

Remark

- The order of authors is written according to your input order. The first author is not necessarily the speaker. If the talk have two or more authors, then the speaker is underlined.
- The mark $\mathfrak{b}$ means the presentation by using the blackboard. If you talk by using your PC/tablet, no mark is written.
- The mark $\star$ means emeritus professor.
- The number on the right side of the title implies the time of talk (minutes). There are some talks whose limited time is shortened due to various reasons. Your kind understanding is appreciated.

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Algebra	4
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Complex Analysis	11
Functional Equations	13
Real Analysis	19
Functional Analysis	21
Statistics and Probability	23
Applied Mathematics	26
Topology	30
Infinite Analysis	33

Foundation of Mathematics and History of Mathematics

September 18th (Thu)

10:00–11:55

01-01-0001

- 1 Ikuo Yoneda (Nat. Inst. of Tech., Tokuyama Coll.) Quasi-geometric elimination of imaginaries and modular law in the real sort 15

01-01-0002

- 2 Ikuo Yoneda (Nat. Inst. of Tech., Tokuyama Coll.) No implications between CF-property and elimination of imaginaries 15

01-01-0010

- 3 Koki Okura (Univ. of Tsukuba) Dp-finite groups expanded by closed sets 15

01-01-0016

- 4 Hiroataka Kikyo (Kobe Univ.) Chromatic number of several countable graphs 15
Akito Tsuboi (Univ. of Tsukuba*)

01-01-0017

- 5 Koichiro Ikeda (Hosei Univ.) On theories having a type with tree property 15

01-01-0019

- 6 Akito Tsuboi (Univ. of Tsukuba*) Applying HF to finite model theory: The power of proactive use 10

01-01-0021

- 7 Koitaro Nakaura (Univ. of Tokyo) On the chromatic numbers of stable and unstable graphs 15

14:15–15:15 Talk Invited by Section on Foundation and History of Mathematics

01-02-0001

- Masato Fujita (Japan Coast Guard Academy) Topologically tame ordered structures

15:30–16:45

01-01-0009

- 8 Haruka Kogure (Kobe Univ.) On partially conservative sentences 1 15
Taishi Kurahashi (Kobe Univ.)

01-01-0012

- 9 Haruka Kogure (Kobe Univ.) On partially conservative sentences 2 15
Taishi Kurahashi (Kobe Univ.)

01-01-0011

- 10 Yuta Sato (Kobe Univ.) Uniform Lyndon interpolation theorem for $\mathbf{N}^+\mathbf{A}_{m,n}$ through propositionalization and cut elimination 15

01-01-0013

- 11 Takahiro Seki (Niigata Univ.) Associativity and commutativity of variations of residual axioms 15

01-01-0015

- 12 Ryo Kashima (Sci. Tokyo) On the completeness of infinitary proof systems for the modal mu-calculus 15

September 19th (Fri)

9:30–10:30

01-01-0004

- 13 Takayuki Kihara (Nagoya Univ.) Subtoposes of the effective topos and the Katětov order 15
Ming Ng (Nagoya Univ.)

01-01-0020

- 14 Kohtaro Tadaki (Chubu Univ.) An analysis of Wigner's friend in the framework of the principle of typicality 15

01-01-0003

- 15 Kenta Tsukuura (Nat. Fisheries Univ.) The dissection of $(\dagger)$ 15

01-01-0007

- 16 Takashi Yamazoe (Kobe Univ.) Cardinal invariants of products of ideals 15

10:45–11:45 Talk Invited by Section on Foundation and History of Mathematics

01-02-0002

- Yushiro Aoki (Tokyo Nat. Coll. of Tech.) A discontinuous homomorphism on $C(X)$ and a fragment of Martin's axiom

12:00–12:15 Research Section Assembly**14:15–15:30**

01-01-0005

- 17 Tsukane Ogawa (Yokkaichi Univ.) On the completion of the five volumes of the *Kijutsu Kairo Hou* 15
Tanaka Noriko (Naragakuen Univ.)

01-01-0006

- 18 Noriko Tanaka (Naragakuen Univ.) Takuma school, Oka Yukitada, Kijutu-Kairoho Vol. 5 and Shiki-Kijutsu
Ogawa Tsukane (Yokkaichi Univ.) math features 15

01-01-0008

- 19 Koichi Hirata Renjutsu: from the viewpoint of inversive coordinates of circles 15
(Matsuyama Univ./Ehime Univ.*)

01-01-0014

- 20 Katsushi Waki (Yamagata Univ.)^b Layout analysis of WASAN documents using `NDL_Layout` 15

01-01-0018

- 21 Hideyuki Majima (Ochanomizu Univ.*) On the sphere volume ratio 15

15:45–16:00 Mathematics History Team Meeting

Algebra

September 16th (Tue)

9:00–12:00

02-01-0026

- 1 Katsusuke Nabeshima (Tokyo Univ. of Sci.) Comprehensive Gröbner systems approach to Chevalley's theorem on image of rational morphisms 15
Shinichi Tajima (Niigata Univ.*)

02-01-0047

- 2 Koichiro Tani (Univ. of Osaka) Standard multigraded Hibi rings and Cartwright–Sturmfels ideals 15
Koji Matsushita (Univ. of Tokyo)

02-01-0021

- 3 Koji Matsushita (Univ. of Tokyo) Invariants of graded rings associated with stable set polytopes 15
Akiyoshi Tsuchiya (Toho Univ.)

02-01-0043

- 4 Kyosuke Maeda (Nihon Univ.) Ulrich ideals on rational triple points 15
Ken-ichi Yoshida (Nihon Univ.)

02-01-0044

- 5 Ken-ichi Yoshida (Nihon Univ.) Ulrich ideals on 2-dimensional quotient singularities 15
Kyosuke Maeda (Nihon Univ.)

02-01-0058

- 6 Kei-ichi Watanabe (Nihon Univ./Meiji Univ.) The canonical trace ideal and nearly Gorenstein property for 2 dimensional normal local rings 15
Tomohiro Okuma (Yamagata Univ.)
Ken-ichi Yoshida (Nihon Univ.)

02-01-0003

- 7 Sora Miyashita (Univ. of Osaka) When do pseudo-Gorenstein rings become Gorenstein? 15

02-01-0039

- 8 Mitsuhiro Miyazaki (Osaka Metro. Univ.) A new property between Gorenstein and Cohen–Macaulay properties of commutative rings 15

02-01-0013

- 9 Naoki Endo (Meiji Univ.) Deformation of the quasi-Gorenstein property in extended Rees algebras 15

02-01-0023

- 10 Shinnosuke Ishiro (Gunma Nat. Coll. of Tech.) Perfectoid towers and $\lim$ Cohen–Macaulay sequences 15
Kazuma Shimomoto (Sci. Tokyo)

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

02-02-0003

- Kenta Ueyama (Shinshu Univ.) Tilting theory for Artin–Schelter Gorenstein algebras

15:30–17:15

02-01-0020

- 11 Yuki Mifune (Nagoya Univ.) On upper bounds for the dimension of the singularity category 15

02-01-0004

- 12 Kaito Kimura (Nagoya Univ.) On defining ideals of singular loci 15

02-01-0032

- 13 Kei-ichiro Iima (Nat. Inst. of Tech., Nara Coll.) Extension-closed subcategories of Cohen–Macaulay module category over a complete local hypersurfaces 15
Ryo Takahashi (Nagoya Univ.)

02-01-0053

- 14 Shu Minaki (Tokyo Univ. of Sci.) Group and Lie algebra structure of Hochschild cohomology of Beilinson algebra of weighted down-up algebras 10
Ayako Itaba (Tokyo Univ. of Sci.)

02-01-0054

- 15 Shota Inoue (Tokyo Univ. of Sci.) Symmetric cohomology of triangular bialgebras 15
Ayako Itaba (Tokyo Univ. of Sci.)

02-01-0006

- 16 Mariko Ohara (Toyama Pref. Univ.) A stable model category and Hopfological invariant 15

September 17th (Wed)

9:00–12:00

02-01-0059

- 17 Ryota Wakao (Okayama Univ. of Sci.) On R-matrices constructed from Hopf superalgebras of low dimension 10

02-01-0060

- 18 Yasuhiko Asao (Fukuoka Univ.) Minimal projective resolution and magnitude homology of geodetic
Shun Wakatsuki (Nagoya Univ.) metric spaces 15

02-01-0011

- 19 Sota Asai (Univ. of Tokyo) An extension theorem of semibricks in quiver representations 15

02-01-0050

- 20 Yusuke Nishinaka (Nagoya Univ.) Costello–Gwilliam factorization algebras and vertex algebras 15

02-01-0052

- 21 Shuji Fujino (Tokyo Univ. of Sci.) How to construct two-sided tilting complexes for generalized Brauer
Yuta Kozakai (Tokyo Univ. of Sci.) tree algebras 15
Kohei Takamura (Tokyo Univ. of Sci.)

02-01-0029

- 22 Shingo Okuyama An example of a non-2-thick irreducible representation of the symmetric
(Nat. Inst. of Tech., Kagawa Coll.) group 15
Yasuhiro Omoda
(Nat. Inst. of Tech., Akashi Coll.)
Kazunori Nakamoto
(Univ. of Yamanashi)

02-01-0008

- 23 Maria Ferrara On orders whose arithmetical properties determine the structure of
(Univ. Campania Luigi Vanvitelli) skew braces 15
Marco Trombetti
(Univ. Napoli Federico II)
Sin Yi Tsang (Ochanomizu Univ.)

02-01-0019

- 24 Kohji Yanagawa (Kansai Univ.) Transposes in the q -deformed modular group and their applications to
Xin Ren (Osaka Metro. Univ.) q -deformed rational numbers 15

02-01-0046

- 25 Shuhei Tsujie (Hokkaido Univ. of Edu.) On 2-multiarrangements of three lines over fields of positive character-
Ryo Uchiumi (Univ. of Osaka) istic 15

02-01-0049

- 26 Shun-ichi Kimura (Hiroshima Univ.) Ending partizan games 15
Hiyu Inoue (Hiroshima Univ.)
Shin-nosuke Kadowaki
(Hiroshima Univ.)

02-01-0027

- 27 Shun-ichi Kimura (Hiroshima Univ.) Surreal numbers as the K-ring of some combinatorial games 15

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

02-02-0001

- Tatsuyuki Hikita (Kyoto Univ.) On the Stanley–Stembridge conjecture

September 18th (Thu)

9:30–12:00

02-01-0022

- 28 Shota Maehara (Kyushu Univ.) An algebraic research on minimum number of chambers for line ar-
rangements 15

02-01-0034

- 29 Tatsushi Shimazaki (Kobe Univ.) The number of set-valued semistandard tableaux and special values of
Takahiko Nobukawa (Kogakkan Univ.) Grothendieck polynomials 15
Taikei Fujii (Kobe Univ.)

02-01-0033	30 Takeshi Torii (Okayama Univ.)	The moduli of subalgebras of the full matrix ring of degree 3 (4)	15
	<u>Kazunori Nakamoto</u> (Univ. of Yamanashi)		
02-01-0055	31 Kohei Aoyama (Univ. of Osaka)	The property of being a Deligne–Mumford stack is not preserved by the warping stack	15
02-01-0012	32 <u>Yasuhiro Oki</u> (Rikkyo Univ.)	The rationality problem for multinorm one tori	15
	Kazuki Kanai (Kure Nat. Coll. of Tech.)		
02-01-0007	33 Tomohiro Iwami (Kyushu Inst. of Tech.)	Certain mixed motivic sheaves for extensions of symmetric 2-forms related to three-dimensional Miyaoka–Yau type inequality with third Chern classes	15
02-01-0037	34 Taro Sano (Kobe Univ.)	On Hodge structures of compact complex manifolds with semistable degenerations	15
02-01-0062	35 Hisato Matsukawa (Hokkaido Univ.)	The spectrum of triangulated categories with actions	15
02-01-0018	36 <u>Shu Nimura</u> (Nagoya Univ.)	Derived McKay correspondence for real reflection groups of rank three	15
	Akira Ishii (Nagoya Univ.)		

12:00–12:30 Research Section Assembly

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

02-02-0004	Atsushi Ito (Univ. of Tsukuba)	On M-regularity and rational maps defined by line bundles on abelian varieties
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15:30–17:30

02-01-0051	37 Natsume Kitagawa (Nagoya Univ.)	The standard models of del Pezzo fibrations of degree 4	15
02-01-0063	38 Shuto Abe (Nagoya Univ.)	Automorphism groups of Fano threefolds	15
02-01-0024	39 Kiwamu Watanabe (Chuo Univ.)	Quadratic varieties of small codimension	15
02-01-0025	40 Osamu Fujino (Kyoto Univ.)	On non-projective complete toric varieties	10
	<u>Hiroshi Sato</u> (Fukuoka Univ.)		
02-01-0014	41 <u>Shingo Taki</u> (Tokai Univ.)	Galois points and K3 surfaces	15
	Kei Miura (Yamaguchi Univ.)		
02-01-0015	42 Ken Sato (Sci. Tokyo)	On symplectic actions on higher Chow cycles on $K3$ surfaces	15
02-01-0035	43 Hizuru Yamagishi (Tokyo Denki Univ.)	Recurrence formulas with figurate numbers and elliptic surfaces	15

September 19th (Fri)

9:30–12:00

02-01-0017	44 Yuji Tsuno	On the unit group scheme of the group algebra of a certain non- commutative finite flat group scheme over an $\mathbb{F}_p$ -algebra	15
	(Nat. Inst. of Tech., Wakayama Coll.)		
02-01-0038	45 Yuki Kato (Kurume Nat. Coll. of Tech.)	Goodwille approximation of algebraic cobordism	15
02-01-0030	46 <u>Manabu Yoshida</u> (Yamato Univ.)	On the p -torsion fields of elliptic curves over $\mathbb{Q}_p$	15
	Yoshiyasu Ozeki (Kanagawa Univ.)		
02-01-0042	47 Akio Nakagawa (Kanazawa Univ.)	Confluent hypergeometric functions over finite fields and Artin–Schreier curve	15

02-01-0005			
48	Masanori Morishita (Kyushu Univ.)	On a relation between Deninger's foliated dynamical systems and Connes–Consani's adelic spaces	15
02-01-0016			
49	Takenori Kataoka (Tokyo Univ. of Sci.)	Kida's formula for graphs with ramifications	15
02-01-0041			
50	Haruki Ito (Nagoya Univ.)	Semi-integral points of bounded height on vector group compactifications	15
02-01-0031			
51	Masaki Kato (Ritsumeikan Univ.)	Macdonald symmetric functions and multiple polylogarithms	15
02-01-0036			
52	Hiroshi Nozaki (Aichi Univ. of Edu.) Masatake Hirao (Aichi Pref. Univ.) Koji Tasaka (Kindai Univ.)	Spherical designs associated with finite quaternionic groups and their applications to modular forms	15

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

02-02-0002			
	Toshiki Matsusaka (Kyushu Univ.)	(Mock) modular nature of q -series	

15:30–17:30

02-01-0001			
53	Shigeru Iitaka (Open Univ. of Japan/Gakushuin Univ.*) Hikaru Kajita (Crimson Global Academy)	Double Euler functions and a kind of perfect numbers	10
02-01-0056			
54	Haruki Domoto (Yamaguchi Univ.) Tadaaki Igawa Makoto Minamide (Yamaguchi Univ.) Yoshio Tanigawa	On the average of $\sigma_a(n)$ for square-free integers	10
02-01-0009			
55	Hideto Iwata (Gunma Nat. Coll. of Tech.)	A relation to a remainder terms in an asymptotic formula for the associated Euler totient function	15
02-01-0028			
56	Fumi Oghihara (Sophia Univ.)	On the short interval average of the representation function related to square-full numbers	15
02-01-0061			
57	Yuichiro Toma (Nagoya Univ.) Iu-Long Ng (Waseda Univ.)	On negative moments of Dirichlet L -functions	15
02-01-0048			
58	Takeshi Shinohara (Nagoya Univ.)	Explicit values of multiple zeta functions at non-positive integers using Stirling numbers	15
02-01-0040			
59	Takumi Anzawa (Nagoya Univ.)	A Lie algebra associated with both generalized symmetric multiple zeta values and parity results	15
02-01-0045			
60	Ku-Yu Fan (Nagoya Univ.)	A map between arborifications of multiple zeta values	15

Geometry

September 16th (Tue)

9:30–11:45

03-01-0003

- 1 Hiroyuki Hayashi (Kobe Univ.) On striction curves of ruled surfaces with finite multiplicities 15

03-01-0008

- 2 Yoshio Agaoka (Hiroshima Univ.*) Ricci curvature of left invariant metrics and invariants —the 3-dimensional case— 15

03-01-0012

- 3 Nozomi Nakatsuyama Caustics and involutes of framed surfaces in Euclidean 3-space 15

(Muroran Inst. of Tech.)

Masatomo Takahashi

(Muroran Inst. of Tech.)

03-01-0022

- 4 Shun Kumagai Planar curves with self-affinity in equiaffine geometry 15

(Hachinohe Inst. of Tech.)

Kenji Kajiwara (Kyushu Univ.)

03-01-0028

- 5 Masahiro Morimoto Affine differential geometry of parallel transport maps and weakly reflective submanifolds 15

(Tokyo Metro. Univ.)

03-01-0033

- 6 Jun Matsumoto (Sci. Tokyo) A special class of affine maximal surfaces with singularities and its relationship with minimal surface theory 15

03-01-0038

- 7 Kenzi Satô (Tamagawa Univ.) Fermat–Torricelli points of a spherical or hyperbolic triangle 15

14:15–16:45

03-01-0001

- 8 Naoki Kato (Chukyo Univ.) Left-invariant transversely affine foliations and a generalization of left-symmetric structures 15

03-01-0004

- 9 Masamichi Deguchi Maximal antipodal sets of oriented flag manifolds 15

(Tokyo Metro. Univ.)

03-01-0013

- 10 Lijie Sun (Yamaguchi Univ.) Notes on the geometry of quaternionic Heisenberg group 15

03-01-0023

- 11 Lucas Henrique Silveira Gomes Vaisman solvmanifolds as finite quotients of Kodaira–Thurston nilmanifolds 15

(Univ. of Osaka)

03-01-0025

- 12 Osamu Ikawa (Kyoto Inst. Tech.) The intersection of two real flag manifolds in a complex flag manifold, and the canonical form of a compact symmetric triad 15

Shinji Ohno (Nihon Univ.)

Kurando Baba (Tokyo Univ. of Sci.)

03-01-0026

- 13 Taito Shimoji (Univ. of Osaka) Gradings on nilpotent Lie algebras and the fundamental groups of smooth complex algebraic varieties 15

03-01-0030

- 14 Hiroyuki Tasaki Polars of Pin^c groups and related compact Lie groups. II 15

(Tokyo Metro. Univ./Univ. of Tsukuba)

03-01-0035

- 15 Shinobu Fujii On s -commutative sets in real Grassmannian manifolds and representations of Clifford algebras 15

(Chitose Inst. of Sci. and Tech.)

September 17th (Wed)

10:00–10:15 Presentation Ceremony for the 2025 MSJ Geometry Prize

10:20–11:20 Award Lecture for the 2025 MSJ Geometry Prize

03-02-0001

Shin-ichi Matsumura (Tohoku Univ.) Structure theorems for varieties with non-negative curvature

12:50–13:50 Award Lecture for the 2025 MSJ Geometry Prize

03-02-0003

Koichi Nagano (Univ. of Tsukuba) On the geometry of metric spaces with upper curvature bounds

September 18th (Thu)

9:30–11:45

03-01-0014

- 16 Isami Koga (Kyushu Int. Univ.) Equivariant harmonic maps of quaternion projective spaces into Grassmannians 15
 Yasuyuki Nagatomo (Meiji Univ.)
 Masaro Takahashi
 (Kurume Nat. Coll. of Tech.)

03-01-0015

- 17 Yuya Takeuchi (Univ. of Tsukuba) CR Paneitz operator on non-embeddable CR manifolds 15

03-01-0020

- 18 Rei Murakami (Tohoku Univ.) Complex Hessian equations and positivity 15

03-01-0021

- 19 Kazuyuki Hasegawa (Kanazawa Univ.) Intrinsic characterization of projective special complex manifolds 15
 Vicente Cortés (Univ. of Hamburg)

03-01-0027

- 20 Hiroyasu Satoh (Nippon Inst. of Tech.) Conformal vector fields on complex hyperbolic space 15
 Hemangi M. Shah
 (Harish-Chandra Res. Inst.)

03-01-0032

- 21 Shuhei Katsuta (Nagoya Univ.) Combinatorial structure in Nevanlinna theory 15

03-01-0036

- 22 Masanori Adachi (Shizuoka Univ.) Harmonic measures and rigidity for transverse foliations on Seifert 3-manifolds 15
Yoshifumi Matsuda
 (Aoyama Gakuin Univ.)
 Hiraku Nozawa (Ritsumeikan Univ.)

14:15–17:45

03-01-0006

- 23 Naoki Kuroda (Univ. of Tokyo) Computations of Spin-Sp(4), Spin-SU(8), and Spin-Spin(16) bordism groups in dimensions up to 7 15

03-01-0007

- 24 Yasushi Homma (Waseda Univ.) Eigenvalue estimates and stability on positive quaternion Kähler manifolds 15

03-01-0009

- 25 Tadashi Udagawa (Waseda Univ.) Classification of the tt^* -Toda equation with the anti-symmetry condition 15

03-01-0019

- 26 Shota Hamanaka (Univ. of Osaka) Extremal metrics involving in scalar curvature 15

03-01-0029

- 27 Masaya Kawamura On the t -Gauduchon connection on almost Hermitian manifolds 15
 (Sugiyama Jogakuen Univ.)

03-01-0034

- 28 Masato Inagaki (Nagoya Univ.) Spectral convergence of graph Laplacians with Ricci curvature bounds and in non-collapsed Ricci limit spaces 15

03-01-0002

- 29 Nikita Evseev Rellich–Kondrachov theorem for mappings in metric spaces 15
 (Okinawa Inst. of Sci. and Tech. Grad. Univ.)

03-01-0005

- 30 Takuma Byakuno (Kansai Univ.) An isometric embedding from a space of sequences of compact metric spaces into the Gromov–Hausdorff space 15

03-01-0010

- 31 Hiroki Ishikura (Univ. of Tokyo) Stallings–Swan’s theorem for Borel graphs 15

03-01-0011

- 32 Kenshiro Tashiro Varieties of the Grushin plane and the RCD condition 15
 (Okinawa Inst. of Sci. and Tech. Grad. Univ.)
 Samuël Borza (Univ. Vienna)

September 19th (Fri)

9:30–10:45

- 03-01-0016

33

Noriaki Ikeda

(Ritsumeikan Univ.)

Poisson maps in Hamilton Lie algebroids

15
- Yuji Hirota

(Azabu Univ.)
- 03-01-0017

34

Takumi Arai

(Kyoto Univ.)

Guillermou–Kashiwara–Schapira kernels of geodesic flows

15
- 03-01-0018

35

Shinpei Baba

(Univ. of Osaka)

Bending Teichmüller spaces and character varieties

15
- 03-01-0031

36

Ryo Hayami

(Nagano Univ.)

Cotangent path n -rackoids

15

11:00–12:00 Talk Invited by Geometry Section

- 03-02-0002

Kento Osuga

b

Volumes of moduli spaces of bordered Klein surfaces
- (Nagoya Univ./Nagoya Univ.)

Complex Analysis

September 16th (Tue)

9:30–11:10

04-01-0002

- 1 Natsuo Miyatake (Tohoku Univ.) On the existence, uniqueness, and approximation of the extended complete harmonic metrics 15

04-01-0003

- 2 Natsuo Miyatake (Tohoku Univ.) Harmonic metrics, subharmonic functions, entropy, and free energy ... 15

04-01-0004

- 3 Natsuo Miyatake (Tohoku Univ.) Entropy, free energy, hyperbolic metrics, and redundancy 15

04-01-0005

- 4 Takao Ohno (Oita Univ.)
Tetsu Shimomura (Hiroshima Univ.) Maximal and Riesz potential operators on Musielak–Orlicz spaces over unbounded metric measure spaces 15

04-01-0007

- 5 Ikkei Hotta (Yamaguchi Univ.)
Sebastian Schleißinger
(Univ. of Würzburg)
Toshiyuki Sugawa (Tohoku Univ.) Nonlinear resolvents and decreasing Loewner chains 15

04-01-0008

- 6 Shunsuke Kasao
(Shibaura Inst. of Tech. Kashiwa Junior & Senior High School)
Yu Kawakami (Kanazawa Univ.) Bloch–Ros principle and its application 15

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

04-02-0002

- Shun Kumagai
(Hachinohe Inst. of Tech.) Galois action on Teichmüller curves and related combinatorial objects

15:40–16:30

04-01-0010

- 7 Junichiro Narita
(Daido Univ./Daido Univ.*) On Hasumi’s theorem for the classification of plane domains by Hardy classes 15
Mikihiro Hayashi (Hokkaido Univ.*)
Shigeo Segawa (Daido Univ.*)

04-01-0011

- 8 Katsuhiko Matsuzaki (Waseda Univ.)
Fei Tao (Waseda Univ.) Characterization of asymptotically smooth curve 15

04-01-0015

- 9 Yūsuke Okuyama (Kyoto Inst. Tech.) Schwarzian derivatives and their generalizations of meromorphic functions appearing in complex dynamics 15

September 17th (Wed)

9:30–11:10

04-01-0001

- 10 Takanori Ayano (Osaka Metro. Univ.)
Victor M. Buchstaber
(Steklov Math. Inst.) Solution to the KP equation in terms of a hyperelliptic function of degree 2 15

04-01-0006

- 11 Takeo Ohsawa (Nagoya Univ.) An example of holomorphically nonconvex locally pseudoconvex analytic set in $\mathbb{C}^3$ 15

04-01-0009

- 12 Makoto Abe (Hiroshima Univ.*)
Tatsuhiro Honda (Senshu Univ.) Boundary distance functions of unramified Riemann domains over $\mathbb{C}^n$ 15

04-01-0012

- 13 Tadashi Takahashi
(Hagoromo Univ. of Int. Stud.) A computer algebraic study on Yoshihara’s defining equation 15

04-01-0013			
14	Atsushi Atsuji (Keio Univ.)	Nevalinna theory for meromorphic functions on transient Kähler mani- folds	15
04-01-0014			
15	Kazuko Matsumoto (Tokyo Univ. of Sci.)	Eigenvalues of the Levi form of logarithmic Fubini–Study distance to a non-singular complex curve in $\mathbb{CP}^2$	15

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

04-02-0001	Takahiro Inayama (Tokyo Univ. of Sci.)	L^2 estimates, L^2 extension theorems, and positivity of curvature	
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Functional Equations

September 16th (Tue)

9:00–12:00

05-01-0016

- 1 Shunya Adachi (Utsunomiya Univ.) Middle Laplace transform for linear Pfaffian systems and its application 10

05-01-0037

- 2 Nobuki Takayama (Kobe Univ.*) Algorithm to classify hypergeometric systems to isomorphic classes ... 10
Hiromasa Nakayama (Nihon Univ.)

05-01-0021

- 3 Kazuki Ishibashi A Hille–Kneser type oscillation criterion for linear differential equations
(Hiroshima Inst. of Tech.) with a PD-based operator 10

05-01-0056

- 4 Hiroyuki Usami (Gifu Univ.*) Necessary conditions for half-linear ordinary differential equations in
Manabu Naito (Ehime Univ.*) order that they have solutions behaving exponentially 10

05-01-0059

- 5 Tomoyuki Tanigawa On the amplitude and the slope at zeros of oscillatory solutions of
(Osaka Metro. Univ.) half-linear differential equations 10
Takaši Kusano (Hiroshima Univ.*)
Jaroslav Jaroš (Comenius Univ.)
Hiroyuki Usami (Gifu Univ.*)

05-01-0077

- 6 Yasuhisa Saito (Shimane Univ.) Global attractivity for a general delay differential equation with super-
linear damping 10

05-01-0064

- 7 Kazuyuki Yagasaki (Kyoto Univ.) Solvability of integrable partial differential equations under meromor-
phic initial conditions by quadrature 10

05-01-0006

- 8 Tetsutaro Shibata (Hiroshima Univ.*) Global bifurcation curves of nonlocal elliptic equations with oscillatory
nonlinear term 10

05-01-0085

- 9 Satoshi Tanaka (Tohoku Univ.) Uniqueness and multiplicity of positive radial solutions to the super-
Kotaro Watanabe critical Brezis–Nirenberg type problem in an annulus 10
(Nat. Defense Acad. of Japan)
Naoki Shioji (Yokohama Nat. Univ.)

05-01-0048

- 10 Satoshi Masaki (Hokkaido Univ.) On quartic conserved quantity for a class of nonlinear ODE system
..... 10

05-01-0002

- 11 Ryuji Kajikiya Estimate for the first eigenvalue of the one-dimensional p -Laplacian
(Osaka Electro-Comm. Univ.) 10
Shingo Takeuchi
(Shibaura Inst. of Tech.)

05-01-0003

- 12 Ryuji Kajikiya Least energy solutions of the Hénon equation in reflectionally symmetric
(Osaka Electro-Comm. Univ.) or point symmetric unbounded domains 10

05-01-0010

- 13 Slim Ibrahim (Univ. of Victoria) Global perturbation of isolated equivariant chiral skyrmions from the
Ikkei Shimizu (Kyoto Univ.) harmonic maps 10

05-01-0066

- 14 Yuki Amari (Keio Univ.) Saddle point solutions in $SU(3)$ Yang–Mills theory: Hyperbolic monopole–
antimonopole bound state 10

14:15–16:30

05-01-0019

- 15 Takeshi Suguro (Kumamoto Univ.) Stability estimates for the Sobolev type functional inequality for a p -Laplace equation 10

05-01-0088

- 16 Naoki Hamamoto (Osaka Metro. Univ.) The Poincaré–Wirtinger constant for curl-free fields on the ball 10

05-01-0012

- 17 Daowen Lin Best constant and extremal functions for a class of Hardy–Sobolev–Mazya inequalities 10
(Okinawa Inst. of Sci. and Tech. Grad. Univ.)
Xinan Ma
(Univ. of Sci. and Tech. of China)

05-01-0009

- 18 Takashi Suzuki (Osaka Univ.) Blowup set of the Smoluchowski–Poisson equation in higher dimension 5

05-01-0027

- 19 Yohei Toyota Behavior of ground state solutions for semilinear elliptic equation associated with critical Sobolev exponent 10
(Nat. Inst. of Tech., Nara Coll.)

05-01-0024

- 20 Kenta Kumagai (Sci. Tokyo) Bifurcation structure of semilinear elliptic equations with singular weights in two dimensions 10

05-01-0011

- 21 Yuxiao Zhang (Hiroshima Univ.) Higher-order boundary estimates for large solutions to semilinear Poisson equations with exponential nonlinearities 10

05-01-0067

- 22 Sho Katayama (Univ. of Tokyo) Infinite multiplicity of positive solutions of an inhomogeneous supercritical elliptic equation on $\mathbb{R}^N$ 10
Yasuhito Miyamoto (Univ. of Tokyo)

05-01-0040

- 23 Yuki Osada (Tokyo Univ. of Sci.) Variational analysis for coupled nonlinear Schrödinger equations with point interaction 10
Alessio Pomponio (Politecnico di Bari)

05-01-0080

- 24 Noriyoshi Fukaya (Waseda Univ.) Uniqueness and nondegeneracy of ground states for 2d-nonlinear scalar field equations with point interaction 10

05-01-0083

- 25 Kouta Araki (Nihon Univ.) A priori estimates for solutions of nonlinear Fokker–Planck equations with inhomogeneous spatial diffusion 10
Masashi Mizuno (Nihon Univ.)

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

05-02-0004

- Kouichi Taira (Kyushu Univ.) Essential selfadjointness and spectral theory for the d’Alembertian on Lorentzian manifolds

September 17th (Wed)

9:15–12:00

05-01-0001

- 26 Mostafa Fazly (UTSA) Linear-coupling effect in the 1D Gross–Pitaevskii system: Exact solutions and eigenvalue problems 10
Yasuhito Miyamoto (Univ. of Tokyo)

05-01-0018

- 27 Hiroshi Matsuzawa (Kanagawa Univ.) Ground state for a system of nonlinear Schrödinger equations with three waves interaction and critical nonlinearities 10
Hidenori Kokufukata
(Tsurumi Senior High School)

05-01-0047

- 28 Reiri Miyamoto (Tokyo Univ. of Sci.) The critical Fujita exponent for one-dimensional semilinear heat equations with potentials and space-dependent nonlinearities 10
Motohiro Sobajima
(Tokyo Univ. of Sci.)

05-01-0033

- 29 Junichi Harada (Akita Univ.) Remarks on the oscillating solutions to the 6D Fujita equation 6

05-01-0032

- 30 Mizuki Kojima (Kanagawa Univ.) On self-similar solutions of time-fractional semilinear heat equations 10

05-01-0017

- 31 Yasuhito Miyamoto (Univ. of Tokyo) Solvability of the Cauchy problem for fractional semilinear parabolic equations in critical and doubly critical cases 10
Masamitsu Suzuki (Meiji Univ.)

05-01-0070

- 32 Naoya Hatano (Univ. of Osaka) Unconditional uniqueness of Hardy–Hénon parabolic equations on Herz spaces 10
 Masahiro Ikeda (Univ. of Osaka)

05-01-0004

- 33 Jiyuan Guo (Tokyo Univ. of Sci.) Global existence of weak solutions in a three-dimensional flux-limited Keller–Segel–Navier–Stokes system involving superlinear production .. 10
 Shohei Kohatsu (Tokyo Univ. of Sci.)
 Tomomi Yokota (Tokyo Univ. of Sci.)

05-01-0036

- 34 Hiroshi Wakui (Univ. of Fukui) Stability and large time behavior in a drift-diffusion equation with an attractive drift term 10
Tetsuya Yamada
 (Fukui Nat. Coll. of Tech.)

05-01-0063

- 35 Yuri Soga (Tohoku Univ.) Concentration phenomena to a chemotaxis system with indirect signal production 10

05-01-0082

- 36 Kazuhiro Oeda (Kyushu Sangyo Univ.) Stationary solutions of a prey-predator model with directed population flux and a protection zone 10
 Kousuke Kuto (Waseda Univ.)

05-01-0087

- 37 Yuki Kaneko (Kanto Gakuin Univ.) Asymptotic behaviors and propagating terrace for a free boundary problem of a positive bistable reaction-diffusion equation under Dirichlet boundary conditions 10
 Yoshio Yamada (Waseda Univ.)

05-01-0065

- 38 Yuki Tsukamoto (Tokyo Univ. of Sci.) Appearance of stationary interfaces in the fast reaction limit 10

05-01-0079

- 39 Makoto Nakamura (Univ. of Osaka) Global solutions for the Allen–Cahn type equation in de Sitter spacetime under a quartic potential 10
 Kazusa Eguchi (Univ. of Osaka)
 Kento Tachibana (Univ. of Osaka)

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

05-02-0001

- Tatsuya Watanabe Ground state solutions for nonlocal elliptic problems associated with the nonlinear Schrödinger–Poisson system
 (Kyoto Sangyo Univ.)

September 18th (Thu)

9:15–12:00

05-01-0035

- 40 Mamoru Aihara (Hokkaido Univ.) A game interpretation for the weighted p -Laplace equation 10

05-01-0084

- 41 Takuya Sato (Univ. of Tokyo) A game approach to free boundary problems of anisotropic forced mean curvature flow equations 10

05-01-0025

- 42 Hiroyoshi Mitake (Univ. of Tokyo) Optimal rate of convergence for homogenization of Hamilton–Jacobi equations with prescribed contact boundary conditions 10
 Panrui Ni (Univ. of Tokyo)

05-01-0026

- 43 Hiroyoshi Mitake (Univ. of Tokyo) Rate of convergence for homogenization of nonlinear weakly coupled Hamilton–Jacobi systems 10
 Panrui Ni (Univ. of Tokyo)

05-01-0051

- 44 Yasuhiro Fujita (Univ. of Toyama) Residence time for a Hamilton–Jacobi flow starting from a pathological function 10
 Norikazu Yamaguchi (Univ. of Toyama)

05-01-0055

- 45 Takashi Kagaya Solvability for fully nonlinear parabolic equations with a singular Dirichlet boundary condition 10
 (Muroran Inst. of Tech.)

05-01-0014

- 46 Qing Liu Monge solutions of time-dependent Hamilton–Jacobi equations in metric spaces 10
 (Okinawa Inst. of Sci. and Tech. Grad. Univ.)

Made Benny Prasetya Wiranata

(Okinawa Inst. of Sci. and Tech. Grad. Univ.)

05-01-0008	47	Kotaro Motegi (Sci. Tokyo)	A regularity theorem for integral varifolds close to triple junction	10
05-01-0007	48	Kiichi Tashiro (Sci. Tokyo)	On existence of weak mean curvature flow with prescribed contact angle	10
05-01-0044	49	Florian Gruen (Kyoto Univ.) Tatsuya Miura (Kyoto Univ.)	Regularity and structure of non-planar p -elasticae	10
05-01-0071	50	Ryunosuke Mori (Meiji Univ.)	Propagation and blocking of a curvature flow with driving force in two-dimensional cylinders with periodically arrayed obstacles	10
05-01-0049	51	Satoshi Masaki (Hokkaido Univ.)	On the asymptotic behavior of solutions to NLS systems without coercive conserved quantities	10
05-01-0039	52	Hiroyuki Hirayama (Univ. of Miyazaki) Masahiro Ikeda (Univ. of Osaka)	On traveling waves for the nonlinear Schrödinger system with quadratic three wave interaction	10
14:30–16:30				
05-01-0078	53	Yuji Sagawa (Gifu Nat. Coll. of Tech.)	Asymptotic behavior of small solutions to a two-component system of cubic nonlinear Schrödinger equations in one space dimension	10
05-01-0031	54	Chunhua Li (Yanbian Univ.) Yuji Sagawa (Gifu Nat. Coll. of Tech.) Hideaki Sunagawa (Osaka Metro. Univ.) Shinpei Washio (Shukugawa Junior High School & High School)	Remarks on L^2 -decay of small solutions to derivative nonlinear Schrödinger equations with weakly dissipative structure	10
05-01-0038	55	Haruya Mizutani (Univ. of Osaka) Masaki Kawamoto (Okayama Univ.)	Modified scattering for the final state problem of the 1D cubic NLS with long-range potential	10
05-01-0073	56	Minami Watanabe (Tsuda Coll.)	Scattering for the nonlinear Schrödinger equation with exponential nonlinearity	10
05-01-0072	57	Sonae Hadama (Kyoto Univ.)	Semi-classical limit of scattering states: from the Hartree equation to the Vlasov equation	10
05-01-0050	58	Mamoru Okamoto (Hiroshima Univ.) Guopeng Li (Beijing Inst. of Tech.) Liyong Tao (China Acad. of Eng. Phys.)	Global solution to the periodic energy-critical stochastic nonlinear Schrödinger equation	10
05-01-0075	59	Kotaro Inami (Nagoya Univ.)	Smoothing property of the Schrödinger equation in modulation spaces	10
05-01-0089	60	Masayuki Hayashi (Kyoto Univ.)	Uniqueness of solutions for the logarithmic Schrödinger equation	10
05-01-0060	61	Nobutatsu Kobayashi (Tokyo Univ. of Sci.) Masahito Ohta (Tokyo Univ. of Sci.)	Global well-posedness for a generalized Zakharov system in a higher energy space	10

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

05-02-0005		Shuji Yoshikawa (Hiroshima Univ.)	Structure-preserving discretization of differential equations and its applications
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September 19th (Fri)

9:15–12:00

05-01-0076

- 62 Takuma Yoshizumi (Univ. of Osaka) Blowup for semi-linear Klein–Gordon equations with positive initial
Makoto Nakamura (Univ. of Osaka) energy in FLRW spacetimes 10

05-01-0034

- 63 Koji Wada (Hokkaido Univ.) Blow-up of solutions for discrete semilinear wave equation with the
Kyouhei Wakasa scale-invariant damping 10
(Muroran Inst. of Tech.)

05-01-0057

- 64 Shunsuke Kitamura (Tohoku Univ.) Non-existence of time-local solutions of derivative type with spatial
weights and non-compactly supported data in one space dimension ... 10

05-01-0015

- 65 Motohiro Sobajima A weighted energy method for wave equations with time-dependent
(Tokyo Univ. of Sci.) damping 10

05-01-0062

- 66 I-Kun Chen (Nat. Taiwan Univ.) On the existence and regularity of weakly nonlinear stationary Boltz-
Chun-Hsiung Hsia (Nat. Taiwan Univ.) mann equations 10
Daisuke Kawagoe (Kyoto Univ.)

05-01-0022

- 67 Dingqun Deng (Akita Univ.) Shock wave stability for the 3D Boltzmann equation: Bridging kinetic
theory and fluid dynamics 10

05-01-0081

- 68 Naoto Deguchi (Sci. Tokyo) On stability of time-periodic compressible Navier–Stokes flows in three-
dimensional exterior domain 10

05-01-0068

- 69 Masatoshi Okita On the asymptotic behavior of solutions to the compressible Navier–
(Kurume Nat. Coll. of Tech.) Stokes equations with the non-slip boundary condition in the half space
Yoshiyuki Kagei (Sci. Tokyo) 10
Takayuki Kobayashi (Univ. of Osaka)
Ryosuke Nakasato (Shinshu Univ.)

05-01-0028

- 70 Takayuki Kobayashi (Univ. of Osaka) Analyticity and asymptotic behavior of solutions to the compressible
Ryosuke Nakasato (Shinshu Univ.) Navier–Stokes–Korteweg equations with the zero sound speed in critical
spaces 10

05-01-0030

- 71 Masahiro Suzuki (Nagoya Inst. of Tech.) Stationary flows for viscous heat-conductive fluid in a perturbed half-
Mingjie Li (Minzu Univ. of China) space 10
Katherine Zhiyuan Zhang
(Northeastern Univ.)

05-01-0029

- 72 Masahiro Suzuki (Nagoya Inst. of Tech.) The asymptotic behavior of solutions to the Vlasov–Poisson equation
Wenrui Huang (Brown Univ.) in convex domains 10
Benoît Pausader (Brown Univ.)

05-01-0054

- 73 Taiki Okazaki (Tohoku Univ.) On the uniqueness of the surface quasi-geostrophic equation with the
Tsukasa Iwabuchi (Tohoku Univ.) fractional Laplacian 10

05-01-0020

- 74 Mikihiro Fujii (Nagoya City Univ.) Sharp well-posedness and ill-posedness of the stationary quasi-geostrophic
Tsukasa Iwabuchi (Tohoku Univ.) equation 10

05-01-0069

- 75 Yoshiki Iida (Waseda Univ.) Resolvent problem for the linearized primitive equations on non-smooth
layers 10

14:15–16:30

05-01-0043

- 76 Kento Sube (Waseda Univ.) Well-posedness and analyticity of solutions to the stationary MHD equations 10

05-01-0045

- 77 Hiroki Ohyama (Kyoto Univ.) Asymptotics for the inviscid rotating stably stratified Boussinesq equations in a 3D layer 10
 Junha Kim (Ajou Univ.)
 Ryo Takada (Univ. of Tokyo)

05-01-0046

- 78 Hiroki Ohyama (Kyoto Univ.) Long-time solvability and asymptotics for the 3D rotating MHD equations 10

05-01-0074

- 79 Masakazu Yamamoto (Gunma Univ.) Logarithmic time evolution of incompressible Navier–Stokes flow and symmetric structure of its drift term 10

05-01-0013

- 80 Yuta Koizumi (Waseda Univ.) On analyticity in time of Koch–Tataru solutions to the Navier–Stokes equations 10

05-01-0086

- 81 Kenta Oishi (Nat. Inst. of Tech., Kagawa Coll.) Time-periodic solutions for the Lagrangian formulation of the one-phase problem for the incompressible Navier–Stokes equations 10

05-01-0052

- 82 Taiki Takeuchi (Kyushu Univ.) Unique existence of solutions to the Navier–Stokes system with singular external forces 10

05-01-0058

- 83 Motofumi Aoki (Kyoto Univ.) On the non-uniqueness of solutions to the two-dimensional forced Navier–Stokes equations in the half space 10
 Yasunori Maekawa (Kyoto Univ.)

05-01-0023

- 84 Yosuke Asami (Nagoya Univ.) Regularity properties of a generalized Oseen evolution operator in exterior domains, with applications to the Navier–Stokes initial value problem 10
 Toshiaki Hishida (Nagoya Univ.)

05-01-0005

- 85 Keiichi Watanabe (Suwa Univ. of Sci.) Unique strong solution to the stationary Navier–Stokes equations around a uniform flow in the whole plane 10

05-01-0061

- 86 Kazuyuki Tsuda (Kyushu Sangyo Univ.) Critical decay rate of stability for stationary solutions to the Navier–Stokes equations in exterior domains 10
 Reinhard Farwig (TU Darmstadt)

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

05-02-0002

- Mitsuo Higaki (Kobe Univ.) A Runge-type approximation theorem for the unsteady Stokes equations

Real Analysis

September 18th (Thu)

10:00–11:30

06-01-0006

- 1 Masaya Kitajima (Nagoya Univ.) Application of differential formulas for generalized Bessel functions to the evaluation of lattice point errors for astroid-type p -circles 15

06-01-0008

- 2 Katsuo Matsuoka (Toho Univ.) Boundedness of some sublinear operators in power-weighted Herz spaces at indices beyond critical index 15

06-01-0013

- 3 Hiroki Saito (Nihon Univ.) Weighted trace inequality with Hausdorff capacity 15

06-01-0003

- 4 Jingeon An (Univ. of Basel)^b Second order estimates for a free boundary phase transition 15

06-01-0009

- 5 Haesung Lee (Kumoh National Inst. of Tech.) Local elliptic regularity for solutions to stationary Fokker–Planck equations via Dirichlet forms and resolvents 15

14:15–15:30

06-01-0004

- 6 Yoshifumi Ito (Tokushima Univ.*^a) Reality of showing signs of physical phenomena 15

06-01-0005

- 7 Yoshifumi Ito (Tokushima Univ.*^a) Phenomena of spectra of the hydrogen atoms 15

06-01-0007

- 8 Kenichi Mitani (Okayama Pref. Univ.) Skewness and modulus of smoothness in Banach space 15

06-01-0021

- 9 Shin-ya Matsushita (Akita Pref. Univ.) Inertial projection algorithm for fixed point problem 15

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

06-02-0001

- Toru Nogayama (Tokyo Univ. of Sci.) A study of function spaces with mixed norm

September 19th (Fri)

10:00–12:00

06-01-0001

- 10 Shohei Kohatsu (Tokyo Univ. of Sci.) Global existence and boundedness of weak solutions to a Keller–Segel system with flux dependent sensitivity and superlinear production ... 15

06-01-0018

- 11 Naotaka Ukai (Chiba Univ.) Solvability of a pseudo-parabolic system based on a gradient flow with unknown-dependent energy 15
Daiki Mizuno (Chiba Univ.)
Ken Shirakawa (Chiba Univ.)
Harbir Antil (George Mason Univ.)

06-01-0012

- 12 Hana Kakiuchi (Japan Women's Univ.) On behavior of free boundaries to two-phase Stefan problems for parabolic partial differential equation systems 15
Toyohiko Aiki (Japan Women's Univ.)

06-01-0015

- 13 Daiki Mizuno (Chiba Univ.) Optimal control problem for grain boundary motion with heat exchange and variable-dependent mobility 15
Ken Shirakawa (Chiba Univ.)

06-01-0017

- 14 Akiko Morimura Existence of weak solutions to a system describing moisture transport in porous media with an elliptic-parabolic equation 15
 (Japan Women's Univ.)
Toyohiko Aiki (Japan Women's Univ.)

06-01-0020

- 15 Yuya Tanaka (Kwansei Gakuin Univ.) Boundedness and asymptotic behavior of classical solutions to a model for tuberculosis granuloma formation 15
Masaaki Mizukami
 (Kyoto Univ. of Edu.)

06-01-0002

- 16 Yutaro Chiyo (Tokyo Univ. of Sci.) Global existence and boundedness in a one-dimensional quasilinear
 Kazuki Hasegawa (Tokyo Univ. of Sci.) parabolic–elliptic–elliptic chemotaxis system with flux limitation 15
 Shohei Kohatsu (Tokyo Univ. of Sci.)
 Tomomi Yokota (Tokyo Univ. of Sci.)

14:15–15:45

06-01-0014

- 17 Chiharu Kosugi (Yamaguchi Univ.) A class of energy conservation systems representing stretching and
 shrinking motions of the elastic curve with the compressible stress
 function 15

06-01-0019

- 18 Yusuke Murase (Meijo Univ.) Numerical analysis of mathematical modeling for moisture transport
 with upwind difference scheme 15

06-01-0010

- 19 Risei Kano (Kochi Univ.) On the boundary conditions of the Bernoulli–Euler beam model with
 Takahiro Yamanaka piezoelectric effects 15
 (Kochi Prefectural Sukumo High School)

06-01-0016

- 20 Hiroshi Watanabe (Oita Univ.) Existence of solutions to a 3D-model associated with grain boundary
 Ken Shirakawa (Chiba Univ.) motion with anisotropy 15
 Jose Salvador Moll (Univ. Valencia)

06-01-0011

- 21 Takeshi Fukao (Ryukoku Univ.) Characterization of dynamic boundary conditions in the zero-thickness
 limit 15

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

06-02-0002

- Yoshiho Akagawa (Kyoto Univ. of Edu.) Variational inequality with time-nonlocal unknown dependence for kine-
 matic hardening

Functional Analysis

September 16th (Tue)

9:30–10:30

07-01-0001

- 1 Shuji Watanabe (Sanjo City Univ.) The Bogoliubov transformation and the gap equation in the BCS model of superconductivity with external magnetic field II 15

07-01-0004

- 2 Hiroki Sako (Niigata Univ.) On intertwining operators between quantum walks 15

07-01-0008

- 3 Fumio Hiroshima (Kyushu Univ.) Fiber decomposition of NCHO by 2pQRM 15

07-01-0005

- 4 Yoritaka Iwata
(Osaka Univ. of Economics Law) Cauchy problem of any order hyperbolic evolution equations in Besov spaces 15
Takahiro Noi (Otemon Gakuin Univ.)

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

07-02-0003

- Takeshi Wada (Shimane Univ.) On initial boundary value problems for Maxwell–Schrödinger equations

September 17th (Wed)

10:00–10:45

07-01-0006

- 5 Akihito Hora (Hokkaido Univ.) Jucys–Murphy elements for wreath products and dynamical random multi Young diagrams 15

07-01-0013

- 6 Toshihisa Kubo (Ryukoku Univ.) The branching law of a scalar generalized Verma module for $(\mathfrak{sl}(n+1, \mathbb{C}), \mathfrak{p}_{1,n})$ to $\mathfrak{sl}(n, \mathbb{C})$ 15

07-01-0016

- 7 Atsumu Sasaki (Tokai Univ.) Weyl group of reductive real spherical homogeneous space of real line bundle type 15

11:00–12:00 Talk Invited by Functional Analysis Section

07-02-0002

- Shuji Horinaga (NTT-IFM) On local A-parameters containing unitary lowest weight representations of unitary groups and applications

September 18th (Thu)

10:00–11:10

07-01-0003

- 8 Takeaki Yamazaki (Toyo Univ.) On numerical range of generalized Aluthge trnasforms 10
Chafiq Benhida (Univ. de Lille)

07-01-0007

- 9 Yuki Seo (Osaka Kyoiku Univ.) Matrix trace inequalities related to matrix geometric means 15

07-01-0010

- 10 Shigeru Furuichi (Nihon Univ.) Matrix inequalities via block matrices 15

07-01-0011

- 11 Junichi Fujii (Osaka Kyoiku Univ.*) A criterion of operator divergence 15

07-01-0015

- 12 Dante Hoshina
(Nat. Inst. of Tech., Kisarazu Coll.) ALM-framework in the theory of multivariate operator means 15
Shuhei Wada
(Nat. Inst. of Tech., Kisarazu Coll.)

14:15–14:55

07-01-0009

13 Katsuhisa Koshino (Kanagawa Univ.) Isometries between spaces of metrics 15

07-01-0012

14 Hajime Moriya (Kanazawa Univ.)^b Graded tensor-product extension of KMS states 10

07-01-0017

15 Taro Sogabe (Kyoto Univ.)^b Ergodic automorphisms on unital Kirchberg algebras 15

Kengo Matsumoto

(Joetsu Univ. of Edu.)

15:10–16:10 Talk Invited by Functional Analysis Section

07-02-0001

Michiya Mori (Univ. of Tokyo) Various generalizations of Wigner's theorem

Statistics and Probability

September 16th (Tue)

9:00–12:00

08-01-0023

- 1 Hiromichi Ono (Kyoto Univ.) Hausdorff dimension of the limit sets of tree iterated function systems 15

08-01-0037

- 2 Katsunori Fujie (Kyoto Univ.) Perturbed Random Matrices and Free Probability of Type B' 15
Takahiro Hasebe (Hokkaido Univ.)

08-01-0013

- 3 Kenshiro Tashiro The Bakry–Émery gradient estimate and the Dyson Brownian motion 15
(Okinawa Inst. of Sci. and Tech. Grad. Univ.)
Kohei Suzuki (Durham Univ.)

08-01-0004

- 4 Ryo Inayoshi (Meijo Univ.) An operator information quantity of a semigroup and associated differential equations 15

08-01-0014

- 5 Masaaki Fukasawa (Univ. of Osaka) Limit distribution of errors in discretization of stochastic Volterra equations with multidimensional kernel 15
Minato Hojo (Univ. of Osaka)

08-01-0015

- 6 Masaaki Fukasawa (Univ. of Osaka) Liquidity provision of utility indifference type in decentralized exchanges 15
Basile Maire (Quantena AG)
Marcus Wunsch
(ZHAW School of Management and Law)

08-01-0035

- 7 Kei Noba (Univ. of Osaka) Scale functions for spectrally negative Lévy processes killed by additive functionals 15
José Luis Pérez (CIMAT)

08-01-0012

- 8 Ryoichiro Noda (Kyoto Univ.) Generalized Kac's moment formula for positive continuous additive functionals 15
Naotaka Kajino (Kyoto Univ.)

08-01-0007

- 9 Takumu Ooi (Tokyo Univ. of Sci.) Homeomorphism of the Revuz correspondence for finite energy integrals 15

08-01-0005

- 10 Yuichi Shiozawa (Doshisha Univ.) Volume growth, big jump, and essential spectrum for regular Dirichlet forms 15

08-01-0008

- 11 Naomasa Ueki (Kyoto Univ.) A definition of self-adjoint operators derived from the Schrödinger operator with the white noise potential on the plane 15

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

08-02-0003

- Toru Sera (Univ. of Osaka) Distributional limit theorems for intermittent dynamical systems and one-dimensional diffusion processes

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

08-02-0004

- Ryosuke Shimizu (Kyoto Univ.) Singularity phenomena of Sobolev spaces and energy measures on fractals

September 17th (Wed)

9:20–11:20

08-01-0027

- 12 Teruo Tanaka (Hiroshima City Univ.) Nonlinear semigroups associated with optimal stopping problems for discrete time multiparameter Markov processes 15

08-01-0029

- 13 Toshiharu Fujita Max-add criterion in diverging Markov decision process 10
(Kyushu Inst. of Tech.)

08-01-0006	14 Hidefumi Kawasaki (Kyushu Univ.)	Weak extension of the ham-sandwich theorem: some ratio not in half	15
08-01-0002	15 Shintaro Hashimoto (Hiroshima Univ.)	Robust Bayesian inference for censored survival data	15
08-01-0003	16 Yuzo Maruyama (Chiba Univ.) Akimichi Takemura (Shiga Univ.)	A new perspective on dominating the James–Stein estimator	15
08-01-0009	17 Yoshihiko Maesono (Chuo Univ.) Shota Akiba (Chuo Univ.)	Another representation of kernel quantile regression	10
08-01-0010	18 Yoshihide Kakizawa (Hokkaido Univ.) Gu Yuting	Nonparametric regression using asymmetric kernels	15
08-01-0018	19 Koji Tsukuda (Kyushu Univ.) Shun Matsuura (Keio Univ.)	Upper bounds for the MSE of estimators in allometric regression model: cases of elliptically symmetric error distributions	15
08-01-0034	20 Yuki Hayashi (Nanzan Univ.) Takayuki Shiohama (Nanzan Univ.)	Adaptive estimation for the parameters of Jones–Pewsey distribution	10

11:30–12:00 Research Section Assembly

September 18th (Thu)

9:30–11:45

08-01-0017	21 Kou Fujimori (Shinshu Univ.) Hirosi Shiraishi (Keio Univ.) Junichi Hirukawa (Nanzan Univ.) Konstantinos Fokianos (Univ. of Cyprus)	Sparse estimators for multivariate integer-valued autoregressive models with applications to estimations for Hawkes processes	15
08-01-0030	22 Yuta Koike (Univ. of Tokyo)	Second-order accuracy of the double wild bootstrap in high-dimensions	15
08-01-0032	23 Shogo Nakakita (Univ. of Tokyo)	Generalization error analysis of binary linear classification problems by Lipschitz concentration	15
08-01-0033	24 Shogo Nakakita (Univ. of Tokyo)	Sparse estimation of high-dimensional Ornstein–Uhlenbeck processes with repeated observations	15
08-01-0028	25 Takayuki Yamada (Kyoto Women’s Univ.) Tetsuto Himeno (Shiga Univ.)	Testing the diagonality of the covariance matrix in high-dimensional data with missing values	15
08-01-0016	26 Tetsuya Umino (Univ. of Tsukuba) Kazuyoshi Yata (Univ. of Tsukuba) Makoto Aoshima (Univ. of Tsukuba)	Automatic sparse estimation of the high-dimensional covariance matrix	15
08-01-0020	27 Kento Egashira (Tokyo Univ. of Sci.) Kazuyoshi Yata (Univ. of Tsukuba) Makoto Aoshima (Univ. of Tsukuba)	Change point detection for high dimensional data under a strongly spiked eigenvalue model	15
08-01-0024	28 Yujie Xue (Inst. of Stat. Math.) Anna Clara Monti (Univ. of Sannio) Masanobu Taniguchi (Waseda Univ.*)	Higher-order investigation of general time series divergences	10

12:15–12:45 Presentation Ceremony for the 2025 MSJ Analysis Prize**14:15–15:15 Talk Invited by Statistics and Probability Section**

08-02-0001

Takeshi Emura (Hiroshima Univ.)^b Factorial survival analysis for treatment effects under dependent censoring and its asymptotic theory

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

08-02-0002

Tomoaki Imoto (Univ. of Shizuoka) The constructions of flexible circular, toroidal, and cylindrical distributions and their applications

September 19th (Fri)

10:00–11:45

08-01-0011

29 Hiroto Inoue *F-t* joint distribution and its application for two-sample problem 15
(Nishinippon Inst. of Tech.)

08-01-0021

30 Rintaro Ichiya (Waseda Univ.) Detection of chaotic behaviors in stochastic systems 15
Rinka Sagawa (Waseda Univ.)
Yan Liu (Waseda Univ.)

08-01-0026

31 Rikako Nomura (Waseda Univ.) Normalizing transformation of the Hill estimator 15
Yan Liu (Waseda Univ.)

08-01-0031

32 Noboru Nomura (Kochi Univ.) Estimation in conjoint analysis based on Gaussian distribution 15

08-01-0019

33 Satoru Shinoda (Yokohama City Univ.) A measure of departure from h th-order marginal symmetry for multi-way contingency tables 15
Takuya Yoshimoto
(Chugai Pharmaceutical Co./Yokohama City Univ.)
Kouji Tahata (Tokyo Univ. of Sci.)

08-01-0022

34 Atsushi Komaba (Univ. of Yamanashi) Kolmogorov–Smirnov test, Kuiper test and OVL- q test 15
Hisashi Johno (Univ. of Yamanashi)
Kazunori Nakamoto
(Univ. of Yamanashi)

08-01-0025

35 Tomoyuki Nakagawa An information-geometric interpretation of the partitioning of goodness-of-fit test statistics for symmetry in square contingency tables 15
(Meisei Univ./RIKEN)
Takeru Matsuda
(Univ. of Tokyo/RIKEN)
Kouji Tahata (Tokyo Univ. of Sci.)

Applied Mathematics

September 16th (Tue)

9:30–11:45

09-01-0056

- 1 Kazunori Matsuda
(Kitami Inst. of Tech.)

The minimum number of edges of connected graphs with $\text{ind-match}(G) = p$, $\text{min-match}(G) = q$ and $\text{match}(G) = r$ 15

09-01-0011

- 2 Shinya Fujita (Yokohama City Univ.)

High connectivity keeping paths in graphs 10

09-01-0035

- 3 Atsuhiko Nakamoto
(Yokohama Nat. Univ.)

4-Polychromatic 5-coloring of subcubic plane graphs 15

Naoki Matsumoto (Univ. of Ryukyus)

Kyosuke Wakayama

(Yokohama Nat. Univ.)

Alkajim Ahadi Aradais

(Mindanao State Univ.)

09-01-0037

- 4 Shohei Satake (Kumamoto Univ.)
Yoshinori Yamasaki (Ehime Univ.)

On the embeddability of the Markoff mod p graph 15

09-01-0015

- 5 Emerson Gaw Escobar (Kobe Univ.)
Woojin Kim (KAIST)

Barcoding invariants and their equivalent discriminating power 15

09-01-0008

- 6 Hideki Matsumura
(Tokyo Metro. Univ.)

Ellipsoidal designs and the Prouhet–Tarry–Escott problem 15

Masanori Sawa (Kobe Univ.)

09-01-0050

- 7 Tomoki Tamaru (Kobe Univ.)
Masanori Sawa (Kobe Univ.)
Masatake Hirao (Aichi Pref. Univ.)

The subdesign problem in the Barnes–Wall and shorter Leech lattices
..... 15

09-01-0036

- 8 Eiichi Bannai (Kyushu Univ.*)
Hirotake Kurihara (Yamaguchi Univ.)
Hiroshi Nozaki (Aichi Univ. of Edu.)

On the existence and non-existence of spherical m -stiff configurations
..... 15

14:15–15:15 Talk Invited by Applied Mathematics Section

09-02-0001

- Masatake Hirao (Aichi Pref. Univ.) Spherical design theory and its applications

15:30–16:35

09-01-0038

- 9 Xiao-Nan Lu (Gifu Univ.)

Completely uniform nested pairings in Boolean Steiner quadruple systems 15

09-01-0043

- 10 Munenori Inagaki (Kobe Univ.)
Yukihiro Uchida (Tokyo Metro. Univ.)
Masanori Sawa (Kobe Univ.)
Hideki Matsumura
(Tokyo Metro. Univ.)

The multidimensional Prouhet–Tarry–Escott problem and combinatorial designs I 15

09-01-0041

- 11 Nobuko Miyamoto (Tokyo Univ. of Sci.)
Shoko Chisaki (Osaka Inst. of Tech.)
Ryoh Fuji-Hara (Univ. of Tsukuba*)

Mutually orthogonal block sequences and spreads in a finite projective space 15

09-01-0044

- 12 Kazuki Matsubara (Saitama Univ.)
Shoko Chisaki (Osaka Inst. of Tech.)
Ryoh Fuji-Hara (Univ. of Tsukuba*)
Nobuko Miyamoto (Tokyo Univ. of Sci.)

A construction of regular rectangular designs 15

16:50–17:50 Talk Invited by Applied Mathematics Section

09-02-0002

Mariko Hagita (Ochanomizu Univ.) Discrete mathematical approaches to impression evaluation

September 17th (Wed)

9:00–11:50

09-01-0021

- 13 Taisuke Hosaka (Yokohama Nat. Univ.) Pulsation of quantum walk on graph with bridge 15
 Etsuo Segawa (Yokohama Nat. Univ.)

09-01-0022

- 14 Tatsuya Tsurii A study on periodicity of Fourier walk using group structures obtained
 (Tokyo Univ. of Information Sci.) from its evolution matrix 15
 Naoharu Ito (Nara Univ. of Edu.)
 Itsuki Kawabata
 (Takatsuki Yanagawa Junior High School)

09-01-0029

- 15 Hiroto Sekido (Yokohama Nat. Univ.) Periodicity of quantum graph walks defined by covering graphs 15
 Etsuo Segawa (Yokohama Nat. Univ.)

09-01-0053

- 16 Kei Saito (Nihon Univ.) A spectral mapping theorem for the quantum searching algorithm via
 Yusuke Ide (Nihon Univ.) quantum walks 15
 Norio Konno (Nihon Univ.)
 Kazuhiro Saito (KDDI Research, Inc.)
 Satoshi Watanabe
 (KDDI Research, Inc.)

09-01-0031

- 17 Tomohiro Washino Defining equations of the set of true parameters 15
 (Nat. Inst. of Tech., Nara Coll.)
 Tadashi Takahashi
 (Hagoromo Univ. of Int. Stud.)

09-01-0006

- 18 Hirotake Yaguchi (Mie Univ.*) Generation of nonrecursive n -bit pseudorandom numbers by two times
 (n -bit) $\times$ (n -bit) multiplication ($n = 64, 128, 192, \dots, 16384$) 15

09-01-0040

- 19 Tetsuya Nagano (Univ. of Nagasaki*) Note on unforgeability of a digital signature scheme based on Finsler
 encryption 15

09-01-0018

- 20 Masaki Kashima (Keio Univ.) Degree sum condition for claw-free graphs to have a 2-factor with few
 components 15

09-01-0019

- 21 Jun Fujisawa (Keio Univ.) Matching extension in regular non-bipartite graphs 15

09-01-0045

- 22 Kenta Noguchi (Tokyo Univ. of Sci.) 4-connected graphs with and without HISTs 15

13:10–14:00

09-01-0005

- 23 Iwao Sato (Oyama Nat. Coll. of Tech.) A characteristic polynomial for the transition probability matrix of a
 Takashi Kmatsu (Univ. of Yamanashi) correlated random walk on a graph 15
 Norio Konno
 (Ritsumeikan Univ./Yokohama Nat. Univ.*)

09-01-0030

- 24 Kosei Watanabe (Nagoya Univ.) A decomposition formula of a Bartholdi zeta function of some covering
 of a hypergraph 15

09-01-0042

- 25 Takashi Komatsu (Univ. of Yamanashi) Matrix zeta function on covering graphs 15
 Norio Konno
 (Ritsumeikan Univ./Yokohama Nat. Univ.*)
 Iwao Sato (Oyama Nat. Coll. of Tech.)
 Hideo Mitsuhashi (Hosei Univ.)

September 18th (Thu)

10:00–12:00

09-01-0025

- 26 Kota Ikeda (Meiji Univ.) Characterization of a periodic solution in a differential-difference equation derived from the optimal velocity model 15
Tomoyuki Miyaji (Kyoto Univ.)

09-01-0026

- 27 Yumihiko S. Ikura (Meiji Univ.) On periodic solutions generated by Greenberg–Hastings cellular automata 15
Hirokazu Ninomiya (Meiji Univ.)

09-01-0027

- 28 Kazuo Takemura (Nihon Univ.) Green's function for nonlocal multipoint boundary value problems of the linear differential operator $(-1)^M(d/dx)^{2M}$ 15

09-01-0039

- 29 Tetsuya Ishiwata On the effects of distributed delays on blow-up of solutions 15
(Shibaura Inst. of Tech.)
Yu Ichida (Kwansei Gakuin Univ.)
Yukihiko Nakata
(Aoyama Gakuin Univ.)

09-01-0047

- 30 Koichi Anada Remarks on behavior for Type II blow-up solutions of a quasilinear parabolic equation in the curve shortening problems 15
(Waseda Univ. Senior High School)
Tetsuya Ishiwata
(Shibaura Inst. of Tech.)
Takeo Ushijima (Tokyo Univ. of Sci.)

09-01-0048

- 31 Hideki Murakawa (Ryukoku Univ.) A relationship between haptotaxis and chemotaxis in cell sorting phenomena 15
Yoshitaro Tanaka
(Future Univ.-Hakodate)

09-01-0049

- 32 Masumi Kondo (Okayama Univ. of Sci.) Conditional Ulam stability for the Gompertz model 15
Masakazu Onitsuka
(Okayama Univ. of Sci.)

14:15–16:00

09-01-0001

- 33 Yu Ichida (Kwansei Gakuin Univ.) Pull-in and touchdown phenomena in mathematical models of micro-machine behavior 15
Daisuke Yamane (Ritsumeikan Univ.)

09-01-0012

- 34 Hideki Kawahara (Nagoya Univ.) Numerical approximation of delay differential equations via operator splitting in fractional domains 15

09-01-0020

- 35 Yoshitaka Watanabe (Kyushu Univ.) Numerical verification for Elkouh's problem representing fluid flow between parallel circular disks 15
Shuting Cai (Fujian Jiangxia Univ.)

09-01-0034

- 36 Takuya Tsuchiya (Meiji Gakuin Univ.) On structure-preserving numerical calculation of wave equation for a vector field 15

09-01-0046

- 37 Akitoshi Takayasu (Univ. of Tsukuba) Computer-assisted proof of a saddle-to-saddle connection in the Swift–Hohenberg equation 15

09-01-0051

- 38 Makoto Okumura (Konan Univ.) A finite difference scheme for the Cahn–Hilliard equation with dynamic boundary conditions using a nonlinear difference 15

16:15–17:15 Award Lecture for the 2024 Applied Mathematics Prize

09-02-0004

- Masato Kimura (Kanazawa Univ.) Irreversible fracture phase field models: Energy dissipation structure and applications

September 19th (Fri)

10:00–12:00

09-01-0004

39 Shunji Horiguchi Extended Schröder's method 10

09-01-0009

40 Shunji Horiguchi Relations between Newton's method, the extended Newton's method, Schröder's method and interior, exterior division points 7

09-01-0013

41 Fuminori Sakaguchi (Univ. of Fukui) Continued fractions, Euclidean algorithm and an integer-type algorithm for solving ODEs 15

09-01-0014

42 Atsushi Nakayasu (Univ. of Tokyo) On a calculation method of the thickness via partial differential equations 15
Takayuki Yamada (Univ. of Tokyo)

09-01-0016

43 Toru Kan (Osaka Metro. Univ.) Asymmetric front propagation in the bistable reaction-diffusion equation on a metric graph 15
Yoshihisa Morita (Ryukoku Univ.*)
Ken-Ichi Nakamura (Meiji Univ.)
Chang-Hong Wu
(National Yang Ming Chiao Tung Univ.)

09-01-0052

44 Kazuyuki Yagasaki (Kyoto Univ.) Bifurcations of synchronized solutions in the Kuramoto model with two-mode interaction depending on two graphs 15

09-01-0007

45 Takashi Furuya (Doshisha Univ.) Transformers are universal in-context learners 15

09-01-0024

46 Ryota Kawasumi (Gunma Univ.) Universal approximation property of neural ODEs via Orlicz norms 15
Ikeda Masahiro (Univ. of Osaka)**14:15–16:00**

09-01-0017

47 Enhao Liu (Kyoto Univ.) Interval multiplicities of persistence modules 15
Hideto Asashiba (Shizuoka Univ.*)

09-01-0010

48 Kota Takeda (Nagoya Univ.) Error analysis of the ensemble Kalman filter with partial and noisy observations 15

09-01-0028

49 Shunsuke Kaji (Meijo Univ.) An inverse problem of partial differential equation for the future of interest rate 15
Yasushi Ota (St. Andrew's Univ.)

09-01-0032

50 Isamu Ohnishi (Hiroshima Univ.) Comparative analysis of control strategies for a linear system with noise 15

09-01-0033

51 Isamu Ohnishi (Hiroshima Univ.) Stochastic model predictive control of cheer spikes and low-frequency noise in outdoor festivals 15

09-01-0054

52 Rikuki Okamoto (Ritsumeikan Univ.) On the distribution of conditional maxima for quantum walks 15
Norio Konno
(Ritsumeikan Univ./Yokohama Nat. Univ.*)
Jiro Akahori (Ritsumeikan Univ.)
Syohei Koyama (Ritsumeikan Univ.)**16:15–17:15 Talk Invited by Applied Mathematics Section**

09-02-0003

Ayuki Sekisaka (Meiji Univ.) Spectral stability of traveling waves and mathematical structure: A perspective from domain dimensionality and boundedness

Topology

September 16th (Tue)

9:30–12:00

10-01-0042

- 1 Norihisa Takahashi (Ritsumeikan Univ.) On certain irreducible finite group actions on surfaces 10
Hiraku Nozawa (Ritsumeikan Univ.)

10-01-0014

- 2 Naoyuki Monden (Okayama Univ.) On Nielsen equivalence classes of two-elements generators of mapping
Susumu Hirose (Tokyo Univ. of Sci.) class groups 15

10-01-0025

- 3 Nariya Kawazumi (Univ. of Tokyo) On stable covariantly twisted cohomology of the mapping class group
Arthur Soulié for surfaces 15
(Univ. Caen Normandie/CNRS)

10-01-0026

- 4 Nariya Kawazumi (Univ. of Tokyo) On the Weil–Petersson symplectic form on the Teichmüller space 15

10-01-0039

- 5 Takuya Sakasai (Univ. of Tokyo) A variant of groups defined by Kim and Manturov 10
Yuuki Tadokoro (Tokyo Univ. of Sci.)
Kokoro Tanaka (Tokyo Gakugei Univ.)

10-01-0034

- 6 Kanako Oie (Nara Women's Univ.) On the spectrum of the number of geodesics and tight geodesics in the
Hirosige Shiga (Sci. Tokyo*) curve complex 15
Ryo Matsuda (Kyoto Univ.)

10-01-0003

- 7 Aoi Wakuda (Univ. of Tokyo) A separability criterion for two loops on an orientable surface and the
Goldman bracket 15

10-01-0009

- 8 Tsukasa Ishibashi (Tohoku Univ.) Cyclic quantum Teichmüller theory 15

14:30–16:00

10-01-0007

- 9 Reo Yabuguchi (Okayama Univ.) Knot surgered elliptic surfaces for a $(2, 2h + 1)$ -torus knot 15
Naoyuki Monden (Okayama Univ.)

10-01-0021

- 10 Natsuya Takahashi (Univ. of Osaka) Stein fillings of planar contact 3-manifolds admitting genus-2 relative
Nobutaka Asano trisections 15
(Tsuyama Nat. Coll. of Tech.)

10-01-0001

- 11 Tatsumasa Suzuki (Meiji Univ.) The non-simply connected Price twist for the 4-sphere 15
Tsukasa Isoshima (Keio Univ.)

10-01-0041

- 12 Motoo Tange (Univ. of Tsukuba) Exotic $E(n)$ without 1-handles 15

16:30–17:30 Talk Invited by Topology Section

10-02-0002

- Shuhei Maruyama (Kanazawa Univ.) On the Euler class of foliated sphere bundles

September 17th (Wed)

10:00–10:15 Presentation Ceremony for the 2025 MSJ Geometry Prize

10:20–11:20 Award Lecture for the 2025 MSJ Geometry Prize

03-02-0001

- Shin-ichi Matsumura (Tohoku Univ.) Structure theorems for varieties with non-negative curvature

12:50–13:50 Award Lecture for the 2025 MSJ Geometry Prize

03-02-0003

- Koichi Nagano (Univ. of Tsukuba) On the geometry of metric spaces with upper curvature bounds

September 18th (Thu)

9:30–11:30

10-01-0012

- 13 Naoki Kitazawa (Osaka Metro. Univ.) Reconstructing Morse functions with prescribed preimages of single points 15

10-01-0013

- 14 Naoki Kitazawa (Osaka Metro. Univ.) Reconstructing Morse functions on 3-dimensional compact and connected manifolds with prescribed preimages of single points 10

10-01-0017

- 15 Naoki Kitazawa (Osaka Metro. Univ.) A most natural special generic map whose image is an immersed compact manifold of codimension 0 and the cohomology rings of the manifolds 15

10-01-0032

- 16 Gakuto Kato (Nihon Univ.) On a construction of stable maps from a 3-manifold into the plane 10

10-01-0038

- 17 Saiei-Jaeyeong Matsubara-Heo (Tohoku Univ.) Distinguishing Euler characteristics 15

10-01-0016

- 18 Yasushi Hirata (Kanagawa Univ.)
Yukinobu Yajima (Kanagawa Univ.*) Embeddings as closed subspaces into irreducible spaces 15

10-01-0043

- 19 Kazuo Tomoyasu (Nat. Inst. of Tech., Miyakonojo Coll.)
Heikki Junnila (Univ. of Helsinki) Gartside's problem and hereditarily normal compactifications of metrizable spaces 15

14:15–16:00

10-01-0015

- 20 Michiaki Takiwaki (Kyoto Univ.) An isometry theorem induced by the Radon transform between the convolution and interleaving distances 15

10-01-0033

- 21 Katsuhiko Kuribayashi (Shinshu Univ.)
Takahito Naito (Nippon Inst. of Tech.)
Shun Wakatsuki (Nagoya Univ.)
Toshihiro Yamaguchi (Kochi Univ.) Algebraic interleavings of spaces over the classifying space of the circle 15

10-01-0011

- 22 Kohei Tanaka (Shinshu Univ.) Directed homotopy theory on stratified spaces and small categories ... 15

10-01-0002

- 23 Masaki Taho (Univ. of Tokyo) Topology and diffeology via metric-like functions 15

10-01-0031

- 24 Tadayuki Haraguchi (Naragakuen Univ.)
Kazuhisa Shimakawa (Okayama Univ.*) Adjunction spaces of diffeological spaces 15

16:30–17:30 Talk Invited by Topology Section

10-02-0001

- Toshiyuki Akita (Hokkaido Univ.) Associated groups of quandles, Wirtinger presentations, and group homology

September 19th (Fri)

9:30–12:00

10-01-0008

- 25 Keisuke Himeno (Hiroshima Univ.) The unoriented band unknotting number of torus knots 10

10-01-0022

- 26 Tetsuya Itoh (Kyoto Univ.) Slice Cromwell inequality of homogeneous knots 10

10-01-0028

- 27 Yujiro Miki (Kobe Univ.)
Kodai Wada 4-moves and Kawauchi's conjecture for 2-component links 10

10-01-0037	28 Noboru Ito (Shinshu Univ.) Hiroki Mizuno (Shinshu Univ.)	Arnold strangeness of surface immersions	15
10-01-0040	29 Migiwa Sakurai (Shibaura Inst. of Tech.) Yoshiyuku Ohyama (Tokyo Woman's Christian Univ.)	Infinitely many virtual knots which have any given sequence of n -writhes	10
10-01-0036	30 Shin Satoh (Kobe Univ.)	The α_2 -invariant of a ribbon 2-knot and a Gauss diagram	10
10-01-0018	31 Inasa Nakamura (Saga Univ.)	Deformations of dotted diagrams and reduced diagrams	10
10-01-0019	32 Inasa Nakamura (Saga Univ.)	Torus-covering knot groups and their irreducible metabelian $SU(2)$ - representations	10
10-01-0024	33 Katsumi Ishikawa (Kyoto Univ.) Masaaki Suzuki (Meiji Univ.) Takayuki Morifuji (Keio Univ.)	On TAV groups of knots	10
10-01-0010	34 Yuki Matsushima (Tokyo Metro. Univ.)	On the HOMFLY polynomial of an r^2 -periodic knot	15
10-01-0023	35 Keita Nakagane Jun Yoshida (RIKEN) Noboru Ito (Shinshu Univ.)	Twists on Frobenius algebra and link homology	10
14:15–16:30			
10-01-0006	36 Hajime Kubota (Kyoto Univ.)	On grid homology for diagonal knots	15
10-01-0027	37 Satoshi Tsuchimi (Kindai Univ.)	The Kontsevich function and the Zweegers' μ -function	15
10-01-0004	38 Sakumi Sugawara (Hokkaido Univ.)	The comology ring of the 3-manifold defined from a combinatorial line arrangement	15
10-01-0035	39 Yuuya Koda (Keio Univ./Hiroshima Univ.) Kazuto Takao (Tohoku Univ.)	Diagrammatic criteria for strong irreducibility of Heegaard splittings and finiteness of Goeritz groups	15
10-01-0029	40 Yasuyoshi Tsutsumi (Kobe Shinwa Univ.)	Lescop invariants of both the Brieskorn–Hamm manifolds obtained by Dehn surgeries on knots in an integral homology 3-sphere	10
10-01-0020	41 Kazuhiro Ichihara (Nihon Univ.) Toshio Saito (Joetsu Univ. of Edu.) Jong In Dae (Kindai Univ.)	On the knot complement conjecture and cosmetic surgery	15

Infinite Analysis

September 16th (Tue)

9:30–11:45

11-01-0010

- 1 Shota Shigetomi (Kyushu Univ.) A proof of existence of Kaleidocycle 15
Kenji Kajiwara (Kyushu Univ.)
Shizuo Kaji
 (Kyushu Univ./Kyoto Univ.)

11-01-0011

- 2 Serban Matei Mihalache From polygon equations to simplex equations 15
 (Univ. of Tokyo)
Tomoro Mochida (Tohoku Univ.)

11-01-0001

- 3 Youichi Shibukawa (Hokkaido Univ.) Quiver-theoretic Yang–Baxter equation and Garside theory (1) 15
Davide Ferri (Univ. of Turin)

11-01-0002

- 4 Youichi Shibukawa (Hokkaido Univ.) Quiver-theoretic Yang–Baxter equation and Garside theory (2) 15
Davide Ferri (Univ. of Turin)

11-01-0012

- 5 Yosuke Kawamoto (Okayama Univ.) Boundary Feller–Dynkin processes associated with Laguerre processes 15
Alexander I. Bufetov
 (Steklov Math. Inst. RAS, etc.)

11-01-0018

- 6 Yusuke Ohkubo (Setsunan Univ.) Kac determinant for a q -deformation of the direct sum of the $N=1$ super Virasoro algebra and the free fermion algebra 15

11-01-0004

- 7 Rei Inoue (Chiba Univ.) Quantized six-vertex model on a torus 15
Atsuo Kuniba (Univ. of Tokyo)
Yuji Terashima (Tohoku Univ.)
Junya Yagi (Tsinghua Univ.)

11-01-0005

- 8 Toshio Oshima (Univ. of Tokyo*) Transformations of Pfaffian systems with logarithmic singularities along hyperplane arrangements 15

14:15–15:20

11-01-0006

- 9 Genki Shibukawa A degeneration of the generalized Zwegers' μ -function according to the Ramanujan difference equation 15
 (Kitami Inst. of Tech.)
Satoshi Tsuchimi (Kindai Univ.)

11-01-0003

- 10 Yosuke Ohyama (Tokushima Univ.) Connection problems on q -Lommel functions 15

11-01-0009

- 11 Yumi Arai (Ochanomizu Univ.) On q -middle convolution and generalized q -hypergeometric equation .. 15

11-01-0007

- 12 Taikei Fujii (Kobe Univ.) Linear relations for Kajihara's q -hypergeometric series $\Phi_{1,1}^m$ and $\Phi_{2,0}^m$ 15
Nobukawa Takahiko (Kogakkan Univ.)

15:30–16:30 Talk Invited by Infinite Analysis Special Session

11-02-0001

- Takafumi Mase (Univ. of Tokyo) Exact calculation of degrees for lattice equations

September 17th (Wed)

9:30–10:35

11-01-0008

- 13 Tatsushi Shimazaki (Kobe Univ.) Pecial values of Grothendieck polynomials in terms of hypergeometric functions 15
 Takahiko Nobukawa (Kogakkan Univ.)
 Taikei Fujii (Kobe Univ.)

11-01-0013

- 14 Eriko Shinkawa (Tohoku Univ.) Virasoro action on Schur Q-functions and Pfaffian identities 15
 Kazuya Aokage
 (Ariake Nat. Coll. of Tech.)
 HiroFumi Yamada (Rikkyo Univ.)

11-01-0017

- 15 Masashi Hamanaka (Nagoya Univ.) Four-dimensional Wess–Zumino–Witten model and soliton resonances 15
 Shangshuai Li (Shanghai Univ.)
 Shan-Chi Huang (Nagoya Univ.)
 Da-Jun Zhang (Shanghai Univ.)

11-01-0015

- 16 Kanehisa Takasaki Large BKP vs. B-Toda in Lax–Sato form 15
 (Osaka Metro. Univ./Kyoto Univ.*)

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

11-02-0002

- Yuji Kodama (Ohio State Univ.)^b KP solitons and the Schottky uniformization