	Origin and evolution of planets and satellites, material evolution during planetary system	
Planetary and Space Group	Professor	SATO Mitsuteru	formation, structure and dynamics of Earth and planetary atmospheres, comparative planetology, space exploration and ground-	
	Associate Professor	KAMATA Shunichi	based observation, experimental studies, theory and hierarchical numerical simulation models, applications of information technology	
	Specially Appointed Associate Professor	KUBOTA Hisayuki		
	Lecturer	TAKAGI Seiko		

Laboratories	Super	rvisors	Keywords	Remarks
	Professor	WATANABE Naoki		
	Professor	KIMURA Yuki		
Astrophysical	Associate Professor	OBA Yasuhiro	Interstellar molecules, ice dust, amorphous solid water, surface reactions, nanoparticle,	
Chemistry	Associate Professor	YAMAZAKI Tomoya	crystallization, nucleation, electron microscopy, microgravity	
	Assistant Professor	HIDAKA Hiroshi		
	Assistant Professor	TSUGE Masashi		
	Professor	SAZAKI Gen		
Phase Transition Dynamics	Assistant Professor	NAGASHIMA Ken	Phase transition dynamics, crystal growth, ice, snow, interferometry, advanced optical microscopy, atomic force microscopy	
	Assistant Professor	MURATA Ken-ichiro		
Information Media	Professor	FUSE Izumi	Learning science, learning platforms, open	
Science	Assistant Professor	YAMAMOTO Yuichi	education	
	Associate Professor	HIRABAYASHI Yoshiharu		Information Initiative Center
Nuclear Reaction Data Science	Visiting Professor	FUKAHORI Tokio	Nuclear data, nuclear reactions, evaluation	Inter-field Cooperation with the Japan Atomic Energy
	Visiting Professor	IWAMOTO Nobuyuki		Agency (JAEA) in the field of nuclear data.
	Visiting Professor	SATO Takehiko		Inter-field Cooperation
Spacecraft Observation Group	Visiting Professor	FUJIMOTO Ryuichi Fujimo		with Japan Aerospace Exploration Agency (JAXA) in the field of
	Visiting Associate Professor	YAMAMURA Issei		spacecraft observation.

# Department of Natural History Sciences, Graduate School of Science

As of November 1, 2024

Research Fields	Research Groups & Laboratories	Supe	rvisors	Keywords	Remarks
		Professor	INATSU Masaru	Meteorology, dynamics and forecast, cyclones and fronts, theory and numerical modelling, development of numerical model, meso-scale	
	Meteorology	Associate Professor	SATO Yousuke	phenomena, cloud, rain, snow, aerosol, lightning, material transport, and their application.	
ics	Physical Oceanography and Climate	Professor	MINOBE Shoshiro	Physical oceanography, meteorology, air-sea interactions, climate variability & change, oceans' role in climate, multidisciplinary	
Earth and Planetary Dynamics		Associate Professor	SASAKI Yoshinori	challenges, numerical modelling, data analysis	
rth and Plan	Space Geodesy	Professor	FURUYA Masato	Space geodesy, GNSS, GPS, INSAR, GRACE, gravity, Earth rotation, atmospheric sensing,	
Ea			Associate Professor	TAKADA Youichiro	crustal deformation, glaciology, planetary geodesy, ionosphere
	Seismology	Professor	YOSHIZAWA Kazunori	Seismic wave propagation, Earth structure, seismic tomography, waveform analysis, seismic source process, microfracture, heterogeneity and anisotropy	
		Associate Professor	NAOI Makoto		

Research Fields	Research Groups & Laboratories	Supe	rvisors	Keywords	Remarks
		Professor	KURITANI Takeshi		
	Petrology and	Associate Professor	YOSHIMURA Shumpei	Field geology, petrography, igneous petrology, metamorphic petrology, experimental volcanology, geochemistry, volcanoes, ophiolites, plutons, metamorphic belts, crustal	
	Volcanology	Assistant Professor	PYTHON Marie	evolution, mantle melting, magmatic evolution, magma plumbing system, volcanic eruption, hydrothermal circulation, material circulation	
		Assistant Professor	KITANO Ippei		Hokkaido University Museum
Science	Geochemistry	Associate Professor	KAWASAKI Noriyuki	Geochemistry, cosmochemistry, planetary chemistry, galaxies, stars, planetary systems, protoplanetary disks, planets, meteorites, Earth, core, mantle, crust, oceans,	
Earth and Planetary System Science		Assistant Professor	BAJO Ken-ichi	atmosphere, life, magma, geofluids, mass spectrometry, spectroscopy, microscopy, dust formation, crystal growth, high pressure, solar system evolution, planetary exploration	
and Planeta		Professor	NAGAI Takaya		
Earth	Earth Materials Science	Associate Professor	KAWANO Jun	Mineralogy, crystallography, crystal growth, physics and chemistry of minerals	
		Assistant Professor	SHINOZAKI Ayako		
		Professor	YAMADA Toshihiro	Paleontology, Paleobotany, stratigraphy,	
	Paleobiology	Professor	KOBAYASHI Yoshitsugu	vertebrate evolution, dinosaurs, reptiles, birds, phylogenetic relationships, functional morphology, comparative anatomy, embryology, evolution of Mesozoic marine biota, paleobiogeographic responses, global	Hokkaido University Museum
		Associate Professor	IBA Yasuhiro	environmental change, origin of modern marine biota	

Research Fields	Research Groups & Laboratories	Supervisors		Keywords	Remarks
Earth and Planetary System Science		Professor	SAWADA Ken	Paleoenvironmental reconstruction, Organic sedimentology, Molecular paleobiology, Macromolecular biogeochemistry, biomarker	
	Earth Bisophere Geoscience	Lecturer	WATANABE Tsuyoshi	paleoclimatology, Organic Geochemistry, bollar ker baleoclimatology, Organic Geochemistry, baleobiochemistry, biomarker proxies for baleodiversity and paleoenvironments, molecular fossils, plant evolution, baleovegetation reconstruction, High-	
		Assistant Professor	NAKAMURA Hideto	resolution reconstruction of palaeoenvironments, biogeochemical cycles in reef ecosystems on the geological time scale	

Research Fields	Research Groups & Laboratories	Supe	rvisors	Keywords	Remarks
		Professor	KAJIHARA Hiroshi	Biodiversity I: Marine invertebrates, Nemertea, taxonomy, phylogeny, morphology	
		Lecturer	KAKUI Keiichi	Biodiversity I: Marine invertebrates, Crustacea, Tanaidacea, taxonomy, phylogeny, morphology	
		Professor	KOGAME Kazuhiro	Biodiversity, evolution, protists, Apicomplexa, Adv	
		Lecturer	NAKADA Takashi		
Biodiversity	Biodiversity	Assistant Professor	Kevin Wakeman		Institute for the Advancement of Higher Education
В		Specially Appointed Professor	MASUDA Ryuichi		
		Professor	TAKAGI Masaoki	Biodiversity III: Ecology,evolution,island,bird	
		Associate Professor	ABE Tsuyoshi	Biodiversity II: Seaweeds, taxonomy, phylogeny, chemotaxonomy	Hokkaido University Museum
		Associate Professor	KATOH Toru	Biodiversity I: Evolution, phylogeny, populations, insects	

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Research Fields	Research Groups & Laboratories	Supe	rvisors	Keywords	Remarks
	Communication of Science and Technology	Associate Professor	KAWAMOTO Shishin	science and technology studies, communication in science and technology, transdisciplinary, dual-use	Advancemen t of Recurrent Education Division
nication	Philosophy of Science and Technology	Professor	MATSUOU Masahiro	Philosophy of science, ethics of science and technology, philosophy of risk, statistical inference of cause	
Science Communication	Educational Design	Associate Professor	IWAMA Norikazu	Psychological Statistics, Educational Measurement, Test Theory, Educational Technology, Instructional Design, Self- regulated Learning	Institute for the Advancement of Higher Education
	Communication Media	Professor	SHIGETA Katsusuke	Communication Media, Educational Technology, Information and Communication Technology, Learning	Information Initiative Center, Hokkaido University
		Associate Professor	SUGIURA Mayumi	Communication Technology, Learning Effectiveness, e-learning, Hybrid Learning, Educational Practice Research.	Institute for the Advancement of Graduate Education

Research Fields	Research Groups & Laboratories	Supe	rvisors	Keywords	Remarks	
		Professor	TAKAHASHI Hiroaki	Earthquake geophysical observation,		
	Seismological Observation	Associate Professor	KATSUMATA Kei	seismographs, GNSS, gravity, subduction great earthquakes, inland earthquakes, statistical seismology, land and ocean bottom crustal deformation, regional tectonics in northeastern Asia, geothermal exploration,		
		Professor	OHZONO Mako	earthquake disaster mitigation		
S		Specially Appointed Professor	TANIOKA Yuichiro		Scheduled to retire in March 2025	
Volcanolog	Ocean Bottom Seismology and Tsunami Associate	Associate Professor	MURAI Yoshio	Subsurface structure at subduction zones,elastic wave propagation, tectonics of Northern Mid Atlantic Ridge,earthquake source processes, generation and propagation		
Seismology and Volcanology			Associate Professor	NISHIMURA Yuichi	of tsunamis, pre-historical earthquakes and tsunamis, paleo-seismological analysis, international field science, disaster mitigation	Scheduled to retire in March 2025
Seisr		Lecturer	YAMANAKA Yusuke			
	Volcano Physics	Professor	AOYAMA Hiroshi	Volcanology, volcanic seismology, eruption prediction, transport processes, volcano		
	voicano i nysics	Assistant Professor	TANAKA Ryo	hydrology, crustal deformation, space geodesy, geo-electromagnetism, spectroscopy of volcanic plume, volcano monitoring system		
	Subsurface Structure	Professor	HASHIMOTO Takeshi	Subsurface exploration in seismogenic zones and active volcanoes, tectono-electromagnetism, magnetotellurics, geomagnetic field observation, conductivity anomaly		