

2026 The Mathematical Society of Japan

AUTUMN MEETING

Dates: September 1st (Tue)–4th (Fri), 2026

Venue: Rokkodai Campus (Tsurukabuto 1st Campus)

Kobe University

1–2–1, Tsurukabuto, Nada-ku, Kobe, 657-0011, Japan

Contact to: Graduate School of Science and Faculty of Science

Kobe University

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The Mathematical Society of Japan

	I B109	II B110	III B029	IV B210	V K301	VI K401	VII K601	VIII K302	IX K402
1st (Tue)	Functional Analysis 9:30–10:30 14:20–15:30	Functional Equations 9:00–12:00 14:15–16:30	Geometry 9:30–12:00 14:15–16:45	Algebra 9:00–12:00 15:30–18:00	Complex Analysis 9:30–11:10 15:40–16:50	Statistics and Probability 9:30–12:00	Topology 9:30–12:00 15:40–17:40	Infinite Analysis 9:30–10:30 14:30–16:30	Applied Mathematics 9:00–12:10 15:25–16:50
	Featured Invited Talks 13:00–14:00								
	Invited Talk 15:45–16:45	Invited Talk 17:00–18:00		Invited Talk 14:15–15:15	Invited Talk 14:20–15:20	Invited Talks 14:15–15:15 15:30–16:30	Invited Talk 14:20–15:20	Invited Talk 10:45–11:45	Invited Talks 14:15–15:15 17:00–18:00
2nd (Wed)	Functional Analysis 10:00–10:30 13:00–14:00	Functional Equations 9:00–12:00	Geometry & Topology	Algebra 9:00–12:00	Complex Analysis 9:30–11:10	Statistics and Probability 9:10–12:00		Infinite Analysis 9:20–10:45	Applied Mathematics 9:00–12:00 13:00–14:00
	Invited Talk 10:45–11:45	Invited Talk 13:00–14:00	Invited Talks 10:20–11:20 13:00–14:00	Invited Talk 13:00–14:00	Invited Talk 13:00–14:00			Invited Talk 11:00–12:00	
	MSJ Prizes Presentation (Idemitsu Sazo Memorial Rokkodai Auditorium) (14:45–15:15)								
	Plenary Talks (Idemitsu Sazo Memorial Rokkodai Auditorium) Autumn Prize Winner (15:30–16:30)								
	Takashi Shioya (Tohoku Univ.) (16:45–17:45)								
	Official Party (Restaurant SAKURA) (18:15–20:15)								
3rd (Thu)	Functional Analysis 9:30–12:00 14:15–16:30	Functional Equations 9:15–12:00 14:15–16:30	Geometry 9:30–11:45 14:15–16:00	Algebra 9:00–12:00 15:30–18:00	Real Analysis 9:30–11:45 14:15–15:25	Statistics and Probability 9:20–12:00	Topology 9:30–12:00 15:40–17:10	Found. of Math. & Hist. of Math. 9:00–10:30 14:15–17:30	Applied Mathematics 9:30–12:00 14:15–16:15
	Featured Invited Talks 13:00–14:00								
	Invited Talk 16:45–17:45	Invited Talk 17:00–18:00	Invited Talk 16:15–17:15	Invited Talk 14:15–15:15	Invited Talk 15:40–16:40	Invited Talks 14:15–15:15 15:30–16:30	Invited Talk 14:20–15:20	Invited Talk 10:40–11:40	Invited Talk 16:30–17:30
4th (Fri)		Functional Equations 9:00–12:00 14:15–16:15	Geometry 9:30–11:45 14:15–16:15	Algebra 9:00–12:00 15:30–18:00	Real Analysis 10:00–12:00 14:15–15:45	Statistics and Probability 9:30–12:00		Found. of Math. & Hist. of Math. 9:10–10:30 14:15–17:30	Applied Mathematics 9:30–12:00 14:15–16:15
	Featured Invited Talks 13:00–14:00								
		Invited Talk 16:30–17:30		Invited Talk 14:15–15:15	Invited Talk 16:00–17:00			Invited Talk 10:40–11:40	Invited Talk 16:30–17:30

MSJ Autumn Meeting 2026

Organizing Committee Chair of Organizing Committee Katsusi FUKUYAMA (Kobe Univ.)

Chair of Executive Committee Yasuhiro OHTA (Kobe Univ.)

Organizer The Mathematical Society of Japan

Co-organizer Graduate School of Science and Faculty of Science, Kobe University

Acknowledgements We would like to thank Kobe University for their great cooperation in organizing this Autumn Meeting.

Registration for Participation

Visit the following link to register.

<https://www.mathsoc.jp/activity/meeting/kobe26sept/reg.html>

This survey is conducted in order to grasp the number of participants in advance.

Please register by August 31st (Mon) if possible. (You can register during this meeting.)



Plenary Talks

September 2nd (Wed) Idemitsu Sazo Memorial Rokkodai Auditorium

Award Lecture for the 2026 MSJ Autumn Prize

Autumn Prize Winner (15:30–16:30)

Takashi Shioya (Tohoku Univ.) Coarse geometry of metric measure spaces (16:45–17:45)

Featured Invited Talks

September 1st (Tue)

Conference Room III

Kazushi Ueda (Univ. of Tokyo) Geometry of singularities (13:00–14:00)

Conference Room IV

Guest Talk from Taiwan Mathematical Society

Tzu-Yueh Wang (Academia Sinica) From entire curves to integral points (13:00–14:00)

Conference Room V

Toshihiro Nakanishi Lars Ahlfors —to the summit of mathematics (13:00–14:00)
(Shimane Univ.* / Osaka Metro. Univ.)

September 3rd (Thu)

Conference Room I

Narutaka Ozawa (Kyoto Univ.)^b Uniform amenability at infinity (13:00–14:00)

Conference Room IV

Takeshi Saito (Univ. of Tokyo) Developments of étale cohomology, through its history (13:00–14:00)

September 4th (Fri)

Conference Room II

Hideo Kozono ^b Helmholtz–Weyl decomposition and magnetohydrodynamic
(Waseda Univ. / Tohoku Univ.) equations (13:00–14:00)

Conference Room VI

Yuta Koike (Univ. of Tokyo) Denoising diffusion probabilistic models and the Föllmer process (13:00–14:00)

Talks Invited by Research Sections and Special Session

September 1st (Tue)

Algebra (Conference Room IV)

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|----------------------------------|---|---------------|
| Norihiro Hanihara (Kyushu Univ.) | Calabi–Yau structures and tilting theory for singularity categories | (14:15–15:15) |
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Complex Analysis (Conference Room V)

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|----------------------------------|--|---------------|
| Kentaro Hirata (Hiroshima Univ.) | Potential analysis regarding removability of singularities and asymptotic behavior of solutions to semilinear elliptic equations | (14:20–15:20) |
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Functional Equations (Conference Room II)

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| Kotaro Watanabe
(Nat. Defense Acad. of Japan) | Applications of isometries on annuli and spheres to the shape evaluation problem of positive solutions for semilinear elliptic equations | (17:00–18:00) |
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Functional Analysis (Conference Room I)

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|------------------------------------|---|---------------|
| Setsuro Fujiie (Ritsumeikan Univ.) | A remark on the Weyl law of the quantum resonances | (15:45–16:45) |
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Statistics and Probability (Conference Room VI)

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|-------------------------------|--|---------------|
| Hayate Suda (Tohoku Univ.) | Scaling limits of solitons in the randomized box-ball system | (14:15–15:15) |
| Stefan Junk (Gakushuin Univ.) | The phase transition for the directed polymer model in higher dimensions | (15:30–16:30) |

Applied Mathematics (Conference Room IX)

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|--|--|---------------|
| Hirotake Kurihara (Yamaguchi Univ.) | Finite combinatorial structures underlying multivariate orthogonal polynomials | (14:15–15:15) |
| Award Lecture for the 2025 Applied Mathematics Prize | | |
| Akira Saito (Nihon Univ.) | Preorder induced by rainbow forbidden subgraphs | (17:00–18:00) |

Topology (Conference Room VII)

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|---|--|---------------|
| Masaki Taniguchi (Kyoto Univ.) ^b | Four-dimensional cobordisms and Floer theory | (14:20–15:20) |
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Infinite Analysis (Conference Room VIII)

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|--|---|---------------|
| Shin-ichiro Seki
(Nagahama Inst. of Bio-Sci. and Tech.) | Generalizations of Euler’s identity for harmonic numbers .. | (10:45–11:45) |
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September 2nd (Wed)

Algebra (Conference Room IV)

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|------------------------------------|--|---------------|
| Atsushi Takahashi (Univ. of Osaka) | Mirror symmetry and full exceptional collections in derived categories | (13:00–14:00) |
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Geometry and Topology (Conference Room III)

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|---|---|---------------|
| Award Lecture for the 2026 MSJ Geometry Prize | | |
| Shinpei Baba (Univ. of Osaka) | Complex projective structures on a Riemann surface and representations of the surface group | (10:20–11:20) |
| Award Lecture for the 2026 MSJ Geometry Prize | | |
| Kouichi Yasui (Univ. of Osaka) | Exotic smooth structures on 4-manifolds and genus functions | (13:00–14:00) |

Complex Analysis (Conference Room V)

- Atsushi Atsuji (Keio Univ.) Diffusion processes on Kähler manifolds and the value distribution of holomorphic maps —From the perspective of Itô calculus— (13:00–14:00)

Functional Equations (Conference Room II)

- Junichi Harada (Akita Univ.) Asymptotic behavior of solutions to the energy critical Fujita equation in 5D and 6D (13:00–14:00)

Functional Analysis (Conference Room I)

- Yosuke Morita (Kyushu Univ.) Geometry of proper actions on homogeneous spaces (10:45–11:45)

Infinite Analysis (Conference Room VIII)

- Luc Vinet (Univ. de Montreal) Algebras and bispectrality (11:00–12:00)

September 3rd (Thu)

Foundation of Mathematics and History of Mathematics (Conference Room VIII)

- Nobuo Miura (Kobe Univ.*) Who named the Pythagorean Theorem?: Tracing the development of early modern western mathematics through Euclid's Elements (10:40–11:40)

Algebra (Conference Room IV)

- Wataru Kai (Tohoku Univ.)^b Linear patterns of prime elements in number fields and their connection to Hilbert's Tenth Problem (14:15–15:15)

Geometry (Conference Room III)

- Tadashi Fujioka (Fukuoka Univ.) Recent developments in Busemann geometry (16:15–17:15)

Functional Equations (Conference Room II)

- Hiroshi Takeda (Fukuoka Univ.)^b Asymptotic behavior of elastic waves for large time (17:00–18:00)

Real Analysis (Conference Room V)

- Naohito Tomita (Univ. of Osaka) On the boundedness of bilinear pseudo-differential operators (15:40–16:40)

Functional Analysis (Conference Room I)

- Isao Ishikawa (Kyoto Univ.)^b Dynamical rigidity of maps inducing bounded composition operators (16:45–17:45)

Statistics and Probability (Conference Room VI)

- Shun Matsuura (Keio Univ.) Best equivariant estimation in seemingly unrelated regression models (14:15–15:15)
- Kengo Fujisawa (Tokyo Univ. of Sci., Yamaguchi) Recent developments in modeling for multi-way contingency tables (15:30–16:30)

Applied Mathematics (Conference Room IX)

- Sohei Tasaki (Hokkaido Univ.) Mathematics of bacterial community formation (16:30–17:30)

Topology (Conference Room VII)

- Yasuhiko Asao (Kyushu Univ.) Graph homology viewed from magnitude homology (14:20–15:20)

September 4th (Fri)

Foundation of Mathematics and History of Mathematics (Conference Room VIII)

Yudai Suzuki (Oyama Nat. Coll. of Tech.)	b Second incompleteness theorem and reflection principles via ω -models	(10:40–11:40)
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Algebra (Conference Room IV)

Hideya Watanabe (Rikkyo Univ.)	Quantum coordinate coalgebras and bi- z -crystals	(14:15–15:15)
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Functional Equations (Conference Room II)

Kazuyuki Tsuda (Kyushu Sangyo Univ.)	An approach to a moving boundary problem for the Navier–Stokes equations in weighted function spaces	(16:30–17:30)
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Real Analysis (Conference Room V)

Yuya Tanaka (Kwansei Gakuin Univ.)	Behavior of solutions to chemotaxis systems with growth and damping terms	(16:00–17:00)
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Applied Mathematics (Conference Room IX)

Tadashi Tokieda (Stanford Univ.)	Calculation that involves neither numbers nor formulas	(16:30–17:30)
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Open Lectures for Citizens

Date: September 3rd (Thu) 14:00–16:30
 Venue: C201, 2F, Bldg. C
 Organizer: The Mathematical Society of Japan
 Co-organizer: Graduate School of Science and Faculty of Science, Kobe University
 Program: Opening Speech (14:00–14:05)
 Kazuhiro Ishige (President of MSJ/Univ. of Tokyo)
 Lecture 1: “Will a drunken person be able to make it home?” (14:10–15:10)
 Yuji Hamana (Univ. of Tsukuba)
 Lecture 2: “Mathematics and AI 2026” (15:30–16:30)
 Norihide Tokushige (Univ. of the Ryukyus)
 Web Page: <https://www.mathsoc.jp/en/meeting/kobe26sept/>

Foundation of Mathematics and History of Mathematics

September 3rd (Thu) Conference Room VIII

9:00–10:30

- 1 Katsushi Waki (Yamagata Univ.) Progress report on the digitization of the Sakuma library 15
- 2 Koichi Hirata On circle chain problems studied by Chiou Abe 15
(Matsuyama Univ./Ehime Univ.*)
- 3 Noriko Tanaka (Naragakuen Univ.) Methods of expressing factorization in different mathematical schools 15
- 4 Makoto Tamura (Osaka Sangyo Univ.) Overview of the Shuihudi bamboo slips “Suanshu” of the Han Dynasty 15
- 5 Hideyuki Majima (Ochanomizu Univ.*) On the publications of Jinkouki edited by Yoshida Mitsuyoshi 15
- 6 Tsukane Ogawa (Yokkaichi Univ.) On the equation problems in the *Taisei Sankei* —The concept and
Mitsuo Morimoto (Sophia Univ.*) calculation method 15
Noriko Tanaka (Naragakuen Univ.)

10:40–11:40 Talk Invited by Section on Foundation and History of Mathematics

- Nobuo Miura (Kobe Univ.*) Who named the Pythagorean Theorem?: Tracing the development of early modern western mathematics through Euclid’s Elements

11:45–12:00 Mathematics History Team Meeting

14:15–17:30

- 7 Masato Fujita O-minimal structures possessing finitely many dimension functions ... 15
(Japan Coast Guard Acad.)
- 8 Koki Okura (Univ. of Tsukuba) Distality in ordered abelian groups 15
- 9 Akito Tsuboi (Univ. of Tsukuba*) A property of algebraic independence in small theories 10
- 10 Koichiro Ikeda (Hosei Univ.) Generic structures with infinitely many generators 15
- 11 Kota Takeuchi (Univ. of Tsukuba) Colorings and the number of independent strict orders 15
Akito Tsuboi (Univ. of Tsukuba*)
- 12 Kai Ino (Hosei Univ.) Differential-algebraic comparisons between Eisenstein series and the modular j-function 15
- 13 Hirotaka Kikyo (Kobe Univ.) On Hrushovski’s construction and SOP3, TP1 and TP2 15
- 14 Koitaro Nakaura (Univ. of Tokyo) Generalized dp-ranks and their properties 15
- 15 Toshimichi Usuba (Waseda Univ.) 1-manifolds and the axiom of choice 15
- 16 Takashi Yamazoe (Kobe Univ.) Cardinal invariants of quotient Boolean algebras associated with ideals 15
- 17 Hidetaka Noro (Kobe Univ.) A dichotomy for local weak constant evasion numbers 15
- 18 Sakaé Fuchino (Kobe Univ.) Multiverse reflected down to the set-theoretic genealogy 15

September 4th (Fri) Conference Room VIII

9:10–10:30

- 19 Kohtaro Tadaki (Chubu Univ.) Confirming points and Direct PoT 15
- 20 Kenshi Miyabe (Meiji Univ.) Universality requires random resources 15
- 21 Gunnar Wilken (Okinawa Inst. of Sci. and Tech. Grad. Univ.) Direct generalization of Goodstein's theorem 15
- 22 Satoru Kuroda (Gunma Pref. Women's Univ.) Bounded reverse mathematics of Pfaffian and matchings 15
- 23 Makoto Kikuchi (Kobe Univ.) Computable functions on nonstandard models of arithmetic 15
Taishi Kurahashi (Kobe Univ.)

10:40–11:40 Talk Invited by Section on Foundation and History of Mathematics

- Yudai Suzuki b Second incompleteness theorem and reflection principles via ω -models
(Oyama Nat. Coll. of Tech.)

11:45–12:00 Research Section Assembly**14:15–17:30**

- 24 Tsubasa Kumasaka (Kobe Univ.) Fixed points in abstract provability structures 15
Taishi Kurahashi (Kobe Univ.)
- 25 Akihiro Ueshima (Kobe Univ.) On non-standard models of arithmetic with incomparable sets of theorems 15
- 26 Taishi Kurahashi (Kobe Univ.) The first incompleteness theorem and extensionality 15
Albert Visser (Utrecht Univ.)
- 27 Haruka Kogure (Kobe Univ.) Finite Kripke models and provability interpretations in quantified modal logic 15
Taishi Kurahashi (Kobe Univ.)
- 28 Leonardo Pacheco (Sci. Tokyo) A non-wellfounded proof system for the constructive μ -calculus 15
- 29 Yoàv Montacute (Nat. Inst. of Informatics) Hybrid logic with empty names 15
Yuki Nishimura (Sci. Tokyo)
Leonardo Pacheco (Sci. Tokyo)
- 30 Yoàv Montacute Halo semantics for modal logic 15
(Nat. Inst. of Informatics)
- 31 Kohei Tominaga (Kobe Univ.) Complexity of the pure logic of necessitation 15
- 32 Mashu Noguchi (Kobe Univ.) Very weak subintuitionistic logics 15
Taishi Kurahashi (Kobe Univ.)
- 33 Yuta Sato (Kobe Univ.) On modal logics in an intuitionistic setting that are neither IMLs nor CMLs 15
- 34 Nobu-Yuki Suzuki (Shizuoka Univ.) A remark on variants of the prenex normal form theorem in intermediate predicate logics 15
- 35 Eiji Yamada (Sci. Tokyo) Classifying truth patterns in iterated announcements 15

Algebra

September 1st (Tue) Conference Room IV

9:00–12:00

- 1 Akiyoshi Tsuchiya (Toho Univ.) Classification of Gorenstein simplices of maximal dimension 13
- 2 Akiyoshi Tsuchiya (Toho Univ.) Classification and counting of Gorenstein simplices with a special h^* -
polynomial 13
- 3 Koji Matsushita (Univ. of Tokyo) On toric rings associated with root systems 13
- 4 Kenta Mori (Kwansei Gakuin Univ.) Toric rings of unconditional lattice polytopes 13
Ryo Motomura (Toho Univ.)
Hidefumi Ohsugi
(Kwansei Gakuin Univ.)
Akiyoshi Tsuchiya (Toho Univ.)
- 5 Mitsuhiro Miyazaki Canonical trace radical property of some Stanley–Reisner rings 13
(Osaka Metro. Univ.)
- 6 Momonari Kudo A new criterion for Moreno-Sociás’ conjecture 13
(Fukuoka Inst. of Tech.)
Kazuhiro Yokoyama (Rikkyo Univ.*)
- 7 Jun Horiuchi (Nippon Inst. of Tech.) Demazure-type construction for certain graded rings 13
- 8 Kou Takahashi (Waseda Univ.) Defining ideals of some numerical semigroup rings with arithmetic
pseudo-Frobenius numbers 13
- 9 Akihiro Sugawara (Yamagata Univ.) Existence of a far-flung Gorenstein numerical semigroup attaining the
Herzog–Kumashiro–Stamate bound 13
- 10 Ken-ichi Yoshida (Nihon Univ.) Nearly Gorenstein Rees algebras over two-dimensional regular local
Naoki Endo (Meiji Univ.) rings 13
- 11 Kyosuke Maeda (Nihon Univ.) Classification on nearly Gorenstein rational surface singularities with
multiplicity 4 13
- 12 Yuki Mifune (Nagoya Univ.) Lower bounds for levels of bounded complexes 13

14:15–15:15 Talk Invited by Algebra Section

Norihiro Hanihara (Kyushu Univ.) Calabi–Yau structures and tilting theory for singularity categories

15:30–18:00

- 13 Ryo Kanda (Osaka Metro. Univ.) Bicompletions of abelian categories with dimension functions 13
- 14 Yuuya Otake (Univ. of Tokyo) Auslander grade condition and syzygy category 13
- 15 Yuta Kimura (Hiroshima Inst. of Tech.) Schur roots and tilting modules of path algebras over commutative rings
..... 13
- 16 Shota Inoue (Tokyo Univ. of Sci.) Braided Morita invariance of the braided cohomology of quasi-triangular
Ayako Itaba (Tokyo Univ. of Sci.) bialgebras 13
- 17 Nao Mochizuki (Nagoya Univ.) On extended module categories over truncated DG-algebras 13

18	Haigang Hu (Univ. of Sci. and Tech. of China) Izuru Mori (Shizuoka Univ.) Wenchao Wu (Shizuoka Univ.)	Classification of noncommutative central conics	13
19	Yuta Takashima (Tokyo Metro. Univ.)	Classification of objects in the singularity categories of rational double points in arbitrary characteristics	13
20	Shu Nimura (Nagoya Univ.)	Some surface geometry via quiver moduli and Bridgeland moduli	13
21	Yuki Matsubara (Univ. of Southern Denmark)	On a certain tamely ramified geometric Langlands correspondence . . .	13
22	Takuya Nemoto (Waseda Univ.)	Rank two special Ulrich bundles on the Fano threefold of degree 10 with Picard number 2	13

September 2nd (Wed) Conference Room IV

9:00–12:00

23	Tomohiro Iwami (Kyushu Inst. of Tech.)	(c_2, c_3) - or c_3 -sectional genera analogues based on certain triple covers of irregular three-folds	13
24	Yuta Takahashi (Chuo Univ.) Kiwamu Watanabe (Chuo Univ.)	On varieties with Ulrich exterior power of tangent bundles	13
25	Natsume Kitagawa (Nagoya Univ.)	Rational curves on del Pezzo varieties in positive characteristic	13
26	Yuki Kato (Kurume Nat. Coll. of Tech.)	Algebraic cobordism via spans	13
27	Saiei-Jaeyeong Matsubara-Heo (Tohoku Univ.) Simon Telen (MPI MiS)	Principal matroid determinant	13
28	Saiei-Jaeyeong Matsubara-Heo (Tohoku Univ.) Masanori Asakura (Hokkaido Univ.)	Periods of limiting mixed hodge structures of projective hypersurfaces	13
29	Atsuhira Nagano (Kanazawa Univ.)	Periods of K3 surfaces associated with a complex reflection group and meromorphic modular forms with poles in a hyperplane arrangement	13
30	Ryo Ohashi (Univ. of Tokyo)	Superspecial plane quintic curves and Gaussian hypergeometric series	13
31	Ryunosuke Nakano (Hokkaido Univ.) Keiji Matsumoto (Hokkaido Univ.)	Algebro-geometric aspects of a certain limit theorem expressed by the hypergeometric series $F(\frac{1}{6}, \frac{1}{2}, 1; x)$	13
32	Shuhei Tsujie (Hokkaido Univ. of Edu.) Masamichi Kuroda (Nippon Bunri Univ.)	The characteristic quasi-polynomials of non-crystallographic root systems H_2, H_3 , and H_4	10
33	Yukino Yagi (Univ. of Osaka) Masahiko Yoshinaga (Univ. of Osaka)	Filtered Varchenko–Gelfand algebras of hyperplane arrangements and oriented matroids	13

13:00–14:00 Talk Invited by Algebra Section

Atsushi Takahashi (Univ. of Osaka)	Mirror symmetry and full exceptional collections in derived categories
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September 3rd (Thu) Conference Room IV

9:00–12:00

- 34 Yuto Nogata (Hirosaki Univ.) Cyclotomic numbers of order $q - 1$ over $\mathbb{F}_{q^r}$ 13
Hayaki Kudo (Hirosaki Univ.)
- 35 Koichi Betsumiya (Hirosaki Univ.) Codes generated by matrices whose co-ranks are cyclotomic numbers
Yusuke Kasai (Hirosaki Univ.) 13
Hayaki Kudo (Hirosaki Univ.)
Yuto Nogata (Hirosaki Univ.)
- 36 Shusei Narumi (Hirosaki Univ.) On the number of k -full integers between successive k -th powers 13
Yohei Tachiya (Hirosaki Univ.)
- 37 Masaya Kitajima (Nagoya Univ.) Hierarchy structures of orders of astroid-type p -Bessel functions via
Erdélyi–Kober fractional calculus 13
- 38 Daniel Duverney Transcendence of Mahler-type infinite products generated by second-
(Baggio School for Engineering) degree polynomials 10
Takeshi Kurosawa (Tokyo Univ. of Sci.)
- 39 Hideto Iwata On a relation to the Riemann hypothesis and an analytic part for the
(Gunma Nat. Coll. of Tech.) divisor function 13
- 40 Reo Terada (Kyushu Univ.) Asymptotic estimates of sums of Bege’s generalized Möbius functions
..... 13
- 41 Haruka Sakai On a theorem of Turán II 13
Makoto Minamide (Yamaguchi Univ.)
Yoshio Tanigawa
- 42 Kenta Endo (Suzuka Nat. Coll. of Tech.) Denseness results for the Euler–Zagier type multiple zeta-functions with
identical arguments on the critical line 13
- 43 Takashi Miyagawa Laurent series expansions for the Barnes multiple zeta function 13
(Onomichi City Univ.)
- 44 Hikari Hanaki (Tohoku Univ.) The Littlewood–Richardson rule for Schur multiple zeta functions 13
- 45 Ku-Yu Fan (Nagoya Univ.) An explicit formula for the special values of the p -adic multiple L -
functions 13

12:00–12:30 Research Section Assembly**14:15–15:15 Talk Invited by Algebra Section**

- Wataru Kai (Tohoku Univ.)^b Linear patterns of prime elements in number fields and their connection
to Hilbert’s Tenth Problem

15:30–18:00

- 46 Sosuke Sasaki (Waseda Univ.) On the Iwasawa λ -invariant of $\mathbb{Z}_2$ -extensions of real quadratic fields
..... 13
- 47 Satoshi Fujii (Shimane Univ.) On capitulations and pseudo-null submodules in certain $\mathbb{Z}_p^d$ -extensions
..... 13
- 48 Haruma Sasaki (Tokushima Univ.) The 2-class field tower over intermediate fields of the cyclotomic $\mathbb{Z}_2$ -
extensions of certain imaginary quadratic fields 13
- 49 Yasushi Mizusawa (Rikkyo Univ.) On $\mathbb{Z}_2$ -extensions of real quadratic fields with four odd ramified prime
Yuito Saito (Rikkyo Univ.) numbers 10

50	Keiji Okano (Tsuru Univ.)	On the triviality of the unramified Iwasawa modules of the maximal multiple $\mathbb{Z}_p$ -extensions	13
51	Yasushi Mizusawa (Rikkyo Univ.) Keiji Okano (Tsuru Univ.)	Trivial Iwasawa modules and arithmetic linking numbers	10
52	Mahiro Tokizane (Univ. of Osaka)	Stark–Heegner points and the class number one problem for real quadratic fields of Richaud–Degert type	13
53	Takenori Kataoka (Tokyo Univ. of Sci.)	Construction of graph coverings with prescribed Iwasawa invariants . .	13
54	Yukiko Yanagida (Tohoku Univ.) ^b	Counting cycles in isogeny graphs via the trace of Hecke operators . . .	13
55	Jinbo Yu (Nagoya Univ.) Henrik Bachmann (Nagoya Univ.)	Schur–MacMahon q -series	13

September 4th (Fri) Conference Room IV

9:00–12:00

56	Naoki Ochi (Nagoya Univ.)	Minimum obstruction modulus of primitive, positive definite integral binary quadratic forms	13
57	Hyuga Yoshizaki (Tokyo Univ. of Sci.) Yoshinori Kanamura (NTT DATA Math. Systems Inc.)	Periodic continued fractions along the $\mathbb{Z}_2$ -extension over $\mathbb{Q}$	13
58	Yasuaki Gyoda (Nagoya Univ.)	A generalization of the discrete part of the Markov–Lagrange spectrum	13
59	Yuto Tsuruta (Tohoku Univ.)	On the finite transcendence of Frobenius traces for abelian varieties over $\mathbb{Q}$	13
60	Yuichi Shimada (Tokyo Metro. Coll. of Ind. Tech.)	A remark on modular Galois deformations	13
61	Ryoma Takeuchi (Sci. Tokyo)	A criterion for log regularity via log Frobenius–Witt differentials	13
62	Ryo Ichikawa (Tohoku Univ.)	Applications of torsion packet envelopes to Diophantine problems	13
63	Hohto Bekki (Saga Univ.)	On integral representations of Catalan’s constant and Apéry’s constant	13
64	Sin Yi Tsang (Ochanomizu Univ.)	Skew braces with a trivial automorphism group	13
65	Xichuan Tan (Univ. of Tsukuba)	Log chiral de Rham complex and A_n -singular surfaces	13
66	Hiroshi Yamauchi (Tokyo Woman’s Christian Univ.) Ching Hung Lam (Academia Sinica)	Classification of real forms of lattice vertex algebras	13
67	Kenichiro Tanabe (Tokyo City Univ.)	On irreducible weak modules for the fixed-point subalgebra of the Heisenberg vertex operator algebra	13

14:15–15:15 Talk Invited by Algebra Section

Hideya Watanabe (Rikkyo Univ.)	Quantum coordinate coalgebras and bi- ι -crystals
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15:30–18:00

68	Keitaro Shiizuka (Kindai Univ.)	Crossed Burnside rings for groupoids	13
69	Fumihito Oda (Kindai Univ.)	Deflation map and the sum of inverses of the element orders in finite groups	10
70	Takuma Byakuno (Kansai Univ.) Xin Ren (Osaka Metro. Univ.) Kohji Yanagawa (Kansai Univ.)	Finiteness of specializations of the q -deformed modular group at roots of unity	13
71	Masaya Yanaka (Univ. of Tsukuba)	Lie algebras of Suzuki and Ree groups over twisted rings	13
72	Shingo Okuyama (Nat. Inst. of Tech., Kagawa Coll.) Yasuhiro Omoda (Nat. Inst. of Tech., Akashi Coll.) Kazunori Nakamoto (Univ. of Yamanashi)	On the m -thickness of the irreducible representations of S_n for $n \leq 5$	13
73	Yasuhiro Omoda (Nat. Inst. of Tech., Akashi Coll.) Kazunori Nakamoto (Univ. of Yamanashi)	On m -thick representations of simple Lie groups	13
74	Liron Speyer (Okinawa Inst. of Sci. and Tech. Grad. Univ.)	A small counterexample to James's conjecture	13
75	Sota Asai (Univ. of Tokyo)	Bicompact torsion classes and conjectures on brick infinite algebras . .	13
76	Kohei Yahiro (Kyoto Univ.) Yasuaki Hiraoka (Kyoto Univ.)	Irreducible components for 2×3 commutative ladder persistence	13
77	Shuji Fujino (Tokyo Univ. of Sci.) Yuta Kozakai (Tokyo Univ. of Sci.)	Construction of two-sided tilting complexes sending simples to shifts of modules	13

Geometry

September 1st (Tue) Conference Room III

9:30–12:00

1	Yasunori Kimura (Toho Univ.) Kenzi Satō (Tamagawa Univ.)	A new Euler geodesic of a spherical or hyperbolic triangle	10
2	Yasuo Matsuda	On the curvature circles of the cycloid curves	15
3	Yoichi Maeda (Tokai Univ.)	A three-dimensional model of $SL(2, \mathbb{R})$ with hyperboloid of two sheets, and the visualization of its group structure	10
4	Atsushi Kameyama (Gifu Univ.)	Polygonal common fundamental domains for lattices in the plane	15
5	Yuhei Kogo (Hokkaido Univ.)	Finite-gap solutions of the Pohlmeyer–Lund–Regge equation and the associated curve evolution	15

6	Katsuhiro Moriya (Univ. of Hyogo)	A representation formula for minimal timelike surfaces in the four-dimensional pseudo-Euclidean space of index two	10
7	Reiko Miyaoka (Tohoku Univ.)	Chern's conjecture in the Dupin case	10
8	Riku Kishida (Sci. Tokyo)	A new framework of zero mean curvature surfaces in the isotropic 3-space	15
9	Shuhei Katsuta (Nagoya Univ.)	A proof of the Fujimoto conjecture via planar networks	15
14:15–16:45			
10	Haruka Sugai (Tokyo Univ. of Sci.)	Classification of five-dimensional homogeneous manifolds of negative curvature	15
11	Isami Koga (Kyushu Int. Univ.) Masaro Takahashi (Kurume Nat. Coll. of Tech.) Yasuyuki Nagatomo (Meiji Univ.)	Rigidity of equivariant harmonic maps from the sphere into the Grassmannians	15
12	Ryusei Tsukada (Hiroshima Univ.)	Split Dynkin indices for real semisimple symmetric pairs	15
13	Makiko Sumi Tanaka (Tokyo Univ. of Sci.) Hiroyuki Tasaki (Tokyo Metro. Univ./Univ. of Tsukuba)	Geometry of oriented Lagrangian Grassmann manifolds	15
14	Hiroaki Nagaya (Hiroshima Univ.)	A properness criterion for group actions of solvable groups	15
15	Muneto Miyaji (Hiroshima Univ.)	A geometric interpretation of generalized Hurwitz–Radon numbers defined by Kannaka–Tojo	15
16	Kazuyuki Hasegawa (Kanazawa Univ.)	Quaternionic complex manifolds and fixed-point sets of S^1 -actions	15
17	Yusei Aoki (Hakodate Nat. Coll. of Tech.)	Conjugate and focal values along Legendre trajectories on totally η -umbilic real hypersurface	10

September 2nd (Wed) Conference Room III

10:00–10:15 Presentation Ceremony for the 2026 MSJ Geometry Prize

10:20–11:20 Award Lecture for the 2026 MSJ Geometry Prize

Shinpei Baba (Univ. of Osaka) Complex projective structures on a Riemann surface and representations of the surface group

13:00–14:00 Award Lecture for the 2026 MSJ Geometry Prize

Kouichi Yasui (Univ. of Osaka) Exotic smooth structures on 4-manifolds and genus functions

September 3rd (Thu) Conference Room III

9:30–11:45

18	Yusuke Shiobara (Shinshu Univ.)	Towards Riemannian diffeology	15
19	Ryota Nakano (Waseda Univ.)	Trace-class vacuum Einstein equations on ℓ^2 -manifolds and spherical rigidity	15
20	Rongkai Zhang (Univ. of Osaka)	Rigidity of the Borell–Brascamp–Lieb inequality	10

15 Geometry

21	Hikaru Kubota (Univ. of Osaka)	Lorentz Hausdorff measure and coarea inequality	15
22	Tomohiro Fukaya (Tokyo Metro. Univ.) Ikkei Sato (Tokyo Metro. Univ.)	The Tits boundary of coarsely convex spaces	15
23	Shota Hamanaka (Univ. of Tsukuba)	Weighted ADM mass and weighted Yamabe flow	15
24	Shun Maeta (Chiba Univ.)	Rotational symmetry and classification of complete gradient Yamabe solitons	15

14:15–16:00

25	Kei Funano (Tohoku Univ.) ^b	A study of the distribution of eigenvalues of the Laplacian on convex domains	10
26	Moe Fujii (Nagoya Univ.)	Steklov first-eigenvalue maximization and maximization of the variance of maps on the boundary	15
27	Kazumasa Narita (Yonago Nat. Coll. of Tech.)	Second variation formula for the Laplace eigenvalue functional on closed manifolds	15
28	Tomoya Nakamura (Kogakuin Univ.) Naoki Kimura (Tokyo Univ. of Sci.)	Correspondence of Koszul–Vinberg structures with Poisson structures, and of Jacobi–Koszul–Vinberg structures with Jacobi structures	15
29	Tomoya Nakamura (Kogakuin Univ.) Naoki Kimura (Tokyo Univ. of Sci.)	Correspondence of Koszul–Vinberg–Nijenhuis structures with Poisson–Nijenhuis structures, and of compatible Koszul–Vinberg pairs with compatible Poisson pairs	15
30	Naoki Kimura (Tokyo Univ. of Sci.) Tomoya Nakamura (Kogakuin Univ.)	Examples of Jacobi–Koszul–Vinberg structures, Koszul–Vinberg structures, Jacobi structures, and Poisson structures on $\mathbb{R}^n$ and their characteristic foliations	10

16:15–17:15 Talk Invited by Geometry Section

Tadashi Fujioka (Fukuoka Univ.)	Recent developments in Busemann geometry
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September 4th (Fri) Conference Room III

9:30–11:45

31	Xiaozhou Zhou (Ritsumeikan Univ.)	Quandle presentations of surface knots in 4-manifolds and bridge numbers	15
32	Lucas Henrique Silveira Gomes (Univ. of Osaka)	On the classification of transverse Calabi–Yau Vaisman manifolds	15
33	Satoshi Jinnouchi (Univ. of Osaka)	The equality condition of the Bogomolov–Gieseker inequality for nef and big classes	15
34	Natsuo Miyatake (Tohoku Univ.)	On the uniqueness of complete solutions and strong Liouville property for weak subsolutions of elliptic equations	15
35	Yudai Hateruma (Waseda Univ.)	Distinguished bases and the braid group action for solutions of the tt^* -Toda equations	15
36	Hayato Nakanishi (Chiba Univ.) Yat-Hin Suen (National Cheng Kung Univ.)	Multi-valued Morse homotopy for the SYZ mirror of the complex projective plane	15
37	Masao Jinzenji (Okayama Univ.)	Geometrical proof of generalized mirror transformation for multi-point virtual strcutre constants of projective hypersurfaces	15

14:15–16:15

38	Kota Baba (Nagoya Univ.)	Multiple zeta values and logarithmic integrals of Kontsevich graphs	15
39	Shuhei Yonehara (Yonago Nat. Coll. of Tech.)	Godbillon–Vey classes of Lie subalgebroids	15
40	Kaito Kayo (Hokkaido Univ.)	Projective flatness of coherent tangent bundles and affine immersions	10
41	Kaori Yamaguchi (Ritsumeikan Univ.)	Characterization of δ -almost sufficient statistics via KL divergence ...	15
42	Ryu Ueno (Chitose Inst. of Sci. and Tech.)	Classification of doubly totally-umbilical submanifolds in the probability simplex	15
43	Hideyuki Ishi (Osaka Metro. Univ.) Hikoza Kobayashi (Hiroshima Univ.) Takayuki Okuda (Hiroshima Univ.)	Invariant statistical connections on the multivariate centered Gaussian model and their moduli spaces	15

Complex Analysis

September 1st (Tue) Conference Room V

9:30–11:10

1	Akira Ushijima (Univ. of Hyogo) Toshihiro Nakanishi (Osaka Metro. Univ.)	Determination of Dirichlet fundamental polygons for triangle groups generated by hyperbolic triangles with ultraideal vertices	10
2	Shunji Horiguchi	Newton–Mandelbrot set	15
3	Joe Kamimoto (Kyushu Univ.) Hiromichi Mizuno (Kyushu Sangyo Univ.) Toshihiro Nose (Fukuoka Inst. of Tech.)	Analytic continuation of local zeta functions to a slit complex plane	15
4	Hiroaki Aikawa (Chubu Univ.)	Everywhere divergence of tangential parabolic limits of Gauss–Weierstrass integrals	15
5	Ikkei Hotta (Yamaguchi Univ.) Sebastian Schleißinger (Univ. of Würzburg)	Problems related to conformal slit-mappings	15
6	Katsuhiko Matsuzaki (Waseda Univ.) Fei Tao (Waseda Univ.)	Boundary characterizations of little Bloch and VMOA functions on the half-plane	15

14:20–15:20 Talk Invited by Complex Analysis Section

Kentaro Hirata (Hiroshima Univ.)	Potential analysis regarding removability of singularities and asymptotic behavior of solutions to semilinear elliptic equations
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15:40–16:50

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| 7 | Hiroshige Shiga
(Osaka Metro. Univ./Sci. Tokyo*) | Thompson's groups and Teichmüller modular groups of generalized Cantor sets (Part I) | 15 |
| 8 | Hiroshige Shiga
(Osaka Metro. Univ./Sci. Tokyo*) | Thompson's groups and Teichmüller modular groups of generalized Cantor set (Part II) | 15 |
| 9 | Yoshihiko Shinomiya (Shizuoka Univ.) | On curve graphs of hyperelliptic translation surfaces | 15 |
| 10 | Hiromichi Ono (Kyoto Univ.) | Uniform perfectness of the limit sets of conformal tree iterated function systems | 15 |

September 2nd (Wed) Conference Room V

9:30–11:10

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| 11 | Hidetaka Hamada
(Kyushu Sangyo Univ.*)
Tatsuhiro Honda (Senshu Univ.)
Mirela Kohr (Babeş -Bolyai Univ.) | Bohr–Rogosinski radius in complex Banach spaces | 15 |
| 12 | Takanori Ayano (Osaka Metro. Univ.) | Degenerate limit of the abelian functions associated with a bielliptic hyperelliptic curve of genus 2 | 15 |
| 13 | Tadashi Takahashi
(Hagoromo Univ. of Int. Stud.) | b A computer algebraic study on plane sextic curves | 15 |
| 14 | Masanori Adachi (Shizuoka Univ.)
Seungjae Lee
(Kyungpook National Univ.)
Aeryeong Seo
(Kyungpook National Univ.) | Intermediate pseudoconvexity of fiber bundles | 15 |
| 15 | Takayuki Koike (Univ. of Tsukuba) | Formal principle for line bundles on neighborhoods of an analytic subset of a compact Kähler manifold | 15 |
| 16 | Takeo Ohsawa (Nagoya Univ.) | b On complete Kähler Riemann domains | 15 |

13:00–14:00 Talk Invited by Complex Analysis Section

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| Atsushi Atsuji | (Keio Univ.) | Diffusion processes on Kähler manifolds and the value distribution of holomorphic maps —From the perspective of Itô calculus— |
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Functional Equations

September 1st (Tue) Conference Room II

9:00–12:00

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| 1 | Saiei-Jaeyeong Matsubara-Heo
(Tohoku Univ.)
Simon Telen (MPI MiS) | Matroid hypergeometric systems | 10 |
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2	Yasuhisa Saito (Shimane Univ.)	Delay placement and global stability in delayed Lotka–Volterra systems	10
3	Tomoyuki Tanigawa (Osaka Metro. Univ.) Hiroyuki Usami (Gifu Univ.) Jaroslav Jaroš (Comenius Univ.)	Existence of oscillatory solutions and localization of zeros for forced half-linear differential equations	10
4	Hiroyuki Usami (Gifu Univ.*) Tomoyuki Tanigawa (Osaka Metro. Univ.)	Multiplicities of local solutions of IVP's to forced half-linear ordinary differential equations	10
5	Wei Zheng (Heilongjiang Univ.) Hideaki Matsunaga (Osaka Metro. Univ.)	Stability sets for fractional differential equations with two delays	10
6	Kazuki Ishibashi (Shimane Univ.)	Wintner-type asymptotic behavior for linear differential systems with a proportional derivative controller	10
7	Junya Nishiguchi (Setsunan Univ./Tohoku Univ.)	Structural Origin of the Hale Bilinear Form: From the Viewpoint of the Green and Lagrange Identities	10
8	Hiroyuki Yamagishi (Tokyo Metropolitan Coll. of Indus. Tech.) Kohtaro Watanabe (Nat. Defense Acad. of Japan) Atsushi Nagai (Tsuda Coll.)	The best constants of the Sobolev and the Sobolev-type inequalities corresponding to forth order partial differential equation	10
9	Tetsutaro Shibata (Hiroshima Univ.*)	Asymptotic behavior of bifurcation curves of nonlocal logistic equation of population dynamics	10
10	Ryuji Kajikiya (Osaka Electro-Comm. Univ.) Mieko Tanaka (Tokyo Univ. of Sci.) Satoshi Tanaka (Tohoku Univ.)	Estimates of the best constant for the Sobolev–Poincaré inequality ...	10
11	Ryuji Kajikiya (Osaka Electro-Comm. Univ.)	Partially symmetric solutions of the Hénon equation in unbounded domains	10
12	Tomoharu Kinoshita (Waseda Univ.) Yohei Sato (Saitama Univ.)	On the existence of vector solutions to nonlinear Schrödinger equations with weak three wave interaction	10
13	Xiaojun Chang (Northeast Normal Univ.) Yuki Osada (Tokyo Univ. of Sci.) Yohei Sato (Saitama Univ.)	Normalized solutions for the nonlinear Schrödinger system with three wave interaction for the L^2 -supercritical case	10
14	Yu Su (Anhui Univ. of Sci. and Tech.) Tatsuya Watanabe (Kyoto Sangyo Univ.)	Characterization of ground state solutions for Schrödinger–Poisson system with critical strength of interaction	10
14:15–16:30			
15	Naoki Hamamoto (Waseda Univ.) ^b	Hardy constant for vector fields on the ball	10
16	Sho Katayama (Keio Univ.) Weiwei Ao (Wuhan Univ.) Juncheng Wei (Chinese Univ. of Hong Kong)	Construction of boundary singular solutions to a semilinear elliptic equation	10

17	Kenta Kumagai (Univ. of Tokyo)	Bifurcation structure of semilinear elliptic equations in a ball	10
18	Takashi Suzuki (Osaka Univ.)	Onsager theory of point vortices —recursive hierarchy in relaxation time	5
19	Reiri Miyamoto (Tokyo Univ. of Sci.)	Existence and nonexistence of global-in-time solutions to semilinear heat equations with potentials and spatial weights	10
20	Masamitsu Suzuki (Meiji Univ.)	Local existence and nonexistence for fractional semilinear parabolic systems with singular initial data	10
21	Yusuke Yamauchi (Hiroshima Inst. of Tech.)	Weighted gap conditions for minimal-time blow-up in semilinear heat equations	10
22	Kotaro Hisa (Fukuoka Univ.) Jin Takahashi (Sci. Tokyo) Erbol Zhanpeisov (Tohoku Univ.)	Infinite time blow-up and slow decay for the six dimensional energy- critical heat equation with self-similarly decaying initial data	10
23	Kotaro Hisa (Fukuoka Univ.) Yasuhito Miyamoto (Univ. of Tokyo)	Non-uniqueness of positive solutions for supercritical semilinear heat equations without scale invariance	10
24	Yuri Soga (Tohoku Univ.)	A classification of behaviors of solutions to a chemotaxis system in supercritical dimensions	10
25	Yuri Soga (Tohoku Univ.) Grzegorz Karch (Univ. of Wrocław)	Asymptotic behaviors of solutions for aggregation-diffusion equations with nonlocal interaction	10

17:00–18:00 Talk Invited by Functional Equations Section

Kotaro Watanabe (Nat. Defense Acad. of Japan)	Applications of isometries on annuli and spheres to the shape evaluation problem of positive solutions for semilinear elliptic equations
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September 2nd (Wed) Conference Room II

9:00–12:00

26	Yuta Koizumi (Waseda Univ.)	Space-time analyticity for the parabolic-parabolic Keller–Segel–Navier– Stokes equations	10
27	Yuta Koizumi (Waseda Univ.)	Space-time analyticity for the parabolic-elliptic Keller–Segel–Navier– Stokes equations	5
28	Khadijeh Baghaei (PIAIS) Yutaro Chiyo (Tokyo Univ. of Sci.) Chihaya Machino (Tokyo Univ. of Sci.) Tomomi Yokota (Tokyo Univ. of Sci.)	Boundedness in an indirect chemotaxis-consumption model with signal- dependent sensitivity	10
29	Alessandro Columbu (Univ. of Cagliari) Shohei Kohatsu (Tokyo Univ. of Sci.) Monica Marras (Univ. of Cagliari)	Finite-time blow-up in flux-limited chemotaxis systems with nonlinear signal production	10
30	Tatsuya Hosono (Osaka Metro. Univ.) ^b	Global existence at critical mass for the parabolic-parabolic Keller–Segel system on the plane	10
31	Hiroshi Wakui (Univ. of Fukui) Nobuhito Miyake (Kyushu Univ.) Tetsuya Yamada (Fukui Nat. Coll. of Tech.)	Stability of the critical constant steady state of a drift-diffusion equation	10

32	Takasi Senba (Kanagawa Univ.) <u>Yūki Naito</u> (Hiroshima Univ.)	Infinite time blow-up of solutions to the classical Keller–Segel system in higher dimensions	10
33	Kyogo Murai (Tohoku Univ.)	Existence of global weak solutions to quasilinear Keller–Segel systems by minimizing movement in the weighted Wasserstein metrics	10
34	Masakazu Yamamoto (Gunma Univ.)	Nonlinear profiles of solutions to the drift-diffusion equation	10
35	Naoto Kajiwara (Gifu Univ.) Ken Furukawa (Univ. of Toyama) Yoshikazu Giga (Univ. of Tokyo)	Solutions to a one-dimensional combustion-type free boundary problem via maximal regularity	10
36	Ken Furukawa (Univ. of Toyama) Naoto Kajiwara (Gifu Univ.) Yoshikazu Giga (Univ. of Tokyo)	Solvability of the free boundary heat equation arising from the combustion problem	10
37	Yu Ichida (Meiji Univ.)	Minimal speed of unbounded traveling wave solutions for a certain 1D reaction-diffusion equation	10
38	<u>Kai Koike</u> (Keio Univ.) Vincent Laheurte (Univ. Luxembourg) Franck Sueur (Univ. Luxembourg)	Uniform null-controllability of the one-dimensional Allen–Cahn equation	10
39	Masahiko Shimojo (Tokyo Metro. Univ.) Arnaud Ducrot (Univ. Le Havre Normandie) Jong-Shenq Guo (Tamkang Univ.)	Stability of traveling waves in non-cooperative systems with nonlocal dispersal of general diffusivities	10
40	<u>Ryo Ito</u> (Kanagawa Univ.) Hirokazu Ninomiya (Meiji Univ.)	Non-global unbounded traveling wave solutions of reaction-diffusion equations	10

13:00–14:00 Talk Invited by Functional Equations Section

Junichi Harada (Akita Univ.)	Asymptotic behavior of solutions to the energy critical Fujita equation in 5D and 6D
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September 3rd (Thu) Conference Room II

9:15–12:00

41	Hilhorst Danielle (Paris-Saclay Univ.) <u>Yasuhito Miyamoto</u> (Univ. of Tokyo) Kimie Nakashima (Tokyo Univ. of Marine Sci. and Tech.)	Convergence to a self-similar solutions for a two phase Stefan problem with zero latent heat	10
42	Fuya Hiroi (Univ. of Tokyo)	Area-preserving curvature flow for open curves with general contact angles on skew lines	10
43	Tatsuya Miura (Kyoto Univ.) <u>Kensuke Yoshizawa</u> (Nagasaki Univ.)	Stability of flat-core pinned p -elasticae	10
44	Slim Ibrahim (Univ. of Victoria) Tatsuya Miura (Kyoto Univ.) Carlos Román (UC Chile) <u>Ikkei Shimizu</u> (Kyoto Univ.)	Phase transition thresholds and chiral magnetic fields of general degree	10
45	Kotaro Motegi (Sci. Tokyo)	Dynamical instability of minimal surfaces	10

46	Daichi Aoki (Waseda Univ.)	Interior Hölder estimates for fully nonlinear parabolic equations with superlinear gradient terms of subpolynomial growth	10
47	Daichi Aoki (Waseda Univ.)	An intrinsic weak Harnack inequality for fully nonlinear elliptic equations with superlinear gradient terms	10
48	Yoshiki Kaiho (Tohoku Univ.)	Higher integrability for very weak solutions of higher-order elliptic equations with double phase growth	10
49	Yuina Sato (Tohoku Univ.) ^b	Asymptotic behavior of viscosity solutions to parabolic p -Laplace equations of nondivergence form as $p \rightarrow \infty$ and its applications	10
50	Xiaowen Wang (Waseda Univ.)	Hölder estimates on the gradient of viscosity solutions of degenerate Bellman type equations involving p -Laplacian type operators	10
51	Qing Liu (Okinawa Inst. of Sci. and Tech. Grad. Univ.) Made Benny Prasetya Wiranata (Okinawa Inst. of Sci. and Tech. Grad. Univ.)	Stability for Monge solutions of eikonal equations in metric spaces . . .	10
52	Keigo Morishita (Tohoku Univ.)	A rigorous computational proof of large-radius non-existence of the Dirichlet trapped mode	10
53	Shun Tsuhara (Univ. of Osaka)	Well-posedness for NLS with nonlinear interior and boundary interactions in the half-space	10
14:15–16:30			
54	Isamu Dôku (Saitama Univ.*) Shunya Hashimoto (Kyoto Univ.) Shuji Machihara (Saitama Univ.)	Exponential decay of L^2 -solutions to stochastic nonlinear Schrödinger equations driven by continuous martingales	10
55	Noriyoshi Fukaya (Univ. of Shiga Pref.) Masayuki Hayashi (Kyoto Univ.)	Instability theory of stationary solutions for nonlinear Schrödinger equations	10
56	Koichi Komada (Waseda Univ.) ^b	Scattering below the ground state for the mass-subcritical generalized Boussinesq equation	10
57	Masaki Kawamoto (Okayama Univ.) Satoshi Masaki (Hokkaido Univ.) Hayato Miyazaki (Kagawa Univ.)	Global-in-time solutions and scattering for nonlinear Schrödinger equations with nonlinearities below the Strauss exponent	10
58	Soichiro Katayama (Univ. of Osaka) Satoshi Masaki (Hokkaido Univ.)	Global existence and the asymptotic behavior for systems of derivative NLS equations under the bounded weak null gauge condition	10
59	Yohei Yamazaki (Yamaguchi Univ.)	Linear stability of line solitary waves in two dimensional Fermi–Pasta–Ulam lattices	10
60	Masaru Hamano (Kyoto Univ.) Hiroaki Kikuchi (Tsuda Coll.) Kenta Tomioka (Tsuda Coll.)	Instability of the Klein–Gordon–Schrödinger system	10
61	Eiji Onodera (Kochi Univ.)	Local well-posedness for a fourth-order nonlinear dispersive system on the 1D torus	10
62	Takuya Sato (Ehime Univ.) ^b Naoyasu Kita (Kumamoto Univ.) Hayato Miyazaki (Kagawa Univ.)	Large-data L^2 -decay for attractive-dissipative nonlinear Schrödinger equations without the strong dissipative condition	10
63	Toshiki Kondo (Hiroshima Univ.) Mamoru Okamoto (Hiroshima Univ.)	Norm inflation for quadratic derivative fractional nonlinear Schrödinger equations	10

64 Sonae Hadama (Univ. of Osaka) Optimal well-posedness of the cubic NLS system on the 1D torus · · · · 10
 Andrew Rout (Politecnico di Milano)

17:00–18:00 Talk Invited by Functional Equations Section

Hiroshi Takeda (Fukuoka Univ.)^b Asymptotic behavior of elastic waves for large time

September 4th (Fri) Conference Room II

9:00–12:00

65	<u>Mishio Kawashita</u> (Hiroshima Univ.) <u>Wakako Kawashita</u> (Hiroshima Univ.)	Asymptotic behavior of the indicator function in an inverse problem for the wave equation in media with cavities and inclusions	10
66	<u>Mishio Kawashita</u> (Hiroshima Univ.) <u>Wakako Kawashita</u> (Hiroshima Univ.)	Analysis for inverse problems for active sonar type using modified asymptotic solutions	10
67	<u>Soichiro Katayama</u> (Univ. of Osaka) <u>Kyouhei Wakasa</u> (Muroran Inst. of Tech.)	Lifespan of small solutions to semilinear hyperbolic systems in one space dimension	10
68	<u>Soichiro Katayama</u> (Univ. of Osaka) <u>Yoshinori Nishii</u> (Univ. of Osaka) <u>Kyouhei Wakasa</u> (Muroran Inst. of Tech.)	A note on the decay estimates for weighted semilinear wave equations in one space dimension	10
69	<u>Soichiro Katayama</u> (Univ. of Osaka) <u>Satoshi Masaki</u> (Hokkaido Univ.)	Global existence and the asymptotic behavior for systems of semilinear wave equations under the bounded weak null condition	10
70	<u>Fumihiko Hirosawa</u> (Yamaguchi Univ.)	On the smoothness and oscillation of coefficients in for energy decay estimates of weak dissipative wave equations	10
71	<u>Taro Yamanoi</u> (Tokyo Univ. of Sci.) <u>Yusuke Sugiyama</u> (Tokyo Univ. of Sci.)	Limit of the lifespan of classical solutions to 1D quasilinear wave equations	10
72	<u>Shunta Okajima</u> (Tokyo Univ. of Marine Sci. and Tech.) <u>Naofumi Mori</u> (Tokyo Univ. of Marine Sci. and Tech.)	Decay property for the Timoshenko system with two types of weak damping	10
73	<u>Yoshihiro Ueda</u> (Kobe Univ.) <u>Shih-Hsien Yu</u> (Academia Sinica)	Scalar viscous conservation law with time-shift coupled nonlinearity . .	10
74	<u>Kosuke Shibuya</u> (Tohoku Univ.) ^b <u>Masakazu Yamamoto</u> (Gunma Univ.)	Nonlinear effects on the asymptotic expansion of the Burgers equation with the half Laplacian	10
75	<u>Yucong Huang</u> (Sci. Tokyo) <u>Shinya Nishibata</u> (Sci. Tokyo) <u>Akitaka Matsumura</u> (Osaka Univ.*)	Asymptotic stability for the outflow problem of viscous, heat-conductive, ideal polytropic gas	10
76	<u>Yoshiki Iida</u> (Kyoto Univ.) <u>Keiichi Watanabe</u> (Suwa Univ. of Sci.)	Critical regularity approach to the two-dimensional compressible viscous surface wave equations	10
77	<u>Masashi Aiki</u> (Tokyo Univ. of Sci.) <u>Mitsuo Higaki</u> (Kobe Univ.)	Stability of the shape for circular vortex filaments under non-symmetric perturbations	10
78	<u>Masashi Aiki</u> (Tokyo Univ. of Sci.) <u>Mitsuo Higaki</u> (Kobe Univ.)	Lyapunov unstable motion bifurcating from a circular vortex filament	10

14:15–16:15

- 79 Tomoaki Yoshizawa (Univ. of Tokyo) Global well-posedness and temporal decay estimates for the viscous β -plane equations 10
- 80 Toi Fujimura (Tokyo Univ. of Sci.) Asymptotic behavior of solutions to the one-dimensional p -system with
Motohiro Sobajima time-dependent damping 10
(Tokyo Univ. of Sci.)
- 81 Taiki Okazaki (Tohoku Univ.) Uniqueness of the sub-critical SQG without time-continuity assumption 10
- 82 Kento Sube (Waseda Univ.) Well-posedness of the MHD-Boussinesq equations in scaling invariant Besov spaces via maximal Lorentz regularity 10
- 83 Shiro Taniguchi (Waseda Univ.) A Liouville-type theorem for the stationary MHD equations in three space dimensions 10
- 84 Motofumi Aoki (Tokyo Univ. of Sci.) On a sufficient condition for conservation laws of 3D MHD equations in a bounded domain 10
- 85 Denghui Ren (Waseda Univ.) L^∞ bounds under Lorentz integrability conditions on external forces for the 2D Navier–Stokes system 10
- 86 Taiki Takeuchi (Kyushu Univ.) Decay rates of global solutions to the Navier–Stokes system in homogeneous Besov spaces 10
- 87 Mikihiro Fujii (Nagoya City Univ.) Non-uniqueness for the Navier–Stokes equations in scaling Besov spaces 10
- 88 Lorenzo Brandolese (Univ. Lyon 1) Linear and nonlinear interaction of the incompressible dissipative Navier–
Takahiro Okabe (Yokohama Nat. Univ.) Stokes flow 10
Taku Yanagisawa (Waseda Univ.)

16:30–17:30 Talk Invited by Functional Equations Section

- Kazuyuki Tsuda An approach to a moving boundary problem for the Navier–Stokes
(Kyushu Sangyo Univ.) equations in weighted function spaces

Real Analysis

September 3rd (Thu) Conference Room V

9:30–11:45

- 1 Naoya Hatano (Univ. of Osaka) Local-type estimate for the mean oscillation of rearrangements 15
- 2 Takashi Miyamoto On the r -integrability of non-strongly measurable functions taking val-
(Osaka Kyoiku Univ.) ues in Orlicz spaces 15
Hiroo Kita (Kagoshima Univ.*)
Naoko Ogata (Kobe Univ.)
- 3 Ryota Kawasumi (Gunma Univ.) The boundedness of generalized fractional maximal operators on Orlicz and weak Orlicz spaces with respect to Hausdorff capacity 15
- 4 Hiroki Saito (Nihon Univ.) Diagonal trace inequalities in Choquet–Lorentz spaces 15

- 5 Gaku Sadasue (Osaka Kyoiku Univ.) Gagliardo–Nirenberg inequality for generalized fractional integrals on
Eiichi Nakai (Ibaraki Univ.) martingale Musielak–Orlicz and Musielak–Orlicz Hardy spaces 15
Satoshi Yamaguchi (Hitotsubashi Univ.)
- 6 Yukino Tomizawa A refinement of the triangle inequality in Busemann spaces and its
(Niigata Inst. of Tech.) extensions 15
- 7 Ryoji Fukuda (Oita Univ.) Uniform structure of Shilkret function space $\mathcal{L}^1(Sh)$ 15
Aoi Honda (Kobe Univ.)
Yoshiaki Okazaki
- 8 Jun Kawabe (Shinshu Univ.) Continuous Sugeno integral representation theorems in an abstract
setting 15
- 14:15–15:25**
- 9 Kotaro Inami (SUSTech) Strichartz estimates for quasi-periodic functions: An arithmetic per-
spective 15
- 10 Yanhan Chen (Kyoto Univ.) Weighted inequalities for variation operators associated with fractional
Schrödinger semigroups 15
- 11 Isamu Ohnishi (Hiroshima Univ.) A variational proof of the Ryu–Takayanagi formula in non-compact
gauge theories from Lie-algebraic observable-dependent renormalization
..... 15
- 12 Isamu Ohnishi (Hiroshima Univ.) The universal bridge theorem: Spectral-geometric norm-expectation
correspondence in compressed LA-ODR algebras 15

15:40–16:40 Talk Invited by Real Analysis Section

- Naohito Tomita (Univ. of Osaka) On the boundedness of bilinear pseudo-differential operators

September 4th (Fri) Conference Room V

10:00–12:00

- 13 Daisuke Kubota (Chiba Univ.) Large-time behavior for inhomogeneous pseudo-parabolic KWC systems
Naotaka Ukai (Chiba Univ.) with time-dependent coefficients 15
Ken Shirakawa (Chiba Univ.)
Daiki Mizuno
(Waseda Senior High School)
- 14 Naotaka Ukai (Chiba Univ.) A coupled system of a pseudo-parabolic PDE and a regularized 1-
Ken Shirakawa (Chiba Univ.) harmonic map-type flow with unknown-dependent anisotropy 15
- 15 Hana Kakiuchi (Japan Women's Univ.) Behavior of free boundaries to two-phase Stefan problems with time
Toyoiko Aiki (Japan Women's Univ.) dependent latent heat term 15
- 16 Kouta Araki (Nihon Univ.) Long-time behavior of the dissipation function for a nonlinear Fokker–
Masashi Mizuno (Nihon Univ.) Planck model with inhomogeneous diffusion and numerical observation
..... 15
- 17 Kiyoshi Nakashima Refined existence results for a porous medium type equation with
(Tokyo Univ. of Sci.) Neumann boundary condition 15
Tomomi Yokota (Tokyo Univ. of Sci.)
- 18 Osuke Shibata (Tokyo Univ. of Sci.) Global existence and uniqueness of weak solutions to volume-filling
chemotaxis systems with source terms 15

- 19 Yutaro Chiyo (Tokyo Univ. of Sci.) Global boundedness and large-time behavior in a viscous Burgers equation with time delay 15
Shusuke Harashima
 (Tokyo Univ. of Sci.)
Tomomi Yokota (Tokyo Univ. of Sci.)

14:15–15:45

- 20 Chiharu Kosugi (Yamaguchi Univ.) Existence of weak solutions for the elastic curve model generated by
Toyohiko Aiki (Japan Women's Univ.) the free energy depending on the curvature 15
- 21 Yoshiho Akagawa (Kyoto Univ. of Edu.) An evolution inclusion for an elasto-plastic model with a plastic-strain-
Kazunori Matsui dependent constraint 15
 (Tokyo Univ. of Marine Sci. and Tech.)
- 22 Takeshi Fukao (Ryukoku Univ.) Permeability parameter asymptotics in a Cahn–Hilliard equation with
Pierluigi Colli (Univ. di Pavia) Robin boundary conditions 15
Kei Fong Lam
 (Hong Kong Baptist Univ.)
- 23 Isamu Ohnishi (Hiroshima Univ.) A universal constraint for relaxation rates in infinite-dimensional quantum Markov semigroups: Gaussian systems and complete positivity beyond finite dimensions 15
- 24 Naoki Tanaka (Shizuoka Univ.) Mild solutions for dissipative operators in metric spaces with an admissible family of geodesics 15

16:00–17:00 Talk Invited by Real Analysis Section

- Yuya Tanaka (Kwansei Gakuin Univ.) Behavior of solutions to chemotaxis systems with growth and damping terms

Functional Analysis

September 1st (Tue) Conference Room I

9:30–10:30

- 1 Shuji Watanabe An operator-theoretical treatment of the BCS gap equation with a
 (Gunma Univ.* / Sanjo City Univ.) uniform external magnetic field and a function potential 15
- 2 Wataru Ichinose (Shinshu Univ.) A formulation of the propagator approach to quantum electrodynamics via Feynman path integrals 15
- 3 Shosuke Omori (Hosei Univ.) Rigged Hilbert space formulation for a quasi-Hermitian operator in composite system II 15
- 4 Shinichi Arita (Univ. of Tokyo) Algebraic radiation condition for the massless Dirac–Helmholtz equation 15
Kenichi Ito (Kobe Univ.)

14:20–15:30

- 5 Itaru Sasaki (Shinshu Univ.) Representation theory of canonical commutation relations arising from the quantization of the Klein–Gordon equation with an external potential 15
Akito Suzuki (Komatsu Univ.)
Yasumichi Matsuzawa (Shinshu Univ.)
- 6 Masaki Kawamoto (Okayama Univ.) On Schrödinger operators with an inverse-square potential and a time-dependent harmonic oscillator 15
Atsuhide Ishida (Tokyo Univ. of Sci.)
- 7 Masato Ito (Ritsumeikan Univ.) Splitting of low-lying eigenvalues for a wedge-shaped symmetric double well 15
- 8 Yuta Kawamura (Ritsumeikan Univ.) Propagation of semiclassical wave front sets for non-self-adjoint matrix-valued pseudo-differential operators 15

15:45–16:45 Talk Invited by Functional Analysis Section

- Setsuro Fujiie (Ritsumeikan Univ.) A remark on the Weyl law of the quantum resonances

September 2nd (Wed) Conference Room I

10:00–10:30

- 9 Kenji Taniguchi Self-adjoint properties of the standard Whittaker $(\mathfrak{g}, K)$ -modules 15
 (Aoyama Gakuin Univ.)
- 10 Toshihisa Kubo (Ryukoku Univ.) On the K -type decomposition of the kernel of Kable’s Heisenberg operator 15

10:45–11:45 Talk Invited by Functional Analysis Section

- Yosuke Morita (Kyushu Univ.) Geometry of proper actions on homogeneous spaces

13:00–14:00

- 11 Ayoub Hafid (Univ. of Tokyo) Notions of a noncommutative coarse metric geometry 15
- 12 Akihiro Miyagawa (Kyoto Univ.) The spectra of polynomials in free random variables 15
- 13 Naoto Fujitsu (Univ. of Osaka) Singular value functions for C^* -algebras 15
- 14 Hyuga Ito (Nagoya Univ.) NC functions over the nc Grassmannian 15

September 3rd (Thu) Conference Room I

9:30–12:00

- 15 Masatoshi Ito (Maebashi Inst. of Tech.) On weighted means including the weighted power difference and Stolarsky means 15
- 16 Hiroki Shudo (Ritsumeikan Univ.) Some inequalities for matrix means and positive linear maps 15
- 17 Yuki Seo (Osaka Kyoiku Univ.) Estimation of bounds among three rescaled Rényi divergences 15
- 18 Takeaki Yamazaki (Toyo Univ.) On the Ando–Hiai property for spectral geometric means 15
Yuki Seo (Osaka Kyoiku Univ.)
Shuhei Wada
 (Nat. Inst. of Tech., Kisarazu Coll.)
- 19 Rui Okayasu (Osaka Kyoiku Univ.) Geometric mean of completely positive maps 15
- 20 Rui Okayasu (Osaka Kyoiku Univ.) Lebesgue-type decomposition of completely positive maps 15

- 21 Takuya Takeishi (Kyoto Inst. Tech.) Boundary actions of outer automorphism groups of Thompson-like groups 15
- 22 Fuyuta Komura (Kyushu Inst. of Tech.) Cartan-preserving *-automorphism groups: realization and obstructions for compact abelian groups 15

12:15–12:45 Presentation Ceremony for the 2026 MSJ Analysis Prize

14:15–16:30

- 23 Yosuke Kubota (Kyoto Univ./RIKEN) Second quantization and invertible topological phases 15
- 24 Yusuke Isono (Kyoto Univ.) Cocycle perturbations and ergodicity for actions on type III factors 15
- 25 Hiroshi Ando (Chiba Univ.) Model theory and Connes' bicentralizer problem 15
Isaac Goldbring
(Univ. of California Irvine)
- 26 Natsumi Shibata (Niigata Univ.) Norm additive maps between the positive cones of continuous function algebras I 15
Takeshi Miura (Niigata Univ.)
- 27 Natsumi Shibata (Niigata Univ.) Norm additive maps between the positive cones of continuous function algebras II 15
Takeshi Miura (Niigata Univ.)
- 28 Kazuki Ezumi (Niigata Univ.) A variant of Tingley's problem for positive unit spheres of continuous functions that vanish at infinity 15
Min-Ruei Lin
(National Sun Yat-sen Univ./Niigata Univ.)
Takeshi Miura (Niigata Univ.)
- 29 Katsuhisa Koshino (Kanagawa Univ.) Isometries between function spaces consisting of uniformly continuous and Lipschitz continuous pseudometrics 15
- 30 Katsuhisa Koshino (Kanagawa Univ.) A variant of Tingley's problem on spaces of metrics 10

16:45–17:45 Talk Invited by Functional Analysis Section

- Isao Ishikawa (Kyoto Univ.)^b Dynamical rigidity of maps inducing bounded composition operators

Statistics and Probability

September 1st (Tue) Conference Room VI

9:30–12:00

- 1 Yoshihiro Tawara (Naragaku Univ.) On the tightness of resolvents satisfying intrinsic ultracontractivity ... 15
- 2 Kaneharu Tsuchida Critical spectral behavior and large deviations for geometric α -stable processes 15
(Nat. Defense Acad. of Japan)
- 3 Toshihiro Uemura (Kansai Univ.) Non-symmetric perturbation of a lower bounded closed form 15
- 4 Takumu Ooi (Tokyo Univ. of Sci.) Subcriticality of subordinated Schrödinger operators and their application to wave equations 15
Motohiro Sobajima
(Tokyo Univ. of Sci.)

5	<u>Masanori Hino</u> (Kyoto Univ.) Kanji Inui (Doshisha Univ.) Kohei Nitta	Regularity and irregularity of energy densities on Sierpinski gaskets	15
6	Hiroataka Kai (Shimane Univ.)	On the exit probability estimates for horizontal Lévy processes on manifolds	15
7	Sebastian Andres (TU Braunschweig) <u>Naotaka Kajino</u> (Kyoto Univ.) Konstantinos Kavvadias (MIT) Jason Miller (Univ. of Cambridge)	Two-sided heat kernel bounds for $\sqrt{8/3}$ -Liouville Brownian motion ...	15
8	<u>Hiroshi Kawabi</u> (Keio Univ.) Zhongmin Qian (Univ. Oxford)	On second-level translations of Gaussian rough paths and the absence of log-derivatives	15
9	<u>Makoto Nakashima</u> (Nagoya Univ.) Seiichiro Kusuoka (Kyoto Univ.) Daisuke Shiraishi (Kyoto Univ.)	Strict positivity of self-intersection local time	15

14:15–15:15 Talk Invited by Statistics and Probability Section

Hayate Suda (Tohoku Univ.) Scaling limits of solitons in the randomized box-ball system

15:30–16:30 Talk Invited by Statistics and Probability Section

Stefan Junk (Gakushuin Univ.) The phase transition for the directed polymer model in higher dimensions

September 2nd (Wed) Conference Room VI

9:10–12:00

10	Kyo Yamazaki (Univ. of Osaka)	A norm equivalence result for stochastic differential equations with locally Lipschitz coefficients	15
11	Shigeyoshi Ogawa (Ritsumeikan Univ.)	Comparison theorems for solutions of noncausal SDEs	15
12	<u>Dai Taguchi</u> (Kansai Univ.) Tsukasa Moritoki (Okayama Univ.)	Euler–Maruyama scheme with unbounded Hölder drift	15
13	Masaaki Fukasawa (Univ. of Osaka)	Yet another asymptotic formula for implied volatility	15
14	<u>Atsushi Takeuchi</u> (Tokyo Woman's Christian Univ.) Anna Nihei (Tokyo Woman's Christian Univ.)	Limit theorems on subordination of random walks	15
15	<u>Nobuaki Naganuma</u> (Kumamoto Univ.) Kaito Yura (Kumamoto Univ.)	Elephant random walks on coverings of dipole graphs	15
16	Yuya Arima (Nagoya Univ.)	Lyapunov exponent of quadratic maps	15
17	<u>Yuki Ueda</u> (Hokkaido Univ. of Edu.) Shuhei Tsujie (Hokkaido Univ. of Edu.)	Convolution on the formal power series ring interpolating between finite free and classical probability	15
18	Makoto Maejima (Keio Univ.*) <u>Noriyoshi Sakuma</u> (Univ. of Osaka)	Linear fractional free stable motions and selfsimilar free stable processes	10
19	<u>Yoshinori Kamijima</u> (Toyo Univ.) Akira Sakai (Hokkaido Univ.)	Lace expansion for the quantum Ising model	15
20	Shuta Nakajima (Keio Univ.)	Uniqueness of replica-symmetric saddle point in perceptron model	10

12:00–12:30 Research Section Assembly

September 3rd (Thu) Conference Room VI

9:20–12:00

- 21 Shintaro Hashimoto (Hiroshima Univ.) On invariant moment matching priors for prediction problem 15
- 22 Yuzo Maruyama (Chiba Univ.) Strictly positive-part James–Stein estimators with guaranteed dominance 15
Akimichi Takemura (Shiga Univ.)
- 23 Naoki Nakada (Tokyo Univ. of Sci.) A measure of departure from independence for intraclass contingency tables 15
Satoru Sinoda (Yokohama City Univ.)
Kouji Tahata (Tokyo Univ. of Sci.)
Sadao Tomizawa (Tokyo Univ. of Sci.)
- 24 Shunsuke Shiraishi (Hiroshima Inst. of Tech.) On a maximization problem arising from low-dimensional positive reciprocal matrices in AHP: Uniqueness of the solution 10
Tsuneshi Obata (Otemon Gakuin Univ.)
- 25 Teruo Tanaka (Hiroshima City Univ.) Randomized and sufficient classes for multiparameter discrete time optimal stopping problems 15
- 26 Toshiharu Fujita (Kyushu Inst. of Tech.) Max-add criterion in diverging Markov decision process —A posteriori conditional expectation— 15
- 27 Masato Shimokawa Identification and estimation of structural vector autoregressive models via LU decomposition 15
Kou Fujimori (Shinshu Univ.)
- 28 Shohei Nakajima (Tokyo Univ. of Sci.) Parameter estimation for open quantum systems from multiple quantum trajectories 15
Mitsuki Kobayashi (Seikei Univ.)
- 29 Masaaki Fukasawa (Univ. of Osaka) A quasi maximum likelihood estimation method for Bergomi-type volatility models 15
Haruki Tomita (Univ. of Osaka)
- 30 Shogo Nakakita (Univ. of Osaka) Dimension-free statistical bounds on dynamic guidance scale learning for diffusion models 15
Pierre Alquier (ESSEC Business School)
Masaaki Imaizumi (Univ. of Tokyo)

14:15–15:15 Talk Invited by Statistics and Probability Section

Shun Matsuura (Keio Univ.) Best equivariant estimation in seemingly unrelated regression models

15:30–16:30 Talk Invited by Statistics and Probability SectionKengo Fujisawa Recent developments in modeling for multi-way contingency tables
(Tokyo Univ. of Sci., Yamaguchi)

September 4th (Fri) Conference Room VI

9:30–12:00

- 31 Riku Hosonuma (Tokyo Univ. of Sci.) A test for sub-mean vectors in high dimension 15
Tamae Kawasaki (Aoyama Gakuin Univ.)
Takashi Seo (Tokyo Univ. of Sci.)
- 32 Kou Fujimori (Shinshu Univ.) Asymptotically normal estimators in high-dimensional linear regression 15
Koji Tsukuda (Kyushu Univ.)

33	<u>Tetsuya Umino</u> (Univ. of Tsukuba) Kazuyoshi Yata (Univ. of Tsukuba) Makoto Aoshima (Univ. of Tsukuba)	Data transformation method using automatic sparse PCA under the strongly spiked eigenvalue model	15
34	<u>Kento Egashira</u> (Tokyo Univ. of Sci.) Yota Takao (Tokyo Univ. of Sci.)	Asymptotic properties of kernel hierarchical clustering for high-dimensional data	15
35	<u>Yota Takao</u> (Tokyo Univ. of Sci.) Kento Egashira (Tokyo Univ. of Sci.)	Classification of dendrograms constructed from high-dimensional data and asymptotic properties of the single-linkage clustering	15
36	<u>Yuki Ohno</u> (Tokyo Univ. of Sci.) Kouji Tahata (Tokyo Univ. of Sci.)	A minimal extension of the Bradley–Terry model for paired comparison data with cyclic dominance	15
37	<u>Takato Hashino</u> (Kyushu Univ.) Koji Tsukuda (Kyushu Univ.)	Asymptotic bias of plug-in estimators for Shannon entropy under regular variation in occupancy problems	15
38	<u>Ayaka Yagi</u> (Hosei Univ.) Takashi Seo (Tokyo Univ. of Sci.)	T^2 -type and LR test statistics for testing the adequacy in growth curve model with two-step monotone missing data	15
39	<u>Taisei Yamamoto</u> (Kobe Pharm. Univ.) Masashi Hyodo (Kanagawa Univ.) Nobumichi Shutoh (Kobe Pharm. Univ./Kobe Univ.)	Asymptotic distribution of Mardia’s sample skewness based on monotone missing data	15

Applied Mathematics

September 1st (Tue) Conference Room IX

9:00–12:10

1	<u>Taisuke Hosaka</u> (Yokohama Nat. Univ.) Etsuo Segawa (Yokohama Nat. Univ.)	Analysis of the quantum walk induced by an edge cut set	15
2	<u>Xinmiao Zhang</u> (Ritsumeikan Univ.) Jiro Akahori (Ritsumeikan Univ.) Norio Konno (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.) Iwao Sato (Oyama Nat. Coll. of Tech.) Shinya Fujita (Yokohama City Univ.)	Bipartite walks on even stars	15
3	<u>Tatsuya Tsurii</u> (Tokyo Univ. of Information Sci.) Naoharu Ito (Nara Univ. of Edu.)	On periodicity of the n state Grover walk on a complete bipartite graph $K_{n,n}$ and its group structure behind that walk	15
4	Kohei Tanaka (Shinshu Univ.)	Quillen’s theorem A for persistence finite posets	15
5	Ryo Uchiumi (Univ. of Osaka)	Equivariant version of characteristic quasi-polynomials of root systems	15

- 6 Kosuke Minami (Kobe Univ.) Hausdorff construction and combinanalytic identities I: Extension to
Hideki Matsumura classical orthogonal polynomials 15
(Tokyo Metro. Univ.)
Teruyuki Mishima
(Accenture Japan Ltd)
Masanori Sawa (Kobe Univ.)
- 7 Hideki Matsumura Hausdorff construction and combinanalytic identities II —Connection
(Tokyo Metro. Univ./Keio Univ.) to binomial coefficients and convex algebraic geometry 15
Kosuke Minami (Kobe Univ.)
Teruyuki Mishima
(Accenture Japan Ltd)
Masanori Sawa (Kobe Univ.)
- 8 Ziao Quan (Kobe Univ.) On equidistant codes with the wildcard symbol * 15
Joao Lucas Borba Boccazio
(Kobe Univ.)
Masanori Sawa (Kobe Univ.)
- 9 Takuya Saito (Hokkaido Univ.) On the periodicity of the weight distribution of linear code with integer
Norihiko Nakashima coefficients 15
(Nagoya Inst. of Tech.)
Koji Imamura (Kyushu Univ.)
- 10 Shohei Satake (Fukuoka Univ.) On quasi-perfect Lee codes from abelian Ramanujan graphs 15
- 11 Xiao-Nan Lu (Gifu Univ.) On explicit constructions of rational interval designs II 15
Teruyuki Mishima
(Accenture Japan Ltd)
Masanori Sawa (Kobe Univ.)
Yukihiro Uchida (Tokyo Metro. Univ.)
- 12 Mariko Hagita (Ochanomizu Univ.) Covering problems in difference sets and projective planes 15
- 14:15–15:15 Talk Invited by Applied Mathematics Section**
- Hirotake Kurihara (Yamaguchi Univ.) Finite combinatorial structures underlying multivariate orthogonal poly-
nomials
- 15:25–16:50**
- 13 Kumi Kobata (Kindai Univ.) Rooted tree polylogarithms 15
Tatsushi Tanaka (Kyoto Sangyo Univ.)
Noriko Wakabayashi
(Osaka Electro-Comm. Univ.)
- 14 Naoki Kimura (Tokyo Univ. of Sci.) Complexity of non-intrinsically knotted graphs and Legendrian spatial
embeddings 15
- 15 Kazuhiro Ichihara (Nihon Univ.) The half-monochromatic colorings of plane graphs with even polygonal
Yuha Tamura (Nihon Univ.) faces 10
- 16 Kenta Noguchi (Tokyo Univ. of Sci.) The thickness of the Cartesian product of a complete graph and a path
..... 15
- 17 Kiyoshi Yoshimoto (Nihon Univ.) Properly colored Hamilton paths and spanning trees in edge-colored
Yuya Iwazaki (Nihon Univ.) multipartite graphs 15

17:00–18:00 Award Lecture for the 2025 Applied Mathematics Prize

Akira Saito (Nihon Univ.) Preorder induced by rainbow forbidden subgraphs

September 2nd (Wed) Conference Room IX

9:00–12:00

- 18 Takahiro Ueoro (Yokohama Nat. Univ.) On graphs without cycles of length 0 modulo 3 or 4 modulo 6 15
- 19 Masaki Kashima (Keio Univ.) Grünbaum's conjecture on longest cycles of graphs 15
 Kenta Ozeki (Yokohama Nat. Univ.)
 Leilei Zhang (Yokohama Nat. Univ.)
- 20 Masahiro Sanka (Tokyo Univ. of Sci.) Toughness, collections of cycles covering all vertices and Hamiltonian k -factors in split graphs 15
- 21 Kenta Ozeki (Yokohama Nat. Univ.) A domination number condition for line graphs of 3-hypergraphs to have a Hamiltonian cycle 10
 Leilei Zhang (Yokohama Nat. Univ.)
- 22 Katsuhiro Ota (Keio Univ.) A Chvátal–Erdős condition for 2-connected $[2, b]$ -factors of small size 15
 Kenta Ozeki (Yokohama Nat. Univ.)
Tomoki Yamashita (Kindai Univ.)
- 23 Kosei Watanabe (Nagoya Univ.) Determinant formulas of Ihara zeta functions of some digraphs using simple cycles 15
- 24 Riki Kitano (Ritsumeikan Univ.) Walk/zeta correspondence for quantum walks on path graphs 15
 Jiro Akahori (Ritsumeikan Univ.)
 Norio Konno
 (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.)
 Iwao Sato (Oyama Nat. Coll. of Tech.)
- 25 Chengdian Chen (Nihon Univ.) Eigenspaces for a cycle graph with self-loops and a long range edge 15
 Yusuke Ide (Nihon Univ.)
 Kei Saito (Nihon Univ.)
 Satoshi Watanabe
 (KDDI Research, Inc.)
 Norio Konno
 (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.)
- 26 Natsuki Tsuka (Ritsumeikan Univ.) Comparison of behavior of prime walks and random walks 15
 Jiro Akahori (Ritsumeikan Univ.)
 Ray Aoki (Ritsumeikan Univ.)
 Taro Hayashi (Ritsumeikan Univ.)
 Norio Konno
 (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.)
- 27 Akihiro Narimatsu (Kanagawa Univ.) A study on random walks reproducing the probability distributions of quantum walks with defects 15
 Kouichiro Hiraki (Kanagawa Univ.)
 Daiya Midou (Kanagawa Univ.)
- 28 Kei Saito (Nihon Univ.) Path counting method for Golden random/quantum walks 10
 Shota Matsushita (Nihon Univ.)

29	<u>Kei Saito</u> (Nihon Univ.) Yusuke Ide (Nihon Univ.) Satoshi Watanabe (KDDI Research, Inc.) Norio Konno (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.)	Revisiting quantum search algorithms via random walks	15
13:00–14:00			
30	<u>Rikuki Okamoto</u> (Ritsumeikan Univ.) Akahori Jiro (Ritsumeikan Univ.) Konno Norio (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.) Sato Iwao (Oyama Nat. Coll. of Tech.) Nagata Nino (Ritsumeikan Univ.) Mukai Yunosuke (Ritsumeikan Univ.) Tsuru Tatsuya (Tokyo Univ. of Information Sci.)	Spectral analysis and properties of the Grover walk on a complete graph with self-loops	15
31	<u>Daisuke Sato</u> (Nihon Univ.) Kei Saito (Nihon Univ.)	Periodicity of Grover walks on strongly Deza graphs	15
32	<u>Nino Nagata</u> (Ritsumeikan Univ.) Akahori Jiro (Ritsumeikan Univ.) Konno Norio (Ritsumeikan Univ./Yokohama Nat. Univ.*/Nihon Univ.) Sato Iwao (Oyama Nat. Coll. of Tech.) Suzuki Ryoichi (Tokyo Univ. of Sci.) Yuma Tamura (Tokyo Univ. of Sci.) Yunosuke Mukai (Ritsumeikan Univ.)	Deterministic reduction and orthogonal local statistics for Grover walks on random lifts	15
33	<u>Sho Kubota</u> (Aichi Univ. of Edu.) Kiyoto Yoshino (Toho Univ.)	Arc search in graphs via Szegedy walks	15

September 3rd (Thu) Conference Room IX

9:30–12:00

34	Isamu Ohnishi (Hiroshima Univ.)	Algebraic variational framework for robust entanglement in driven-dissipative Kerr resonators: Foundations for integrated photonic quantum technologies	10
35	Isamu Ohnishi (Hiroshima Univ.)	Lie-algebraic observable-dependent renormalization with transactional handshakes: Advanced/retarded observable sectors and bidirectional RG flows in open quantum systems	10
36	Ville Syrjaenen (Kyoto Univ. of Adv. Sci.)	On the maximum ionization problem's constant for Hartree–Fock	15
37	<u>Satoshi Yamaguchi</u> (Hitotsubashi Univ.) Fujima Shoichi (Ibaraki Univ.) Kuratsubo Shigehiko (Hirosaki Univ.*) Eiichi Nakai (Ibaraki Univ.) Yoneda Tsuyoshi (Hitotsubashi Univ.)	Large-scale numerical experiments on Hardy conjecture for the Gauss circle problem	15

- 38 Tomohiro Washino (Nat. Inst. of Tech., Nara Coll.) Computation of learning coefficients in the singular regions 15
Tadashi Takahashi (Hagoromo Univ. of Int. Stud.)
- 39 Kota Ikeda (Meiji Univ.) Periodic solution in a difference-differential equation derived from the
Tomoyuki Miyaji (Kyoto Univ.) optimal velocity model 15
- 40 Masato Kimura (Kanazawa Univ.) Hidden symmetry and positive definiteness of spring-block approxima-
Oussama Ounissi (Kanazawa Univ.) tions derived from P1-FEM for 2D/3D linear elasticity 15
Hirofumi Notsu (Kanazawa Univ.)
- 41 Hirofumi Notsu (Kanazawa Univ.) Error estimates for Lagrange–Galerkin moving mesh methods for the
Kharisma Surya Putri (Kanazawa Univ.) one-dimensional convection-diffusion equation 15
Niklas Kolbe (RWTH Aachen Univ.)
Tasuku Suzuki (Kanazawa Univ.)
- 42 Yixuan Chen (Univ. of Osaka) A GPU-accelerated micropolar δ^+ -SPH framework with enhanced par-
Qiran Shao (Univ. of Osaka) ticle shifting for complex fluid dynamics 15
Yoshie Sugiyama (Univ. of Osaka)

14:15–16:15

- 43 Makoto Okumura (Konan Univ.) A structure-preserving scheme for the Allen–Cahn equation with dy-
dynamic boundary conditions using the SBP-SAT method 15
- 44 Takuya Tsuchiya (Meiji Gakuin Univ.) Structure-preserving numerical calculations of the Klein–Gordon–Proca
Makoto Nakamura (Univ. of Osaka) system with a nonlinear interaction term 15
- 45 Katsuyuki Ishii (Kobe Univ.) Time periodic solutions of mean curvature flow equation with bilateral
Shigeaki Koike (Waseda Univ.) obstacles 15
Takeshi Ohtsuka (Tokyo Univ. of Sci.)
- 46 Haruka Nakamura (Univ. of Tokyo) On a monotone scheme for Hamilton–Jacobi–Bellman equations and its
convergence 15
- 47 Tetsuya Ishiwata (Shibaura Inst. of Tech.) Blow-up of solutions induced by state-dependent delays 15
Junya Nishiguchi (Setsunan Univ./Tohoku Univ.)
- 48 Hiroshi Ishii (Hokkaido Univ.) Boundary-induced nonlocal kernels generated by reaction-diffusion sys-
tems on the half-line 15
- 49 Yui Nagayama (Hokkaido Univ.) Bifurcation and multistability in a reaction-diffusion equation with
Masaharu Nagayama (Hokkaido Univ.) nonlocal advection 15
Hiroshi Ishii (Hokkaido Univ.)

16:30–17:30 Talk Invited by Applied Mathematics Section

- Sohei Tasaki (Hokkaido Univ.) Mathematics of bacterial community formation

September 4th (Fri) Conference Room IX

9:30–12:00

- 50 Yoshitaka Watanabe (Kyushu Univ.) Efficient numerical verification procedure of norm bound for infinite-
Kenta Kobayashi (Hitotsubashi Univ.) dimensional differential operator with singular term 15

51	<u>Shinya Miyajima</u> (Tohoku Univ.) Amir Sadeghi (Islamic Azad Univ.)	Numerical computation of the complementary error matrix function	15
52	<u>Takuya Tsuchiya</u> (Osaka Univ./Ehime Univ.*) Kenta Kobayashi (Hitotsubashi Univ.)	Error analysis of Raviart–Thomas interpolation on anisotropic simplicial elements	15
53	Shoya Motonaga (Kyushu Inst. of Tech.) <u>Akitoshi Takayasu</u> (Univ. of Tsukuba)	Computer-assisted existence proofs for star-shaped periodic solutions of a system of delay differential equations	15
54	<u>Koichi Anada</u> (Waseda Univ. Senior High School) Tetsuya Ishiwata (Shibaura Inst. of Tech.) Takeo Ushijima (Tokyo Univ. of Sci.)	A Remark on radially symmetric self-similar solutions of a quasilinear parabolic partial differential equation	15
55	Kaname Matsue (Kyushu Univ./Kyushu Univ.)	Correspondence between dynamics at infinity and asymptotic-expansion structures for oscillatory blow-up solutions	15
56	Kazuyuki Yagasaki (Kyoto Univ.*)	Definition of integrability of diffeomorphisms	15
57	Kazuyuki Yagasaki (Kyoto Univ.*)	Linearization and integrability of diffeomorphisms	15
58	<u>Yuki Ishihara</u> (Teikyo Univ.) Masaki Nakamiya (Teikyo Univ.)	Reconsidering the structure of rotation: From systems to processes	12
14:15–16:15			
59	<u>Masumi Kondo</u> (Okayama Univ. of Sci.) Masakazu Onitsuka (Okayama Univ. of Sci.)	Conditional Ulam stability for fish growth model with Allee effect	15
60	<u>Masaharu Nagayama</u> (Hokkaido Univ.) Sohei Tasaki (Hokkaido Univ.) Madoka Nakayama (Sci. Tokyo) Shugo Uokawa (Hokkaido Univ.) Keisuke Naya (Hokkaido Univ.)	Mathematical modeling of bacterial colony formation	15
61	<u>Zexu Li</u> (Hokkaido Univ.) Madoka Nakayama (Sci. Tokyo) Changwook Yoon (Chungnam National Univ.) Sohei Tasaki (Hokkaido Univ.)	Mathematical analysis of ring formation driven by bacterial trophotaxis	15
62	<u>Tomoki Okamoto</u> (Musashino Univ.) Tatsuki Mori (Musashino Univ.)	Monotonicity of two eigenvalues arising from a nonlocal term in a linearized eigenvalue problem for a 1D phase-field model	15
63	Riku Watanabe (Hokkaido Univ.)	Geometry-induced pulse dynamics in a bulk-surface reaction-diffusion system for cell polarization	15
64	Takashi Teramoto (Kyoto Women’s Univ.)	Localized radially symmetric spot solutions in a singularly perturbed FitzHugh–Nagumo model	10
65	<u>Yoshihisa Morita</u> (Ryukoku Univ.*) Harunori Monobe (Osaka Metro. Univ.)	Nonconstant stable solutions to the bistable reaction-diffusion equation on metric tree graphs	15

16:30–17:30 Talk Invited by Applied Mathematics Section

Tadashi Tokieda (Stanford Univ.) Calculation that involves neither numbers nor formulas

Topology

September 1st (Tue) Conference Room VII

9:30–12:00

- 1 Kento Sakai (Univ. of Tokyo) Large-scale geometry of electric Teichmüller spaces and k -multicurve graphs 15
- 2 Ryo Hayami (Nagano Univ.) Quandles from gauge transformations 15
- 3 Yuichi Kabaya (Kitami Inst. of Tech.) Variants of Coxeter quandles 15
- 4 Mizuki Shirahama (Ritsumeikan Univ.) Relations for the generalized w -invariant 15
- 5 Aoi Wakuda (Univ. of Tokyo) The Turaev cobracket of high powers of loops on closed surfaces 15
- 6 Aoi Wakuda (Univ. of Tokyo) Centralizers of simple closed curves in the Goldman Lie algebra 15
Arpan Kabiraj
(Indian Inst. of Tech. Palakkad)
- 7 Takatoshi Hama (Nihon Univ.) CAT(0) property and hyperbolicity of affine cactus groups 15
- 8 Takuya Sakasai (Univ. of Tokyo) Refinements of groups defined by Kim and Manturov 10
Yuuki Tadokoro (Tokyo Univ. of Sci.)
Kokoro Tanaka (Tokyo Gakugei Univ.)

14:20–15:20 Talk Invited by Topology SectionMasaki Taniguchi (Kyoto Univ.)^b Four-dimensional cobordisms and Floer theory**15:40–17:40**

- 9 Jumpei Yasuda (Osaka Metro. Univ.) On the classification of 2-plat 2-knots 10
- 10 Teruhisa Kadokami (Kanazawa Univ.) The half Alexander polynomials of amphicheiral 2-bridge knots 15
- 11 Shinichiro Kakuta (Waseda Univ.) On the volume conjecture of the colored Jones invariants with arbitrary colors 15
- 12 Taizo Kanenobu (Osaka Metro. Univ.) 4-Move distance of knots II 10
Hideo Takioka (Kanazawa Univ.)
- 13 Yasuyoshi Tsutsumi Purely cosmetic surgeries and Casson–Walker–Lescop invariants 10
(Kobe Shinwa Univ.)
Kazuhiro Ichihara (Nihon Univ.)
In Dae Jong (Kindai Univ.)
- 14 Natsuya Takahashi (Nihon Univ.) Trisection genus of knot traces 15
- 15 Michel Boileau (Aix-Marseille Univ.) A ribbon knot which is not a symmetric union 15
Teruaki Kitano (Soka Univ.)
Yuta Nozaki (Hokkaido Univ.)

September 2nd (Wed) Conference Room III

10:00–10:15 Presentation Ceremony for the 2026 MSJ Geometry Prize**10:20–11:20 Award Lecture for the 2026 MSJ Geometry Prize**

Shinpei Baba (Univ. of Osaka) Complex projective structures on a Riemann surface and representations of the surface group

13:00–14:00 Award Lecture for the 2026 MSJ Geometry Prize

Kouichi Yasui (Univ. of Osaka) Exotic smooth structures on 4-manifolds and genus functions

September 3rd (Thu) Conference Room VII

9:30–12:00

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|----|---|---|----|
| 16 | Hiroki Kodama (Hiroshima Univ.) | Structural oscillatory criterion of Boolean networks | 15 |
| 17 | Sakumi Sugawara (Hokkaido Univ.) | Topology of topological line arrangements: Combinatorial description of the cohomology ring | 10 |
| 18 | Sakumi Sugawara (Hokkaido Univ.) | Topology of topological line arrangements: Minimality of the complement | 10 |
| 19 | Yoshikazu Yamagishi (Ryukoku Univ.) | The farthest point map on the regular simplex | 10 |
| 20 | Kosuke Nishijima (Waseda Univ.) | Fractal Euler number and persistent homology | 15 |
| 21 | Jo Tamaki (Univ. of Osaka)
Masahiko Yoshinaga (Univ. of Osaka) | Minimality of locally finite convex 2-arrangement | 15 |
| 22 | Yoh Kitajima (Univ. of Osaka) | Filtered order complexes and magnitude homology of finite graded posets | 15 |
| 23 | Yu Tajima (Sasebo Nat. Coll. of Tech.)
Yasuhiko Asao (Kyushu Univ.)
Masahiko Yoshinaga (Univ. of Osaka) | Magnitude homology of metric fibrations | 15 |

14:20–15:20 Talk Invited by Topology Section

Yasuhiko Asao (Kyushu Univ.) Graph homology viewed from magnitude homology

15:40–17:10

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| 24 | Naoki Kuroda (Univ. of Tokyo) | A refinement of the Pontryagin–Thom theorem for unstable Thom spectra and its applications | 15 |
| 25 | Yuya Koike (Univ. of Osaka) | On 3-dimensional locally standard T -pseudomanifolds | 15 |
| 26 | Masaki Taho (Univ. of Tokyo) | Diffeological spaces with a non-smooth derivation | 15 |
| 27 | Ryo Horiuchi (Bukkyo Univ.) | On the Witt vectors in the Lawvere quantale | 15 |
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Infinite Analysis

September 1st (Tue) Conference Room VIII

9:30–10:30

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| 1 | <u>Kazuya Matsugashita</u> (Kindai Univ.)
Takao Suzuki (Kindai Univ.) | Initial value space of the four dimensional Painlevé system with $(A_5 + A_1)^{(1)}$ symmetry 15 |
| 2 | Kanehisa Takasaki
(Kyoto Univ.* / Osaka Metro. Univ.) | Direct linearization and Sato Grassmannian 15 |
| 3 | Masaki Kato (Ritsumeikan Univ.) | Multiple polylogarithms and discrete integrable systems 15 |
| 4 | Toyo Taniguchi (Univ. of Tokyo) | The universal framed KZB connection in higher genera 15 |

10:45–11:45 Talk Invited by Infinite Analysis Special Session

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| Shin-ichiro Seki
(Nagahama Inst. of Bio-Sci. and Tech.) | Generalizations of Euler's identity for harmonic numbers |
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14:30–16:30

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| 5 | Masato Okado (Osaka Metro. Univ.) | Decoration functions for geometric crystals associated to Kirillov–Reshetikhin modules 15 |
| 6 | Ryota Akagi (Nagoya Univ.) | Structure of G -fans associated with rank 3 cluster-cyclic exchange matrices 15 |
| 7 | <u>Mizuki Yamaguchi</u> (Univ. of Tokyo)
Naoto Shiraishi (Univ. of Tokyo)
Fuga Ishii (Univ. of Tokyo) | A direct criterion for Yang–Baxter integrability in quantum spin systems 15 |
| 8 | <u>Hisatoshi Kodani</u> (Kyushu Univ.)
Yuta Nozaki (Hokkaido Univ.) | The Kontsevich invariant and the action of the Grothendieck–Teichmüller group on 2-component string links 15 |
| 9 | Tatsushi Shimazaki
(Nat. Inst. of Tech., Akashi Coll.) | Staircase hook-length ratios and special values of Jacobi polynomials 15 |
| 10 | <u>Taikei Fujii</u> (Ochanomizu Univ.)
Takahiko Nobukawa (Kogakkan Univ.) | Integral transform for eigenproblem of deformed Noumi–Sano operator 15 |
| 11 | <u>Satoshi Tsuchimi</u> (Kindai Univ.)
Genki Shibukawa
(Kitami Inst. of Tech.) | A generalization of the μ -function associated with the Kontsevich function 15 |

September 2nd (Wed) Conference Room VIII

9:20–10:45

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| 12 | Toshio Oshima (Univ. of Tokyo*) | A classification of linear differential equations on the Riemann sphere 15 |
| 13 | Kazuya Matsugashita (Kindai Univ.)
<u>Takao Suzuki</u> (Kindai Univ.)
Satoshi Tsuchimi (Kindai Univ.) | A degeneration of the four dimensional q -Garnier system arises from confluences in quivers 15 |
| 14 | Hidehito Nagao
(Gifu Shotoku Gakuen Univ.) | Multivariable generalization of the degeneration diagram of discrete Painlevé equations 15 |

- 15 Takahiko Nobukawa (Kogakkan Univ.) A q -analog of middle Laplace transform and q -Painlevé equation of type
 Shunya Adachi (Utsunomiya Univ.) $A_4^{(1)}$ 15
- 16 Genki Shibukawa Three-term relations and some specializations of the μ function 15
 (Kitami Inst. of Tech.)

11:00–12:00 Talk Invited by Infinite Analysis Special Session

Luc Vinet (Univ. de Montreal) Algebras and bispectrality

Information for Speakers

The Organizing Committee apologizes that it had to cut the duration of contributed talks because of technical reasons. Since the schedule is very tight, we ask the speakers to strictly keep time. A bell will be rung when 2/3 of the assigned time has passed. A second bell will be rung as soon as the time is up, and the speaker has to leave the stage.

Collaborative works are presented by the underlined authors. The talks with *b* marks denote presentations on blackboard. The speakers with *★* marks are professors emeriti. If you find anything wrong in the program, do not hesitate to inform the Chair of Organizing Committee by sending e-mail to the address program26sept@mathsoc.jp.

Each conference room is equipped with a blackboard and a projector with VGA interface or HDMI interface for PC presentation. You are asked to use your own PC and to bring suitable accessories (for example, USB type C-HDMI adapter) for your presentation. The time for connecting your PC to the projector is a part of the assigned duration of your talk. You are strongly recommended to check beforehand if your slides can be properly displayed in the conference room. We also advise you to bring the PDF file of your presentation on a USB flash drive, just in case the PC connection does not work.

Information for Participants

Smoking is prohibited in the entire facility, including the lecture halls.

Since private vehicles are not permitted, please use public transportation.

Kobe University is an eduroam member.

Dining Options:

The on-campus cafeteria is scheduled to be open during the conference.

If you wish to eat and drink at the venue, please use the designated break rooms.

Official Party

Date: September 2nd (Wed) 18:15–20:15

Venue: Restaurant SAKURA, 3F, Academia Hall for Social Sciences

Participants are asked to pay 6,000 JPY at the party.

Directions

2026 MSJ AUTUMN MEETING

Dates : September 1st (Tue)–4th (Fri), 2026

Venue : Rokkodai Campus (Tsurukabuto 1st Campus)

Kobe University

1–2–1, Tsurukabuto, Nada-ku, Kobe, 657-0011, Japan

Contact to : Graduate School of Science and Faculty of Science

Kobe University

1–1, Rokkodai-cho, Nada-ku, Kobe, 657-8501, Japan

kobe26sept@mathsoc.jp

Web Site : <https://www.mathsoc.jp/en/meeting/kobe26sept/>

Conference Rooms

	Place	Research Sections
Conference Room I	B109, 1F, Bldg. B	Functional Analysis, Featured Invited Talk
Conference Room II	B110, 1F, Bldg. B	Functional Equations, Featured Invited Talk
Conference Room III	B209, 2F, Bldg. B	Geometry, Topology, Featured Invited Talk
Conference Room IV	B210, 2F, Bldg. B	Algebra, Featured Invited Talks
Conference Room V	K301, 3F, Bldg. K	Complex Analysis, Real Analysis, Featured Invited Talk
Conference Room VI	K401, 4F, Bldg. K	Statistics and Probability, Featured Invited Talk
Conference Room VII	K601, 6F, Bldg. K	Topology
Conference Room VIII	K302, 3F, Bldg. K	Infinite Analysis, Foundation of Mathematics and History of Mathematics
Conference Room IX	K402, 4F, Bldg. K	Applied Mathematics
Plenary Talks	Idemitsu Sazo Memorial Rokkodai Auditorium	
Open Lectures for Citizens	C201, 2F, Bldg. C	

Other Rooms

Membership Fee & Extended Abstracts	K603, 6F, Bldg. K
Discussion Areas	M201, 2F, Bldg. M & K403, 4F, Bldg. K
Book Display and Sale	K303, 3F, Bldg. K
Executive Committee, MSJ President	K602, 6F, Bldg. K
Official Party	Restaurant SAKURA, 3F, Academia Hall for Social Sciences