Created: 2019/12/17 10:35

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 ♭ means the presentation by using the whiteboard/blackboard. If you talk by using your PC/tablet, no mark is written.
- The mark ⋆ 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.

Contents

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Algebra 4
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Functional Analysis 23
Statistics and Probability 25
Applied Mathematics 28
Topology 32
Infinite Analysis 34

Foundation of Mathematics and History of Mathematics

March 16th (Mon)

9:30–12:00

01-01-0017
1 Teruyuki Yorioka (Shizuoka Univ.)
Tadatoshi Miyamoto (Nanzan Univ.)
YPFA implies MRP 15

01-01-0011
2 Daisuke Ikegami (Shibaura Inst. of Tech.)
Generic absoluteness in ZF 15

01-01-0005
3 Toshimichi Usuba (Waseda Univ.)
On generically extendible cardinals 15

01-01-0010
4 Diego A. Mejía (Shizuoka Univ.)
Lebesgue measure zero modulo ideals 15

01-01-0004
5 Kenetsu Fujita (Gunma Univ.)
George Boolos' "The Hardest Logic Puzzle Ever" revisited 15

01-01-0003
6 Takahiro Seki (Niigata Univ.)
A Gentzen-style formulation for involutive substructural logics with contraposition 15

01-01-0006
7 Yoshihito Tanaka (Kyushu Sangyo Univ.)
A representation of modal algebras preserving countably many infinitary meets and joins 15

01-01-0007
8 Yuya Okawa (Chiba Univ.)
Taishi Kurahashi (Nat. Inst. of Tech., Kisarazu Coll.)
Generalizations of Bennet's result on partially conservative sentences 15

14:15–15:00

01-01-0001
9 Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics)
Study of the Eulerian Integrals by Legendre 15

01-01-0002
10 Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics)
The complete functions by Legendre 15

01-01-0015
11 Hideyuki Majima (Ochanomizu Univ.)
Towards the year 2022, the 314th memorial year of SEKI Takakazu 15

15:15–16:15 Talk Invited by Section on Foundation and History of Mathematics

01-02-0002
Masahito Takase
Shaping the fountains in Modern Western Mathematics

March 17th (Tue)

9:00–10:30

01-01-0014
12 Kohtaro Tadaki (Chubu Univ.)
A refinement of quantum information theory by algorithmic randomness III 15

01-01-0012
13 Kenshi Miyabe (Meiji Univ.)
Toru Takisaka (Nat. Inst. of Information)
The speed of convergence of induction 15

01-01-0009
14 Hisashi Aratake (Kyoto Univ.)
Classifying toposes for existentially closed models and finite-generic models 15

01-01-0013
15 Kazuyuki Tanaka (Tohoku Univ.)
On eigen-distributions for Boolean trees in the ID case 15

01-01-0016
16 Keita Yokoyama (JAIST) Kripke models and separations of logical principles 15
Makoto Fujiwara (Meiji Univ.)
Hajime Ishihara (JAIST)
Takako Nemoto (JAIST)
Nobu-Yuki Suzuki (Shizuoka Univ.)

01-01-0008
17 Toshiyasu Arai (Univ. of Tokyo) Some contributions to proof theory 15

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

01-02-0001
Nobu-Yuki Suzuki (Shizuoka Univ.) Disjunction and existence properties in intermediate predicate logics

11:45–12:00 Research Section Assembly

12:00–12:15 Mathematics History Team Meeting

Algebra

March 16th (Mon)

10:00–12:00

02-01-0010
1 Hiroyuki Nakasora (Kobe Gakuin Univ.) — The extended doubling of the Golay code and the Moonshine code · · · · · 10

02-01-0002
2 Bernhard Mühlherr (Univ. Giessen), Koji Nuida (Univ. of Tokyo) — Locally finite continuations and Coxeter groups of infinite ranks · · · · · 10

02-01-0069
3 Naoki Chigira (Kumamoto Univ.) — Solutions of a certain equation on a group and group structure · · · · · 10

02-01-0035
4 Fumihito Oda (Kindai Univ.), Yugen Takegahara (Muroran Inst. of Tech.) — Crossed Burnside rings and Mackey 2-functors · · · · · 10

02-01-0045
5 Akihiko Hida (Saitama Univ.) — On the relation of the product of character degrees and the product of conjugacy class lengths of a finite group · · · · · 10

02-01-0046
6 Akihiko Hida (Saitama Univ.) — Lower defect groups and vertices of simple modules · · · · · 10

02-01-0005
7 Shigeo Koshitani ♭ (Chiba Univ. / Chiba Univ.⋆), Ipek Tuvay (Mimar Sinan Fine Arts Univ.) — Brauer indecomposability of Scott modules for the quadratic group $\mathrm{Qd}(p)$ · · · · · 10

02-01-0006
8 Shigeo Koshitani ♭ (Chiba Univ. / Chiba Univ.⋆), Caroline Lassueur (TU Kaiserslautern) — Splendid Morita equivalences for principal blocks with dihedral defect groups · · · · · 10

02-01-0007
9 Shigeo Koshitani ♭ (Chiba Univ. / Chiba Univ.⋆), Caroline Lassueur (TU Kaiserslautern) — Splendid Morita equivalences for principal blocks with generalised quaternion defect groups · · · · · 10

02-01-0067
10 Mawo Ito (Kyoto Univ.), Shuhei Kamioka (Kyoto Univ.) — A product formula for plane partitions derived from a biorthogonal polynomial · · · · · 10

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

02-02-0002
Kenichiro Tanabe (Hokkaido Univ.) ♭ — Representations of some fixed point subalgebra of the vertex algebra associated to a non-degenerate even lattice

15:30–16:50

02-01-0011
11 Mamoru Ueda (Kyoto Univ.) — Affine super Yangian · · · · · 10

02-01-0043
12 Satoru Urano (Univ. of Tsukuba) — Modular moonshine · · · · · 10

02-01-0055
13 Scott Carnahan (Univ. of Tsukuba) — Monstrous moonshine over the integers · · · · · 10

02-01-0054
14 Kazuya Kawasetsu (Kumamoto Univ.), David Ridout (Univ. of Melbourne) — Relaxed highest-weight modules over affine vertex operator algebras · · · · · 10

02-01-0008
15 Hiroki Shimakura (Tohoku Univ.) — On automorphism groups of the holomorphic VOAs associated with Niemeier lattices and the -1-isometries · · · · · 10

02-01-0056
16 Ching Hung Lam (Academia Sinica), Hiroshi Yamauchi (Tokyo Woman's Christian Univ.) — On a c=33 extremal VOA · · · · · 10

02-01-0024
17 Sota Asai (Kyoto Univ.) Wide intervals in lattices of torsion classes 10

March 17th (Tue)

10:00–11:45

02-01-0019
18 Masahisa Sato (Aichi Univ.) Some examples of rings and modules relating to Ware's problem 10

02-01-0026
19 Yoshiharu Shibata (Yamaguchi Univ.)
Isao Kikumasa (Yamaguchi Univ.)
Yosuke Kuratomi (Yamaguchi Univ.)
On dual square full modules 10

02-01-0016
20 Ayako Itaba (Tokyo Univ. of Sci.) On finite generations over centers of non-commutative projective schemes associated to 3-dimensional quadratic AS-regular algebras 10

02-01-0031
21 Masaki Matsuno (Shizuoka Univ.) The classification of 3-dimensional quadratic AS-regular algebras whose point schemes are elliptic curves 10

02-01-0030
22 Ji-Wei He (Hangzhou Normal Univ.)
Haigang Hu (Shizuoka Univ.)
Hopf dense Galois extensions over a ring 10

02-01-0061
23 Hiroki Matsui (Univ. of Tokyo) Construction of spectra of triangulated categories and their applications to commutative algebra 10

02-01-0070
24 Ayana Hirano (Kitami Inst. of Tech.)
Kazunori Matsuda (Kitami Inst. of Tech.)
Matching numbers and dimension of edge ideals 10

02-01-0023
25 Mitsuhiro Miyazaki (Kyoto Univ. of Edu.)
Janet Page (Univ. of Michigan)
On the traces of the canonical modules of the Ehrhart rings of order and chain polytopes 10

02-01-0032
26 Akihiro Higashitani (Osaka Univ.)
Hidefumi Ohsugi (Kwansei Gakuin Univ.)
Toric ideals of generalized permutohedra 10

13:00–14:15

02-01-0042
27 Hidefumi Ohsugi (Kwansei Gakuin Univ.)
Akiyoshi Tsuchiya (Univ. of Tokyo)
Nef-partitions arising from unimodular configurations 10

02-01-0039
28 Akiyoshi Tsuchiya (Univ. of Tokyo)
Takayuki Hibi (Osaka Univ.)
Initial ideals and their depth 10

02-01-0040
29 Chris McDaniel (Endicott Coll.) Equivariant coinvariant rings of finite groups 10

02-01-0041
30 Junzo Watanabe (Tokai Univ.*)
Chris McDaniel (Endicott Coll.)
A new definition of the principal radical system and an application to Specht ideals of type $(n-k,k)$ 10

02-01-0048
31 Kohsuke Shibata (Okayama Univ.)
Kohji Yanagawa (Kansai Univ.)
Hilbert series of Cohen–Macaulay Specht ideals 10

02-01-0049
32 Shreedevi Masuti (Chennai Math. Inst.)
Kazuho Ozeki (Yamaguchi Univ.)
Maria Evelina Rossi (Genova Univ.)
Hoang Le Truong (Saarlandes Univ.)
On the structure of the Sally module and the second normal Hilbert coefficient 10

March 18th (Wed)

9:20–12:00

02-01-0028
33 Tomohiro Iwami (Kyushu Inst. of Tech.) ♭ Semistable extremal neighborhoods rigged by framed-form fans of cusp-type singularities · · · · · 10

02-01-0029
34 Koji Nuida (Univ. of Tokyo) An elementary linear-algebraic proof for group law on elliptic curves · · · · · 10

02-01-0051
35 Makoto Sakurai (Kaichi Gakuen) Extension and applications of chiral algebra theory · · · · · 10

02-01-0017
36 Yoshifumi Tsuchimoto (Kochi Univ.) On curves on the non-commutative complex Kähler plane · · · · · 10

02-01-0004
37 Tetsuya Ando (Chiba Univ.) Theory of PSD cones on semialgebraic varieties · · · · · 10

02-01-0066
38 Norihiko Minami (Nagoya Inst. of Tech.) On the applicability of the sufficient criterion for a stronger hierarchy of higher uniruledness = lower unirationality via Bott tower · · · · · 10

02-01-0014
39 Yoshifumi Kato (Meijo Univ.) Curvature matrix of the universal bundle of the Grassmann variety · · · · · 10

02-01-0018
40 Yoshifumi Kato (Meijo Univ.) An observation on Schubert polynomials · · · · · 10

02-01-0015
41 Yuki Matsubara (Kobe Univ.) Tamely ramified geometric Langlands correspondence · · · · · 10

02-01-0020
42 Taketo Shirane (Tokushima Univ.)
Enrique Artal Bartolo (Univ. Zaragoza)
Shinzo Bannai (Ibaraki Nat. Coll. of Tech.)
Hiro-o Tokunaga (Tokyo Metro. Univ.) Torsion divisors of plane curves and Zariski pairs · · · · · 10

02-01-0047
43 Kohei Sato (Oyama Nat. Coll. of Tech.)
Yusuke Sato (Univ. of Tokyo) On Ashikaga's continued fractions and crepant resolutions for 3-dimensional Abelian quotient singularities · · · · · 10

02-01-0037
44 Yuto Yamamoto (IBS-CGP) Periods of tropical Calabi–Yau hypersurfaces · · · · · 10

02-01-0065
45 Takahiro Nagaoka (Kyoto Univ.) The universal covers of hypertoric varieties and Bogomolov's decomposition · · · · · 10

02-01-0027
46 Hiroto Akaike (Osaka Univ.) ♭ Slope inequalities for irregular cyclic covering fibration · · · · · 10

14:15–14:30 Presentation Ceremony for the 2020 MSJ Algebra Prize

14:40–15:40 Award Lecture for the 2020 MSJ Algebra Prize

02-02-0001
Ryo Takahashi (Nagoya Univ.) Generation in module categories and derived categories of commutative rings

15:50–16:50 Award Lecture for the 2020 MSJ Algebra Prize

02-02-0004
Takuzo Okada (Saga Univ.) Birational Mori fiber structures of Fano varieties and its application to rationality problems

March 19th (Thu)

9:20–12:00

02-01-0036
47 Fumitsuna Maruyama
Masao Toyoizumi (Toyo Univ.)
Yozo Deguchi Recent progress on Euler–Fermat type theorem on matrix ring · · · · · 10

02-01-0044
48 Kiyoto Yoshino (Tohoku Univ.)
Qianqian Yang (Univ. of Sci. Tech. China)
Non 2-integrable lattices of rank 12 10

02-01-0013
49 Akinari Hoshi (Niigata Univ.)
Kazuki Kanai (Niigata Univ.)
Aiichi Yamasaki (Kyoto Univ.)
Norm one tori and Hasse norm principle 10

02-01-0022
50 Akinari Hoshi (Niigata Univ.)
Kazuki Kanai (Niigata Univ.)
Aiichi Yamasaki (Kyoto Univ.)
Norm one tori and Hasse norm principle, II 10

02-01-0058
51 Yoshiaki Okumura (Tokyo Tech)
Non-existence of Drinfeld modules with constrained torsions 10

02-01-0033
52 Iwao Kimura (Univ. of Toyama)
Daiki Aoyama (Univ. of Toyama)
On an estimate of the relative class number of cyclotomic function field of prime conductor 10

02-01-0025
53 Mikihito Hirabayashi (Kanazawa Inst. of Tech.)
A generalization of Jakubec's formula related to the multiplication theorem for Bernoulli polynomials 10

02-01-0062
54 Yuki Kato (Ube Nat. Coll. of Tech.)
Homotopy invariant K-theory of perfectoidification of regular local rings 10

02-01-0009
55 Kazuto Ota (Keio Univ.)
Big Heegner points and generalized Heegner cycles 10

02-01-0063
56 Yuichi Sakai (Kyushu Univ.)
Kiyokazu Nagatomo (Osaka Univ.)
Characterization of minimal models by modular linear differential equations of order 4 and their modules 10

02-01-0034
57 Wataru Takeda (Nagoya Univ.)
Factorial functions represented as norm forms 10

02-01-0057
58 Kazunari Sugiyama (Chiba Inst. of Tech.)
Prehomogeneous zeta functions and the Katok–Sarnak correspondence 10

02-01-0052
59 Ryojun Ito (Chiba Univ.)
On special values at integers of L-functions of Jacobi theta products of weight 3 10

02-01-0021
60 Masatoshi Suzuki (Tokyo Tech)
On a family of integral operators arising from zeta functions. II. 10

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

02-02-0003
Kenichi Namikawa (Kyushu Univ.)
Explicit constructions of automorphic forms and its applications to Iwasawa theory

15:25–16:50

02-01-0064
61 Masahiro Mine (Tokyo Tech)
Moments of L-functions associated with cubic fields 10

02-01-0059
62 Ade Irma Suriajaya (Kyushu Univ./RIKEN)
Shōta Inoue (Nagoya Univ.)
Sumaia Saad Eddin (JKU Linz)
An upper bound for Stieltjes constants of L-functions in the extended Selberg class 10

02-01-0060
63 Shota Inoue (Nagoya Univ.)
On the value distribution of the Riemann zeta-function on the critical line 10

02-01-0003
64 Saburou Saitoh (Gunma Univ.*/Inst. of Reproducing Kernels)
Tsutomu Matsuura (Gunma Univ.)
Hiroshi Okumura
Values of the Riemann zeta function at positive integers by means of the division by zero calculus 10

02-01-0038
65 Hiroshi Ogawara (Kumamoto Univ.) On algebraic independence of solutions for systems of algebraic Mahler functional equations 10

02-01-0068
66 Debika Banerjee (IISER)
Makoto Minamide (Yamaguchi Univ.)
Yoshio Tanigawa A divisor problem on square free integers 10

02-01-0001
67 Shigeru Iitaka (Gakushuin Univ.*) (A,B,C) perfect numbers 10

Geometry

March 16th (Mon)

9:40–11:40

03-01-0001
1 Takahiko Yoshida (Meiji Univ.) Adiabatic limits, theta functions, and geometric quantization ····· 15

03-01-0003
2 Ken Kuwata (Hokkaido Univ.), Masao Jinzenji (Hokkaido Univ.) Holomorphic vector field and topological sigma model on $\mathbb{P}^1$ world sheet ····· 15

03-01-0007
3 Natsuo Miyatake (Osaka Univ.)♭ A direct proof of Hitchin–Kobayashi type correspondences for abelian vortex equations ····· 15

03-01-0010
4 Yasufumi Nitta (Tokyo Univ. of Sci.), Shunsuke Saito (RIKEN/Kyoto Univ.) A uniform version of the Yau–Tian–Donaldson correspondence for polarized toric manifolds ····· 15

03-01-0013
5 Kazuyuki Hasegawa (Kanazawa Univ.), Vicente Cortés (University of Hamburg) A construction of a hypercomplex manifold from a quaternionnic manifold —the quaternionic/hypercomplex-correspondence— ····· 15

03-01-0023
6 Yoshinori Hashimoto (Tokyo Tech), Julien Keller (Aix-Marseille Univ.) Kobayashi–Hitchin correspondence and the Quot-scheme limit of Fubini–Study metrics ····· 15

03-01-0026
7 Takahiro Aoi (Osaka Univ.) Complete scalar-flat Kähler metrics on affine algebraic manifolds ····· 15

14:20–15:45

03-01-0012
8 Tomoya Nakamura (Waseda Univ.) Dirac pairs on Jacobi bialgebroids ····· 15

03-01-0020
9 Ryuma Orita (Tokyo Metro. Univ.) Rigid fibers of spinning tops ····· 15

03-01-0027
10 Yuuki Sasaki (Univ. of Tsukuba) Connectedness and homogeneity of antipodal sets ····· 15

03-01-0028
11 Mao Okada (Univ. of Tokyo) Local rigidity of certain actions of solvable groups on the boundaries of rank-one symmetric spaces ····· 15

03-01-0034
12 Takashi Sakai (Tokyo Metro. Univ.), Peter Quast (Univ. of Augsburg) Natural Γ-symmetric structures on R-spaces ····· 15

16:00–17:00 Talk Invited by Geometry Section

03-02-0001
Hikaru Yamamoto (Tokyo Univ. of Sci.) Special Lagrangian submanifolds, mean curvature flows and their mirror

March 17th (Tue)

9:40–11:50

03-01-0009
13 Yufeng Lu (Osaka Univ.), Ettore Minguzzi (Univ. Stud. Firenze), Shin-ichi Ohta (Osaka Univ./RIKEN) Singularity theorems on Lorentz–Finsler manifolds ····· 10

03-01-0014
14 Atsufumi Honda (Yokohama Nat. Univ.), Kosuke Naokawa (Hiroshima Inst. of Tech.), Kentaro Saji (Kobe Univ.), Masaaki Umehara (Tokyo Tech), Kotaro Yamada (Tokyo Tech) Duality on generalized cuspidal edges preserving singular set images and first fundamental forms ····· 15

03-01-0018
15 Yoshito Ishiki (Univ. of Tsukuba) On the Assouad dimension and convergence of metric spaces 15

03-01-0019
16 Yoshito Ishiki (Univ. of Tsukuba) A characterization of metric subspaces of full Assouad dimension 15

03-01-0024
17 Nobuhiro Innami (Niigata Univ.) The azimuthal equidistant projection for a Finsler manifold 15

03-01-0025
18 Shin Nayatani (Nagoya Univ.)
Takumi Gomyou (Nagoya Univ.)
Toshimasa Kobayashi (Setsunan Univ.)
Takefumi Kondo (Kagoshima Univ.)
Optimal embedding and spectral gap of a finite graph 15

03-01-0029
19 Naoto Satoh (Hokkaido Univ.)
Hitoshi Furuhata (Hokkaido Univ.)
Izumi Hasegawa (Hokkaido Univ. of Edu.*)
Statistical sectional curvature and warped product statistical manifold 15

03-01-0031
20 Ryunosuke Ozawa (Tohoku Univ.)
Yohei Sakurai (Tohoku Univ.)
Taiki Yamada (Res. Inst. for Humanity and Nature)
Geometric and analytic properties of directed graphs under lower Ricci curvature bound 15

13:15–14:15 Talk Invited by Geometry Section

03-02-0002
Ulrich Pinkall (TU Berlin) Discretizing fluids into filaments and sheets

March 18th (Wed)

9:40–11:35

03-01-0005
21 Ayato Mitsuishi (Fukuoka Univ.) Certain mini-max values of the p-energy and packing radii 15

03-01-0006
22 Cong Hung Mai (Kyoto Univ.)
Shin-ichi Ohta (Osaka Univ./RIKEN)
Quantitative estimates for the Bakry–Ledoux isoperimetric inequality 10

03-01-0008
23 Shintaro Akamine (Nagoya Univ.)
Atsufumi Honda (Yokohama Nat. Univ.)
Masaaki Umehara (Tokyo Tech)
Kotaro Yamada (Tokyo Tech)
Bernstein-type theorem for zero mean curvature hypersurfaces admitting lightlike points 15

03-01-0011
24 Doman Takata (Univ. of Tokyo) Towards an infinite-dimensional Atiyah–Singer index theorem 15

03-01-0021
25 Jun O'Hara (Chiba Univ.) Generalization of Willmore energy as a residue 15

03-01-0022
26 Asuka Takatsu (Tokyo Metro. Univ.)♭
Kazuhiro Ishige (Univ. of Tokyo)
Paolo Salani (Univ. Firenze)
Elliptic and parabolic boundary value problems on rotationally symmetric domains 15

03-01-0030
27 Dounnu Sasaki (Waseda Univ.) Denseness property of geodesic currents on a cusped hyperbolic surface 15

14:20–15:40

03-01-0004
28 Atsushi Fujioka (Kansai Univ.)
Hitoshi Furuhata (Hokkaido Univ.)
Centroaffine surfaces of cohomogeneity one 15

03-01-0015
29 Masashi Yasumoto (Osaka City Univ.) Discrete Weierstrass-type representations 15

03-01-0016
30 Masahiro Morimoto (Osaka City Univ.) Austere and arid properties for PF submanifolds in Hilbert spaces 15

03-01-0017
31 Yuichiro Sato (Tokyo Metro. Univ.) Totally umbilical submanifolds in pseudo-Riemannian space form 15

03-01-0033
32 Kazuhiro Okumura (Asahikawa Nat. Coll. of Tech.) The curvature tensor of ruled real hypersurfaces in a nonflat complex space form 10

16:00–17:00 Talk Invited by Geometry Section

03-02-0003
Atsushi Kanazawa (Kyoto Univ.) Kähler moduli spaces and stability conditions of triangulated categories

Complex Analysis

March 16th (Mon)

9:30–11:50

04-01-0001
1 Saburou Saitoh (Gunma Univ.*/Inst. of Reproducing Kernels)
Okumura's disc series can beyond the crucial point of Däumler–Puha's horn torus models for the Riemann sphere ····· 15

04-01-0018
2 Toshiyuki Sugawa (Tohoku Univ.), Mark Elin (ORT Braude Coll.), David Shoikhet (Holon Inst. of Tech.)
Geometric properties of the nonlinear resolvent for a continuous semigroup of holomorphic self-maps of the unit disk ····· 15

04-01-0019
3 Hideaki Izumi (Chiba Inst. of Tech.)
Dimensioned number solutions to iterative functional equations ····· 15

04-01-0012
4 Akira Ushijima (Kanazawa Univ.), Toshihiro Nakanishi (Shimane Univ.)
Existence of exceptional points for cofinite Fuchsian groups ····· 15

04-01-0017
5 Takayuki Watanabe (Kyoto Univ.), Hiroki Sumi (Kyoto Univ.)
Dichotomy of Markov random dynamical systems of rational maps ··· 15

04-01-0021
6 Masashi Kisaka (Kyoto Univ.)
Fatou–Shishikura inequality for transcendental entire functions in class $\mathcal{S}$ ····· 15

04-01-0010
7 Joe Kamimoto (Kyushu Univ.), Toshihiro Nose (Fukuoka Inst. of Tech.)
On the maximal region to which local zeta functions can be meromorphically extended ····· 15

04-01-0016
8 Toshihiro Nose (Fukuoka Inst. of Tech.), Joe Kamimoto (Kyushu Univ.)
On non-polar singularities of local zeta functions ····· 15

14:15–15:20

04-01-0006
9 Takanori Ayano (Osaka City Univ.), Victor M. Buchstaber (Steklov Inst. of Math.)
Series expansion of two-dimensional sigma function based on the heat equations ····· 15

04-01-0009
10 Atsushi Hayashimoto (Nagano Nat. Coll. of Tech.)
Automorphism group and isometry group of Hua domains ····· 15

04-01-0013
11 Hidetaka Hamada (Kyushu Sangyo Univ.)
Distortion theorems, Lipschitz continuity and their applications for Bloch type mappings on bounded symmetric domains in $\mathbb{C}^n$ ····· 15

04-01-0014
12 Ian Graham (Univ. of Toronto), Hidetaka Hamada (Kyushu Sangyo Univ.), Gabriela Kohr (Babeş-Bolyai Univ.)
Loewner chains, Bloch mappings and Pfaltzgraff–Suffridge extension operators on bounded symmetric domains ····· 15

15:35–16:35 Talk Invited by Complex Analysis Section

04-02-0003
Yohei Komori (Waseda Univ.)
Growth of hyperbolic Coxeter groups

16:50–17:50 Award Lecture for the 2019 MSJ Analysis Prize

04-02-0001
Hiroki Sumi (Kyoto Univ.)
Various randomness-induced phenomena and their mechanisms in random holomorphic dynamical systems

March 17th (Tue)

9:15–11:45

04-01-0005
13 Shinichi Tajima (Niigata Univ.*)
Takafumi Shibuta (Kyushu Sangyo Univ.)
Katsusuke Nabeshima (Tokushima Univ.)
A computation method of logarithmic vector fields associated to isolated complete intersection singularities 15

04-01-0004
14 Tomoko Shinohara (Tokyo Metro. Coll. of Ind. Tech.)
Local stable set of an indeterminate point of rational mappings of two complex variables 15

04-01-0002
15 Yukitaka Abe (Univ. of Toyama)
Isogenies between commutative complex Lie groups 10

04-01-0003
16 Yukitaka Abe (Univ. of Toyama)
Meromorphic function fields closed by partial derivatives 15

04-01-0008
17 Takayuki Koike (Osaka City Univ.)
Hermitian metrics on the anti-canonical bundle of the blow-up of the projective plane at nine points 15

04-01-0020
18 Masanori Adachi (Shizuoka Univ.)
Jihun Yum (Pusan Nat. Univ.)
The Diederich–Fornæss and Steinness indices in complex manifolds ... 15

04-01-0007
19 Takahiro Inayama (Univ. of Tokyo)
Pseudonorms on direct images of pluricanonical bundles 15

04-01-0011
20 Genki Hosono (Tohoku Univ.)
A simplified proof of the optimal L^2 extension theorem and its application 15

04-01-0015
21 Takeo Ohsawa (Nagoya Univ.)♭
Application of the L^2 method to the Levi problem on complex manifolds 15

13:15–14:15 Talk Invited by Complex Analysis Section

04-02-0002
Shin-ichi Matsumura (Tohoku Univ.)♭
On structure theorems for projective manifolds with certain non-negative curvature

Functional Equations

March 16th (Mon)

9:00–12:00

05-01-0045
1 Hiroto Inoue (Kyushu Univ.)
The exponential matrix solution and power series solution of the matrix-valued Bratu equation 10

05-01-0025
2 Daichi Komori (Hokkaido Univ.)
The construction of the morphism of sheaves from pseudodifferential operators to their symbols via Čech–Dolbeault cohomology 10

05-01-0022
3 Masatoshi Suzuki (Tokyo Tech)
On a system of partial differential equations and entire functions of Hermite–Biehler class 10

05-01-0020
4 Hidetoshi Tahara (Sophia Univ.)
Uniqueness of the solution of nonlinear singular first order partial differential equations 10

05-01-0048
5 Yukihide Tadano (Univ. of Tokyo)
Shu Nakamura (Gakushuin Univ.)
On a continuum limit of discrete Schrödinger operators on square lattices 10

05-01-0037
6 Kenichi Ito (Univ. of Tokyo)
Arne Jensen (Aalborg Univ.)
Hypergeometric expression for resolvent of the discrete Laplacian in low dimension 10

05-01-0077
7 Kanam Park (Kobe Univ.)
A certain generalization of q-Painlevé VI system and its symmetry ... 10

05-01-0062
8 Toshinori Takahashi (Kindai Univ.)
On the WKB theoretic transformation to the boosted Airy equation 10

05-01-0051
9 Takashi Aoki (Kindai Univ.)
Shofu Uchida (Kindai Univ.)
Voros coefficients at the origin and at the infinity of the generalized hypergeometric differential equation with a large parameter 10

05-01-0005
10 Hideshi Yamane (Kwansei Gakuin Univ.)
Analytic global-in-time solutions to the Cauchy problem for the μ-Camassa–Holm equation 10

05-01-0066
11 Kazuki Ishibashi (Hiroshima Nat. Coll. of Maritime Tech.)
Fentao Wu (Northeast Normal Univ.)
Lin She
Moore-type nonoscillation theorems for half-linear difference equations 10

05-01-0028
12 Tomoyuki Tanigawa (Osaka Pref. Univ.)
A study of nonoscillatory solutions of half-linear differential equations by Riccati equations 10

05-01-0003
13 Tetsutaro Shibata (Hiroshima Univ.)
Keiichi Kato (Tokyo Univ. of Sci.)
Simple proof of stationary phase method and application to oscillatory bifurcation problems 10

05-01-0011
14 Yutaka Kamimura (Tokyo Univ. of Marine Sci. and Tech.)
Energy dependent reflectionless inverse theory and method 10

14:15–16:15

05-01-0080
15 Shingo Takeuchi (Shibaura Inst. of Tech.)
Kohtaro Watanabe (Nat. Defense Acad. of Japan)
Lyapunov-type inequalities for a Sturm–Liouville problem of the one-dimensional p-Laplacian 10

05-01-0036
16 Tatsuki Mori (Musashino Univ.)
Kousuke Kuto (Waseda Univ.)
Yasuhito Miyamoto (Univ. of Tokyo)
Tohru tsujikawa (Univ. of Miyazaki)
Shoji Yotsutani (Ryukoku Univ.*)
Parametric representation of a sheet constructed by all solution to a nonlocal Allen–Cahn equation 10

05-01-0033
17 Kenichiro Umezu (Ibaraki Univ.)
Uriel Kaufmann (Univ. Nacional de Córdoba)
Humberto Ramos Quoirin (Univ. de Santiago de Chile)
Global exact multiplicity of positive solutions for an indefinite sublinear Robin problem 10

05-01-0050
18 Yohei Sato (Saitama Univ.)
Xiaojun Chang (Northeast Normal Univ.)
Localized solutions of nonlinear Schrödinger systems with critical frequency for infinite attractive case 10

05-01-0046
19 Lorenzo Cavallina (Tohoku Univ.)
Antoine Henrot (Inst. Elie Cartan de Lorraine / Univ. de Lorraine)
Shigeru Sakaguchi (Tohoku Univ.)
On the two-phase isoperimetric problem 10

05-01-0024
20 Shigeru Sakaguchi (Tohoku Univ.)
Lorenzo Cavallina (Tohoku Univ.)
Seiichi Udagawa (Nihon Univ.)
A characterization of the interface with constant temperature in two-phase heat conductors 10

05-01-0052
21 Yuki Tsukamoto (Tokyo Tech)
Existence of a prescribed anisotropic mean curvature problem 10

05-01-0067
22 Kensuke Yoshizawa (Tohoku Univ.) ♭
Existence and non-existence of elastic graphs with the symmetric cone obstacle 10

16:30–17:30 Award Lecture for the 2019 MSJ Analysis Prize

05-02-0004
Hidetaka Sakai (Univ. of Tokyo)
The world of the Painlevé equations

March 17th (Tue)

9:00–12:00

05-01-0076
23 Naoki Hamamoto (Osaka City Univ.)
Sharp Rellich inequality for vector-valued functions under the solenoidal condition 10

05-01-0049
24 Megumi Sano (Hiroshima Univ.)
Minimization problem associated with an improved Hardy–Sobolev type inequality 10

05-01-0055
25 Takeshi Suguro (Tohoku Univ.) ♭
Shannon's inequality for a generalized entropy and an application to the uncertainty principle 10

05-01-0014
26 Shoya Kawakami (Saitama Univ.)
Takeyuki Nagasawa (Saitama Univ.)
Estimates on variational formulae of O'Hara's energies 10

05-01-0031
27 Aya Ishizeki (Chiba Univ.)
Takeyuki Nagasawa (Saitama Univ.)
Upper and lower bounds and modulus of continuity of decomposed Möbius energies 10

05-01-0032
28 Takeyuki Nagasawa (Saitama Univ.)
Kohei Nakamura (Saitama Univ.)
Asymptotic analysis for non-local curvature flows for plane curves with general rotation number 10

05-01-0058
29 Ken Furukawa (Univ. of Tokyo)
Naoto Kajiwara (Tokyo Univ. of Sci.)
On the solvability of higher-order elliptic equations 10

05-01-0027
30 Hirotada Honda (Toyo Univ.)
Mathematical analysis on a target detection model 10

05-01-0015
31 Jumpei Inoue (Univ. of Electro-Comm.)
Kousuke Kuto (Waseda Univ.)
On the optimal distribution and the existence of an L^1-unbounded sequence of steady states for the diffusive logistic equation 10

05-01-0034
32 Masahiko Shimojyou (Okayama Univ. of Sci.)
Jong-Shenq Guo (Tamkang Univ.)
Yu-Shuo Chen (Tamkang Univ.)
Spreading speed of a singular prey-predator type reaction-diffusion system · · · · · 10

05-01-0035
33 Masahiko Shimojyou (Okayama Univ. of Sci.)
Jong-Shenq Guo (Tamkang Univ.)
Yu-Shuo Chen (Tamkang Univ.)
Traveling wave solution to a singular prey-predator reaction diffusion system · · · · · 10

05-01-0057
34 Tomoyuki Oka (Tohoku Univ.)
Goro Akagi (Tohoku Univ.)
Space-time homogenization for the fast diffusion equation · · · · · 10

05-01-0043
35 Kenta Nakamura (Tohoku Univ.)
Masashi Misawa (Kumamoto Univ.)
Tuomo Kuusi (Univ. of Helsinki)
Global existence for the p-Sobolev flow · · · · · 10

05-01-0001
36 Mario Fuest (Paderborn Univ.)
Johannes Lankeit (Paderborn Univ.)
Masaaki Mizukami (Tokyo Univ. of Sci.)
Asymptotic behavior in a chemotaxis-consumption model with realistic boundary conditions for the oxygen · · · · · 10

05-01-0041
37 Takashi Suzuki (Osaka Univ.)
A parabolic concavity maximum principle · · · · · 5

13:15–14:15 Talk Invited by Functional Equations Section

05-02-0002
Sohei Ashida (Gakushuin Univ.)
Accurate lower bounds for eigenvalues of electronic Hamiltonians

March 18th (Wed)

9:00–12:00

05-01-0029
38 Toshikazu Kuniya (Kobe Univ.)
Threshold theorem for an SIR epidemic model with diffusion under the different boundary conditions · · · · · 10

05-01-0063
39 Daesu Jeong (Nagoya Univ.)
The role of forward self-similar solutions in the Cauchy problem for semi-linear heat equations with exponential nonlinearity · · · · · 10

05-01-0068
40 Kotaro Hisa (Tohoku Univ.)
Kazuhiro Ishige (Univ. of Tokyo)
Jin Takahashi (Tokyo Tech)
Existence of solutions for an inhomogeneous fractional semilinear heat equation · · · · · 10

05-01-0075
41 Md Rabiul Haque (Tohoku Univ.) ♭
Norisuke Ioku (Tohoku Univ.)
Takayoshi Ogawa (Tohoku Univ.)
Ryuichi Sato (Tohoku Univ.)
Critical existence to a convection-diffusion equation in a uniformly local lebesgue space · · · · · 10

05-01-0030
42 Sachiko Ishida (Chiba Univ.)
Tomomi Yokota (Tokyo Univ. of Sci.)
Weak stabilization in Keller–Segel systems with degenerate diffusion · · · · · 10

05-01-0054
43 Mikihiro Fujii (Kyushu Univ.)
Global solutions to the dissipative quasi-geostrophic equation with dispersive forcing · · · · · 10

05-01-0026
44 Masaki Kurokiba (Muroran Inst. of Tech.) ♭
Takayoshi Ogawa (Tohoku Univ. / Tohoku Univ.)
Singular limit problem for the Keller–Segel system and drift-diffusion system · · · · · 10

05-01-0079
45 Shuji Yoshikawa (Oita Univ.) Error estimates of structure-preserving discrete approximations for the Cahn–Hillliard equation in two space dimension 10

05-01-0002
46 Takashi Furuya (Nagoya Univ.) Direct and inverse scattering problems for the local perturbation of an open periodic waveguide in the half plane 10

05-01-0012
47 Kunio Hidano (Mie Univ.)
Kazuyoshi Yokoyama (Hokkaido Univ. of Sci.) Global existence for null-form wave equations with data in a Sobolev space of lower regularity and weight 10

05-01-0044
48 Tadahiro Oh (Univ. of Edinburgh)
Mamoru Okamoto (Shinshu Univ.) On the well-posedness for the quadratic stochastic nonlinear wave equation with a rough noise in two dimensions 10

05-01-0004
49 Haruya Mizutani (Osaka Univ.)
Xiaohua Yao (Central China Normal Univ.) Resolvent and Strichartz estimates for fractional Schrödinger operators with Hardy potentials 10

05-01-0072
50 Tomoyuki Tanaka ♭ (Nagoya Univ./Chuo Univ./RIKEN/Keio Univ.)
Masahiro Ikeda (RIKEN/Keio Univ.)
Kyouhei Wakasa (Kushiro Nat. Coll. of Tech.) Global well-posedness for the wave equation with a time-dependent scale invariant damping and a cubic convolution 10

05-01-0019
51 Yoshiyuki Kagei (Tokyo Tech)
Hiroshi Takeda (Fukuoka Inst. of Tech.) Large time behavior of global solutions to nonlinear elastic wave equations with strong damping term 10

14:15–16:15

05-01-0071
52 Isao Kato (Kyoto Univ.)
Shinya Kinoshita (Univ. Bielefeld) On the 3D Zakharov system with radial initial data 10

05-01-0061
53 Ikkei Shimizu (Kyoto Univ.) Local well-posedness for Schrödinger maps with helicity terms 10

05-01-0017
54 Chunhua Li (Yanbian Univ.)
Yoshinori Nishii (Osaka Univ.)
Yuji Sagawa
Hideaki Sunagawa (Osaka Univ.) Large time asymptotics for a cubic nonlinear Schrödinger system in one space dimension 10

05-01-0056
55 Koichi Komada (Tohoku Univ./Kyushu Univ.) Existence of blow-up solutions to nonlinear Schrödinger equations with anisotropic fourth-order dispersion 10

05-01-0073
56 Takuya Sato (Tohoku Univ.) ♭
Takayoshi Ogawa (Tohoku Univ.) L^2-decay for the one dimensional dissipative nonlinear Schrödinger equation in a critical exponent 10

05-01-0059
57 Toshiyuki Suzuki (Kanagawa Univ.) Nonlinear Schrödinger equations with an inverse-square potential and a repulsive harmonic oscillator 10

05-01-0069
58 Masaru Hamano (Saitama Univ.)
Masahiro Ikeda (RIKEN/Keio Univ.) For a stationary problem of the nonlinear Schrödinger equation with a potential term 10

05-01-0070
59 Noriyoshi Fukaya (Tokyo Univ. of Sci.)
Masayuki Hayashi (Kyoto Univ.) Instability of algebraic standing waves for nonlinear Schrödinger equations with double power nonlinearities 10

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

05-02-0003
Kousuke Kuto (Waseda Univ.) Cross-diffusion limit in the stationary SKT model

March 19th (Thu)

9:00–12:00

05-01-0047
60 Shota Sakamoto (Tohoku Univ.)
Renjun Duan (Chinese Univ. of Hong Kong)
Shuangqian Liu (Central China Normal Univ./Jinan Univ.)
Robert M. Strain (Univ. Pennsylvania)
Solutions to initial and initial-boundary value problems of the non-cutoff Boltzmann equation near an equilibrium · · · · · 10

05-01-0021
61 Hirokazu Saito (Tokyo Univ. of Sci.)
Xin Zhang (Waseda Univ.)
On elliptic problems associated with two-phase incompressible flows in unbounded domains · · · · · 10

05-01-0078
62 Zhongyang Gu (Univ. of Tokyo)
Yoshikazu Giga (Univ. of Tokyo)
Pen-Yuan Hsu (Univ. of Tokyo)
Continuous alignment of vorticity direction prevents the blow-up of the Navier–Stokes flow under the no-slip boundary condition · · · · · 10

05-01-0042
63 Kenji Nakamura (Tsukuba Univ.)
Takayuki Kobayashi (Osaka Univ.)
Takayuki Kubo (Ochanomizu Univ.)
Linearized problem of the hyperbolic type Navier–Stokes equations in the three dimensional half-spaces · · · · · 10

05-01-0060
64 Tomoki Takahashi (Nagoya Univ.)
Attainability of a stationary Navier–Stokes flow around a rigid body rotating from rest · · · · · 10

05-01-0016
65 Akira Okada (Kyoto Univ.)
Necessary and sufficient condition for the local existence of solution in the Serrin class of the Navier–Stokes equations · · · · · 10

05-01-0074
66 Takahiro Okabe (Osaka Univ.)
Lorenzo Brandolese (Univ. Lyon 1)
Annihilation of slow-decay factors of the Navier–Stokes flow by the external force · · · · · 10

05-01-0013
67 Hiroyuki Tsurumi (Waseda Univ.)
The two-dimensional stationary Navier–Stokes equations in toroidal Besov spaces · · · · · 10

05-01-0018
68 Kazuyuki Tsuda (Osaka Univ.)
Reinhard Farwig (TU Darmstadt)
Hideo Kozono (Waseda Univ.)
David Wegmann (TU Darmstadt)
The time periodic problem of the Navier–Stokes equations in a bounded domain with moving boundary · · · · · 10

05-01-0008
69 Yoshihiro Shibata (Waseda Univ.)
On the second Helmholtz decomposition in an exterior domain · · · · · 10

05-01-0006
70 Yoshihiro Shibata (Waseda Univ.)
On the isothermal compressible multi-component mixture flow: the local existence and maximal L_p-L_q regularity of solutions · · · · · 10

05-01-0007
71 Yoshihiro Shibata (Waseda Univ.)
On the maximal L_p-L_q regularity of solutions to a general linear parabolic system · · · · · 10

05-01-0009
72 Yoshihiro Shibata (Waseda Univ.)
On the $\mathcal{R}$-solver and periodic solutions · · · · · 10

05-01-0010
73 Yoshihiro Shibata (Waseda Univ.)
On the periodic solutions for free boundary problem of the Navier–Stokes equations · · · · · 10

14:15–16:15

05-01-0023
74 Senjo Shimizu (Kyoto Univ.)
Takayoshi Ogawa (Tohoku Univ.)
Maximal L^1-regularity for the parabolic initial-boundary value problem in the half-space · · · · · 10

05-01-0065
75 Tsukasa Iwabuchi (Tohoku Univ.)
Pierre Germain (New York Univ.)
Forward self-similar solutions for compressible Navier–Stokes equations · · · · · 10

05-01-0081
76 Ryosuke Nakasato (Tohoku Univ.)
Shuichi Kawashima (Waseda Univ.)
Takayoshi Ogawa (Tohoku Univ.)
Global well-posedness and time-decay estimates for the compressible Hall-magnetohydrodynamic system · · · · · 10

05-01-0053
77 Kai Koike (Keio Univ./RIKEN)
Long-time behavior of a pendulum in a 1D viscous compressible fluid · · · · · 10

05-01-0064
78 Keiichi Watanabe (Waseda Univ.)
Global solvability of the Navier–Stokes–Korteweg equations with a non-decreasing pressure in L^p-framework · · · · · 10

05-01-0038
79 Masahiro Suzuki (Nagoya Inst. of Tech.)
Atusi Tani (Keio Univ.*)
The Morrow model of gas discharge I: Stability analysis · · · · · 10

05-01-0039
80 Masahiro Suzuki (Nagoya Inst. of Tech.)
Walter Strauss (Brown Univ.)
The Morrow model of gas discharge II: Global bifurcation · · · · · 10

05-01-0040
81 Masahiro Suzuki (Nagoya Inst. of Tech.)
Emmanuel Grenier (ENS de Lyon)
Yan Guo (Brown Univ.)
Benoit Pausader (Brown Univ.)
Justification of the Boltzmann relation · · · · · 10

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

05-02-0001
Jun-ichi Segata (Kyushu Univ.)
Long time behavior of solution to the nonlinear Schrödinger equation with delta potential

Real Analysis

March 18th (Wed)

9:00–11:50

06-01-0021
1 Toshiharu Kawasaki (Nihon Univ.)
Hiroko Manaka (Nihon Univ.)
The split feasibility problem with some projections in Banach spaces 15

06-01-0026
2 Yukino Tomizawa (Niigata Inst. of Tech.)
Uniform convexity in distance spaces 15

06-01-0012
3 Hiroyasu Mizuguchi (Kansai Univ.)
A certain geometric constant and von Neumann–Jordan constant in Radon planes 15

06-01-0010
4 Kichi-Suke Saito (Niigata Univ.)
Naoto Komuro (Hokkaido Univ. of Edu.)
Ryotaro Tanaka (Tokyo Univ. of Sci.)
A note on the structure of Radon spaces 15

06-01-0024
5 Toshiharu Kawasaki (Nihon Univ. / Tamagawa Univ.)
Integrable functions for extended integration 15

06-01-0031
6 Ryoji Fukuda (Oita Univ.)
Aoi Honda (Kyushu Inst. of Tech.)
Yoshiaki Okazaki (Fuzzy Logic Systems Inst.)
Two non-discretizations for k-additivity of a monotone measure 15

06-01-0005
7 Shohei Nakamura (Tokyo Metro. Univ.)
Jonathan Bennett (Univ. of Birmingham)
The tomography approach to the Fourier restriction theory 15

06-01-0001
8 Takeshi Iida (Fukushima Nat. Coll. of Tech.)
Weighted norm inequalities on Morrey spaces for the Orlicz-fractional maximal operators 15

06-01-0009
9 Ryota Kawasumi
Eiichi Nakai (Ibaraki Univ.)
Generalized fractional integral operators on weak Orlicz spaces 15

06-01-0020
10 Minglei Shi (Ibaraki Univ.)
Ryutaro Arai (Ibaraki Univ.)
Eiichi Nakai (Ibaraki Univ.)
Commutators of Calderón–Zygmund and generalized fractional integral operators with functions in generalized Campanato spaces on Orlicz–Morrey spaces 15

14:15–15:55

06-01-0027
11 Tsukasa Iwabuchi (Tohoku Univ.)
Bilinear estimates in Sobolev spaces associated with Dirichlet and Neumann Laplacian 15

06-01-0025
12 Ryoichi Kunisada (Waseda Univ.)
On a continuous version of Banach limits 15

06-01-0028
13 Toru Nogayama (Tokyo Metro. Univ.)
Yoshihiro Sawano (Tokyo Metro. Univ.)
Local Muckenhoupt class for variable exponents 15

06-01-0017
14 Yoshihiro Sawano (Tokyo Metro. Univ.) ♭
Cantor functions associated with generalized expansions 15

06-01-0018
15 Yoshihiro Sawano (Tokyo Metro. Univ.) ♭
Sparse non-smooth atomic decomposition of Morrey spaces 15

06-01-0019
16 Yoshihiro Sawano (Tokyo Metro. Univ.) ♭
Tetsu Shimomura (Hiroshima Univ.)
Modified Hardy–Littlewood maximal operator and modified fractional integral operator on metric measure spaces 15

16:15–17:15 Talk Invited by Real Analysis Section

06-02-0002
Gaku Sadasue (Osaka Kyoiku Univ.) Some martingale spaces and fractional integrals for martingale

March 19th (Thu)

9:00–12:00

06-01-0014
17 Masaaki Mizukami (Tokyo Univ. of Sci.) Uniform-in-time convergence of solutions for a chemotaxis-competition model to those for the Lotka–Volterra competition model 15

06-01-0002
18 Pierluigi Colli (Univ. of Pavia), Shunsuke Kurima (Tokyo Univ. of Sci.) Existence for a phase separation system deduced from the entropy balance 15

06-01-0004
19 Shunsuke Kurima (Tokyo Univ. of Sci.) A Cahn–Hilliard approach to a nonlinear diffusion chemotaxis system 15

06-01-0029
20 Keiichiro Kagawa (Waseda Univ.), Mitsuharu Ôtani (Waseda Univ.) Asymptotic limits of the time-periodic problem for the viscous Cahn–Hilliard equation 10

06-01-0003
21 Chiharu Kosugi (Japan Women's Univ.), Toyohiko Aiki (Japan Women's Univ.) Existence of weak solutions to initial boundary value problems describing shrinking motion of elastic materials 15

06-01-0030
22 Takahiro Kishida (Meijo Univ.), Yusuke Murase (Meijo Univ.) FEM analysis for mathematical model of adsorption phenomena in 1D domain 15

06-01-0022
23 Kazuki Shimura (Oita Univ.), Shuji Yosikawa (Oita Univ.) Structure-preserving finite difference schemes for a Cahn–Hilliard system coupled with elasticity 15

06-01-0007
24 Makoto Okumura (Osaka Univ.) A structure-preserving scheme for the Cahn–Hilliard equation with dynamic boundary conditions which has the total mass conservation 15

06-01-0032
25 Yoshimasa Sasaki (Niigata Univ.), Ohwa Hiroki (Niigata Univ.) Existence and uniqueness of solutions to conservation laws with spatially discontinuous flux 15

06-01-0023
26 Hiroshi Watanabe (Oita Univ.) Construction of traveling waves and asymptotic behavior of entropy solutions to scalar parabolic-hyperbolic conservation laws 15

06-01-0033
27 Yutaka Tsuzuki (Hiroshima Shudo Univ.) Existence for Initial-boundary value problems for Vlasov–Poisson equations with angle error in magnetic field 15

14:15–15:55

06-01-0015
28 Noriaki Yamazaki (Kanagawa Univ.), Nobuyuki Kenmochi (Chiba Univ.*), Ken Shirakawa (Chiba Univ.) Control of parameter-dependent evolution equations governed by time-dependent subdifferentials 15

06-01-0013
29 Shodai Kubota (Chiba Univ.), Ken Shirakawa (Chiba Univ.) Optimal control problem for multidimensional semi-discrete system of Kobayashi–Warren–Carter type 15

06-01-0011
30 Ken Shirakawa (Chiba Univ.), Hiroshi Watanabe (Oita Univ.) Sufficient condition for the existence of one-dimensional crystalline solution of the Kobayashi–Warren–Carter type system 15

06-01-0016
31 Kota Kumazaki (Nagasaki Univ.) A one-dimensional free boundary problem related to ice lenses formation 15

06-01-0008
32 Takeshi Fukao (Kyoto Univ. of Edu.), Pierluigi Colli (Pavia Univ.) Vanishing diffusion in a dynamic boundary condition for the Cahn–Hilliard equation 15

06-01-0006
33 Akio Ito Approach from the quasi-variational structure to tumor invasion with non-smooth degenerate diffusion 15

16:15–17:15 Talk Invited by Real Analysis Section

06-02-0001

Keisuke Takasao ♭
(Kyoto Univ./Kyoto Univ.)

On the existence of the weak solution for the mean curvature flow with forcing term via the phase field method

Functional Analysis

March 16th (Mon)

10:00–11:45

07-01-0022
1 Amane Kiyose (Kobe Univ.)
Tadayoshi Adachi (Kyoto Univ.)
On the Mourre estimates for Floquet Hamiltonians ····· 15

07-01-0017
2 Daisuke Kawagoe (Kyoto Univ.)
Hyeonbae Kang (Inha Univ.)
Surface Riesz transforms and spectral property of the elastic Neumann–Poincaré operator on less smooth domains in three dimensions ····· 15

07-01-0018
3 Daisuke Kawagoe (Kyoto Univ.)
Eric Bonnetier (Univ. Grenoble-Alpes)
Charles Dapogny (Univ. Grenoble-Alpes)
Hyeonbae Kang (Inha Univ.)
The essential spectrum of the elastic Neumann–Poincaré operator on a planar domain with a corner ····· 15

07-01-0015
4 Hiroshi Inoue (Daiichi Univ. of Pharm.)
Quantum dynamics based on non-self-adjoint hamiltonians ····· 15

07-01-0009
5 Yoritaka Iwata (Kansai Univ.)
Abstract Miura transform based on the logarithmic representation of operators ····· 15

07-01-0001
6 Shuji Watanabe (Gunma Univ.)
An operator-theoretical treatment of the specific heat of a superconductor in the BCS-Bogoliubov model of superconductivity ····· 15

14:15–15:15 Award Lecture for the 2019 MSJ Analysis Prize

07-02-0001
Fumio Hiroshima (Kyushu Univ.)
Renormalization theory and non-perturbative analysis of ground states by functional integrations

15:30–16:30 Talk Invited by Functional Analysis Section

07-02-0003
Fumihiko Nakano (Gakushuin Univ.)
Scaling limit of the eigenvalues and eigenfunctions of 1-dimensional random Schrödinger operators

March 17th (Tue)

10:30–11:45

07-01-0020
7 Koei Kawamura (Kyoto Univ.) ♭
Decomposition of spherical representations and an addition theorem for multivariate hypergeometric polynomials ····· 15

07-01-0010
8 Koichi Arashi (Nagoya Univ.)
Holomorphic multiplier representations for bounded homogeneous domains ····· 15

07-01-0004
9 Taito Tauchi (Univ. of Tokyo)
A generalization of the uniformly bounded multiplicity theorem ····· 15

07-01-0016
10 Toshihisa Kubo (Ryukoku Univ.)
Bent Ørsted (Aarhus Univ.)
The K-type formulas for Kable's differential operators of type A_3 and Heun polynomials ····· 15

13:15–14:15 Talk Invited by Functional Analysis Section

07-02-0004
Ryosuke Nakahama (Univ. of Tokyo)
Construction of intertwining operators for restriction of holomorphic discrete series representations

March 18th (Wed)

9:45–12:00

07-01-0021
11 Hiroshi Isa (Maebashi Inst. of Tech.)
Eizaburo Kamei
Hiroaki Tohyama (Maebashi Inst. of Tech.)
Masayuki Watanabe (Maebashi Inst. of Tech.)
The n-th Petz–Bregman divergence and the n-th residual relative operator entropy ····· 15

07-01-0008
12 Masatoshi Ito (Maebashi Inst. of Tech.)
Eizaburo Kamei
Furuta type inequalities related to Ando–Hiai inequality with negative powers ····· 10

07-01-0013
13 Reo Tojo (Osaka Kyoiku Univ.)
Yuki Seo (Osaka Kyoiku Univ.)
Ryosuke Nakayama (Osaka Kyoiku Univ.)
Matrix Hölder–McCarthy inequality via matrix geometric means ····· 10

07-01-0014
14 Ryosuke Nakayama (Osaka Kyoiku Univ.)
Yuki Seo (Osaka Kyoiku Univ.)
Reo Tojo (Osaka Kyoiku Univ.)
Reverse matrix quasi-arithmetic power means via matrix geometric means ····· 10

07-01-0006
15 Yuki Seo (Osaka Kyoiku Univ.)
Norm inequalities for deformed operator means ····· 10

07-01-0005
16 Junichi Fujii (Osaka Kyoiku Univ.)
Matrix means for a fixed rank positive semi-definite matrices ····· 15

07-01-0002
17 Mitsuru Uchiyama (Shimane Univ.*/Ritsumeikan Univ.)
Operator functions and operator means ····· 15

07-01-0007
18 Takeaki Yamazaki (Toyo Univ.)
A generalization of the Aluthge transformation in the viewpoint of operator means ····· 15

14:15–15:10

07-01-0003
19 Chris Bruce (Univ. of Victoria)
Marcelo Laca (Univ. of Victoria)
Takuya Takeishi (Kyoto Inst. Tech.)
Partition functions as C*-dynamical invariants and actions of congruence monoids ····· 15

07-01-0011
20 Tsuyoshi Kajiwara (Okayama Univ.)
Yasuo Watatani (Kyushu Univ.*)
Dimension group of the C*-algebras associated with self-similar maps with higher dimensional branched points set ····· 15

07-01-0019
21 Hiroyasu Hamada (Sasebo Nat. Coll. of Tech.)
C*-algebras generated by multiplication operators and composition operators by functions with self-similar branches ····· 15

15:20–16:20 Talk Invited by Functional Analysis Section

07-02-0002
Keiichi Watanabe (Niigata Univ.)
On Möbius gyrovector spaces and a class of continuous mappings between them

Statistics and Probability

March 16th (Mon)

9:20–11:55

08-01-0012
1 Kiyoiki Hoshino (Osaka Pref. Univ.) — On a Riemann approximation of the stochastic integral ····· 15

08-01-0023
2 Shigeyoshi Ogawa (Ritsumeikan Univ.) — A noncausal counterpart of Girsanov's theorem ····· 10

08-01-0002
3 Yuki Ueda (Hokkaido Univ.) — Free max-probability theory ····· 15

08-01-0017
4 Shoto Osaka (Yokohama Nat. Univ.), Masato Takei (Yokohama Nat. Univ.) — On the rate of convergence for Takagi class functions ····· 15

08-01-0022
5 Yuto Nakajima (Kyoto Univ.) — Connectedness of connectedness locus for fractal n-gons and the remarkable subset ····· 15

08-01-0006
6 Yu Ito (Kyoto Sangyo Univ.) — Integration with respect to Hölder rough paths of order greater than 1/4: an approach via fractional calculus ····· 15

08-01-0024
7 Yosuke Kawamoto (Fukuoka Dental Coll.) — Transitions of generalised Bessel kernels related to biorthogonal ensembles ····· 15

08-01-0025
8 Shota Osada (Kyushu Univ.) — Isomorphism between determinantal point processes and Poisson point processes ····· 15

08-01-0007
9 Yuta Arai (Chiba Univ.) — The KPZ fixed point for discrete time TASEP ····· 15

14:15–15:00

08-01-0028
10 Kouhei Matsuura (Kyoto Univ.) — Hölder continuity of Neumann heat kernels on a class of planar domains ····· 15

08-01-0027
11 Toshihiro Uemura (Kansai Univ.), Haruna Okamura (Kansai Univ.) — Global path properties of symmetric stable processes with singular/degenerate coefficients ····· 15

08-01-0026
12 Atsushi Takeuchi (Tokyo Woman's Christian Univ.) — Gradient formula for jump processes on manifolds ····· 15

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

08-02-0002
Dai Taguchi (Okayama Univ.) — Numerical analysis of stochastic differential equations

16:30–17:30 Talk Invited by Statistics and Probability Section

08-02-0004
Benoît Collins (Kyoto Univ.)♭ — On the operator norm of random matrices

March 17th (Tue)

9:10–11:25

08-01-0005
13 Hayato Takahashi (Random Data Lab.) — Martin-Löf random sets and consistent theorem of posterior distributions ····· 15

08-01-0035
14 Naoyuki Ichihara (Aoyama Gakuin Univ.) — Convergence of value functions for finite horizon Markov decision processes with boundary conditions ····· 15

08-01-0033
15 Masaaki Tsuchiya (Kanazawa Univ.⋆)♭ — Markov processes controlled by clocks with variable motion on a Euclidean space ····· 15

08-01-0013
16 Yuji Hibino (Saga Univ.)
Construction of the canonical representation from a noncanonical representation ····· 10

08-01-0008
17 Yushi Hamaguchi (Kyoto Univ.)
Time-inconsistent consumption-investment problems under general discount functions ····· 15

08-01-0030
18 Noriyoshi Sakuma (Aichi Univ. of Edu.)
Ryoichi Suzuki (Keio Univ.)
A Clark–Ocone–Haussmann type formula under change of measure for L^1-canonical additive processes and its applications ····· 10

08-01-0029
19 Toru Sera (Kyoto Univ.)
Kouji Yano (Kyoto Univ.)
Yu Ito (Kyoto Sangyo Univ.)
Resolution of sigma-fields for multiparticle finite-state action evolutions with infinite past ····· 15

08-01-0034
20 Tomoki Inoue (Ehime Univ.)
Invariant measures of random dynamical systems with indifferent fixed points ····· 15

11:30–12:00 Research Section Assembly

March 18th (Wed)

9:00–12:00

08-01-0009
21 Yuichi Goto (Waseda Univ.)
Estimation of trigonometric moments for circular distribution of MA(p) type by using binary series ····· 10

08-01-0032
22 Akitoshi Kimura (Waseda Univ.)
The asymptotic variance estimators of the correlation estimator between latent processes and their asymptotic properties ····· 15

08-01-0015
23 Fumiya Akashi (Univ. of Tokyo)
Holger Dette (Ruhr-Univ. Bochum)
Robust regression on hyper-spheres with unspecified heteroscedastic errors ····· 15

08-01-0016
24 Fumiya Akashi (Univ. of Tokyo)
Junichi Hirukawa (Niigata Univ.)
Konstantinos Fokianos (Lancaster Univ.)
Inference for heavy-tailed time varying processes by self-weighting ···· 15

08-01-0031
25 Yan Liu (Waseda Univ.)
Akitosho Kimura (Waseda Univ.)
Masanobu Taniguchi (Waseda Univ.)
Hernando Ombao (King Abdullah Univ. of Sci. Tech.)
Persistence diagram for Granger causality ····· 15

08-01-0003
26 Ken-ichi Koike (Univ. of Tsukuba)
Attainment conditions for Bayesian information inequalities ····· 10

08-01-0004
27 Koji Tsukuda (Univ. of Tokyo)
A note on the weak convergence of the posterior process when the Pitman–Yor process prior is placed ····· 15

08-01-0020
28 Yoshihide Kakizawa (Hokkaido Univ.)
Density ratio/conditional density estimation for nonnegative data ···· 15

08-01-0010
29 Nobuhiro Taneichi (Hokkaido Univ. of Edu.)
Yuri Sekiya (Hokkaido Univ. of Edu.)
Jun Toyama (Inst. for Practical Appl. of Math.)
Approximations of the distributions of test statistics for independence among groups of factors in a multi-way contingency table based on asymptotic expansion ····· 15

08-01-0021
30 Kiyotaka Iki (Nihon Univ.)
Parsimonious bivariate t-distribution type symmetry models for square contingency tables ····· 15

08-01-0019
31 Hiromu Yumiba (Int. Center for Academic Exchange)
Yoshifumi Hyodo (Okayama Univ. of Sci.)
E*-optimal balanced third-order designs of resolution R*({10, 01}) with $N < \nu(m)$ for 3^m factorials 15

14:15–15:05

08-01-0011
32 Yoshihiko Konno (Japan Women's Univ.)
Satomi Seita (Japan Women's Univ.)
Shrinkage estimation of mean for complex multivariate normal distribution with unknown covariance when $p > n$ 15

08-01-0014
33 Kazuyoshi Yata (Univ. of Tsukuba)
Makoto Aoshima (Univ. of Tsukuba)
Singular value estimation for high-dimensional cross-covariance matrix 15

08-01-0018
34 Aki Ishii (Tokyo Univ. of Sci.)
Kazuyoshi Yata (Univ. of Tsukuba)
Makoto Aoshima (Univ. of Tsukuba)
A test procedure for high-dimensional eigenvectors 15

15:20–16:20 Talk Invited by Statistics and Probability Section

08-02-0003
Rie Enomoto (Seikei Univ.)
Consistency of some information criteria in high-dimensional growth curve models

16:35–17:35 Talk Invited by Statistics and Probability Section

08-02-0001
Kou Fujimori (Waseda Univ.)
The Dantzig selector for statistical models of stochastic processes in high-dimensional and sparse settings

Applied Mathematics

March 16th (Mon)

10:00–11:40

09-01-0017
1 Masato Kobayashi (Kanagawa Univ.) Answer Henegphan–Petersen's question on alternating permutations and Euler numbers ····· 15

09-01-0027
2 Yukie Inaba (Japan Women's Univ.), Hajime Fujita (Japan Women's Univ.), Takefumi Kondo (Kagoshima Univ.) Counting rooted spanning forests and Chebyshev polynomials ····· 15

09-01-0006
3 Iwao Sato (Oyama Nat. Coll. of Tech.), Shigeki Matsutani (Kanazawa Univ.), Hideo Mitsuhashi (Hosei Univ.), Hideaki Morita (Muroran Inst. of Tech.) The partial differential coefficients for the second Bartholdi zeta function of a graph ····· 15

09-01-0035
4 Ayaka Ishikawa (Yokohama Nat. Univ.) The Ihara expressions of the quaternionic Mizuno–Sato zeta functions for digraphs ····· 15

09-01-0007
5 Osamu Kada (Hosei Univ.) Characteristic polynomials and zeta functions of equitably partitioned graphs ····· 15

09-01-0034
6 Hideaki Morita (Muroran Inst. of Tech.) On the determinant expression for graph zeta functions ····· 15

14:20–16:05

09-01-0016
7 Shinya Fujita (Yokohama City Univ.) Recent topics on rainbow connectivity in edge-colored graphs ····· 10

09-01-0036
8 Michitaka Furuya (Kitasato Univ.) Bounds on self domination number and an edge-deletion operation in trees ····· 15

09-01-0011
9 Kiyoshi Ando (Nat. Inst. of Information / JST ERATO), Yoshimi Egawa (Tokyo Univ. of Sci.) Contractible edges and contractible triangles in a 3-connected graph ····· 15

09-01-0003
10 Chie Nara (Meiji Univ.), Jin-ichi Itoh (Sugiyama Jogakuen Univ.) Continuous flattening of the 2-skeletons of triangular faces in higher dimensional cross-polytopes ····· 15

09-01-0033
11 Yasuhide Numata (Shinshu Univ.), Akiko Yazawa (Shinshu Univ.) The eigenvalues of a matrix defined by the complete graph with selfloops ····· 15

09-01-0040
12 Sho Suda (Nat. Defense Acad. of Japan), Alexander Gavrilyuk (Pusan Nat. Univ.) On the multiplicities of digraph eigenvalues ····· 10

09-01-0021
13 Ryoya Fukasaku (Kyushu Univ.), Michitaka Furuya (Kitasato Univ.), Akihiro Higashitani (Osaka Univ.) Chromatic numbers of tensor products of graphs and Gröbner basis ····· 15

16:20–17:20 Talk Invited by Applied Mathematics Section

09-02-0003
Masanori Sawa (Kobe Univ.) On the rationality of classical orthogonal polynomials, quadrature formulas and geometric designs

March 17th (Tue)

9:50–11:15

09-01-0012
14 Ryota Hanaoka (Yokohama Nat. Univ.)
Norio Konno (Yokohama Nat. Univ.)
Shohei Koyama (Yokohama Nat. Univ.)
A time-series analysis based on two-state quantum walk in one dimension 10

09-01-0022
15 Masahiro Asano (Yokohama Nat. Univ.)
Norio Konno (Yokohama Nat. Univ.)
Akihiro Narimatsu (Yokohama Nat. Univ.)
Long-time behavior of the Grover walk on the two-dimensional lattice 15

09-01-0029
16 Takuto Naito (Yokohama Nat. Univ.)
Chusei Kiumi (Yokohama Nat. Univ.)
Norio Konno (Yokohama Nat. Univ.)
Sarato Takahashi (Yokohama Nat. Univ.)
Recommendation models based on walks (Part 1) 10

09-01-0030
17 Chusei Kiumi (Yokohama Nat. Univ.)
Norio Konno (Yokohama Nat. Univ.)
Takuto Naito (Yokohama Nat. Univ.)
Sarato Takahashi (Yokohama Nat. Univ.)
Recommendation models based on walks (Part 2) 10

09-01-0031
18 Takashi Komatsu (Univ. of Tokyo)
Norio Konno (Yokohama Nat. Univ.)
Hisashi Morioka (Ehime Univ.)
Etsuo Segawa (Yokohama Nat. Univ.)
An explicit expression of scattering matrix of a two state quantum walk on one-dimensional lattice by path counting 15

09-01-0041
19 Yusuke Ide (Kanazawa Inst. of Tech.)
Norio Konno (Yokohama Nat. Univ.)
Relationships between orthonormal polynomial related to the limit distribution of quantum walk and corresponding random walk 15

11:30–11:50 Presentation Ceremony for the 2019 MSJ Prize for Excellent Young Applied Mathematicians

March 18th (Wed)

9:30–12:00

09-01-0032
20 Ken Nakashima (Shizuoka Univ.)
Hideto Asashiba (Shizuoka Univ.)
Emerson Gaw Escolar (RIKEN / Kyoto Univ.)
Michio Yoshiwaki (RIKEN / Kyoto Univ. / Osaka City Univ.)
On approximation of 2D persistence modules by interval-decomposables 15

09-01-0025
21 Emerson Gaw Escolar (RIKEN / Kyoto Univ.)
Killian F. Meehan (Kyoto Univ.)
Michio Yoshiwaki (RIKEN / Osaka City Univ. / Kyoto Univ.)
Every pair of Λ-interleavings is $\widetilde{\Lambda}$-interleaved 15

09-01-0008
22 Ippei Obayashi (RIKEN / Tohoku Univ.)
Michio Yoshiwaki (RIKEN / Osaka City Univ. / Kyoto Univ.)
Field choice problem on persistent homology 15

09-01-0020
23 Tatsuya Mikami (Kyoto Univ.)
First passage percolation on a crystal lattice 15

09-01-0037
24 Tatsuki Shimizu (Kyoto Univ.)
Yasuaki Hiraoka (Kyoto Univ.)
Limit theorems in the decomposition theory of multi-parameter persistent homology 15

09-01-0019
25 Emerson Gaw Escolar (RIKEN / Kyoto Univ.)
Yasuaki Hiraoka (Kyoto Univ.)
Mitsuru Igami (Yale Univ.)
Yasin Ozcan (MIT Sloan)
Mapping firms' locations in technological space: A topological analysis of patent statistics 15

09-01-0013
26 Yusuke Imoto (Kyoto Univ.)
Yasuaki Hiraoka (Kyoto Univ. / Kyoto Univ. / RIKEN)
Michio Yoshiwaki (RIKEN)
Emerson G. Escolar (RIKEN)
Tomonori Nakamura (Kyoto Univ.)
Takuya Yamamoto (Kyoto Univ.)
Mitinori Saitou (Kyoto Univ. / Kyoto Univ. / Kyoto Univ.)
Data-noise reduction method based on high-dimensional statistics and its application to genetic data 15

09-01-0024
27 Yusuke Imoto (Kyoto Univ.)
Yasuaki Hiraoka (Kyoto Univ. / Kyoto Univ. / RIKEN)
Shohei Shimizu (Shiga Univ. / RIKEN)
Takashi Nicholas Maeda (RIKEN)
Yoji Kojima (Kyoto Univ.)
Mitinori Saitou (Kyoto Univ. / Kyoto Univ. / Kyoto Univ.)
Estimate of gene regulatory network based on dynamical system and statistical causal discovery 15

14:30–15:50

09-01-0009
28 Takeshi Gotoda (Nagoya Univ.)
Numerical study of initial configurations leading to collapse in the point-vortex system 15

09-01-0010
29 Taito Tauchi (Univ. of Tokyo)
Tsuyoshi Yoneda (Univ. of Tokyo)
Existence of a conjugate point in the incompressible Euler flow on an ellipsoid 15

09-01-0014
30 Takashi Teramoto (Asahikawa Medical Univ.)
Peter van Heijster (Queensland Univ. of Tech.)
Pinned pulse solutions inside a bump type heterogeneity 10

09-01-0023
31 Takayuki Kubo (Ochanomizu Univ.)
Yoshihiro Ueda (Kobe Univ.)
On global in time solution to Burgers equation with a time delay 15

09-01-0039
32 Itsuki Watanabe (Waseda Univ.)
Hiroshi Toyoizumi (Waseda Univ.)
Central limit theorem for data-diffusion with linear reactions 15

16:00–17:00 Talk Invited by Applied Mathematics Section

09-02-0001
Sungrim Seirin Lee (Hiroshima Univ.)
Reaction-diffusion equation, its infinite talent in pattern formation of life science

March 19th (Thu)

9:15–10:50

09-01-0001
33 Shunji Horiguchi
Binomial expansions of Newton's method and comparison of convergence 10

09-01-0002
34 Shunji Horiguchi — Examples of numerical calculations of the binomial expansions of Newton's method · · · · · 10

09-01-0015
35 Fuminori Sakaguchi (Univ. of Fukui) — A possibility of wider application of an algorithm for solving ODEs by means only of four arithmetical operations among integers · · · · · 15

09-01-0005
36 Koichi Anada (Waseda Univ. Senior High School)
Tetsuya Ishiwata (Shibaura Inst. of Tech.)
Takeo Ushijima (Tokyo Univ. of Sci.) — A remark on asymptotic behavior of blow-up solutions to a quasi-linear parabolic equation for a curve shortening problem · · · · · 15

09-01-0018
37 Takehiko Kinoshita (Kyushu Univ.)
Watanabe Yoshitaka (Kyushu Univ.)
Mitsuhiro T. Nakao (Waseda Univ.) — On the strong convergence of some approximate operators for resolvents of bounded operators · · · · · 15

09-01-0026
38 Akitoshi Takayasu (Univ. of Tsukuba)
Jean-Philippe Lessard (McGill Univ.)
Jonathan Jaquette (Brandeis Univ.)
Hisashi Okamoto (Gakushuin Univ.) — Rigorous numerics for nonlinear heat equations in the complex plane of time · · · · · 15

11:00–12:00 Talk Invited by Applied Mathematics Section

09-02-0002
Katsuhisa Ozaki (Shibaura Inst. of Tech.) — Error-free transformation for matrix multiplication: Basic, applications, and future

Topology

March 16th (Mon)

10:00–12:00

10-01-0006
1 Ryo Horiuchi (Nagoya Univ.)♭ Verschiebung maps among K-groups of truncated polynomial algebras ····· 10

10-01-0017
2 Shunsuke Kano (Tokyo Tech)
Tsukasa Ishibashi (Univ. of Tokyo) Algebraic entropy of sign-stable mutation loops ····· 15

10-01-0005
3 Taro Asuke (Univ. of Tokyo)♭ On Fatou sets of foliations ····· 15

10-01-0024
4 Atsuhide Mori (Osaka Dental Univ.) Geometry of Bayesian estimation ····· 15

10-01-0009
5 Teruaki Kitano (Soka Univ.)
Takayuki Morifuji (Keio Univ.)
Anh T. Tran (Univ. Texas at Dallas) Twisted Alexander polynomials of torus links ····· 10

10-01-0010
6 Yuta Nozaki (Meiji Univ.)
Masatoshi Sato (Tokyo Denki Univ.)
Masaaki Suzuki (Meiji Univ.) Abelian quotients of the Y-filtration on the homology cylinders via the LMO functor ····· 15

10-01-0013
7 Ryoto Tange (Tokyo Denki Univ.) Twisted Alexander polynomials of hyperbolic twist knots and von Dyck groups ····· 10

10-01-0022
8 Takefumi Nosaka (Tokyo Tech) K_1-Alexander twisted polynomials of knots ····· 15

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

10-02-0002
Takayuki Morifuji (Keio Univ.) Twisted Alexander polynomials of hyperbolic knots and links

15:30–16:30 Talk Invited by Topology Section

10-02-0003
Naoki Fujita (Univ. of Tokyo) Toric degenerations arising from Newton–Okounkov bodies and cluster structures

March 17th (Tue)

10:00–12:00

10-01-0004
9 Atsushi Ishii (Univ. of Tsukuba)
Shosaku Matsuzaki (Takushoku Univ.)
Tomo Murao (Univ. of Tsukuba) A multiple group rack and oriented spatial surfaces ····· 10

10-01-0011
10 Atsushi Ishii (Univ. of Tsukuba) The fundamental multiple conjugation quandle of a handlebody-knot ····· 10

10-01-0012
11 Ryoma Kobayashi (Ishikawa Nat. Coll. of Tech.)
Genki Omori (Tokyo Univ. of Sci.) Infinite presentations for the mapping class group and its twist subgroup of a compact non-orientable surface ····· 15

10-01-0023
12 Genki Omori (Tokyo Univ. of Sci.)
Naoki Sakata (Saitama Univ.) Dehn twist-crosscap slide presentations for involutions on non-orientable surfaces of genus 4 and 5 ····· 15

10-01-0014
13 Takuya Ukida (Tokyo Tech) Genus zero PALF structures on the Akbulut–Yasui plugs ····· 10

10-01-0021
14 Nobutaka Asano (Tohoku Univ.) Vertical 3-manifolds in simplified genus 2 trisections of 4-manifolds ··· 15

10-01-0002
15 Masaki Taniguchi (Univ. of Tokyo) Seifert hypersurfaces of 2-knots and Chern–Simons functional ····· 15

10-01-0015
16 Jun O'Hara (Chiba Univ.) Regularization of self-inductance ····· 15

13:15–14:15 Talk Invited by Topology Section

10-02-0001
Hokuto Konno (RIKEN) Gauge theory and diffeomorphism and homeomorphism groups

March 18th (Wed)

10:00–12:00

10-01-0001
17 Katsumi Ishikawa (Kyoto Univ.)
Kazuhiro Ichihara (Nihon Univ.)
Eri Matsudo (Nihon Univ.)
Minimal coloring numbers on minimal diagrams of torus links ····· 10

10-01-0003
18 Natsumi Oyamaguchi (Shumei Univ.)
Kanako Oshiro (Sophia Univ.)
Pallets of Dehn p-coloring for spatial graphs ····· 10

10-01-0007
19 Mario Eudave-Muñoz ♭ (Univ. Nacional Autónoma de México)
Makoto Ozawa (Komazawa Univ.)
The maximum and minimum genus of a multibranched surface ····· 15

10-01-0016
20 Noboru Ito (Univ. of Tokyo)
Yusuke Takimura (Gakushuin Boys' Junior High School)
The tabulation of prime knot projections with their mirror images up to eight double points ····· 10

10-01-0019
21 Kazuhiro Ichihara (Nihon Univ.)
Toshio Saito (Joetsu Univ. of Edu.)
In Dae Jong (Kindai Univ.)
Thomas W. Mattman (California State Univ., Chico)
Two-bridge knots admit no purely cosmetic surgeries ····· 15

10-01-0020
22 Yasuharu Nakae (Akita Univ.)
Kazuhiro Ichihara (Nihon Univ.)
Dehn surgeries along genus one fibered knots and left-orderability of fundamental groups ····· 15

10-01-0025
23 Toshifumi Tanaka (Gifu Univ.)
On satellite knots with symmetric union presentations ····· 10

10-01-0026
24 Tetsuya Abe (Ritsumeikan Univ.)
Keiji Tagami (Nat. Fisheries Univ.)
Table of annulus presentations of knots ····· 10

10-01-0018
25 Tetsuya Itoh (Kyoto Univ.)
Infiniteness of closed braid representatives ····· 10

Infinite Analysis

March 18th (Wed)

14:15–16:15

11-01-0009
1 Koichi Hiraide (Ehime Univ.)
Chihiro Matsuoka (Osaka City Univ.)
Stokes-like phenomena which appear in dynamics of complex Henon maps · · · · · 15

11-01-0001
2 Nozomu Matsuura (Kurume Inst. of Tech.)
Explicit formula for planar discrete elasticae · · · · · 15

11-01-0015
3 Yuuki Tadokoro (Nat. Inst. of Tech., Kisarazu Coll.)
Masayoshi Sekiguchi (Nat. Inst. of Tech., Kisarazu Coll.)
Masaru Kamata (Nat. Inst. of Tech., Kisarazu Coll.*)
Nonlinear $O(3)$ sigma model in discrete complex analysis · · · · · 15

11-01-0008
4 Yas-Hiro Quano (Suzuka Univ. of Med. Sci.)
Runge–Lenz like vectors for central force fields · · · · · 15

11-01-0018
5 Junichi Shiraishi (Univ. of Tokyo)
Non-stationary Ruijsenaars function · · · · · 15

11-01-0019
6 Junichi Shiraishi (Univ. of Tokyo)
Non-stationary and stationary Ruijsenaars functions and eigenvalue problem associated with Ruijsenaars operator · · · · · 15

11-01-0012
7 Yusuke Ohkubo (Univ. of Tokyo)
Jun'ichi Shiraishi (Univ. of Tokyo)
Masayuki Fukuda (Univ. of Tokyo)
Non-stationary Ruijsenaars functions and intertwining operators of the Ding–Iohara–Miki algebra · · · · · 15

16:30–17:30 Talk Invited by Infinite Analysis Special Session

11-02-0002
Hideya Watanabe (Kyoto Univ.)
ıquantizations

March 19th (Thu)

9:45–11:30

11-01-0014
8 Sanefumi Moriyama (Osaka City Univ.)
Quantum curves and Weyl groups · · · · · 15

11-01-0017
9 Kanehisa Takasaki (Kindai Univ.)
Equivariant Gromov–Witten theory of CP^1 and equivariant Toda hierarchy · · · · · 15

11-01-0006
10 Hiroyuki Yamane (Univ. of Toyama)
On typical irreducible characters of generalized quantum groups · · · · · 15

11-01-0004
11 Ryo Fujita (Kyoto Univ.)
Singularities of normalized R-matrices between fundamental modules over the affine quantum groups of type ADE · · · · · 15

11-01-0002
12 Yasuaki Gyoda (Nagoya Univ.)
Relation between f-vectors and d-vectors in cluster algebras of finite type or rank 2 · · · · · 15

11-01-0016
13 Naoto Okubo (Aoyama Gakuin Univ.)
Tetsu Masuda (Aoyama Gakuin Univ.)
Teruhisa Tsuda (Hitotsubashi Univ.)
Cluster algebras and higher order q-Painlevé systems of type $A_7^{(1)}$ · · · · 15

14:15–16:00

11-01-0003
14 Genki Shibukawa (Kobe Univ.) Another proof of difference equations for interpolation Jack polynomials 15

11-01-0007
15 Ryuya Matsunawa (Chuo Univ.)
Tomoki Sato (Chuo Univ.)
Kouichi Takemura (Ochanomizu Univ.) Variants of confluent q-hypergeometric equations 15

11-01-0010
16 Hiroshi Kawakami (Aoyama Gakuin Univ.) On four-dimensional Painlevé-type difference equations 15

11-01-0011
17 Hiroshi Kawakami (Aoyama Gakuin Univ.) A q-analogue of the matrix sixth Painlevé system 15

11-01-0013
18 Masahiko Ito (Univ. of Ryukyus)
Masatoshi Noumi (Kobe Univ.) q-Difference system for the elliptic hypergeometric integral of type G_2 with six parameters 15

11-01-0005
19 Hidehito Nagao (Akashi Coll. of Tech.)
Yasuhiko Yamada (Kobe Univ.) Padé method and q-quadratic Garnier systems 15

16:15–17:15 Talk Invited by Infinite Analysis Special Session

11-02-0001
Yoshihisa Saito (Rikkyo Univ.) On elliptic Artin groups