



Kyoto University
Research Institute for Mathematical Sciences
2024-2025

Kyoto University
Research Institute for Mathematical Sciences

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Message from the Director



RIMS Director
Koji Ohkitani

The Research Institute for Mathematical Sciences (RIMS) is an institute that conducts comprehensive research in mathematics and the mathematical sciences. Since its establishment in 1963, RIMS has been recognized as one of the world's leading research institutes in these fields. Mathematics is, of course, an important basic discipline located at the deepest part of human knowledge and forms the basis of science. It is a mystery of mathematics, and at the same time fundamentally underpins its essential nature, that the structure of the real world can be captured so profoundly and beautifully by pure mathematical thought.

In modern times, mathematics plays a central role in supporting science and technology. Especially since the beginning of the 21st century, vast changes to society and industry have led to mathematics gaining significant importance in creating new ideas, giving these foundations, and leading them to realization.¹ Through such integration with applications, the cultivation of a deep and broad generality of mathematics has a strong power to change our view of the world. On the other hand, applications of mathematics have played a role in evoking new possibilities inherent in mathematics and motivating further progress in mathematics from diverse viewpoints. The pursuit of mathematics based purely on mathematical interests and its applications to science can thus be compared to the roots and branches of a tree. One cannot be established without the other, and the mutual support of the two leads to the global development of mathematics.

Since its inception, RIMS has had the mission to comprehensively promote fundamental research in mathematics and research on the applications of mathematics to science. To this end, there are three pillars to the activities of RIMS. The first is research by faculty members. Over the half-century of RIMS

existence, this has led to numerous international awards. Currently, RIMS has around 39 faculty members and is organized into three major divisions (Fundamental Mathematics, Infinite Analysis, and Applied Mathematics), as well as a Computer Laboratory, making it a flexible organization. In addition, RIMS has established the "Center for Research in Next-Generation Geometry"² to strengthen research in this area, the "Center for Research Interaction in Mathematical Sciences" to promote international research collaboration, and the "Liaison Center in Mathematics" to promote collaborative research with researchers from a wide range of scientific fields. It has always been a fundamental policy of RIMS to maintain an excellent research environment where members can concentrate on research, with space being given so that researchers may pursue their mathematical endeavors above all else, and the research time of younger members in particular being highly valued.

The second pillar is the implementation of joint usage projects aimed at contributing to the research of a wide range of mathematicians and mathematical scientists. Since its foundation, RIMS has served as a national joint research institute, and since 2010 it has been certified as a Joint Usage/Research Center (JU/RC). At present, RIMS hosts around 80 RIMS Workshops annually, with a combined total of more than 4000 participants (of which about 300 are from abroad). RIMS Kokyuroku, a collection of reports on these projects, has now exceeded 2000 volumes, and the number of accesses of these exceeds 1.04 million annually (about 30% being from abroad). Since November 2018, RIMS has been certified as an "International Joint Usage/Research Center", which has enabled it to expand its joint usage projects and make international open calls. In this direction, RIMS is promoting the internationalization of its core projects, setting up

international collaborative research support mechanisms, and starting large-scale international collaborative "RIMS Research Projects". In particular, for RIMS Research Projects, we select specific research themes, offer positions of project fellows, and pursue research progress through collaborations with leading international researchers, who are invited to make mid- to long-term stays at RIMS. Moreover, by establishing new projects that support individual-scale international collaborations and participation by female researchers, recruiting projects all year round, and establishing a framework to support young and/or female researchers, RIMS will continue to play a role in supporting research in mathematics and the mathematical sciences both within Japan and beyond.

The third pillar is the education of graduate students³. So as to foster young researchers, RIMS has had a graduate school since 1975. Currently, it accepts 10 Master's students and 10 PhD students every year. Under the supervision of outstanding faculty members, students can learn contemporary mathematics in an environment where leading researchers from all over the world visit and collaborate on a daily basis. In this way, RIMS has produced many excellent young researchers.

In the activities of RIMS, the three pillars described above are not separate, rather they are a trinity that strengthens each other, which is extremely important for the development of the institute. From a practical perspective, one of the current challenges of RIMS is to secure building space that fits the variety of its activities in a cohesive manner, and efforts to realize this will continue in the future. The role of the institute is to provide a high-level research environment⁴ where researchers can discuss with each other actively and think deeply and serenely about

mathematics. Through its activities, RIMS is making efforts to contribute to further developments in mathematics and the mathematical sciences in the 21st century.

Footnotes

1. In the 5th Science and Technology Basic Plan (FY2016-2020), mathematical science is positioned as a "transverse science and technology that supports basic technology".
2. The "Center for Research in Next-Generation Geometry" was succeeded by the "International Research Center for Next-Generation Geometry" in May 2022, with augmented missions of international dissemination and fostering human resources.
3. For graduate education, RIMS is conducting the SGU (Super Global University) project in collaboration with the Department of Mathematics, Graduate School of Science.
4. A Code of Conduct was laid out by RIMS in 2021 for developing a research environment with diverse human resources.



Introducing RIMS (Video)

Code of Conduct

The Research Institute for Mathematical Sciences (RIMS) is a place for conducting cutting-edge research in mathematical science, and for promoting it in Japan and over the world through education, research presentations, discussions, and the exchanging of research information. In undertaking such activities, members of and visitors to RIMS are required to embrace diversity, eliminate discrimination and harassment, and conduct themselves in a professional manner. All members of and visitors to RIMS must treat others fairly and avoid discriminatory behavior based on individual attributes such as race, nationality, gender, age, religion, health status and disability, sexual orientation, gender identity, marital status, family environment and economic situation.

Harassment is an act that undermines the dignity of an individual and will not be tolerated in any circumstances. Members and visitors must not be perpetrators or bystanders of harassment. They will respect each other as equal others so as to create a collegial, inclusive, and professional environment at RIMS.

Please refer to Harassment Policy at Kyoto University.

<https://www.kyoto-u.ac.jp/en/about/human-rights/harassment-policy-at-kyoto-university>

■ Harassment Policy at Kyoto University (booklet) *Only in Japanese

<https://www.kyoto-u.ac.jp/sites/default/files/inline-files/2408-booklet-d92a0d0c6b529d47f357362b549f6e75.pdf>

■ Inquiry Counter *Only in Japanese

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■ Regulations on the Prevention of Harassment at Kyoto University *Only in Japanese

https://www.kyoto-u.ac.jp/uni_int/kitei/reiki_honbun/w002RG00000993.html

■ Disciplinary Processes in Each Department Following the Introduction of the Academic Field and Academic Division System *Only in Japanese

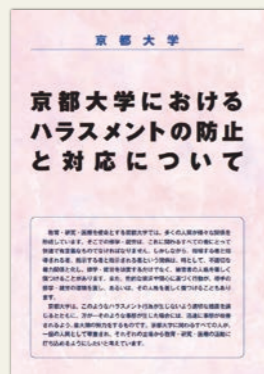
https://www.kyoto-u.ac.jp/sites/default/files/inline-files/harasschokai_nagare202010-748a294a7acf0c98fedd437a9387d494.pdf

■ Examples of Harassment Related to Pregnancy, Childbirth, and Childcare Leave *Only in Japanese

https://www.kyoto-u.ac.jp/sites/default/files/embed/jaaboutfoundationhuman_rightsharassmentdocuments2016gendourei.pdf

■ Harassment-Related Regulations, etc. *Only in Japanese

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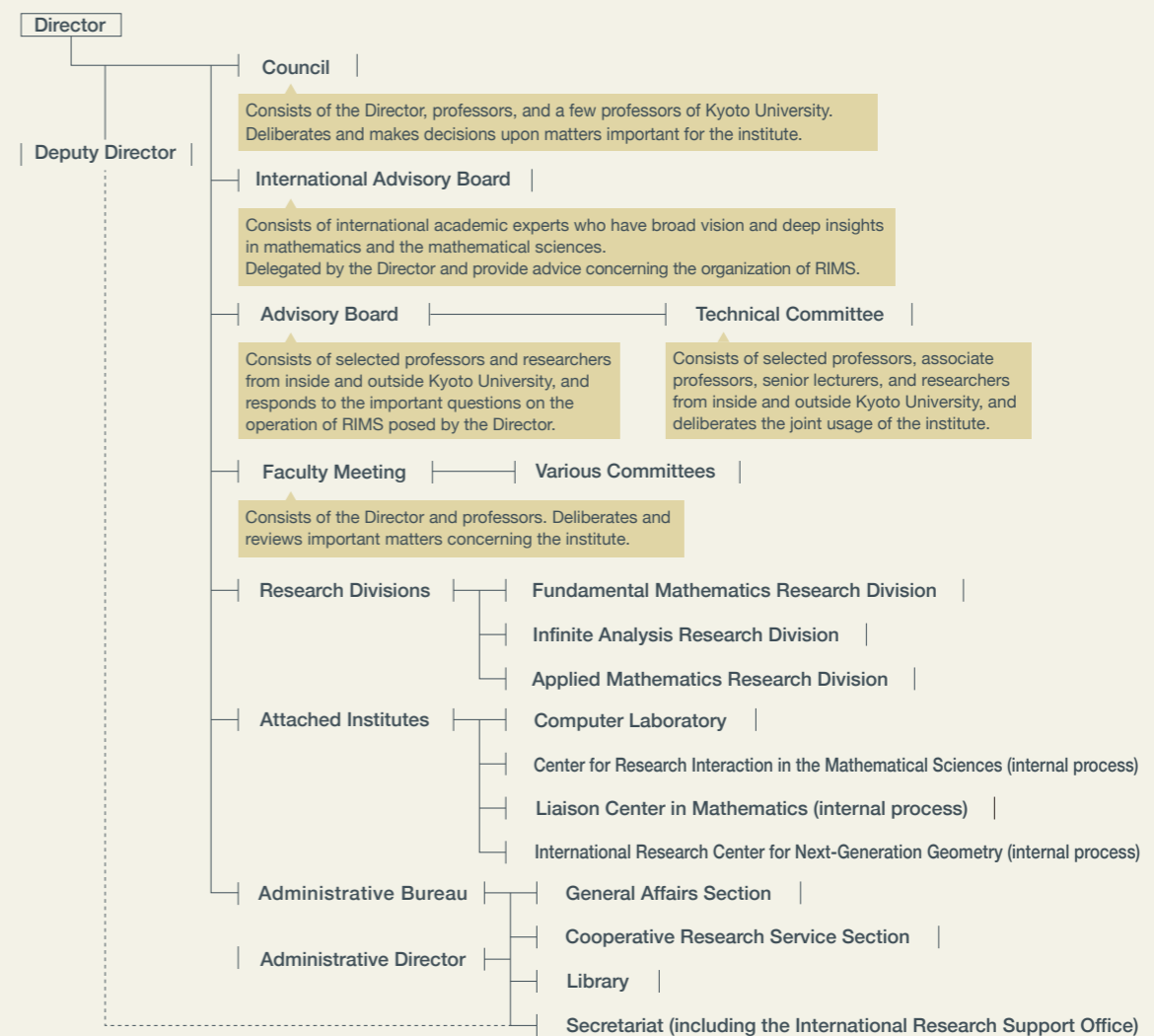


Harassment Policy at Kyoto University



Educational Poster

Organization



Category	Professor	Associate Professor	Senior Lecturer	Assistant Professor	Sub-Total	Program-Specific Researcher	Administrative Staff	Technical Staff	Total
Fundamental Mathematics Research Division	4	2	1	3	10				10
Infinite Analysis Research Division	5	5		9 (5)	19 (5)				19 (5)
Applied Mathematics Research Division	4	5	2	5 (2)	16 (2)				16 (2)
Computer Laboratory					1			2	3
Administrative Bureau							12		12
Others						4			4
Total	13	13	3	17 (7)	46 (7)	4	12	2	64 (7)

The figures in () are the numbers of program-specific assistant professors that are included in the total.

As of April 1, 2024

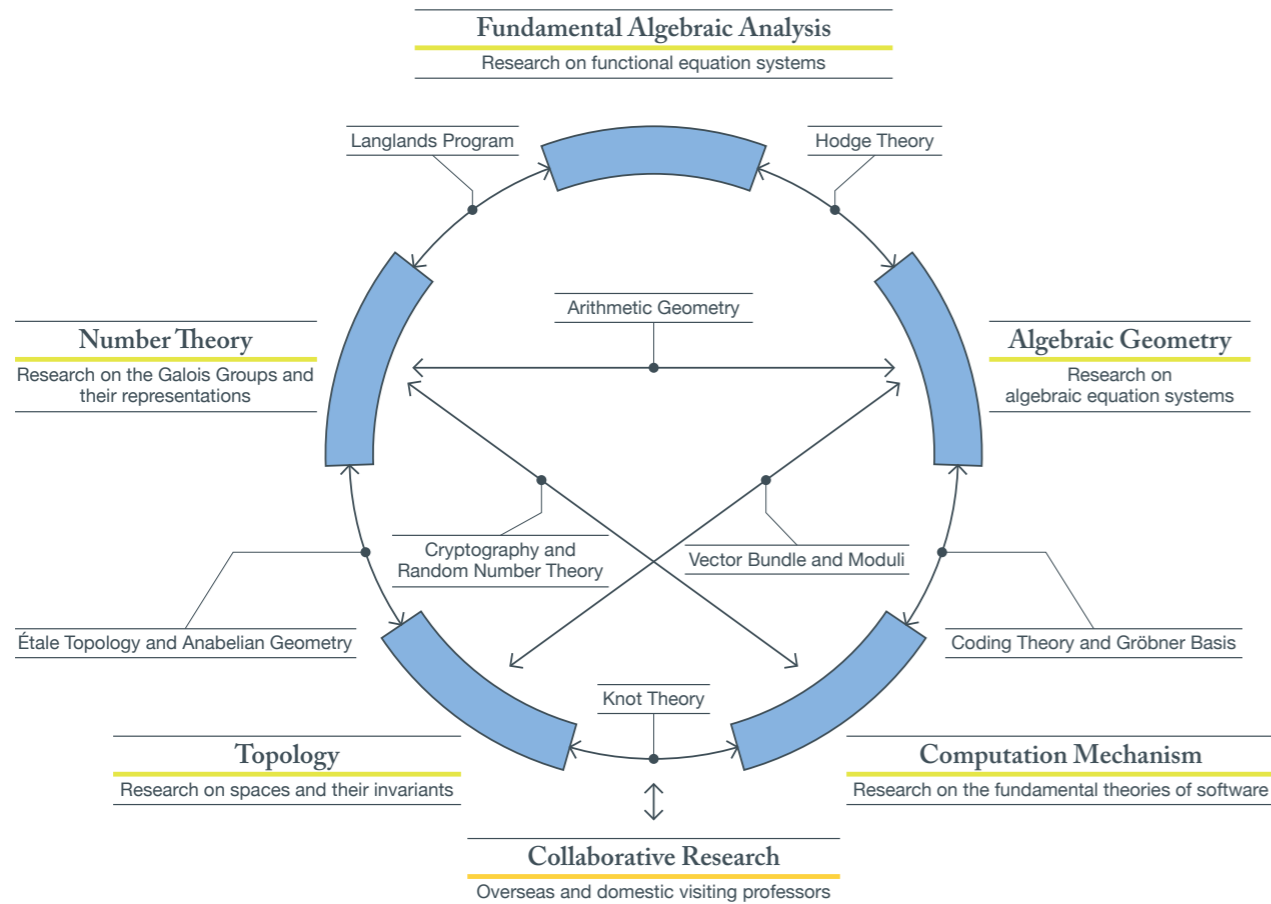
Fundamental Mathematics Research Division

Number theory, algebraic geometry, topology, algebraic analysis, computation mechanism theory, etc.

This division investigates the fundamentals of mathematics, including the systems of numbers, structures of spaces and functions, and laws of computation and reasoning, with the intention of promoting the development of mathematics and its applications in various ways and providing them with solid research foundations.

Researchers

Professor	OHTSUKI, Tomotada (Topology)	Associate Professor	IRIE, Kei (Differential geometry and Topology)
Professor	ONO, Kaoru (Geometry/topology, and differential geometry)	Senior Lecturer	YAMASHITA, Go (Arithmetic geometry)
Professor	MOCHIZUKI, Takuro (Differential geometry and algebraic geometry)	Assistant Professor	ISHIKAWA, Katsumi (Topology)
Professor	NAKANISHI, Kenji (Partial differential equations, functional analysis and harmonic analysis)	Assistant Professor	ISHIKAWA, Suguru (Differential geometry)
Associate Professor	NAKAYAMA, Noboru (Algebraic geometry)	Assistant Professor	TSUJIMURA, Shota (Arithmetic geometry)



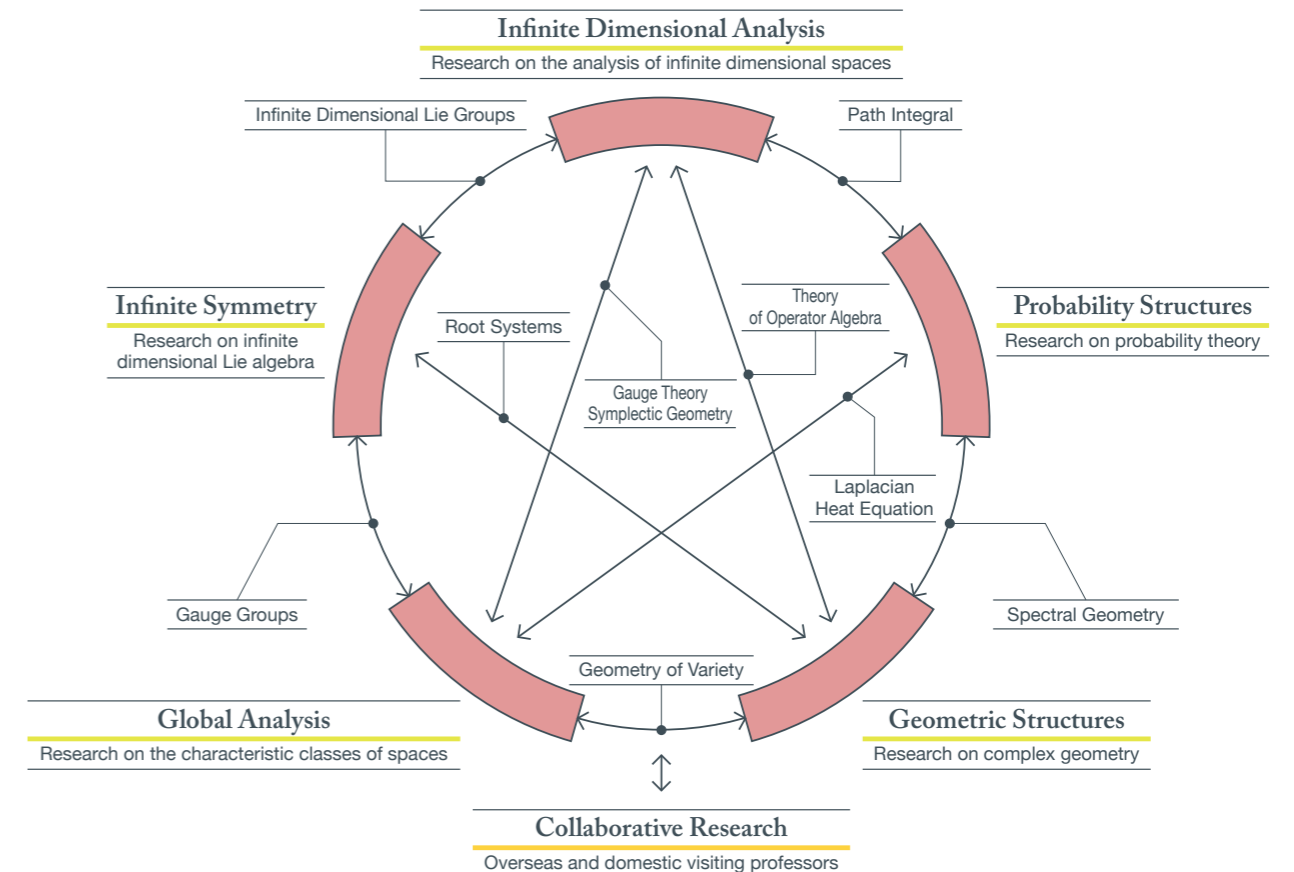
Infinite Analysis Research Division

Infinite dimensional analysis, infinite symmetry, global analysis, geometric structure, probability theory, etc.

With the objective of analyzing systems with an infinite degree of freedom, which is an important research issue within mathematical science, this division pursues developments in quantum physics and statistical physics, and at the same time provides them with systematic and accurate mathematical foundations.

Researchers

Professor	TAMAGAWA, Akio (Number theory and arithmetic geometry)	Associate Professor	KAJINO, Naotaka (Probability theory)
Professor	MOCHIZUKI, Shinichi (Arithmetic geometry and anabelian geometry)	Assistant Professor	HELMKE, Stefan (Algebraic geometry)
Professor	ARAKAWA, Tomoyuki (Representation theory and vertex operator algebras)	Assistant Professor	OOURA, Takuya (Numerical analysis)
Professor	NAMIKAWA, Yoshinori (Algebraic geometry)	Assistant Professor	KOSHIKAWA, Teruhisa (Number theory and arithmetic geometry)
Professor	OGATA, Yoshiko (Mathematical physics)	Assistant Professor	KINJO, Tasuki (Algebraic geometry)
Associate Professor	KAWAI, Toshiya (Quantum field theory, string theory, and mathematical physics)	Program-Specific Assistant Professor	YANG, Yu (Arithmetic geometry)
Associate Professor	TAKEHIRO, Shin-ichi (Geophysical fluid dynamics)	Program-Specific Assistant Professor	MINAMIDE, Arata (Arithmetic geometry)
Associate Professor	HOSHI, Yuichiro (Arithmetic geometry)	Program-Specific Assistant Professor	SAWADA, Koichiro (Arithmetic geometry)
Associate Professor	CROYDON, David (Probability theory)		

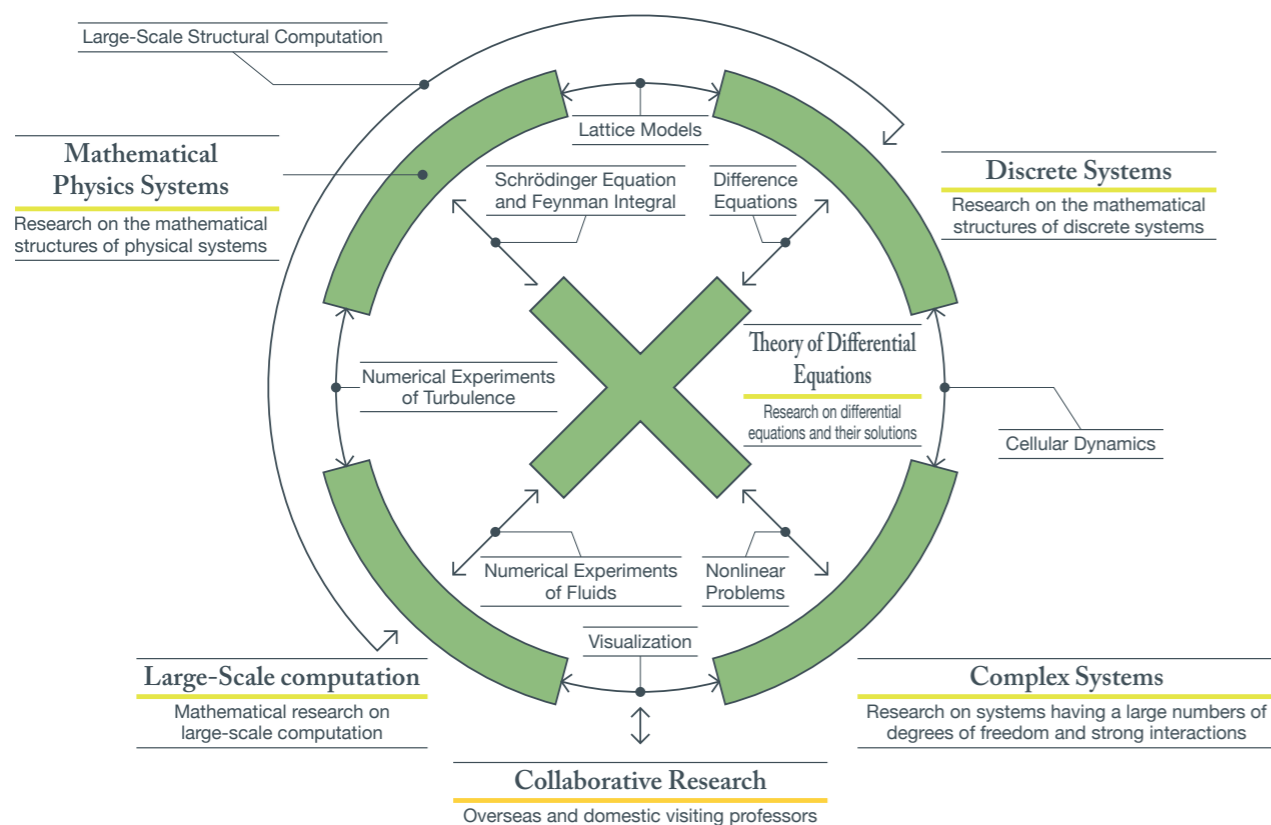


Theory of differential equations, mathematical physics, discrete systems, large-scale calculation, complex systems, etc.

Through interaction with natural science, engineering, social science, and other scientific fields involving mathematics, this division aims to return the results of research back to these fields for their development by investigating the mathematical issues found within them.

Researchers

Professor	HASEGAWA, Masahito (Theoretical computer science and software science)	Associate Professor	ISONO, Yusuke (Theory of operator algebras and ergodic theory)
Professor	OZAWA, Narutaka (Theory of operator algebras and theory of discrete groups)	Senior Lecturer	KISHIMOTO, Nobu (Nonlinear partial differential equations)
Professor	MAKINO, Kazuhisa (Discrete mathematics, optimization, and theory of algorithms)	Senior Lecturer	UEDA, Fukuhiko (Arithmetic geometry and Galois representations)
Professor	OHKITANI, Koji (Fluid mechanics)	Assistant Professor	HIKITA, Tatsuyuki (Geometric representation theory)
Associate Professor	KAWAKITA, Masayuki (Algebraic geometry)	Assistant Professor	FUJITA, Ryo (Representation theory)
Associate Professor	KOBAYASHI, Yusuke (Discrete mathematics, optimization, and theory of algorithms)	Program-Specific Assistant Professor	HIRUTA, Yoshiki (Fluid mechanics)
Associate Professor	ISHIMOTO, Kenta (Fluid mechanics)	Program-Specific Assistant Professor	YASUDA, Kento (Fluid mechanics)
Associate Professor	KAWAMURA, Akitoshi (Theory of computation)		



This laboratory conducts research and development of advanced software technology based on theoretical results.

Researchers

Director (Joint appointment)	HASEGAWA, Masahito (Theoretical computer science and software science)
Associate Professor	TERUI, Kazushige (Mathematical logic and theoretical computer science)

The computer system of the institute, used not only by the members of the institute but also by many visitors and collaborators, is administered and maintained by dedicated technical staff members, and is quite stable and reliable. The high-speed computer for scientific calculation installed at the institute is a parallel computer with 18 nodes and 216 cores. It is used to solve problems in applied mathematics, including fluid mechanics, and has been producing new results one after another. (Figure 1 shows a simulation of two-dimensional turbulence.) High-performance workstations are also used to conduct basic research in computer science, which has resulted in new theories on computation and leading-edge software based on those theories. (Figure 2 illustrates the implementation of a program using the geometry of interaction.)

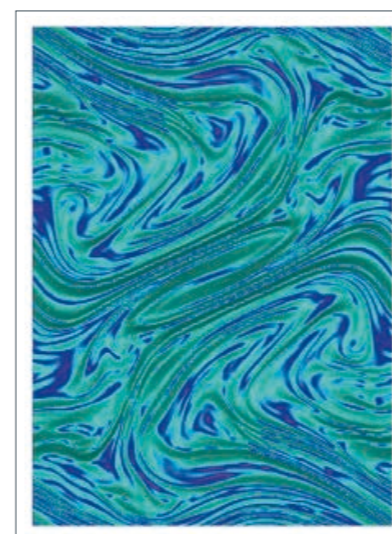


Figure 1

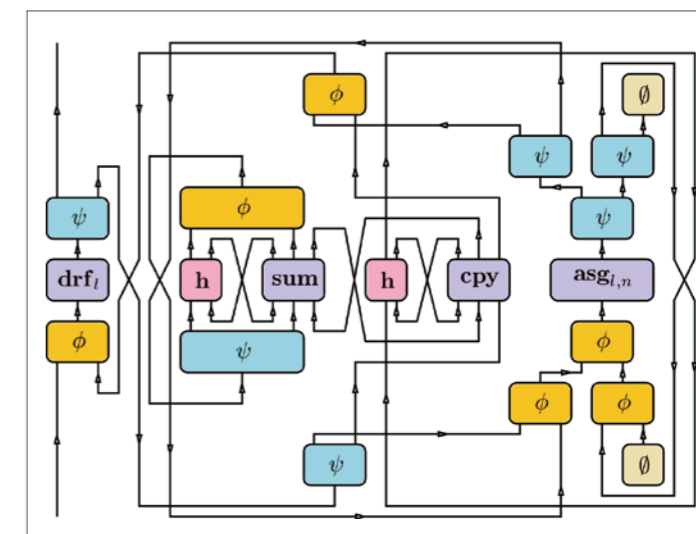


Figure 2

Center for Research Interaction in the Mathematical Sciences

For the purpose of promoting research exchange between excellent researchers from inside and outside Japan by providing them with an environment for collaborative research, this center was established in April 2012, based on the former Center for Research in the Frontiers of Mathematical Science. The project faculty members, either paid or unpaid, conduct research in cooperation with members of RIMS during a term of 2/3 months to 5 years in a research environment similar to those of the members of RIMS.

Researchers

Project Professor	MUKAI, Shigeru	Professor (joint appointment)	OZAWA, Narutaka
Project Professor	YAMADA, Michio	Professor (joint appointment)	NAMIKAWA, Yoshinori
Project Professor	SAITO, Morihiko	Professor (joint appointment)	MOCHIZUKI, Takuro
Project Associate Professor	KAWANOUE, Hiraku	Associate Professor (joint appointment)	TAKEHIRO, Shin-ichi
Project Associate Professor	YAMASHITA, Mayuko		

Liaison Center in Mathematics

For the purpose of conducting collaborative research with researchers from other academic fields and with companies, this center was founded in May 2013. Its mission is to promote the application of mathematics.

Researchers

Director (joint appointment)	OHKITANI, Koji	Professor (joint appointment)	OHTSUKI, Tomotada
Project Professor	KUMAGAI, Takashi	Professor (joint appointment)	MAKINO, Kazuhisa
Project Professor	KOKUBU, Hiroshi	Associate Professor (joint appointment)	KAJINO, Naotaka
Project Professor	SAKAJO, Takashi	Associate Professor (joint appointment)	KOBAYASHI, Yusuke
Project Professor	HIRAOKA, Yasuaki		
Project Professor	MATSUDA, Fumihiko		
Project Professor	Halldórsson, Magnús Már		
Project Lecturer	IDE, Yoko		

International Research Center for Next-Generation Geometry

The International Center for Next-Generation Geometry was founded in April 2022 for the purpose of promoting a wide range of next-generation geometry research, disseminating information on research results to the world widely to raise the international recognition of new mathematics, and developing diverse human resources, including young researchers from inside and outside Japan.

Researchers

Director (joint appointment)	MOCHIZUKI, Shinichi	(Arithmetic geometry and anabelian geometry)
Professor (joint appointment)	TAMAGAWA, Akio	(Number theory and arithmetic geometry)
Project Professor	KASHIWARA, Masaki	(Algebraic analysis)
Project Professor	MORI, Shigefumi	(Algebraic geometry)
Project Professor	NAKAJIMA, Hiraku	(Geometry and representation theory)
Project Assistant Professor	YANG, Yu	(Arithmetic geometry)
Project Assistant Professor	MINAMIDE, Arata	(Arithmetic geometry)
Project Assistant Professor	SAWADA, Koichiro	(Arithmetic geometry)
Project Assistant Professor	KONTREC, Ana	(Representation theory)
Project Assistant Professor	POROWSKI, Wojciech	(Anabelian geometry)
Project Researcher	COLLAS, Benjamin	(Arithmetic Homotopy Geometry)
Faculty (joint appointment)	Professor 13, Associate Professor 1, Senior Lecturer 1, Assistant Professor 1	

Honors and Awards

Fields Medal	HIRONAKA, Heisuke (1970*)	MORI, Shigefumi (1990)	
Carl Friedrich Gauss Prize	ITÔ, Kiyoshi (2006)		
Chern Medal	KASHIWARA, Masaki (2018)		
The Order of the Sacred Treasure, Gold and Silver Star	KASHIWARA, Masaki (2020)		
Order of Culture	HIRONAKA, Heisuke (1975)	ITÔ, Kiyoshi (2008)	MORI, Shigefumi (2021)
Person of Cultural Merit	HIRONAKA, Heisuke (1975)	SATO, Mikio (1984)	MORI, Shigefumi (1990)
	ITÔ, Kiyoshi (2003)		
Imperial Prize of the Japan Academy	ITÔ, Kiyoshi (1978)		
	HIRONAKA, Heisuke (1970*)	SATO, Mikio (1976)	KASHIWARA, Masaki (1988)
Japan Academy Prize	MORI, Shigefumi (1990)	IHARA, Yasutaka (1998)	MOCHIZUKI, Takuro (2011)
	NAKAJIMA, Hiraku (2014)		
Japan Academy Medal	MOCHIZUKI, Shinichi (2004)	MOCHIZUKI, Takuro (2009)	IRIE, Kei (2023)
	MOCHIZUKI, Shinichi (2004)	NAKAJIMA, Hiraku (2005*)	KOBAYASHI, Toshiyuki (2006)
JSPS Prize	OHTSUKI, Tomotada (2007)	MOCHIZUKI, Takuro (2009)	OZAWA, Narutaka (2009*)
	KUMAGAI, Takashi (2011)	NAKANISHI, Kenji (2012*)	IRIE, Kei (2023)
	IHARA, Yasutaka (1973*)	KAWAI, Takahiro (1977)	KASHIWARA, Masaki (1981)
	MORI, Shigefumi (1983*, 1988*)	MIWA, Tetsuji (1987)	JIMBO, Michio (1987)
	SAITO, Morihiko (1991)	KUSUOKA, Shigeo (1993*)	MUKAI, Shigeru (1995*)
MSJ Iyanaga Prize, MSJ Spring Prize, MSJ Autumn Prize	MOCHIZUKI, Shinichi (1997)	TAMAGAWA, Akio (1997)	FURUTA, Mikio (1998)
	NAKAJIMA, Hiraku (2000*)	OHTSUKI, Tomotada (2003)	ARIKI, Susumu (2003)
	KUMAGAI, Takashi (2004)	ONO, Kaoru (2005*)	MOCHIZUKI, Takuro (2006*)
	NAKANISHI, Kenji (2007*)	OZAWA, Narutaka (2009*)	ARAKAWA, Tomoyuki (2017)
	OGATA, Yoshiko (2022*)	IRIE, Kei (2023)	
Wolf Prize	ITÔ, Kiyoshi (1997)	SATO, Mikio (2003)	
Asahi Prize	ITÔ, Kiyoshi (1977)	KASHIWARA, Masaki (1987)	KAWAI, Takahiro (1987)
	ARAKI, Huzihiro (1996)	MIWA, Tetsuji (1999)	NAKAJIMA, Hiraku (2016)
	MOCHIZUKI, Takuro (2021)		
Kyoto Prize	ITÔ, Kiyoshi (1998)	KASHIWARA, Masaki (2018)	
	IWATA, Satoru (2007)	NAKANISHI, Kenji (2007*)	HASEGAWA, Masahito (2008)
The MEXT Young Scientists' Award	ARAKAWA, Tomoyuki (2008*)	OZAWA, Narutaka (2008*)	MAKINO, Kazuhisa (2008*)
	KAWAKITA, Masayuki (2009)	FUKUSHIMA, Ryoki (2016)	KAWAMURA, Akitoshi (2019*)
	KOBAYASHI, Yusuke (2020)	ISHIMOTO, Kenta (2021)	IRIE, Kei (2022)
MEXT Awards for Science and Technology	ARAKAWA, Tomoyuki (2019)	OZAWA, Narutaka (2021)	MAKINO, Kazuhisa (2022)
	OHTSUKI, Tomotada (2023)	OGATA, Yoshiko (2024)	
Saruhashi Prize	OGATA, Yoshiko (2024)		
Marie Skłodowska Curie Award	YAMASHITA, Mayuko (2022)		
Maryam Mirzakhani New Frontiers Prize	YAMASHITA, Mayuko (2023*)		
Breakthrough Prize in Mathematics	MOCHIZUKI, Takuro (2021)		
Other prizes	Frank Nelson Cole Prize in Algebra*, Inoue Prize for Science, Inoue Research Award for Young Scientists, JSIAM Best Paper Award, Osaka Science Prize, IPSJ Yamashita SIG Research Award, Kyoto Prefecture Culture Prize for Outstanding Contribution, Nishina Memorial Prize, Chunichi Cultural Award*, Japan IBM Science Prize, ORSJ Research Award, ORSJ Case Study Award, Fulkerson Prize, Fujiwara Award, JSSST Takahashi Award, Poincare Prize, Fluids Science Research Award, The Rolf Schock Prize, Humboldt Research Award, Yukawa-Tomonaga Memorial Prize, MSJ Analysis Prize*, MSJ Geometry Prize, MSJ Algebra Prize, MSJ Takebe Katahiro Prize, MSJ Kodaira Kunihiko Prize, IUT Innovator Prize, etc.		

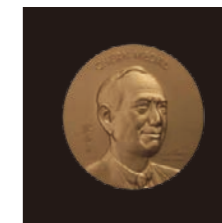
This is a list of awards received by current staff members and professors emeriti (including awards received at other institutions), as well as awards received by former staff members at RIMS (including awards received shortly after transfer).



Fields Medal



Carl Friedrich Gauss Medal

Chern Medal
The photo of the medal is copyrighted by the IMU.

International Joint Usage/Research Center

International Center for Collaborative Study in the Mathematical Sciences

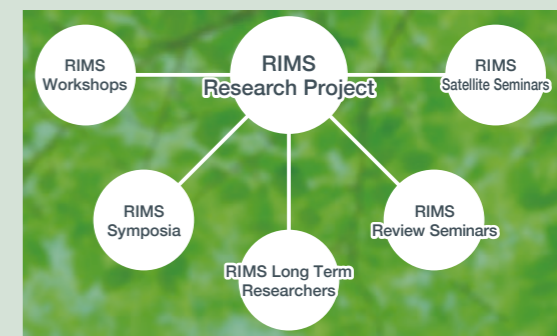
Since its establishment, RIMS has served the purpose of accelerating research in the mathematical sciences. In 2010, RIMS was certified as a Joint Usage/Research Center by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), contributing to research progress by providing researchers in the mathematical sciences with various opportunities for joint research. In November 2018, RIMS was certified as an International Joint Usage/Research Center by MEXT, bolstering its ability to function as an international hub for other research institutes, both inside and outside Japan, by leading international joint research activities that strengthen the research abilities of domestic researchers. RIMS implements five types of joint research activities as an International Joint Usage/Research Center (RIMS Workshops (Type A, B, C), RIMS Symposia, RIMS Satellite Seminars, RIMS Review Seminars, and RIMS Long-Term Researchers), as well as the RIMS Research Projects that are provided in combination with any of the above-mentioned programs. As part of the RIMS Research Projects program, leading researchers from abroad are invited to stay at RIMS to conduct research activities for the medium to long term. These programs aim to promote international collaborative research activities and the development of young researchers. RIMS publicly solicits proposals for joint research activities from inside and outside Japan once a year or throughout the year, depending on the type of program. The RIMS Technical Committee and Advisory Board examine and approve the proposed joint research activities. RIMS may designate some urgent and important projects as special projects to expedite their efficient implementation.



Outline of Joint Research Activities

RIMS Research Projects

RIMS Research Projects are international joint research programs implemented in combination with any of the various types of joint research activities described below. Leading researchers in their respective fields are invited to stay at RIMS for the medium to long term, working on specific research subjects for several months to one year. RIMS chooses and implements more than one project under this scheme each academic year. A call for proposals is published around April each year for projects to be implemented two years later. Each applicant should organize an organizing committee comprising several members to apply. The aim of projects implemented under the RIMS Research Project scheme is to develop researchers who will lead future research projects in mathematics and the mathematical sciences. Applicants may recommend young researchers to participate, in cooperation with leading researchers, in planning and implementing international research projects as "RIMS Project Fellows."



Several Types of Joint Research Activities

RIMS Workshops (Type A, B, C)

Open or closed formats

- A: A group consisting of at least two researchers. The researchers conduct joint research at RIMS for a few days to two weeks. RIMS starts accepting applications around September each academic year.
- B: A group comprising a few researchers, including at least one international researcher and one domestic researcher, conducts joint research at RIMS for a few days to about one week. RIMS accepts proposals throughout the year.
- C: A group comprising a few international researchers conducts joint research at RIMS for a few days to about one week. RIMS starts accepting applications around April each academic year.



RIMS Symposia

Open formats

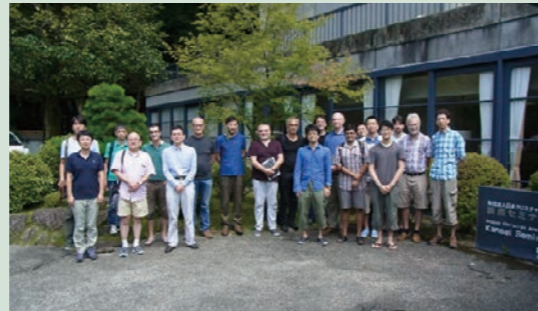
These are open symposia-style joint research projects. Organizations/institutions in Japan are notified of this joint research program. RIMS starts accepting applications around September each academic year.



RIMS Satellite Seminars

Closed formats

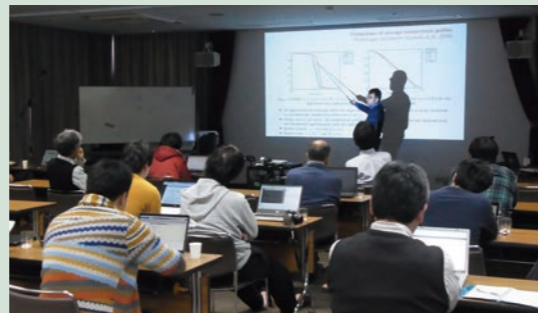
These are closed seminars in which researchers invited from both within and outside Japan stay at a venue outside RIMS and discuss research subjects in mathematical sciences. The purpose of these seminars is to promote rapid progress in the target research areas and help foster future leaders in those areas. RIMS starts accepting applications around April each academic year.



RIMS Review Seminars

Open or closed formats

These are tutorial seminars for researchers. Comprehensive lectures on respective fields are given by one or more tutors to share new trends and problems among related researchers. RIMS starts accepting applications around April each academic year.



RIMS Long-Term Researchers

These researchers conduct research as joint usage researchers for two weeks or longer at RIMS. One of the essential purposes is that RIMS Long-Term Researchers make exchanges with local researchers around RIMS. RIMS accepts domestic applications only, around September each academic year.



How to Apply

Application guides and application forms for these programs are available for download on the following page. All applications are accepted through electronic submission.

-Call for Proposals

https://www.kurims.kyoto-u.ac.jp/kyoten/en/call_for_proposals-1.html

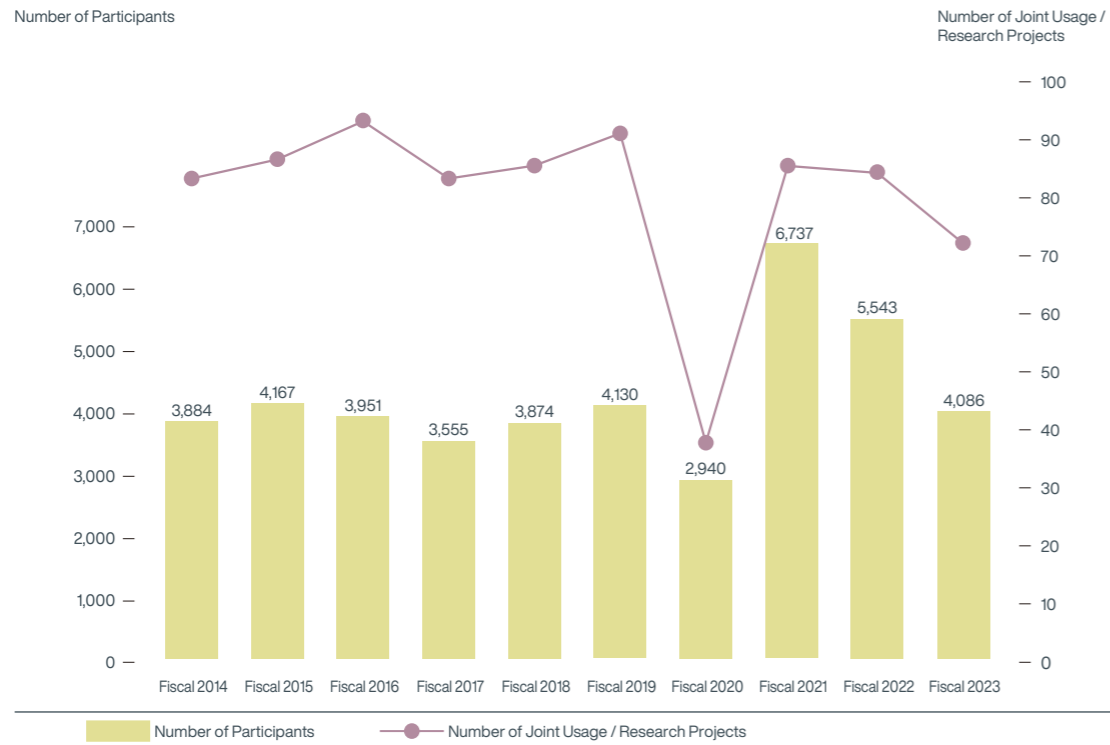


List of RIMS Research Projects (since 1999)

Academic year	Title
1999	"Geometry Related to String Theory"
2000	"Reaction-Diffusion Systems: Theories and Applications"
2001	"Low-Dimensional Topology in the Twenty-First Century"
2002	"Stochastic Analysis and Related Topics"
2003	"Complex Dynamics"
2004	"Method of Algebraic Analysis in Integrable Systems"
2005	"Mathematics of the Navier-Stokes Equations and its Applications"
2006	"Arithmetic Algebraic Geometry" "Theoretical Effectivity and Practical Effectivity of Gröbner Bases"
2007	"Mirror Symmetry and Topological Field Theory"
2008	"Discrete Structures and Algorithms" "On the Resolution of Singularities"
2009	"Mathematical Finance" "Qualitative Study on Nonlinear Partial Differential Equations of Dispersive Type"
2010	"Functions in Number Theory and their Probabilistic Aspects" "Perspectives in Deformation Quantization and Noncommutative Geometry"
2011	"Operator Algebras and their Applications" "Minimal Models and Extremal Rays"
2012	"Discrete Geometric Analysis" "Emerging Applications of Highly Accurate Method of Numerical Computation"
2013	"Moduli Theory" "Fluid Dynamics of Large-Scale Flows" "Dynamical Systems: New Directions in Theory and Applications"
2014	"Toward a New Fusion Research of Mathematics and Materials Science" "Geometric Representation Theory"
2015	"Stochastic Analysis" "New Frontiers in Theoretical Computer Science"
2016	"Fluid Dynamics of Near-Wall Turbulence" "The Prospects for Gröbner Bases" "Differential Geometry and Geometric Analysis"
2017	"Mathematical Analysis of Quantum Mechanics and Related Topics"
2018	"Vertex Operator Algebras and Symmetries"
2019	"Cluster Algebras" "Discrete Optimization and Related Topics"
2020	"Expanding Horizons of Inter-universal Teichmüller Theory" (postponed to 2021) "Differential Geometry and Integrable Systems —Mathematics of Symmetry, Stability and Moduli—" (postponed 2021)
2021	"Mathematical Biofluid Mechanics" "Theory of Operator Algebras and Its Applications" "Expanding Horizons of Inter-universal Teichmüller Theory" "Differential Geometry and Integrable Systems —Mathematics of Symmetry, Stability and Moduli—"
2022	"Deepening and Applications of Variational Problems" "Singularity Theory Special Months"
2023	"Stochastic Processes and Related Fields"
2024	"Development in Algebraic Geometry related to Integrable Systems and Mathematical Physics"

*In FY2018, "Project Research" was developed and expanded to "RIMS Research Projects" in accordance with the approval as an International Joint Usage/Research Center.

Implementation of Joint Usage / Research



Note: The total number of days spent by participants at RIMS is approximately four times higher than the figures shown in the chart.

In FY2020-2021, the spread of COVID-19 forced the cancellation or postponement of many RIMS joint research projects. In order to support exchanges of researchers during the COVID-19 pandemic, RIMS started to bring the center's projects online in FY2020, and has worked to set up an environment for conducting online and hybrid (face-to-face and online) workshops.

*From FY2020, the number of participants, including online participation.

Results of Joint Usage / Research

The list of the international joint usage / research center projects conducted at the RIMS is publicized internationally in Japanese and English through the RIMS website and facebook page (<https://www.facebook.com/RIMS.KyotoUniv>), on overseas publicity websites, and by displaying posters in journals published by major international mathematical societies (AMS, EMS, and LMS). Many of the results of joint usage research are published in RIMS Kōkyūroku and RIMS Kōkyūroku Bessatsu (see the section on publications) and/or in domestic and overseas academic journals.

International Exchange

RIMS as an international joint research center

As the largest center of international joint research in the field of mathematical science in Japan, prominent researchers from overseas come and stay at this institute. It serves as a place for domestic and overseas researchers to conduct collaborative research. Its activities have earned international acclaim, including a comment in the Notices of the AMS, 2004, "RIMS, an Institute for Japan and the World."

Specific activities include receiving researchers of mathematical science from overseas universities and research institutions as visiting professors or guest scholars invited to Kyoto University, guest research associates, or short-stay visiting research scholars. These guest scholars stay for around a week to half a year and are received in various forms. Three hundred or more researchers are received every year, including overseas researchers coming to conduct joint usage research. The institute also actively accepts international students.

Inviting overseas researchers, on which the institute concentrates its efforts, is expected to promote interactions with domestic researchers through international joint research by systematic coordination with joint usage research such as international symposiums (held around 10 times every year as part of a joint usage research project) in which many overseas researchers participate. RIMS aims to promote the RIMS Research Project for international joint research and to encourage international applications for joint research activities. Furthermore, RIMS commits to supporting young researchers in pursuing international joint research.

Since FY2021, the following international online hybrid-style joint workshop has been organized and implemented as one model of "a new way of international joint research" in the post-COVID era (international hub institutes create a network and jointly hold hybrid-style online research symposia).

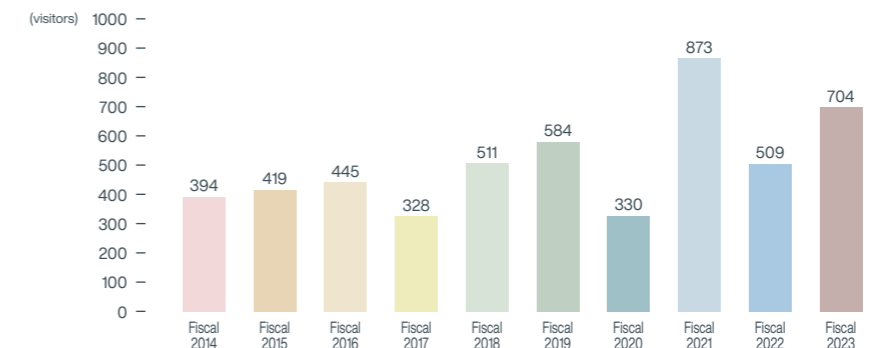
- "Tandem-Workshop MFO and RIMS" in collaboration with Oberwolfach Institute, Germany
- "Tandem-Workshop MATRIX and RIMS" in collaboration with MATRIX Institute, Australia
- Joint seminars with the Isaac Newton Institute in the U.K. (trial from FY2022)

Number of Visitors from Overseas

Country	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022	Fiscal 2023
United States	90	111	63	131	76	120
United Kingdom	25	43	16	85	31	79
Italy	15	16	3	42	23	19
India	2	4	3	15	14	15
Australia	17	17	3	22	14	15
Canada	17	23	12	26	13	23
South Korea	49	68	11	48	39	98
Sweden	2	2	1	7	8	2
China	42	56	42	123	97	113
Denmark	2	3	0	8	0	0
Germany	57	31	11	81	35	63
France	54	57	12	60	37	52
Russia	16	8	2	16	2	2
Others	123	145	151	209	120	103
Total	511	584	330	873	509	704

*From 2019 onwards, students are included. From 2020 onwards, online participants are also included.

Changes in Overseas Visitors



*In FY2020-2021, the spread of COVID-19 made it nearly impossible for researchers from overseas to visit Japan. The online and hybrid holding of the RIMS Collaborative Research has resulted in many international researchers participating online.

Visiting Professors

Due to the major divisional change in April 1999, the position of overseas visiting professor was provided in each of the three major research divisions. Researchers from each field of mathematical science invited from overseas stay for a long time through the year and conduct joint research with domestic researchers.

Name (University)	Tenure
BORDENAVE, Charles (French National Centre for Scientific Research)	2023.4.1 – 2023.6.30
TELIKEPALLI, Kavitha (Tata Institute of Fundamental Research)	2023.4.1 – 2023.6.30
CHEREDNIK, Ivan (University of North Carolina at Chapel Hill)	2023.5.14 – 2023.8.13
SAIDI, Mohamed (University of Exeter)	2023.6.28 – 2023.9.28
CADORET, Anna (Sorbonne University)	2023.7.18 – 2023.10.17
LACONIN, Hubert (National Institute for Pure and Applied Mathematics, Brazil)	2023.9.20 – 2023.12.19

*Only those in place in fiscal 2023

Distinguished Visiting Professors

As part of the efforts to assist the Top Global University Project at Kyoto University, professors with high international reputations, including Fields Medal winners, are received as distinguished visiting professors. They conduct research and teach students with the staff of Kyoto University, as well as participate in a wide range of education, including special lectures.

Name (University)	Tenure
CHEN, Zhenqing (University of Washington)	2019.3.20 – 2019.4.19
POPA, Sorin (University of California, Los Angeles)	2019.3.27 – 2019.4.25
MATSUKI, Kenji (Purdue University)	2019.4.19 – 2019.5.10
FEIGIN, Boris (Landau Institute of Theoretical Physics)	2019.6.2 – 2019.8.30

*Only those in place in fiscal 2019

Academic Exchange Agreements

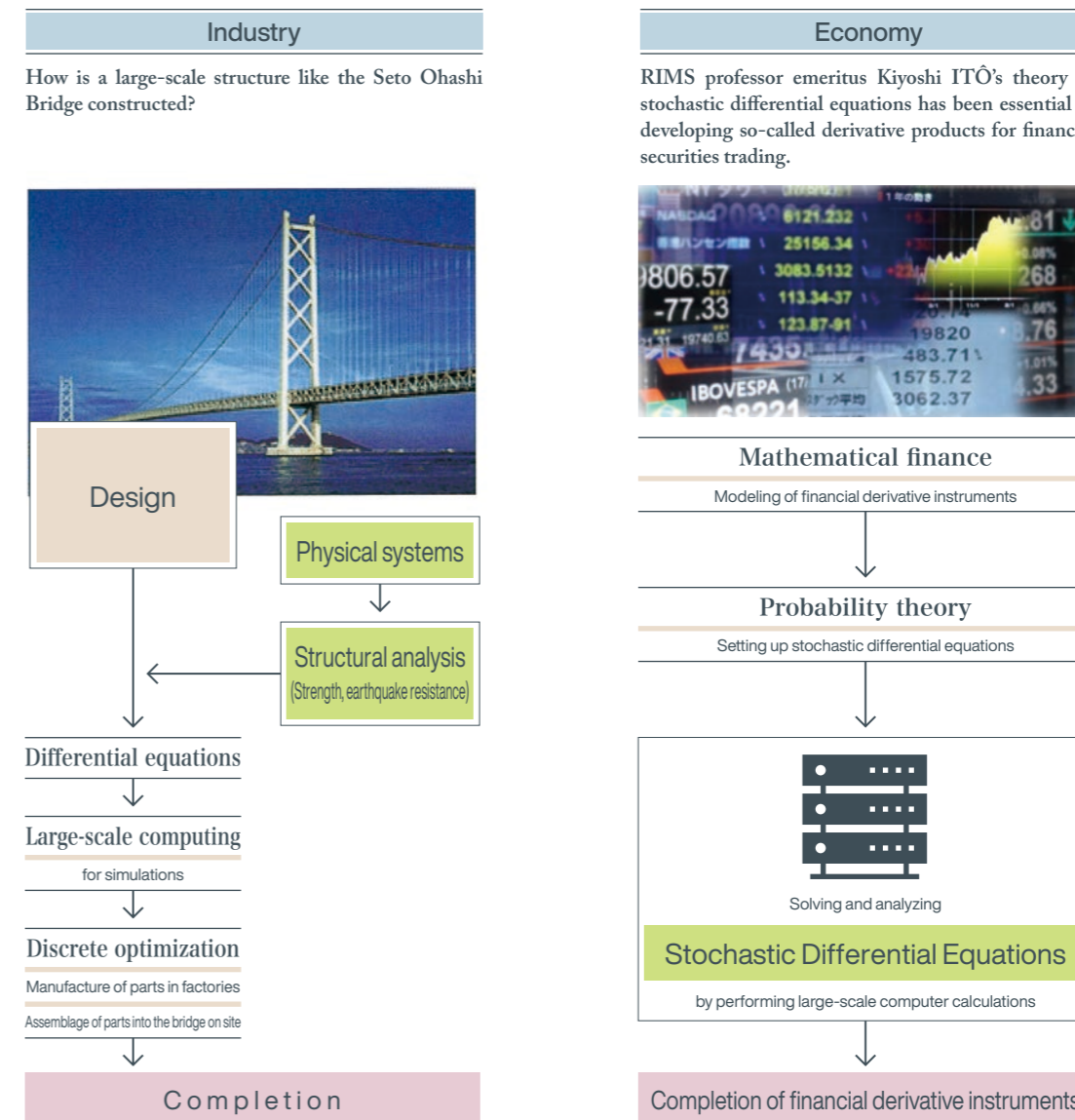
As part of the activities of the center of international research, the following academic exchange agreements have been concluded for the purpose of promoting and developing research collaborations in the fields of mathematical science.

Target Organization	Country	Date of Conclusion
International Institute for Advanced Studies	Japan	April 1, 1997
Korea Institute for Advanced Study (KIAS)	South Korea	March 10, 2000
Department of Mathematical Sciences, Seoul National University (SNU)	South Korea	June 23, 2006
Osaka Central Advanced Mathematical Institute	Japan	March 5, 2007
Pacific Institute for the Mathematical Sciences (PIMS)	Canada	March 30, 2009
National Institute for Mathematical Sciences (NIMS)	South Korea	June 24, 2010
Hausdorff Center for Mathematics, University of Bonn (HCM)	Germany	February 14, 2011
Tohoku University Advanced Institute for Materials Research	Japan	November 1, 2012
The CAU Nonlinear PDE Center, Chung-Ang University	South Korea	June 4, 2013
National Center for theoretical Sciences (NCTS)	Taiwan	July 25, 2014
College of Science, University of Utah	United States	October 13, 2016
Global Math Network (Hausdorff Center for Mathematics, University of Bonn / Département Mathématiques et Applications, École Normale Supérieure / Courant Institute of Mathematical Sciences / New York University / Beijing International Center for Mathematical Research, Peking University)		July 1, 2017
The Center for Geometry and Physics, Institute for Basic Science (IBS-CGP)	South Korea	August 1, 2017
University of Edinburgh	United Kingdom	September 24, 2020

Liaison with Society

Liaison between Mathematical Science and Society

Mathematical science is the foundation of various sciences and contributes to human happiness through various academic fields. Although it often takes many years, mathematical science has the ability to find the correct problem-solving method and develop it universally and profoundly. Pure mathematics is no exception. Research once thought to have no application has sometimes significantly impacted industry decades later. In the mathematical sciences, there are many examples of fields developed without specific application in mind, but whose applications are naturally expanded later.



Lifelong learning for working people and return of research results to society

RIMS is committed to giving back to society through lifelong learning for working adults and research results.

We hold an “Introductory Public Lecture” every year at RIMS to introduce the latest advances in modern mathematics and their applications and to convey the appeal of mathematics and the mathematical sciences. In addition to lectures by members of RIMS, external lecturers have also given lectures in recent years. We also jointly hold the “Five Research Centers in Mathematics and Mathematical Sciences Joint Public Lecture” for high school students and working adults, together with four other research centers in Japan for mathematics and the mathematical sciences (Meiji Institute for Advanced Study of Mathematical Sciences, Kyushu University Institute of Mathematics for Industry, Osaka Central Advanced Mathematical Institute, The Institute of Statistical Mathematics).

We have established the Liaison Center in Mathematics to collaborate with other academic fields and companies with the aim of applying mathematics broadly to society. We also co-sponsor industry-academia collaboration workshops.

Graduate Education and Conferment of Degrees

RIMS aims to develop original young researchers who belong to the Department of Mathematical Sciences of the Division of Mathematics and Mathematical Sciences in the Graduate School of Science, Kyoto University. In connection with this, the institute previously implemented the 21st Century COE Program, Formation of an International Center of Excellence in the Frontiers of Mathematics and Fostering of Researchers in Future Generations and the Global COE Program, Fostering Top Leaders in Mathematics—Broadening the Core and Exploring New Ground. Currently, as the Mathematics Unit of the Kyoto University Top Global University Project “Japan Gateway Program”, it provides graduate students with an international research environment, including teaching by top-class overseas researchers. These projects are run jointly by the Division of Mathematics and Mathematical Sciences in the Graduate School of Science and RIMS.

Number of Students

The number of students in the Department of Mathematical Sciences is listed by year below.

Fiscal Year	Master's Program	Doctoral Program
Fiscal 2017	20	23
Fiscal 2018	21	25
Fiscal 2019	21	20
Fiscal 2020	21	24
Fiscal 2021	24	24
Fiscal 2022	24	23
Fiscal 2023	23	22

As of April 1 for all fiscal years

Conferment of Degrees

The number of students in the Department of Mathematical Sciences who have received a Ph.D. (in Science) from Kyoto University (since 1994) is listed below.

Doctoral Course	Doctoral Dissertation	Total
154	51	205

As of April 1, 2024

Awards Received by Graduate Students

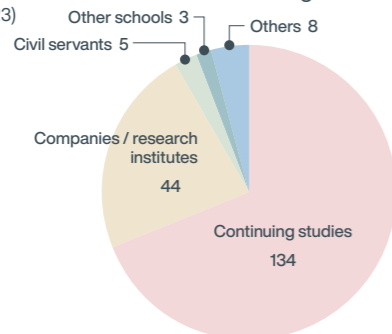
Recently, graduate students in the Department of Mathematical Sciences have received the following prizes.

February 2012	SUZUKI, Sakie	4th Kyoto University Tachibana Award for Outstanding Woman Researchers
March 2013	ISHIMOTO, Kenta	Fiscal 2013 Kyoto University President's Award
September 2014	ISHIMOTO, Kenta	Fiscal 2013 Award for Outstanding Paper in Fluid Mechanics (jointly with Professor Yamada while undertaking a doctoral course)
December 2015	ISHIDA, Yawara	CANDAR 2015 Graph Golf Competition "Deepest Improvement Award"
September 2018	NAKAJIMA, Shuta	Fiscal 2018 MSJ Takebe Katahiro Prize for Encouragement of Young Researchers

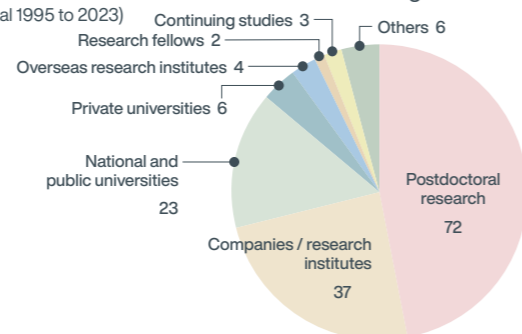
Career after Completing Graduate School

Most students work as researchers at universities and companies.

Career after Graduate School Master's Program (Fiscal 1995 to 2023)



Career after Graduate School Doctoral Program (Fiscal 1995 to 2023)



Gender Equality

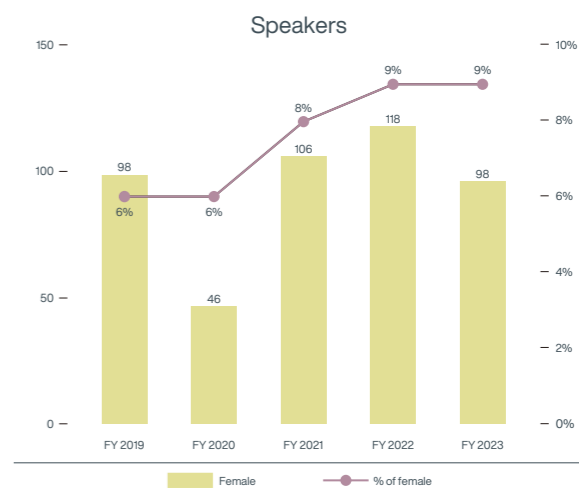
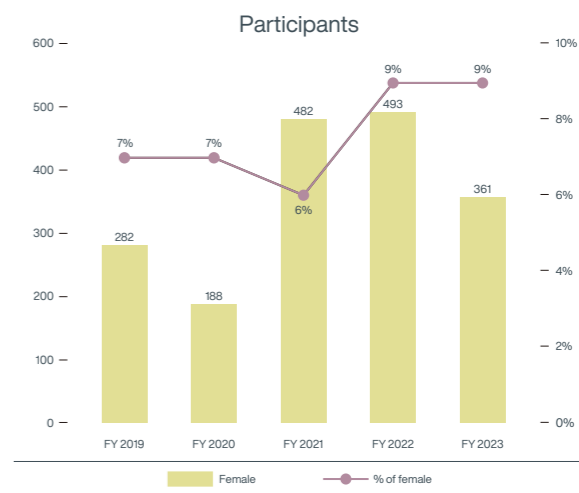
“Promotion of Women’s Participation” in Research Activities

The Research Institute for Mathematical Sciences launched the “Promotion of Women’s Participation” program as an International Joint Usage/Research Center project in FY2022 to increase the number of female researchers actively submitting proposals, giving lectures at research meetings, and participating in various categories of joint research activities.

A “Promotion of Women’s Participation” option has been included in two kinds of joint research activity, RIMS Workshops (Type A) and RIMS Symposia, since FY2022, and to the two kinds of joint research activity, RIMS Workshops (Type B, C) and RIMS Review Seminars since FY2023. The Advisory Board deliberates and decides on adopting proposals that meet the following conditions within the “Promotion of Women’s Participation” scheme.

- 1) The principal organizer is female. (If there are two, both are female.)
- 2) 50% or more of the speakers (which should be specified in the proposal) are female.
- 3) 50% or more of the expected participants listed in the proposal are female.

Due to an increase in the number of applications for the newly established “Promotion of Women’s Participation”-type projects, as shown in the graph on the right, the ratio of the number of female principal researchers and participants has been increasing steadily, albeit slightly, since FY2022. We expect that the number of applications for these projects will increase. We will provide further support in order to ensure that RIMS is a place where female researchers can be active.

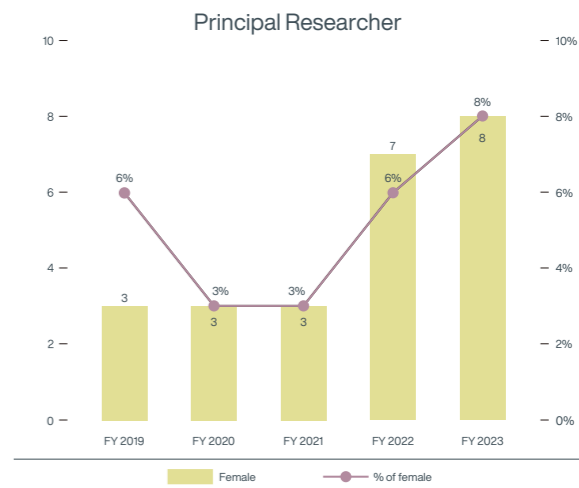


Gender equality

As support for participants in RIMS projects, including those not held under the “Promotion of Women’s Participation” scheme, a “temporary nursery” has been set up since FY2022 to accommodate requests from both men and women to use childcare, with appropriate safety measures in place.

Since FY2023, a system has been in place to accommodate requests for childcare from participants from overseas, creating an environment where participants, regardless of whether they are from Japan or overseas, can leave their children with peace of mind and focus on their research.

RIMS will continue to promote gender equality initiatives related to its projects.



Diversity

Wheelchair Accessibility and Braille Availability at RIMS

RIMS' Building is wheelchair accessible and universally friendly to blind visitors.

1. The main entrance at RIMS is wheelchair accessible with slopes. -Photo No. 1
2. Almost all seminar rooms are wheelchair accessible. For some rooms equipped with built-in chairs and tables, we can create space for wheelchairs. -Photo No. 2,3
3. The elevator is wheelchair accessible with handrails and a mirror, and the control panels and switches are mounted low (Door opening: 85cm) -Photo No. 4
4. There is a wheelchair-accessible restroom on the ground floor (Door opening: 100cm) -Photo No. 5
5. In the entrance area, we have braille guidance blocks with a guide board in braille. Braille signs are also on the staircase railings, in the accessible restroom, and on the elevator. -Photo No. 6



Photo No. 1



Photo No. 2



Photo No. 3



Photo No. 4

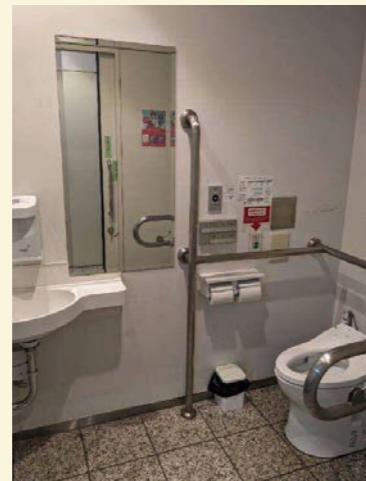


Photo No. 5



Photo No. 6

Library

As a library specialized in mathematical sciences the institute library collects literature and materials in the fields of mathematics, applied mathematics, computer science, and theoretical physics, and provides services not only to the staff and researchers of Kyoto University, but also to researchers of mathematical science from across Japan. Furthermore, the library serves as a center for joint usage/joint research, and is actively used by the participants of the institute's activities. The collected materials are in the reading room on the 3rd floor and the storeroom in the basement. These can be searched using KULINE (Kyoto University Library Online Catalogue). On a terminal in the reading room on the 3rd floor, domestic and overseas academic articles can be retrieved and used by accessing the database and electronic journals. The library is endeavoring to enrich its stock of electronic resources.

Library Web Site

<http://www.kurims.kyoto-u.ac.jp/~library/>

Number of Books

Foreign books	101,417	Foreign journals	1,462
Japanese books	9,002	Japanese journals	111
	Total: 110,419		Total: 1,573

As of April 1, 2024



Publications

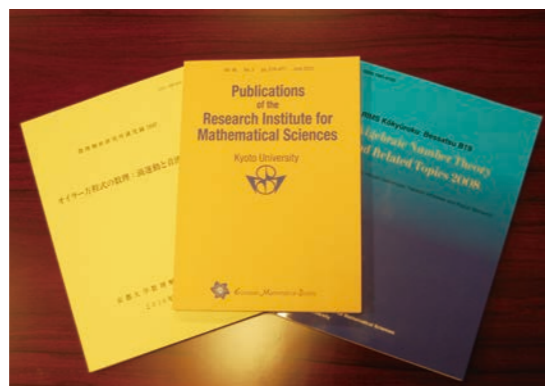
Covering research results not only by RIMS faculty members but also other researchers, Publications of RIMS, which has been issued every year since 1965, is a journal for releasing important results concerning mathematical science in English. Papers that were published five or more years ago are freely available on the website of the European Mathematical Society, and, from 2023 onward, some have been published as open access based on the Subscribe To Open (S2O) program. Moreover, some papers are available on J-STAGE of the Japan Science and Technology Agency and the website of RIMS. The RIMS Preprint series, which releases the research results of full-time researchers before printing and publishing, is publicized on the website of RIMS and on the Kyoto University Research Information Repository, KURENAI. About 15 issues are released every year. In addition, as a record of lectures conducted as part of joint usage research projects, around 50 issues of RIMS Kōkyūroku are released every year. As a record of workshops specially selected by the Advisory Board, RIMS Kōkyūroku Bessatsu is issued. Papers with no copyright restrictions are publicized on the website of RIMS and the research information repository of Kyoto University. RIMS Kōkyūroku Bessatsu has been published continuously since April 2009.

- European Mathematical Society
<https://ems.press/journals/prims>
- Electronic archive site of the Japan Science and Technology Agency
<https://www.jstage.jst.go.jp/browse/kyotoms1969>
- National Institute of Informatics
<http://www.nii.ac.jp/sparc/partners/#7>
- RIMS
<http://www.kurims.kyoto-u.ac.jp/~prims/index.html>
<http://www.kurims.kyoto-u.ac.jp/preprint/index.html>
<http://www.kurims.kyoto-u.ac.jp/~kyodo/kokyuroku/kokyuroku.html>
- Kyoto University Research Information Repository
<https://repository.kulib.kyoto-u.ac.jp/dspace/handle/2433/24849>

Publications

Publications of RIMS(Quarterly)	The latest issue is vol. 59, No. 4.
RIMS Kōkyūroku Bessatsu	The latest issue is No. 94.
RIMS Kōkyūroku	The latest issue is No. 2277.
RIMS Preprints	The latest issue is No. 1979. (Since August 2013, only an electronic version has been issued.)

As of April 1, 2024



Introductory Public Lecture

Introductory Public Lectures have been held almost every summer since 1976, featuring around three topics based on the results of various aspects of mathematical science research.

Fiscal Year	Count	Topic	Number of Students
Fiscal 2015	37th	(1) Poincaré conjecture and rich flow (2) Mathematics of the planetary dynamo theory – Why stars and planets have their magnetic fields? (3) Banach-Tarski paradox	114
Fiscal 2016	38th	(1) Mathematics of knots (2) Semantics of programming languages and category theory (3) Solving differential equations	121
Fiscal 2017	39th	(1) Prime number theorem and Riemann zeta function (2) Introduction to nonstandard analysis – Mathematics of hyperreal numbers and infinity (3) ADE generalization of quintuple product formulas – From the viewpoint of field theory	110
Fiscal 2018	40th	(1) Algebraic geometry - an introduction with search of its origin (2) Introduction to symplectic duality (3) Universal Algebra as an Introduction to Undergraduate Algebra	108
Fiscal 2019	41st	(1) Unsolved problems in fluid dynamics (2) Duality in combinatorial optimization (3) Functional inequalities and energy concentration	116

The lecture was canceled due to the difficult social situation in fiscal 2020.

Fiscal 2021	42nd	(1) Introduction to Computational Complexity (2) Around Frobenius maps (3) Endomorphisms of algebraic surfaces	on-site 15 online 160
Fiscal 2022	43rd	(1) Introduction to Laplacians and heat equations on fractals (2) Observing topology through invariants (3) Fluid Dynamics in Everyday Life: Mathematical Models of “Flow” (special lecture) Solving Business Issues through Mathematical Optimization	on-site 31 online 142
Fiscal 2023	44th	(1) The Hitchin equation and related topics (2) Double exponential quadrature --- Theory and development (3) Algebraic Topology and Physics (special lecture) Complex network analysis of human mobility data and its applications	on-site 66 online 151

Expenses of the Institute

Unit: 1 thousand yen

Item	Fiscal 2018	Fiscal 2019	Fiscal 2020	Fiscal 2021	Fiscal 2022	Fiscal 2023
Management Expenses Grants	716,594	703,302	676,346	760,357	744,090	761,510
Breakdown: Labor Costs	412,545	407,115	395,404	442,952	432,922	454,000
Article Costs	304,049	296,187	280,942	317,405	311,168	307,510
Grants-in Aid for Scientific Research	99,416	103,235	103,276	190,803	156,781	147,847
Commissioned Research / Commissioned Projects	10,176	21,779	19,844	29,126	15,153	7,800
Collaborative Research	3,846	3,862	13,580	18,621	18,621	19,920
Contributions	27,913	857	6,017	11,933	11,369	4,038
Total	857,945	833,035	819,063	1,010,840	946,014	941,115

*External funds include indirect expenses.

The figures concerning Grant-in-Aid for Scientific Research and contributions are the amount received.

RIMS History

April	1958	The 26th General Assembly Meeting of the Scientific Council of Japan (SCJ) approved the founding of RIMS.
April	1963	RIMS was founded as a joint usage research institute attached to Kyoto University for the purpose of conducting general research in mathematical science. In its initial year, two research divisions (Fundamental Mathematics Research Division One and Operator Theory Research Division) were established.
April	1964	Two research divisions (Fundamental Mathematics Research Division Two and Applied Analysis Research Division One) were established.
April	1965	Two research divisions (Non-Linear Problem Research Division and Applied Analysis Research Division Two) were established.
April	1966	Two research divisions (Approximation Theory Research Division and Numerical Analysis Division) were established.
April	1967	One research division (Computer Research Division) was established, resulting in a total of nine research divisions.
April	1971	The Applied Mathematical Programming Institute attached to RIMS was established.
April	1975	The Division of Mathematical Sciences was established in the Kyoto University Graduate School of Science.
April	1978	The Global Analysis Research Division was established.
April	1980	The Mathematical Science Research Division (with a visiting professor from overseas) was established.
April	1984	The Algebraic Analysis Research Division (with a 10-year limit) was established.
May	1989	The Mathematical Physics Research Division (with a 10-year limit) was established.
April	1992	The Algebraic Variety Research Division (with a 10-year limit) was established.
April	1994	Due to the reorganization of the Graduate School of Science, the Division of Mathematics and Mathematical Sciences was established. The Division of Mathematical Sciences was subsumed by the Department of Mathematical Sciences in this new division.
June	1994	The Field of Algebraic Analysis Research Division (with a 10-year limit) was established (in place of the Algebraic Analysis Research Division, which was abolished).
April	1995	The Applied Mathematics Research Division (with a visiting professor from overseas, and with a 10-year limit) was established.
April	1999	RIMS was reorganized into three major research divisions (Fundamental Mathematics Research Division, Infinite Analysis Research Division, and Applied Mathematics Research Division) and one attached institute (Applied Mathematical Programming Institute attached to RIMS).
April	2004	The Applied Mathematical Programming Institute attached to RIMS was re-established as the Computer Laboratory.
April	2006	The Center for Research in the Frontiers of Mathematical Science was established (internal process).
October	2007	The Mathematical Science Joint Research Division (with the Nomura Group) was established (for 3 years), commemorating the awarding of the Carl Friedrich Gauss Prize to Dr. Kiyoshi Ito.
April	2010	RIMS was certified as an advanced Joint Usage / Research Center of Mathematics and Mathematical Science (for 6 years).
April	2012	The Research Center for Quantum Geometry was established (internal process). The Center for Research in the Frontiers of Mathematical Science changed its name to the Center for Research Interaction in Mathematical Sciences.
May	2013	The Liaison Center in Mathematics was established (internal process).
April	2016	Certification of the advanced Joint Usage / Research Center of Mathematics and Mathematical Science was renewed (for 6 years).
December	2017	The Preparatory Center for Research in Next-Generation Geometry was established (internal process).
November	2018	RIMS was certified as an International Joint Usage/Research Center (International Center for Collaborative Study in Mathematical Sciences, for 3 years).
April	2019	The Center for Research in Next-Generation Geometry was established (internal process), in the place of The Preparatory Center for Research in Next-Generation Geometry, which was abolished.
April	2020	The Research Center for Quantum Geometry was abolished.
April	2022	The International Research Center for Next-Generation Geometry was established (internal process).
May	2022	The Center for Research in Next-Generation Geometry was abolished.

List of RIMS Directors

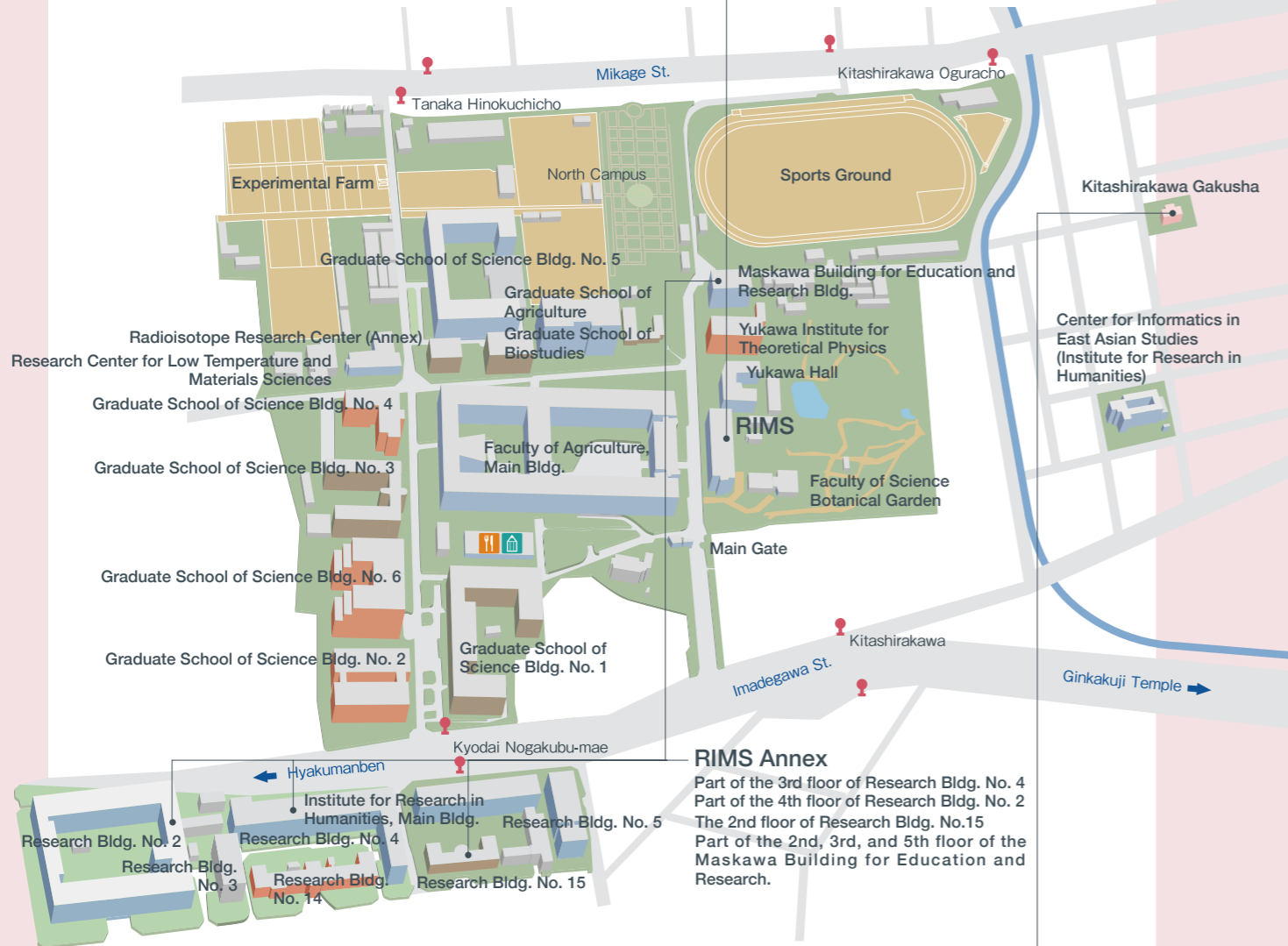
1st.	HUKUHARA, Masuo	1 May 1963	31 March 1969
2nd.	YOSIDA, Kōsaku	1 April 1969	31 March 1972
3rd.	YOSHIZAWA, Hisaaki	1 April 1972	31 March 1976
4th.	ITŌ, Kiyoshi	1 April 1976	1 April 1979
5th.	SHIMADA, Nobuo	2 April 1979	1 April 1983
6th.	HIRONAKA, Heisuke	2 April 1983	30 January 1985
7th.	SHIMADA, Nobuo	31 January 1985	30 January 1987
8th.	SATO, Mikio	31 January 1987	30 January 1991
9th.	TAKASU, Satoru	31 January 1991	30 January 1993
10th.	ARAKI, Huzihiro	31 January 1993	31 March 1996
11th.	SAITO, Kyoji	1 April 1996	31 March 1998
12th.	MORI, Masatake	1 April 1998	31 March 2001
13th.	KASHIWARA, Masaki	1 April 2001	31 March 2003
14th.	TAKAHASHI, Yoichiro	1 April 2003	31 March 2007
15th.	KASHIWARA, Masaki	1 April 2007	31 March 2009
16th.	FUJISHIGE, Satoru	1 April 2009	31 March 2011
17th.	MORI, Shigefumi	1 April 2011	31 March 2014
18th.	MUKAI, Shigeru	1 April 2014	31 March 2017
19th.	YAMADA, Michio	1 April 2017	31 March 2020
20th.	KUMAGAI, Takashi	1 April 2020	31 March 2022
21st.	ONO, Kaoru	1 April 2022	31 March 2024
22nd.	OHKITANI, Koji	1 April 2024	

Map of the North Campus

-  Cafeteria
-  Cooperative Store
-  Bus Stop



Research Building
Reinforced concrete, one floor underground and four floors above ground built between 1964 and 1967. Aseismic repair in 2009 Northern Campus of Kyoto University, Kitashirakawa Oiwake-cho, Sakyo-ku, Kyoto



RIMS Annex
Part of the 3rd floor of Research Bldg. No. 4
Part of the 4th floor of Research Bldg. No. 2
The 2nd floor of Research Bldg. No.15
Part of the 2nd, 3rd, and 5th floor of the Maskawa Building for Education and Research.

Guesthouse for Joint Use Researchers
(Kitashirakawa Gakusha)
Guesthouse for researchers visiting this institute
Commonly called "Kitashirakawa Gakusha," it is jointly managed and operated by RIMS and the Yukawa Institute for Theoretical Physics.
Building Area: 137m²; Total Floor Space: 453 m²;
4 stories above ground; Capacity: 14 persons
Address: 50-227 Kitashirakawa Ogura-cho, Sakyo-ku, Kyoto City
Telephone: 075-701-8862
For inquiries, contact the Cooperative Research Service Section (kyodo@kurims.kyoto-u.ac.jp).



Access from Major Railway Stations and Bus Stops

Major Railway Stations	Bus - Take:	Bus - Stop at:
Kyoto Station (JR)	Kyoto City Bus No. 7 (For Shijo-Kawaramachi/Ginkakuji)	
Kyoto-Kawaramachi Station (Hankyu)	hoop bus	"Kyodai Nogakubu-mae" or "Kitashirakawa" (Only for hoop bus: "Kyoto Daigaku mae")
Kyoto Station Hachijo Exit (JR)	Kyoto City Bus No. 203 (For Ginkakuji/Kinrin Shako)	
Karasuma Line (Subway) Imadegawa Station	Kyoto City Bus No. 7 (For Ginkakuji/Kinrin Shako)	
Demachiyana-gi Station (Keihan)	Kyoto City Bus No. 203 (For Ginkakuji/Kinrin Shako)	

Information (photo) provided by "Akashi Kaikyo Bridge" from Honshu-Shikoku Bridge Authority