

2014 Mathematical Society of Japan

AUTUMN MEETING

Dates: September 25th (Thu)–28th (Sun), 2014

Venue: Hiroshima University, Higashi-Hiroshima Campus
1–7–1, Kagamiyama, Higashi-Hiroshima City,

Hiroshima 739-8521

Contact to: Department of Mathematics,

Graduate School of Sciences, Hiroshima University
1–3–1, Kagamiyama, Higashi-Hiroshima City,

Hiroshima 739-8526

E-mail hiroshima14sept@mathsoc.jp

During session: Phone +81 (0) 90 1791 3483

Mathematical Society of Japan

Phone +81 (0) 3 3835 3483

| | I Fac. Int. Arts Sci. K110 | II Fac. Int. Arts Sci. K108 | III Fac. Int. Arts Sci. K107 | IV Fac. Int. Arts Sci. L101 | V Fac. Int. Arts Sci. L102 | VI Fac. Int. Arts Sci. K211 | VII Fac. Int. Arts Sci. K210 | VIII Fac. Int. Arts Sci. K201 | IX Fac. Int. Arts Sci. K314 | |
|---|--|--------------------------------------|---|--|---|---------------------------------------|---|---|---|--|
| 25th (Thu) | Complex Analysis 9:00–12:00 14:10–16:50 | Algebra 9:30–12:00 14:15–16:15 | Geometry 9:40–12:00 14:15–16:10 | Functional Analysis 14:15–16:35 | Functional Equations 9:00–12:00 14:15–16:15 | Topology 9:20–12:00 14:15–15:25 | Statistics and Probability 9:30–11:50 | Applied Mathematics 9:30–11:30 14:15–17:00 | Infinite Analysis 10:00–12:00 14:15–15:30 | |
| | Featured Invited Talks | | | | | 13:00–14:00 | | | | |
| | Invited Talk 17:00–18:00 | Invited Talk 16:30–17:30 | Invited Talk 16:30–17:30 | Invited Talk 17:00–18:00 | Invited Talk 16:30–17:30 | Invited Talk 15:45–16:45 | Invited Talks 14:15–15:15 15:30–16:30 | | Invited Talk 15:45–16:45 | |
| 26th (Fri) | Complex Analysis 9:00–10:30 | Algebra 9:30–11:50 | Geometry | Functional Analysis 10:00–11:50 | Functional Equations 9:00–12:00 | Topology 13:00–14:15 | Statistics and Probability 9:30–11:30 | Applied Mathematics 9:30–11:30 | Infinite Analysis 10:00–12:00 | |
| | Invited Talk 13:20–14:20 | Invited Talk 13:20–14:20 | Invited Talks 10:50–11:50 13:15–14:15 | Invited Talk 13:10–14:10 | Invited Talk 13:15–14:15 | | | Invited Talk 13:00–14:00 | Invited Talk 13:00–14:00 | |
| | MSJ Prizes Presentation (Satake Memorial Hall) (14:50–15:20) | | | | | | | | | |
| | Plenary Talks (Satake Memorial Hall) MSJ Autumn Prize Winner (15:30–16:30) Ken'ichi Ohshika (Osaka Univ.) (16:45–17:45) | | | | | | | | | |
| Official Party (Saijo HAKUWA Hotel) (18:15–20:15) | | | | | | | | | | |
| 27th (Sat) | Real Analysis 9:00–11:45 14:15–16:20 | Algebra 9:30–11:25 15:30–17:30 | Geometry 9:40–12:00 14:15–16:00 | Functional Analysis 9:00–12:00 14:15–16:45 | Functional Equations 9:00–12:00 14:15–16:15 | Topology 9:20–11:50 14:15–15:40 | Statistics and Probability 9:30–12:00 | Applied Mathematics 14:15–16:30 Special Session 9:30–11:55 | Found. of Math. and History of Math. 9:30–11:40 14:15–15:40 | |
| | Featured Invited Talks | | | | | 13:00–14:00 | | | | |
| | Invited Talk 16:40–17:40 | Invited Talk 14:15–15:15 | Invited Talk 16:15–17:15 | Invited Talk 17:00–18:00 | Invited Talk 16:30–17:30 | Invited Talk 16:00–17:00 | Invited Talks 14:15–15:15 15:30–16:30 | Invited Talk 16:45–17:45 | Invited Talk 16:00–17:00 | |
| 28th (Sun) | Real Analysis 9:00–11:50 14:15–15:40 | Algebra 9:15–12:00 | | | Functional Equations 9:00–12:00 14:15–16:15 | Topology 9:20–12:00 | Statistics and Probability 9:30–11:20 14:15–16:10 | Applied Mathematics 9:30–11:50 14:15–16:15 | Found. of Math. and History of Math. 9:30–11:30 15:00–16:10 | |
| | Featured Invited Talks | | | | | 13:00–14:00 | | | | |
| | Invited Talk 16:00–17:00 | Invited Talk 14:15–15:15 | | | Invited Talk 16:30–17:30 | | | Invited Talk 16:30–17:30 | | |

Plenary Talks

September 26th (Fri) Satake Memorial Hall

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|--------------------------------|--|---------------------|
| MSJ Autumn Prize Winner | | (15:30–16:30) |
| Ken'ichi Ohshika (Osaka Univ.) | Geometry of Kleinian groups and its applications | (16:45–17:45) |

Featured Invited Talks

September 25th (Thu)

Conference Room II

| | | |
|---|----------------------------------|---------------------|
| Ming-Lun Hsieh (Nat. Taiwan Univ.) ^b | Modular forms and Iwasawa theory | (13:00–14:00) |
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Conference Room V

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|------------------------------|--|---------------------|
| Seiro Omata (Kanazawa Univ.) | Mathematical and numerical analysis of a droplet and bubble motion | (13:00–14:00) |
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September 27th (Sat)

Conference Room II

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|--------------------------------|--|---------------------|
| Masaki Kashiwara (Kyoto Univ.) | Riemann Hilbert correspondence for irregular holonomic D-modules | (13:00–14:00) |
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Conference Room III

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|----------------------------------|--|---------------------|
| Toshitake Kohno (Univ. of Tokyo) | Iterated integrals and de Rham homotopy theory | (13:00–14:00) |
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Conference Room V

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|-----------------------------------|---|---------------------|
| Yasuo Komori-Furuya (Tokai Univ.) | Cauchy integral operator and related topics | (13:00–14:00) |
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September 28th (Sun)

Conference Room II

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|----------------------------------|--------------------------------|---------------------|
| Ichiro Shimada (Hiroshima Univ.) | K3 surfaces and lattice theory | (13:00–14:00) |
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Conference Room III

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|--|--|---------------------|
| Mitsuo Morimoto (Yokkaichi Univ./Sophia Univ.*) | The 350th anniversary of Takebe Katahiro | (13:00–14:00) |
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Talks Invited by Research Sections and Special Session

September 25th (Thu)

Algebra (Conference Room II)

Hidehiko Mishou (Tokyo Denki Univ.) An overview of the theory of universality for zeta functions
 (16:30–17:30)

Geometry (Conference Room III)

Osamu Ikawa (Kyoto Inst. Tech.)* Foundations and applications of symmetric triads (16:30–17:30)

Complex Analysis (Conference Room I)

Yoshihiro Mizuta Function spaces of variable exponent and Sobolev's theorem
 (Hiroshima Inst. of Tech.) (17:00–18:00)

Functional Equations (Conference Room V)

Naoki Sioji (Yokohama Nat. Univ.) A generalized Pohozaev identity and uniqueness of positive
 radial solutions for an elliptic equation (16:30–17:30)

Functional Analysis (Conference Room IV)

Tetsu Mizumachi (Kyushu Univ.) Stability of line solitons for the KP-II equation (17:00–18:00)

Statistics and Probability (Conference Room VII)

Atsushi Takeuchi (Osaka City Univ.) Integration by parts formula for jump processes (14:15–15:15)

Hiroki Takahashi (Keio Univ.)* On the destruction of Smale's horseshoe in the Henon map
 (and what comes afterwards) (15:30–16:30)

Topology (Conference Room VI)

Brian Bowditch * Rigidity results for spaces associated to a surface (15:45–16:45)
 (Univ. of Warwick/Tokyo Tech)

Infinite Analysis (Conference Room IX)

Soichi Okada (Nagoya Univ.) Schur-type Pfaffians and their applications to symmetric func-
 tion (15:45–16:45)

September 26th (Fri)

Algebra (Conference Room II)

Masato Okado (Osaka City Univ.) Tetrahedron equation and quantum groups (13:20–14:20)

Geometry and Topology (Conference Room III)

Award Lecture for MSJ Geometry Prize 2014 —Celebrating Professor Masatake Kuranishi—
Ryushi Goto (Osaka Univ.) Kuranishi's masterpieces and their developments in deformation
Kimio Miyajima (Kagoshima Univ.*) theory and CR-geometry (10:50–11:50)

Geometry (Conference Room III)

Takumi Yokota (Kyoto Univ.) Convex functions and barycenter on CAT(1)-spaces of small
 radii (13:15–14:15)

Complex Analysis (Conference Room I)

Yukitaka Abe (Univ. of Toyama)* Analytic study of singular curves (13:20–14:20)

Functional Equations (Conference Room V)

Hideo Nakazawa^b Scattering problems for wave equations with dissipation and
(Nippon Medical School) related topics (13:15–14:15)

Functional Analysis (Conference Room IV)

Hiroshi Oda (Takushoku Univ.) Connections between representation theories for real reduc-
tive Lie groups and graded Hecke algebras (13:10–14:10)

Applied Mathematics (Conference Room VIII)

Etsuo Segawa (Tohoku Univ.) Spectral mapping of quantum walks (13:00–14:00)

Infinite Analysis (Conference Room IX)

Yousuke Ohyama (Osaka Univ.) Classical Analysis on the q -Painlevé equations (13:00–14:00)

September 27th (Sat)

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

Daisuke Ikegami (Kobe Univ.) Gödel's program, large cardinals, and forcing axioms (16:00–17:00)

Algebra (Conference Room II)

Hiroyuki Minamoto (Osaka Pref. Univ.)^b Derived bi-duality and DG-completion (14:15–15:15)

Geometry (Conference Room III)

Shin-ichi Oguni (Ehime Univ.)* The coarse Baum–Connes conjecture and coarse algebraic
topology (16:15–17:15)

Functional Equations (Conference Room V)

Kotaro Tsugawa (Nagoya Univ.) Local well-posedness for fifth-order nonlinear dispersive equa-
tions (16:30–17:30)

Real Analysis (Conference Room I)

Kenichi Mitani (Okayama Pref. Univ.) On geometrical constants of Banach spaces (16:40–17:40)

Functional Analysis (Conference Room IV)

Yasuhiko Sato (Kyoto Univ.)^b Classification theorem of C^* -algebras and the Toms–Winter
conjecture (17:00–18:00)

Statistics and Probability (Conference Room VII)

Hironori Fujisawa (Inst. of Stat. Math.) Divergence-based robust statistics (14:15–15:15)

Yoichi Miyata On asymptotic properties of Bayesian type estimators (15:30–16:30)
(Takasaki City Univ. of Econ.)

Applied Mathematics (Conference Room VIII)

Yoshihito Oshita (Okayama Univ.) Motion of droplets driven by curvature and potential (16:45–17:45)

Topology (Conference Room VI)

Masaharu Ishikawa (Tohoku Univ.) Stable maps and branched shadows of 3-manifolds (16:00–17:00)

September 28th (Sun)

Algebra (Conference Room II)

Isamu Iwanari (Tohoku Univ.)^b Tannaka duality for higher categories (14:15–15:15)

Functional Equations (Conference Room V)

Shinya Okabe (Tohoku Univ.)^b A fourth order parabolic obstacle problem (16:30–17:30)

Real Analysis (Conference Room I)

Kentarou Yoshii (Tokyo Univ. of Sci.) On the hyperbolic type linear evolution equations (16:00–17:00)

Applied Mathematics (Conference Room VIII)

Takeshi Takaishi (Hiroshima Kokusai Gakuin Univ.) A phase-field model for crack growth and its numerical verification (16:30–17:30)

Open Lectures for Citizens

Date: September 28th (Sun) 14:00–16:30

Venue: Fac. Sci., Bldg. E, E102

Sponsored by: Mathematical Society of Japan

Program: Opening Speech:

Tadahisa Funaki (President of MSJ/Univ. of Tokyo) (14:00–14:10)

Lecture 1:

Ryo Kobayashi (Hiroshima Univ.)

Wonderful ability of the single-cell organism —Slime mold taught us how to control robots— (14:10–15:10)

Lecture 2:

Shun-ichi Kimura (Hiroshima Univ.)

Mathematics via experiments! (15:30–16:30)

Web Page: <http://mathsoc.jp/en/meeting/hiroshima14sept/>

Foundation of Mathematics and History of Mathematics

September 27th (Sat) Conference Room IX

9:30–11:40

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|---|--|---|--|----|
| 1 | Takashi Oyabu | ‡ | Theory of H -theorems, and other 5 talks | 5 |
| 2 | Yoshifumi Ito (Univ. of Tokushima*) | | Definition and existence theorem of the concept of ordinal numbers | 15 |
| 3 | <u>Makoto Kikuchi</u> (Kobe Univ.) Sakaé Fuchino (Kobe Univ.) | | On the constructive nature of the incompleteness theorem | 15 |
| 4 | <u>Makoto Kikuchi</u> (Kobe Univ.) Taishi Kurahashi (Kisarazu Nat. Coll. of Tech.) | | On theorems and proofs in nonstandard models of arithmetic | 15 |
| 5 | <u>Kazuyuki Tanaka</u> (Tohoku Univ.) Florian Peluassy (Tohoku Univ.) | | Phase transitions and reverse mathematics | 15 |
| 6 | <u>Toshio Suzuki</u> (Tokyo Metro. Univ.) Yoshinao Niida (Patent Result Co.) | | Equilibrium points of an AND-OR tree: under constraints on probability | 15 |
| 7 | Kohtaro Tadaki (Chuo Univ.) | | Reformulating quantum mechanics by algorithmic randomness | 15 |
| 8 | Hiroyuki Ota (Univ. of Tokyo) <u>Akitoshi Kawamura</u> (Univ. of Tokyo) | | Small complexity classes for computable analysis | 15 |

14:15–15:40

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| 9 | <u>Takayuki Kihara</u> (JAIST) Arno Pauly (Univ. of Cambridge) | | σ -homeomorphism types and point degree spectra of infinite dimensional spaces | 15 |
| 10 | Sakaé Fuchino (Kobe Univ.) | | Almost continuity of Baire functions | 15 |
| 11 | <u>Hiroaki Minami</u> Hiroshi Sakai (Kobe Univ.) | | The dominating number of F_σ ideals on Katětov–Blass order | 15 |
| 12 | Yoshihiro Abe (Kanagawa Univ.) | | Rigidity and weakly normal ideals on $\mathcal{P}_\kappa\lambda$ | 15 |
| 13 | Toshimichi Usuba (Kobe Univ.) | | Set-theoretic geology in HOD | 15 |

16:00–17:00 Talk Invited by Section on Foundation and History of Mathematics

Daisuke Ikegami (Kobe Univ.) Gödel's program, large cardinals, and forcing axioms

September 28th (Sun) Conference Room IX

9:30–11:30

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|----|--|--|--|----|
| 14 | Koichiro Ikeda (Hosei Univ.) | | Simplicity and the strong order property of generic structures | 15 |
| 15 | Hiroataka Kikyo (Kobe Univ.) | | On model complete generic structures | 15 |
| 16 | <u>Munehiro Kobayashi</u> (Univ. of Tsukuba) Akito Tsuboi (Univ. of Tsukuba) | | On the equivalence of dividing and forking in NTP_2 theories | 15 |

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| 17 | Toshihiko Kurata (Hosei Univ.) | Categorical equivalence between concrete domains and sheaves | 15 |
| 18 | Katsuhiko Sano (JAIST) | Cut-elimination theorem for Belnap–Dunn’s four-valued logic | 15 |
| 19 | Nobu-Yuki Suzuki (Shizuoka Univ.) | The independence of existence and disjunction properties in intermediate predicate logics | 15 |
| 20 | Ryo Kashima (Tokyo Tech) | On semilattice relevant logics | 15 |

11:30–12:00 Research Section Assembly**14:15–14:45 Mathematics History Team Meeting Part 1**

“On the map of Japan drawn under the direction of TAKEBE Katahiro with orders of Yoshimune, the eighth Tokugawa shogun, during the Kyoho period”

Lecture by Minoru Kuge (Hiroshima Prefectural Museum of History) and discussion

15:00–16:10

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| 21 | <u>Shunzi Horiguchi</u> (Niigata Sangyo Univ.) Tetsuaki Shimotomai | A discovery of the Shimizu style surveying secret book —Considerations from the connections of the surveyors and religions— | 15 |
| 22 | Shotaro Tanaka | ^b Methods for power series expansions of rational functions. Strictness and handiness of their methods | 15 |
| 23 | Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics) | La valeur particurière and the eigenvalue | 15 |
| 24 | Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics) | Prévost’s study preceding Fourier of heat communication in the history of physico-mathematics | 15 |

16:10–16:40 Mathematics History Team Meeting Part 2

Other topics

Algebra

September 25th (Thu) Conference Room II

9:30–12:00

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|---|--|---|----|
| 1 | <u>Hiroko Yanaba</u> (Hiroo Gakuen) Takahiro Shishikura (Hiroo Gakuen) | On some results of the function associated with the Euler function $\varphi(a)$ | 10 |
| 2 | Shigeru Iitaka (Gakushuin Univ.*) | On a function associated with $\sigma(a)$ | 10 |
| 3 | Yasutoshi Nomura | * Primality and divisibility of Stirling numbers of the 2nd kind | 10 |
| 4 | Isao Kiuchi (Yamaguchi Univ.)* <u>Makoto Minamide</u> (Yamaguchi Univ.) Yoshio Tanigawa (Nagoya Univ.) | On a sum involving the Möbius function | 10 |

- 5 Eiji Miyanohara (Waseda Univ.) Transcendence of digital expansions generated by a cyclic permutation and k -adic expansion 10
- 6 Takeshi Kurosawa (Tokyo Univ. of Sci.) Algebraic independence of components of certain trigonometric functions 10
Iekata Shiokawa (Keio Univ.*)
- 7 Yohei Tachiya (Hirosaki Univ.) Arithmetical properties of the values of the generalized divisor function series 10
- 8 Kazuki Sato (Tohoku Univ.) Rational points on diagonal cubic surfaces 10
- 9 Akiko Ito (Kanagawa Univ.)* On the 3-divisibility of the class numbers of certain quadratic fields (II) 10
- 10 Soichi Ikeda (Nagoya Univ.)* Mean values of multiple zeta-functions 10
Kaneaki Matsuoka (Nagoya Univ.)
- 11 Tomokazu Onozuka (Nagoya Univ.) Zero-free regions of multiple zeta star functions 10
- 12 Yumiko Hironaka (Waseda Univ.)* Zeta functions of finite groups by counting numbers of subgroups 15

14:15–16:15

- 13 Hiroto Inoue (Kyushu Univ.) Expansion of the completed Riemann zeta function in Meixner–Pollaczek polynomials and its zeros 10
- 14 Yoshikatsu Yashiro (Nagoya Univ.)* Distribution of zeros and zero-density estimate for the derivatives of L -function attached to cusp form 10
- 15 Takahiro Wakasa (Nagoya Univ.)* An explicit upper bound of the argument of Dirichlet L -functions on the generalized Riemann hypothesis 10
- 16 Kohta Gejima (Osaka Univ.) Shintani functions on $SL(2, \mathbf{C})$ and Heun’s differential equations 15
- 17 Shingo Sugiyama (Osaka Univ.) Existence of Hilbert cusp forms with non-vanishing L -values 15
Masao Tsuzuki (Sophia Univ.)
- 18 Shuichi Hayashida Generalizations of the Maass relation of Siegel modular forms 15
(Joetsu Univ. of Edu.)
- 19 Hirotaka Kodama (Kinki Univ.) On the mod p kernel of the theta operator 10
Shoyu Nagaoka (Kinki Univ.)
- 20 Hidehiko Mishou (Tokyo Denki Univ.) Joint d -universality for Dirichlet L -functions with real characters and multi-dimensional denseness of quadratic class numbers 10
Hirofumi Nagoshi (Gunma Univ.)

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

- Hidehiko Mishou (Tokyo Denki Univ.) An overview of the theory of universality for zeta functions

September 26th (Fri) Conference Room II

9:30–11:50

- 21 Sin-Ei Takahasi (Toho Univ.)* The structure of ordered topological semigroups on the real space \mathbb{R} 15
Yuji Kobayashi (Toho Univ.)
Yasuo Nakasuji (Open Univ. of Japan)
Makoto Tsukada (Toho Univ.)
- 22 Shuhei Kamioka (Kyoto Univ.) Tilings of the Aztec diamonds and biorthogonal polynomials 15

- 23 Hiro-Fumi Yamada (Okayama Univ.) A partition identity and the character table of the symmetric groups
Hiroshi Mizukawa (Nat. Defense Acad. of Japan) 15
- 24 Akiyoshi Tsuchiya (Osaka Univ.) Ehrhart polynomials with negative coefficients 15
Akihiro Higashitani (Kyoto Univ.)
Takayuki Hibi (Osaka Univ.)
Koutarou Yoshida (Osaka Univ.)
- 25 Takayuki Hibi (Osaka Univ.) Facets of (0,1)-polytopes with squarefree initial ideals 15
Akihiro Higashitani (Kyoto Univ.)
- 26 Kazunori Matsuda (Rikkyo Univ.)* Reverse lexicographic Gröbner bases and strongly Koszul toric rings
Hidefumi Ohsugi (Kwansei Gakuin Univ.) 10
- 27 Tomohiro Okuma (Yamagata Univ.)* Good ideals and p_g -ideals for two-dimensional normal singularities ... 10
Kei-ichi Watanabe (Nihon Univ.)
Ken-ichi Yoshida (Nihon Univ.)
- 28 Futoshi Hayasaka (Hokkaido Univ. of Edu.)* A computation of Buchsbaum–Rim functions of two variables 10
- 29 Tadahito Harima (Niigata Univ.)* Completely \mathfrak{m} -full ideals and componentwise linear ideals 10
Junzo Watanabe (Tokai Univ.)

13:20–14:20 Talk Invited by Algebra Section

Masato Okado (Osaka City Univ.) Tetrahedron equation and quantum groups

September 27th (Sat) Conference Room II

9:30–11:25

- 30 Yugen Takegahara (Muroran Inst. of Tech.) 2-adic properties for the numbers of involutions in the alternating groups
..... 15
- 31 Yuki Kanakubo (Sophia Univ.)^b Cluster variables on double Bruhat cells and monomial realizations of
Toshiki Nakashima (Sophia Univ.) crystal bases 15
- 32 Toshiyuki Abe (Ehime Univ.) A commutant of a 4-cyclic permutation orbifold model of affine vertex
Hiromichi Yamada (Hitotsubashi Univ.) operator algebra of type A_1 10
- 33 Kenichiro Tanabe (Hokkaido Univ.) On modules with logarithmic terms over vertex algebras 15
- 34 Masahide Konishi (Nagoya Univ.) Basicization of KLR algebras 15
- 35 Ayako Itaba (Tokyo Univ. of Sci.) On the decomposition of the Hochschild cohomology group of a mono-
Takahiko Furuya (Meikai Univ.) mial algebra satisfying a separability condition 10
Katsunori Sanada (Tokyo Univ. of Sci.)
- 36 Tomohiro Itagaki (Tokyo Univ. of Sci.) On the cyclic homology of an algebra associated with a cyclic quiver
and a monic polynomial 10

11:30–12:00 Research Section Assembly**14:15–15:15 Talk Invited by Algebra Section**

Hiroyuki Minamoto (Osaka Pref. Univ.)^b Derived bi-duality and DG-completion

15:30–17:30

- 37 Hiroki Miyahara (Univ. of Yamanashi) A construction of Auslander-regular rings and its application 10
- 38 Mitsuo Hoshino (Univ. of Tsukuba) Group-graded and group-bigraded rings 15
 Noritsugu Kameyama (Shinshu Univ.)
 Hirotaka Koga (Tokyo Denki Univ.)
- 39 Kazutoshi Koike Self-duality of finite triangular extensions 10
 (Okinawa Nat. Coll. of Tech.)
- 40 Hirotaka Koga (Tokyo Denki Univ.) On standard derived equivalences 15
- 41 Satoshi Yamanaka (Okayama Univ.)^b On Morita equivalence in ring extensions 10
- 42 Ryo Kanda (Nagoya Univ.)^b Classification of categorical subspaces of locally noetherian schemes . . . 15
- 43 Shunsuke Tsuchioka (Univ. of Tokyo) On graded generalized Cartan invariants of the symmetric groups 15
 Anton Evseev (Univ. of Birmingham)
- 44 Taiki Shibata (Univ. of Tsukuba) On integrals for algebraic supergroups 10

September 28th (Sun) Conference Room II

9:15–12:00

- 45 Tomohiro Iwami * An analogue of Clemens–Griffiths components for certain three-dimensional
 (Kyushu Sangyo Univ.) log pairs in the weak sense and the associated rationality criterion . . . 10
- 46 Jo Suzuki (Osaka Univ.) Klein’s fundamental second kind 2-form for the C_{ab} curves 15
- 47 Yoshifumi Tsuchimoto (Kochi Univ.) Non commutative Kähler manifolds 15
- 48 Hiroki Ito (Nagoya Univ.) * On the classification of involutions on Enriques surfaces 15
 Hisanori Ohashi (Tokyo Univ. of Sci.)
- 49 Yuki Yamamoto (Kanazawa Univ.) Divisorial contractions to cDV points with discrepancy > 1 15
- 50 Hirokazu Nasu (Tokai Univ.) Obstructions to deforming space curves lying on a smooth quartic
 surface 15
- 51 Daizo Ishikawa (Waseda Univ.) Weak Fano bundles of rank 2 on cubic threefolds 15
- 52 Ryo Kawaguchi (Nara Medical Univ.) A characterization of toric Fano threefolds 15
- 53 Akihiro Higashitani (Kyoto Univ.) Equivalent classes for toric Fano 5-folds and higher dimensions 15

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

- Isamu Iwanari (Tohoku Univ.)^b Tannaka duality for higher categories
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Geometry

September 25th (Thu) Conference Room III

9:40–12:00

- 1 Hiroataka Ebisui (Oval Research Center) About theorem in an-Desargues-system (ADE Theorem) 15
- 2 Akitoshi Kawamura (Univ. of Tokyo) Weight balancing on boundaries and skeletons 15
Yoshio Okamoto
(Univ. of Electro-Comm.)
Takeshi Tokuyama (Tohoku Univ.)
- 3 Shuzo Izumi (Kinki Univ.) Sufficiency of simplex inequalities 10
- 4 Shiho Ogata (Fukuoka Univ.) Gap theorems of complete λ -hypersurfaces 10
- 5 Makoto Sakaki (Hirosaki Univ.)* Surfaces with mean curvature vector of constant length in product spaces 10
- 6 Hiroshi Iriyeh (Tokyo Denki Univ.)* On Hamiltonian stable Lagrangian tori which are not Hamiltonian
Hajime Ono (Saitama Univ.) volume minimizing 15
- 7 Norio Ejiri (Meijo Univ.) Limits of triply periodic minimal surfaces 15
Shoichi Fujimori (Okayama Univ.)
Toshihiro Shoda (Saga Univ.)
- 8 Naoyuki Koike (Tokyo Univ. of Sci.) A holonomy invariant anisotropic surface energy functional 15
- 9 Norihito Koiso (Osaka Univ.)* Bi-harmonic submanifold 15
Hajime Urakawa (Tohoku Univ.)

14:15–16:10

- 10 Yusuke Masatani (Nagoya Univ.) On unbounded diameter of the space of Lagrangian submanifolds in bi-disks 15
- 11 Mitsuhiro Imada (Keio Univ.) On complex almost contact metric structures on complex hypersurfaces of \mathbf{C}^{2n} 10
- 12 Isami Koga (Kyushu Univ.)* Classification of some submanifolds of the complex Grassmannian manifold 10
- 13 Sadahiro Maeda (Saga Univ.)* Naturally reductive homogeneous real hypersurfaces in a nonflat complex space form 15
Hiroshi Tamaru (Hiroshima Univ.)
- 14 Kazumi Tsukada (Ochanomizu Univ.) Totally complex submanifolds of a complex Grassmann manifold of 2-planes 15
- 15 Hiroshi Iriyeh (Tokyo Denki Univ.) On the structure of the intersection of quaternionic flag manifolds in a complex flag manifold 10
Takashi Sakai (Tokyo Metro. Univ.)
Hiroyuki Tasaki (Univ. of Tsukuba)
- 16 Hiroyuki Tasaki (Univ. of Tsukuba) Sequences and estimates of antipodal subsets 10
- 17 Kazuyoshi Kiyohara (Okayama Univ.)* The conjugate locus on ellipsoid and D_4^+ Lagrangean singularity 15
Jin-ichi Itoh (Kumamoto Univ.)

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

- Osamu Ikawa (Kyoto Inst. Tech.)* Foundations and applications of symmetric triads

September 26th (Fri) Conference Room III

10:30–10:45 Presentation Ceremony for MSJ Geometry Prize 2014**10:50–11:50 Award Lecture for MSJ Geometry Prize 2014**

—Celebrating Professor Masatake Kuranishi—

Ryushi Goto (Osaka Univ.) Kuranishi's masterpieces and their developments in deformation theory
Kimio Miyajima (Kagoshima Univ.*) and CR-geometry

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

Takumi Yokota (Kyoto Univ.) Convex functions and barycenter on CAT(1)-spaces of small radii

September 27th (Sat) Conference Room III

9:40–12:00

- 18 Kazuhiro Okumura (Asahikawa Nat. Coll. of Tech.) Real hypersurfaces admitting ϕ -invariant Ricci tensors in a nonflat complex space form 10
- 19 Dounnu Sasaki (Waseda Univ.) An intersection functional on the space of subset currents on a free group 15
- 20 Oliver Goertsches (Univ. Hamburg)
Hiraku Nozawa (Ritsumeikan Univ.)
 Dirk Töben (Fed. Univ. of São Carlos) On localization of Chern–Simons type invariants of Riemannian foliations 15
- 21 Tomoyo Kanazawa (Tokyo Univ. of Sci.)
 Akira Yoshioka (Tokyo Univ. of Sci.) An S^1 -reduction of non-formal star product 10
- 22 Daisuke Tarama (Kyoto Univ.) Stability analysis for the free rigid body dynamics on $U(n)$ 15
- 23 Masaya Kawamura (Tokyo Metro. Univ.) A priori estimates for the Monge–Ampère equation related to supersymmetry and Gauduchon conjecture 15
- 24 Yasushi Homma (Waseda Univ.) Twisted Dirac operators and generalized gradients 15
- 25 Kenta Tottori (Tohoku Univ.)* Calabi's gradient metric on the space of Kähler metrics 10
- 26 Shin Nayatani (Nagoya Univ.) Rumin–Bochner formular for 1-forms on a CR manifold 15

14:15–16:00

- 27 Ryosuke Takahashi (Nagoya Univ.) Modified Kähler–Ricci flow on projective bundles 15
- 28 Homare Tadano (Osaka Univ.) A lower diameter bound for closed domain manifolds of shrinking Ricci-harmonic solitons 15
- 29 Yohei Sakurai (Univ. of Tsukuba) Rigidity of manifolds with boundary under a lower Ricci curvature bound 15
- 30 Tsukasa Takeuchi (Tokyo Univ. of Sci.) Integrability in the geodesic flow for the Berger metric 10
- 31 Yu Kitabeppu (Kyoto Univ.)
Sajjad Lakzian (HCM) A finite generation of the fundamental groups on metric measure spaces with small linear diameter growth 10
- 32 Junichi Mukuno (Nagoya Univ.)* On the fundamental group of a complete globally hyperbolic Lorentzian manifold with a lower bound for the curvature tensor 10
- 33 Hideki Miyachi (Osaka Univ.)* Rigidity of a coarsification of isometries on Teichmüller space 15

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

Shin-ichi Oguni (Ehime Univ.)* The coarse Baum–Connes conjecture and coarse algebraic topology

Complex Analysis

September 25th (Thu) Conference Room I

9:00–12:00

- | | | | |
|----|--|---|----|
| 1 | Shigeyoshi Owa (Yamato Univ.)* | Notes on Carathéodory functions involving Möbius transformations .. | 15 |
| 2 | Masanori Amano (Tokyo Tech) | On the limit value of the Teichmüller distance between Jenkins–Strebel rays | 15 |
| 3 | Yoshihiko Shinomiya (Waseda Univ.) | On the numbers of periodic points on Veech surfaces | 15 |
| 4 | Masahiro Yanagishita (Waseda Univ.) | Weil–Petersson metric on square integrable Teichmüller spaces | 15 |
| 5 | Hiroshige Shiga (Tokyo Tech) | On rigidity and finiteness for Teichmüller curves | 15 |
| 6 | Hiroshige Shiga (Tokyo Tech) | Conformal invariants defined by harmonic functions on Riemann surfaces | 15 |
| 7 | Hiroshige Shiga (Tokyo Tech) | Deformation spaces of Kleinian groups | 10 |
| 8 | Ikkei Hotta (Tokyo Tech) | L^d -Loewner chains with quasiconformal extensions | 15 |
| 9 | R. Michael Porter (CINVESTAV) <u>Hirokazu Shimauchi</u> (Tohoku Univ.) | Discrete quasiconformal maps via a linear system | 15 |
| 10 | Hideki Miyachi (Osaka Univ.)* | A dynamical approach to the theory of infinitesimal spaces of quasiconformal mappings | 15 |
| 11 | <u>Masakazu Shiba</u> (Hiroshima Univ.)* Hiroshi Yamaguchi (Shiga Univ.)* | Conformal embeddings of an open Riemann surface into closed ones —Extremal property of period matrices— | 15 |

14:10–16:50

- | | | | |
|----|--|---|----|
| 12 | Yuuki Tadokoro (Kisarazu Nat. Coll. of Tech.) | The period matrix of the hyperelliptic curve $w^2 = z^{2g+1} - 1$ | 15 |
| 13 | Junghun Lee (Nagoya Univ.) | J -stability of immediately expanding polynomial maps in p -adic dynamics | 15 |
| 14 | Masashi Kisaka (Kyoto Univ.) | Transcendental entire function of slow growth with prescribed polynomial dynamics | 15 |
| 15 | Hiroyuki Inou (Kyoto Univ.) <u>Shizuo Nakane</u> (Tokyo Polytechnic Univ.) | An implosion arising from saddle connection in 2D complex dynamics | 15 |
| 16 | Sachiko Hamano (Fukushima Univ.) | Reproducing kernels for the spaces of holomorphic semiexact differentials on annuli | 15 |
| 17 | <u>Masanori Adachi</u> (Nagoya Univ.) Judith Brinkschulte (Univ. Leipzig) | A global estimate for the Diederich–Fornaess index of weakly pseudoconvex domains | 15 |

- 18 Satoru Shimizu (Tohoku Univ.)^b Holomorphic equivalence problem for a class of unbounded Reinhardt domains containing the origin 15
- 19 Hiroaki Aikawa (Hokkaido Univ.) Averaging property of capacity 15
Tsubasa Itoh (Tokyo Tech)
- 20 Takao Ohno (Oita Univ.)* Trudinger's exponential integrability for Riesz potentials of functions in generalized grand Morrey spaces 15
Yoshihiro Mizuta (Hiroshima Inst. of Tech.)
- 21 Takao Ohno (Oita Univ.)* Trudinger's inequality for Riesz potentials of functions in Musielak–Orlicz spaces 10
Tetsu Shimomura (Hiroshima Univ.)

17:00–18:00 Talk Invited by Complex Analysis Section

Yoshihiro Mizuta Function spaces of variable exponent and Sobolev's theorem
(Hiroshima Inst. of Tech.)

September 26th (Fri) Conference Room I

9:00–10:30

- 22 Yukinobu Adachi * On the Julia directions of the value distribution of nondegenerate transcendental holomorphic maps of \mathbf{C}^2 to \mathbf{C}^2 15
- 23 Yukinobu Adachi * On a high dimensional Riemann's removability theorem 15
- 24 Yukinobu Adachi * On a high dimensional Riemann's mapping theorem 10
- 25 Masataka Tomari (Nihon Univ.)* On maximal ideal cycle and fundamental cycle of normal two-dimensional singularities with star-shaped resolution, and graded singularities 15
Tadashi Tomaru (Gunma Univ.)
- 26 Tatsuhiro Honda Growth and distortion theorems for pluriharmonic mappings 15
(Hiroshima Inst. of Tech.)
Hidetaka Hamada (Kyushu Sangyo Univ.)
Gabriela Kohr (Babeş-Bolyai Univ.)
- 27 Tatsuhiro Honda Strongly starlike mappings in several complex variables 10
(Hiroshima Inst. of Tech.)
Hidetaka Hamada (Kyushu Sangyo Univ.)
Gabriela Kohr (Babeş-Bolyai Univ.)
Kwang Ho Shon (Pusan Nat. Univ.)

13:20–14:20 Talk Invited by Complex Analysis Section

Yukitaka Abe (Univ. of Toyama)* Analytic study of singular curves

Functional Equations

September 25th (Thu) Conference Room V

9:00–12:00

- | | | | |
|----|--|--|----|
| 1 | Hiroshi Ogawara (Kumamoto Univ.) | Differential transcendency of a formal Laurent series satisfying a rational linear q -difference equation | 10 |
| 2 | Junya Nishiguchi (Kyoto Univ.) | Stabilization of unstable steady solutions by delayed feedback control: Approach by Lambert W function | 10 |
| 3 | Kazuki Hiroe (Josai Univ.) | Local Fourier transform and blowing up | 10 |
| 4 | Kohei Iwaki (Kyoto Univ.) | On WKB theoretic transformations for Painlevé transcendents on degenerate Stokes segments | 10 |
| 5 | Hiroshi Yamazawa (Shibaura Inst. of Tech.) | Existence of holomorphic and singular solutions of q -analogue of Briot–Bouquet type difference-differential equations | 10 |
| 6 | Hiroshi Yamazawa (Shibaura Inst. of Tech.) Hidetoshi Tahara (Sophia Univ.) | q -Analogue of summability of formal solutions of some linear q -difference-differential equations | 10 |
| 7 | Tetsutaro Shibata (Hiroshima Univ.)* | Asymptotic behavior of the bifurcation diagrams for semilinear problems with cubic-like nonlinearity | 10 |
| 8 | Tatsuki Mori (Ryukoku Univ.) Kousuke Kuto (Univ. of Electro-Comm.) Tohru Tsujikawa (Univ. of Miyazaki) Shoji Yotsutani (Ryukoku Univ.) | Global bifurcation structure of stationary solutions to a cell polarization model | 10 |
| 9 | Takasi Yamasaki (Shimane Univ.) Jitsuro Sugie (Shimane Univ.) | Smith-type criterion for the asymptotic stability based on the weighted damping | 10 |
| 10 | Mitsuru Shibayama (Osaka Univ.) | Variational proof of the existence of the super-eight solution in the four-body problem | 10 |
| 11 | Tomoyuki Tanigawa (Kumamoto Univ.) | Asymptotic behavior of positive solutions of third order Emden–Fowler differential equations | 10 |
| 12 | Hiroyuki Usami (Gifu Univ.)* | Applications of ordinary differential equations to hyperbolic equations | 10 |
| 13 | Hiroyuki Usami (Gifu Univ.) ^b Yutaka Kamimura (Tokyo Univ. of Marine Sci. and Tech.) | Global solution of an inverse blow-up problem | 10 |
| 14 | Shingo Takeuchi (Shibaura Inst. of Tech.) | Complete p -elliptic integrals and computation of π_3 | 10 |
| 15 | Katsuyuki Nishimoto (Descartes Press Co.) | * The solutions to the Laplace’s homogeneous ordinary differential equations by means of the N-fractional calculus | 4 |

14:15–16:15

- 16 Ichiro Tsukamoto (Toyo Univ.) * On an asymptotic expression of a positive solution of $x'' = t^{\alpha\lambda-2}x^{1+\alpha}$ ($\alpha = \lambda_0, \lambda > 0$) 10
- 17 Tokinaga Namba (Univ. of Tokyo) On cell problems for Hamilton–Jacobi equations with non-coercive
Atsushi Nakayasu (Univ. of Tokyo) Hamiltonians and its application to homogenization problems 10
Nao Hamamuki (Waseda Univ.)
- 18 Haruya Mizutani (Osaka Univ.) Strichartz estimates for non-elliptic Schrödinger equations 10
Nikolay Tzvetkov
(Univ. Cergy-Pontoise)
- 19 Takuya Suzuki (Univ. of Tokyo) Analyticity of semigroups generated by higher order elliptic operators
in spaces of bounded functions on C^1 domains 10
- 20 Takanobu Hara (Tokyo Metro. Univ.) Potential estimates for elliptic equations with drift terms 10
- 21 Nobuyuki Kato (Nippon Inst. of Tech.) * Uniform Hölder continuity of approximate solutions to parabolic systems 10
- 22 Tatsuki Kawakami (Osaka Pref. Univ.) * When does the heat equation have a solution with a sequence of similar
Shigeru Sakaguchi (Tohoku Univ.) level sets? 10
- 23 Takayoshi Ogawa (Tohoku Univ.) * Maximal L^1 -regularity for a Cauchy problem to parabolic equations
Senjo Shimizu (Shizuoka Univ.) 10
- 24 Shuichi Jimbo (Hokkaido Univ.) * Eigenvalues of 2nd order elliptic operators in a domain with a thin
tubular hole 10

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

- Naoki Sioji (Yokohama Nat. Univ.) A generalized Pohozaev identity and uniqueness of positive radial solutions for an elliptic equation

September 26th (Fri) Conference Room V

9:00–12:00

- 25 Motohiro Sobajima (Univ. of Salento) Weighted Calderón–Zygmund and Rellich inequalities 10
Giorgio Metafuno (Univ. of Salento)
Chiara Spina (Univ. of Salento)
- 26 Yoshifumi Mimura (Tohoku Univ.) A priori bounds of stationary solutions of two dimensional Keller–Segel
system on polygonal domains 10
- 27 Norisuke Ioku (Ehime Univ.) Existence, non-existence, and unconditional uniqueness for a heat equation
Bernhard Ruf (Univ. di Milano) with exponential nonlinearity in \mathbb{R}^2 10
Elide Terraneo (Univ. di Milano)
- 28 Shoichi Hasegawa (Tohoku Univ.) Liouville theorem for Hénon type equation on the hyperbolic space
. 10
- 29 Aya Ishizeki (Saitama Univ.) * Variational formulae of decomposed Möbius energy and estimates 10
Takeyuki Nagasawa (Saitama Univ.)
- 30 Kousuke Kuto Limiting structure of shrinking solutions to the stationary SKT model
(Univ. of Electro-Comm.) with large cross-diffusion 10
- 31 Yasuhito Miyamoto (Univ. of Tokyo) Intersection properties of radial solutions and global bifurcation diagrams for supercritical quasilinear elliptic equations 10

- 32 Mieko Tanaka (Tokyo Univ. of Sci.) * Generalized eigenvalue problem for (p, q) -Laplacian with indefinite weight
Dumitru Motreanu (Univ. de Perpignan) 10
- 33 Mieko Tanaka (Tokyo Univ. of Sci.) * Bifurcation of positive solutions for the one dimensional (p, q) -Laplace
Ryuji Kajikiya (Saga Univ.) equation 10
Satoshi Tanaka (Okayama Univ. of Sci.)
- 34 Daisuke Naimen (Osaka City Univ.) On the multiple solutions of a nonlinear elliptic problem with the
Dirichlet energy 10
- 35 Masato Hashizume (Osaka City Univ.) A minimization problem with a sign changing condition 10
- 36 Yasuhiro Fujita (Univ. of Toyama) * Log-Sobolev inequality for locally Lipschitz continuous functions 10
- 37 Atsushi Kosaka (Osaka City Univ.) Asymptotic behavior of eigenvalues to the Laplace–Beltrami operator
Yoshitsugu Kabeya (Osaka Pref. Univ.) on a spherical cap in \mathbb{S}^N 10
Tatsuki Kawakami (Osaka Pref. Univ.)
Hirokazu Ninomiya (Meiji Univ.)
- 38 Soohyun Bae (Hanbat Nat. Univ.) Critical phenomena in the separation property for semilinear elliptic
Yūki Naito (Ehime Univ.) equations 10
- 39 Futoshi Takahashi (Osaka City Univ.) On the location of two blow up points on an annulus for the mean field
Massimo Grossi (Univ. di Roma “La Sapienza”) equation 10

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

- Hideo Nakazawa (Nippon Medical School) ^b Scattering problems for wave equations with dissipation and related topics

September 27th (Sat) Conference Room V

9:00–12:00

- 40 Hiro Yoshi Mitake (Hiroshima Univ.) * Analysis on the large-time behavior by the nonlinear adjoint method:
Hung V. Tran (Univ. of Chicago) obstacle problems 10
- 41 Hiro Yoshi Mitake (Hiroshima Univ.) * Weakly coupled systems of the infinity Laplace equations: existence,
Hung V. Tran (Univ. of Chicago) uniqueness, comparison with generalized cones 10
- 42 Masashi Aiki (Tokyo Univ. of Sci.) Motion of a vortex filament in an external flow 10
Tatsuo Iguchi (Keio Univ.)
- 43 Okiihiro Sawada (Gifu Univ.) * On the shear flows of the Euler equations 10
- 44 Tsuyoshi Yoneda (Tokyo Tech) Local ill-posedness of the Euler equations in $B_{\infty,1}^1$ 10
Gerard Misiolek (Univ. of Notre Dame)
- 45 Erika Ushikoshi (Tamagawa Univ.) * Hadamard variational formula for the eigenvalue of the Stokes equations
Shuichi Jimbo (Hokkaido Univ.) with the Dirichlet boundary conditions 10
- 46 Ken Abe (Nagoya Univ.) * On estimates for the Stokes flow in a space of bounded functions 10
- 47 Senjo Shimizu (Shizuoka Univ.) On local well-posedness of incompressible two-phase flows with phase
Shintaro Yagi (Shizuoka Univ.) transitions 10
- 48 Hirokazu Saito (Waseda Univ.) Global well-posedness of a free boundary problem for the Navier–Stokes
Yoshihiro Shibata (Waseda Univ.) equations in the L_p - L_q framework 10

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|--------------------|---|--|----|
| 49 | <u>Takayuki Kubo</u> (Univ. of Tsukuba) Yoshihiro Shibata (Waseda Univ.) | Maximal L_p - L_q regularity of the compressible-incompressible two phase problem, without surface tension and phase transition case | 10 |
| 50 | <u>Takayuki Kubo</u> (Univ. of Tsukuba) Yoshihiro Shibata (Waseda Univ.) | Local and global well-posedness of the compressible-incompressible two phase problem, without surface tension and phase transition case | 10 |
| 51 | <u>Miho Murata</u> (Waseda Univ.) Yoshihiro Shibata (Waseda Univ.) | On the global well-posedness for a compressible viscous fluid flow | 10 |
| 52 | Yasunori Maekawa (Tohoku Univ.) | Large time asymptotics for two-dimensional exterior flows with small circulation at infinity | 10 |
| 53 | <u>Toshiaki Hishida</u> (Nagoya Univ.) ^b Maria Schonbek (Univ. California, Santa Cruz) | Stability of time-dependent Navier–Stokes flow and algebraic energy decay | 10 |
| 14:15–16:15 | | | |
| 54 | Itsuko Hashimoto (Toyama Nat. Coll. of Tech.) | Asymptotic stability of rarefaction wave of radially symmetric solutions for Burgers equation in several space dimensions | 10 |
| 55 | <u>Shouta Enomoto</u> (Kyushu Univ.) Yoshiyuki Kagei (Kyushu Univ.) | On linearized stability of stationary solutions to the compressible Navier–Stokes equation in a periodic layer | 10 |
| 56 | <u>Naofumi Mori</u> (Kyushu Univ.) Shuichi Kawashima (Kyushu Univ.) | Decay property for the Timoshenko system with thermal effects: Cattaneo versus Fourier’s law | 10 |
| 57 | Naofumi Mori (Kyushu Univ.) | Global existence and energy decay of solutions of the nonlinear Timoshenko system with memory | 10 |
| 58 | <u>Kentarou Fujie</u> (Tokyo Univ. of Sci.) Michael Winkler (Univ. Paderborn) Tomomi Yokota (Tokyo Univ. of Sci.) | Blow-up prevention by logistic sources in a parabolic-elliptic Keller–Segel system with singular sensitivity | 10 |
| 59 | Kentarou Fujie (Tokyo Univ. of Sci.) | Boundedness in a fully parabolic chemotaxis system with singular sensitivity | 10 |
| 60 | Sachiko Ishida (Tokyo Univ. of Sci.) | Global existence for a 2D quasilinear chemotaxis-Navier–Stokes system with rotation | 10 |
| 61 | Masanari Miura (Kyushu Univ.) <u>Yoshie Sugiyama</u> (Kyushu Univ.) | On uniqueness theorem on weak solutions to the parabolic-parabolic Keller–Segel system of degenerate and singular types | 10 |
| 62 | Noriko Mizoguchi (Tokyo Gakugei Univ.) | A new proof to finite-time blowup in the parabolic-parabolic Keller–Segel system | 10 |
| 63 | <u>Noriko Mizoguchi</u> (Tokyo Gakugei Univ.) Philippe Laurençot (Univ. de Toulouse/CNRS) | Finite-time blowup for the parabolic-parabolic Keller–Segel system with critical diffusion | 10 |

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

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|-------------------------------|---|
| Kotaro Tsugawa (Nagoya Univ.) | Local well-posedness for fifth-order nonlinear dispersive equations |
|-------------------------------|---|

September 28th (Sun) Conference Room V

9:00–12:00

| | | | |
|----|--|---|----|
| 64 | <u>Takashi Kagaya</u> (Hokkaido Univ.) | A local existence on a free boundary problem for quasilinear parabolic equation | 10 |
|----|--|---|----|

- 65 Kurumi Hiruko (Tohoku Univ.) A dynamical aspect of hybrid system describing intermittent androgen suppression therapy of prostate cancer 10
- 66 Motohiro Sobajima (Univ. of Salento) Existence of solutions to heat equations with singular lower order terms
Noboru Okazawa (Tokyo Univ. of Sci.) 10
Tomomi Yokota (Tokyo Univ. of Sci.)
- 67 Junichi Harada (Akita Univ.)* Blow-up set for a parabolic system equation 8
- 68 Tomoro Asai (Univ. of Tokyo)* On self-similar solutions to the surface diffusion flow equations with
Yoshikazu Giga (Univ. of Tokyo) contact angle boundary conditions 10
- 69 Masashi Mizuno (Nihon Univ.)* A singular limit problem of the Allen–Cahn equation with Neumann
Yoshihiro Tonegawa (Hokkaido Univ.) boundary conditions 10
- 70 Keisuke Matsuya (Univ. of Tokyo)^b Existence of blow-up solutions for a discrete semilinear heat equation
Tetsuji Tokihiro (Univ. of Tokyo) 10
- 71 Hiroshi Matsuzawa (Numazu Nat. Coll. of Tech.)* Spreading speed and sharp asymptotic profiles of solutions in free
Yihong Du (Univ. of New England) boundary problems for nonlinear diffusion equations 10
Maolin Zhou (Univ. of Tokyo)
- 72 Jin Takahashi (Tokyo Tech) Solutions with time-dependent singularities for a semilinear heat equa-
Eiji Yanagida (Tokyo Tech) tion with absorption 10
- 73 Masakazu Yamamoto (Hiroasaki Univ.) Asymptotic expansion of solutions to the drift-diffusion equation with
Yuusuke Sugiyama (Tokyo Univ. of Sci.) critical dissipation 10
Keiichi Kato (Tokyo Univ. of Sci.)
- 74 Kazushige Nakagawa (Fukushima Univ.)* Global behavior of solutions to degenerate drift diffusion system in
Takayoshi Ogawa (Tohoku Univ.) between two critical exponents 10
Atsushi Kimijima (Tohoku Univ.)
- 75 Masaki Kurokiba (Muroran Inst. of Tech.)^b Two dimensional drift-diffusion system in a critical weighted space ... 10
- 76 Masaharu Taniguchi (Okayama Univ.) Convex compact sets in \mathbb{R}^{N-1} give traveling fronts of cooperation-
diffusion systems in \mathbb{R}^N 10
- 77 Takashi Suzuki (Osaka Univ.)^b Compactness of 2D normalized Ricci flow orbit —an analytic proof of
Hamilton’s theorem— 10
- 14:15–16:15**
- 78 Mamoru Okamoto (Shinshu Univ.) Remarks on ill-posedness of the Cauchy problem for the Chern–Simons–
Shuji Machihara (Saitama Univ.) Dirac system in one dimension 10
- 79 Nobu Kishimoto (Kyoto Univ.) Normal form reduction for the unconditional uniqueness of periodic
nonlinear dispersive equations 10
- 80 Hironobu Sasaki (Chiba Univ.)* Remark on the scattering operator for the cubic nonlinear Dirac equa-
tion in three space dimensions 10
- 81 Takahisa Inui (Kyoto Univ.) Remark on the lifespan of solutions and non-existence of local solution
Masahiro Ikeda (Kyoto Univ.) for a nonlinear Schrödinger equation 10
- 82 Kota Uriya (Tohoku Univ.)* Final state problem for a system of nonlinear Schrödinger equations
with three wave interaction 10

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|----|---|--|----|
| 83 | Makoto Nakamura (Yamagata Univ.)* | On the Cauchy problem for nonlinear Schrödinger equations in de Sitter spacetime | 10 |
| 84 | Yuta Wakasugi (Osaka Univ.)* Kenji Nishihara (Waseda Univ.) | Critical exponent for the Cauchy problem to the weakly coupled damped wave system | 10 |
| 85 | Hironari Miyoshi (Waseda Univ.) Masayoshi Tsutsumi (Waseda Univ.) | Convergence of hydrodynamical limits for generalized Carleman models | 10 |
| 86 | Kyouhei Wakasa (Hokkaido Univ.)* | The lifespan of solutions to nonlinear wave equations with weighted functions in 1D | 10 |
| 87 | Koichi Taniguchi (Chuo Univ.)* Tsukasa Iwabuchi (Chuo Univ.) Tokio Matsuyama (Chuo Univ.) | Scattering problem for semilinear wave equation with a potential in an exterior domain | 10 |

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

Shinya Okabe (Tohoku Univ.)^b A fourth order parabolic obstacle problem

Real Analysis

September 27th (Sat) Conference Room I

9:00–11:45

| | | | |
|----|--|---|----|
| 1 | Toshikazu Watanabe (Nihon Univ.) Masashi Toyoda (Tamagawa Univ.) | On fixed point theorems for generalized contractive type mappings in partially ordered sets | 15 |
| 2 | Yasunori Kimura (Toho Univ.) | Approximation of a common fixed point of mappings on a complete geodesic space | 15 |
| 3 | Shin-ya Matsushita (Akita Pref. Univ.) Li Xu (Akita Pref. Univ.) | On Douglas–Rachford method | 15 |
| 4 | Sachiko Atsushiba (Univ. of Yamanashi) | Convergence theorems for nonlinear mappings by Halpern’s type iterations | 15 |
| 5 | Mikio Kato (Kyushu Inst. of Tech.)* Takayuki Tamura (Chiba Univ.) | On the uniform non- ℓ_1^n -ness of direct sums of Banach spaces | 15 |
| 6 | Kiyohisa Tokunaga (Fukuoka Inst. of Tech.) | Proof of integral by parts based on the definition of Riemann integral | 15 |
| 7 | Jun Kawabe (Shinshu Univ.) | Bounded convergence theorem for distribution-based nonlinear integral functionals | 15 |
| 8 | Shinya Moritoh (Nara Women’s Univ.) | Ostrowski’s inequality and its discretization | 10 |
| 9 | Yoshifumi Ito (Univ. of Tokushima)* ^b | Laws of natural statistical physics | 15 |
| 10 | Yoshifumi Ito (Univ. of Tokushima)* | Concept of natural probability | 15 |

12:10–12:30 Presentation Ceremony for MSJ Analysis Prizes 2014**14:15–16:20**

- 11 Hiroki Saito (Saitama Univ.) Makeya maximal operator (no dilation) with radial weights on the plane
 15
- 12 Takeshi Iida (Fukushima Nat. Coll. of Tech.) Weighted estimates of higher order commutators generated by *BMO*-functions and the fractional integral operator on Morrey spaces 15
- 13 Satoko Sugano (Kobe City Coll. of Tech.) * On a Calderón–Zygmund operator of higher order Schrödinger type
 15
- 14 Katsuo Matsuoka (Nihon Univ.) On the generalization of fractional integrals and λ -CMO spaces 10
- 15 Yoshihiro Sawano (Tokyo Metro. Univ.)^b Atomic decomposition for Morrey spaces 15
 Takeshi Iida (Fukushima Nat. Coll. of Tech.)
 Hitoshi Tanaka (Univ. of Tokyo)
- 16 Yoshihiro Sawano (Tokyo Metro. Univ.)^b Wavelet characterization and modular inequalities for weighted Lebesgue
 spaces with variable exponent 15
 Mitsuo Izuki (Okayama Univ.)
 Eiichi Nakai (Ibaraki Univ.)
- 17 Fumi-Yuki Maeda (Hiroshima Univ.)* * Sobolev and Trudinger type inequalities for potentials of functions in
 grand Musielak–Orlicz–Morrey spaces 15
 Yoshihiro Mizuta (Hiroshima Inst. of Tech.)
 Takao Ohno (Oita Univ.)
 Tetsu Shimomura (Hiroshima Univ.)
- 18 Fumi-Yuki Maeda (Hiroshima Univ.)* * Growth properties of Musielak–Orlicz integral means for Riesz poten-
 tials 15
 Yoshihiro Mizuta (Hiroshima Inst. of Tech.)
 Tetsu Shimomura (Hiroshima Univ.)

16:40–17:40 Talk Invited by Real Analysis Section

- Kenichi Mitani (Okayama Pref. Univ.) On geometrical constants of Banach spaces

September 28th (Sun) Conference Room I

9:00–11:50

- 19 Akio Ito (Kinki Univ.) Optimal control problems for mathematical model for the process of
 Nobuyuki Kenmochi (Bukkyo Univ.) brewing Japanese Sake with unknown terminal time 15
 Yusuke Murase (Meijo Univ.)
- 20 Kentarou Fujie (Tokyo Univ. of Sci.) Global existence and asymptotic behavior of solutions to a model for
 Akio Ito (Kinki Univ.) tumor invasion 15
 Michael Winkler (Univ. Paderborn)
 Tomomi Yokota (Tokyo Univ. of Sci.)
- 21 Tomomi Yokota (Tokyo Univ. of Sci.) Operator-theoretic approach to a quasilinear nondegenerate parabolic-
 Noriaki Yoshino (Tokyo Univ. of Sci.) elliptic Keller–Segel system with growth term 15
- 22 Shoji Shimizu (Waseda Univ.) The solvability of complex Ginzburg–Landau equation focusing on
 Mitsuharu Ôtani (Waseda Univ.) parabolicity 15
- 23 Shun Uchida (Waseda Univ.) Global attractor of some autonomous double-diffusive convection system
 Mitsuharu Ôtani (Waseda Univ.) 15

- 24 Yutaka Tsuzuki (Tokyo Univ. of Sci.) Solvability of heat equations with hysteresis coupled with Navier–Stokes equations in 2D domains 15
- 25 Goro Akagi (Kobe Univ.) Doubly nonlinear evolution equations in variable exponent Lebesgue spaces 15
Giulio Schimperna (Univ. di Pavia)
- 26 Toshitaka Matsumoto Abstract Cauchy problem for weakly continuous operators 15
(Hiroshima Univ.)
Naoki Tanaka (Shizuoka Univ.)
- 27 Dai Noboriguchi (Waseda Univ.) An existence theorem for a nonhomogeneous Dirichlet problem for a stochastic scalar conservation law 15
Kazuo Kobayasi (Waseda Univ.)
- 28 Motohiro Sobajima (Univ. of Salento) L^p -theory for second-order elliptic operators with unbounded coefficients in an endpoint class 15
- 14:15–15:40**
- 29 Hiroshi Watanabe (Salesian Polytech.) Large time behavior for mathematical models of grain boundary motions involving isothermal solidifications 15
Ken Shirakawa (Chiba Univ.)
- 30 Ken Shirakawa (Chiba Univ.) Energy-dissipative solutions to models of grain boundary motions under isothermal solidifications 15
Hiroshi Watanabe (Salesian Polytech.)
- 31 Noriaki Yamazaki (Kanagawa Univ.) Singular limit of Allen–Cahn equation with constraints and its Lagrange multiplier 15
Takeshi Fukao (Kyoto Univ. of Edu.)
Mohammad Hassan Farshbaf-Shaker (WIAS)
- 32 Takeshi Fukao (Kyoto Univ. of Edu.) Cahn–Hilliard equation (with dynamic boundary conditions and mass constraints on the boundary) 15
Pierluigi Colli (Univ. di Pavia)
- 33 Toyohiko Aiki (Japan Women’s Univ.) Large time behavior of a solution to the free boundary problem describing adsorption phenomena 15
Yusuke Murase (Meijo Univ.)
- 16:00–17:00 Talk Invited by Real Analysis Section**
Kentarou Yoshii (Tokyo Univ. of Sci.) On the hyperbolic type linear evolution equations

Functional Analysis

September 25th (Thu) Conference Room IV

14:15–16:35

- 1 Hiroaki Niikuni * Spectral band structure of periodic Schrödinger operators on generalized degenerate zigzag nanotubes 15
(Maebashi Inst. of Tech.)
- 2 Hironobu Sasaki (Chiba Univ.) Spectral analysis for mean-field Schrödinger operators 10
Shoji Shimizu (Tokyo Tech)
Akito Suzuki (Shinshu Univ.)
- 3 Shougo Ito (Shinshu Univ.) The spectrum of a discrete Schrödinger operator with a non-decaying potential 15
Akito Suzuki (Shinshu Univ.)

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|---|--|---|----|
| 4 | Hiroshi Ito (Ehime Univ.) | The nonrelativistic limit for Dirac operators with a potential diverging at infinity | 15 |
| 5 | Mitsuteru Kadowaki (Ehime Univ.) Hiroshi Isozaki (Univ. of Tsukuba) Michiyuki Watanabe (Niigata Univ.) | Asymptotic behavior in far field of the resolvent for wave propagation in two-layered media | 15 |
| 6 | Shinichiro Futakuchi (Hokkaido Univ.) Kouta Usui (Hokkaido Univ.) | Time-ordered exponential on the complex plane for unbounded operators and Gell-Mann–Low formula | 10 |
| 7 | Daiju Funakawa (Hokkaido Univ.) | Existence of ground states for a Wess–Zumino model | 10 |
| 8 | Takahiro Hasebe (Hokkaido Univ.) Franz Lehner (Graz Univ. of Tech.) | Cumulants for free Lie algebras and Campbell–Hausdorff formula | 15 |
| 9 | Kenjiro Yanagi (Yamaguchi Univ.) | Uncertainty relations for non-hermitian type | 15 |

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

Tetsu Mizumachi (Kyushu Univ.) Stability of line solitons for the KP-II equation

September 26th (Fri) Conference Room IV

10:00–11:50

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|----|-----------------------------------|--|----|
| 10 | Ryo Tabata (Hiroshima Univ.) | The behavior of $n \times n$ Immanants as $n \rightarrow \infty$ | 15 |
| 11 | Hideto Nakashima (Kyushu Univ.) | Explicit formula of the basic relative invariants of homogeneous cones | 15 |
| 12 | Toshihiko Matsuki (Ryukoku Univ.) | Classification of orthogonal multiple flag varieties of finite type | 15 |
| 13 | Toshihiko Matsuki (Ryukoku Univ.) | Orbits on orthogonal triple flag varieties | 15 |
| 14 | Atsumu Sasaki (Tokai Univ.) | A Cartan decomposition for Cayley type homogeneous spaces | 15 |
| 15 | Hideyuki Ishi (Nagoya Univ.)* | Siegel type integral on a regular convex cone | 15 |

13:10–14:10 Talk Invited by Functional Analysis Section

Hiroshi Oda (Takushoku Univ.) Connections between representation theories for real reductive Lie groups and graded Hecke algebras

September 27th (Sat) Conference Room IV

9:00–12:00

| | | | |
|----|--|---|----|
| 16 | Hiromichi Miyake | On compactness in L^1 | 15 |
| 17 | Kazuyuki Wada (Hokkaido Univ.) | Existence of a ground state for a self-interaction model of a complex scalar field with spacial cut-off | 15 |
| 18 | Kei Ji Izuchi (Niigata Univ.)* Shūichi Ohno (Nippon Inst. of Tech.) | Topological structure of the space of weighted composition operators between different Hardy spaces | 15 |
| 19 | Shūichi Ohno (Nippon Inst. of Tech.)* | Composition operators related to the Dirichlet space | 10 |
| 20 | Kouhei Izuchi (Yamaguchi Univ.) | Ranks of backward shift invariant subspaces of Hardy space over the bidisk | 15 |

- 21 Yasuyuki Oka (Kushiro Nat. Coll. of Tech.) A characterization of the tempered distributions supported by a regular closed set on the Heisenberg group 15
- 22 Shigeru Furuichi (Nihon Univ.) On bounds for relative operator entropies 10
- 23 Junichi Fujii (Osaka Kyoiku Univ.) On basic operator entropies 15
- 24 Yuki Seo (Osaka Kyoiku Univ.) Matrix power means due to Lawson–Lim–Pálfia for $1 < t < 2$ 10
- 25 Hiroaki Tohyama (Maebashi Inst. of Tech.) Operator valued α -divergence and noncommutative ratio 15
 Hiroshi Isa (Maebashi Inst. of Tech.)
 Masatoshi Ito (Maebashi Inst. of Tech.)
 Eizaburo Kamei
 Masayuki Watanabe (Maebashi Inst. of Tech.)
- 26 Masaru Nagisa (Chiba Univ.) Characterization of diagonality of operators 10
 Albania Nugraha Imam (Chiba Univ.)
- 14:15–16:45**
- 27 Kengo Matsumoto (Joetsu Univ. of Edu.) * Continuous orbit equivalence of topological Markov shifts and dynamical zeta functions 15
 Hiroki Matui (Chiba Univ.)
- 28 Yasushi Nagai (Keio Univ.) Distribution of patches in tilings and properties of spectrum of the corresponding dynamical systems 15
- 29 Takuya Takeishi (Univ. of Tokyo)^b Bost–Connes system for local fields of characteristic zero 15
- 30 Yuhei Suzuki (Univ. of Tokyo) Amenable minimal Cantor systems of free groups arising from diagonal actions 15
- 31 Hiroyuki Osaka (Ritsumeikan Univ.) The Jiang–Su absorption for inclusions of unital C^* -algebras 15
 Tamotsu Teruya (Gunma Univ.)
- 32 Yasuo Watatani (Kyushu Univ.) Maximal abelian subalgebras of C^* -algebras generated by complex dynamical systems and continuous orbit equivalence 15
 Tsuyoshi Kajiwara (Okayama Univ.)
- 33 Yasuo Watatani (Kyushu Univ.) Relative position of three subspaces in a Hilbert space and Brenner type decomposition 15
 Masatoshi Enomoto
- 34 Rui Okayasu (Osaka Kyoiku Univ.) Haagerup approximation property and positive cones associated with a von Neumann algebra 15
 Reiji Tomatsu (Hokkaido Univ.)
- 17:00–18:00 Talk Invited by Functional Analysis Section**
- Yasuhiko Sato (Kyoto Univ.)^b Classification theorem of C^* -algebras and the Toms–Winter conjecture
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Statistics and Probability

September 25th (Thu) Conference Room VII

9:30–11:50

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|----|--|--|----|
| 1 | <u>Takahiro Hasebe</u> (Hokkaido Univ.) Steen Thorbjørnsen (Univ. of Aarhus) | Unimodality of freely selfdecomposable distributions | 15 |
| 2 | Isamu Dôku (Saitama Univ.) | Construction of probabilistic solutions to a class of deterministic integral equations | 15 |
| 3 | Keita Owari (Univ. of Tokyo) | On the Lebesgue property of monotone convex functions on Orlicz-like spaces | 15 |
| 4 | Go Yuki (Ritsumeikan Univ./JST CREST) | Consistency of the positive semi-definite Fourier type estimators | 10 |
| 5 | Shigeyoshi Ogawa (Ritsumeikan Univ.) | A direct inversion formula for natural SFT | 10 |
| 6 | Hiroya Hashimoto (Sanwa Kagaku Kenkyusho Co.) <u>Takahiro Tsuchiya</u> (Univ. of Aizu) | * A note on convergence rates for stability problems of SDEs under Nakao–Le Gall condition | 15 |
| 7 | <u>Hideki Tanemura</u> (Chiba Univ.) Hirofumi Osada (Kyushu Univ.) | Infinite-dimensional stochastic differential equations arising from Airy random point fields | 10 |
| 8 | <u>Hideki Tanemura</u> (Chiba Univ.) Hirofumi Osada (Kyushu Univ.) | Strong solutions of infinite-dimensional stochastic differential equations and tail σ -fields | 10 |
| 9 | Takafumi Amaba (Ritsumeikan Univ.) | An integration by parts on space of loops | 10 |
| 10 | <u>Kouji Yano</u> (Kyoto Univ.) Yuko Yano (Kyoto Sangyo Univ.) | Renormalized zero resolvents for one-dimensional diffusions | 15 |

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

Atsushi Takeuchi (Osaka City Univ.) Integration by parts formula for jump processes

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

Hiroki Takahashi (Keio Univ.)* On the destruction of Smale’s horseshoe in the Henon map (and what comes afterwards)

September 26th (Fri) Conference Room VII

9:30–11:30

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| 11 | <u>Masahiro Kobayashi</u> (Tokyo Univ. of Sci.) Hiroshi Shimizu (Nihon Unisys) Masakiyo Miyazawa (Tokyo Univ. of Sci.) | Structure-reversibility of a two dimensional reflecting random walk | 15 |
| 12 | Izumi Okada (Tokyo Tech) | The inner boundary of random walk range | 15 |
| 13 | <u>Naotaka Kajino</u> (Kobe Univ.) Janna Lierl (Univ. Illinois UC) | Neumann heat kernel estimates on inner uniform domains in point-recurrent strongly local symmetric Dirichlet spaces | 15 |

- 14 Christoph Aistleitner* (Graz Univ. of Tech.) * The law of the iterated logarithm for lacunary series with bounded gaps II 5
 Katusi Fukuyama (Kobe Univ.)
- 15 Masato Takei (Yokohama Nat. Univ.) On crossing probabilities for Ising percolation on the triangular lattice 10
- 16 Seiichiro Kusuoka (Tohoku Univ.) Recurrence and transience properties of multi-dimensional diffusion
 Hiroshi Takahashi (Nihon Univ.) processes in semi-selfsimilar random environments 15
 Yozo Tamura (Keio Univ.)
- 17 Makoto Nakashima (Univ. of Tsukuba) On the estimates of the free energy of directed polymers in random environment in 1+2 dimension at high temperature 15
- 18 Takeyuki Sasai (Univ. of Tokyo) A game-theoretic proof of Erdős–Feller–Kolmogorov–Petrowsky law of
 Kenshi Miyabe (Meiji Univ.) the iterated logarithm for fair coin tossing 15
 Akimichi Takemura (Univ. of Tokyo)

11:45–12:15 Research Section Assembly

September 27th (Sat) Conference Room VII

9:30–12:00

- 19 Satoshi Suzuki (Shimane Univ.) Surrogate duality and its constraint qualifications 15
 Daishi Kuroiwa (Shimane Univ.)
- 20 Toshiharu Fujita (Kyushu Inst. of Tech.) Mutually dependent Markov decision processes with associative criteria 10
- 21 Yoshihiro Suto (Waseda Univ.) Parameter estimation by a contrast function based on interpolation
 Yan Liu (Waseda Univ.) error 15
 Masanobu Taniguchi (Waseda Univ.)
- 22 Fumiya Akashi (Waseda Univ.) On the second-order asymptotic efficiency of frequency domain GMM estimators 15
- 23 Yan Liu (Waseda Univ.) Quantile estimation in frequency domain 15
- 24 Koji Tsukuda (Grad. Univ. for Adv. Stud.) Testing the time-homogeneity of ergodic stochastic processes by an L^2
 Yoichi Nishiyama (Inst. of Stat. Math./Grad. Univ. for Adv. Stud.) space approach 15
- 25 Yoshihide Kakizawa (Hokkaido Univ.) Bootstrap-based Bartlett-type adjustment 15
- 26 Yoshihiko Maesono (Kyushu Univ.) Higher order asymptotic representation of kernel estimator of hazard function 10
- 27 Hirokazu Yanagihara (Hiroshima Univ.) On asymptotically KL loss efficiency of a log-likelihood-based information criterion in high-dimensional normal multivariate linear regression models 15
- 28 Takanori Ayano (Osaka Univ.) Asymptotic property of MDL information criterion for continuous data
 Joe Suzuki (Osaka Univ.) 10

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

Hironori Fujisawa (Inst. of Stat. Math.) Divergence-based robust statistics

- 43 Sanpei Kageyama * An affine α -resolvable triangular design is not of simple type 10
(Hiroshima Inst. of Tech.)

Applied Mathematics

September 25th (Thu) Conference Room VIII

9:30–11:30

- 1 Hiroshi Nozaki (Aichi Univ. of Edu.) Linear programming bounds for regular graphs 15
- 2 Toshiaki Adachi (Nagoya Inst. of Tech.)* Kähler graphs 10
Tuerxunmaimaiti Yaermaimaiti
(Nagoya Inst. of Tech.)
- 3 Toshiaki Adachi (Nagoya Inst. of Tech.)* (1,1)-Laplacians for Kähler graphs 10
Tuerxunmaimaiti Yaermaimaiti
(Nagoya Inst. of Tech.)
- 4 Iwao Sato (Oyama Nat. Coll. of Tech.) A zeta function with respect to the transition matrix of a discrete-time
Norio Konno (Yokohama Nat. Univ.) quantum walk on a graph 15
Yusuke Higuchi (Showa Univ.)
Etsuo Segawa (Tohoku Univ.)
- 5 Yuusuke Suzuki (Niigata Univ.) Extension to triangulations with some properties from quadrangulations
Kenta Noguchi (Keio Univ.) 15
- 6 Ginji Hamano (Tokyo Denki Univ.) Existence of a regular unimodular triangulation of the edge polytopes
Takayuki Hibi (Osaka Univ.) of finite graphs 15
Hidefumi Ohsugi
(Kwansei Gakuin Univ.)
- 7 Yusuke Suyama (Osaka City Univ.) Numbering of vertices of simplicial 2-spheres 10
- 8 Kenta Ozeki A decomposition of cubic graphs 15
(Nat. Inst. of Information/JST ERATO)
Dong Ye (Middle Tennessee State Univ.)

14:15–17:00

- 9 Kazuhiko Ushio (Kinki Univ.) Balanced C_5 -foil designs and related designs 15
- 10 Jun Fujisawa (Keio Univ.) Matching extension in projective planar graphs 15
Hiroki Seno (Yokohama Nat. Univ.)
- 11 Kiyoshi Yoshimoto (Nihon Univ.) Locating sets of vertices on Hamiltonian cycles 15
Ralph J. Faudree (Univ. of Memphis)
Hao Li (Univ. de Paris Sud)
- 12 Akira Saito (Nihon Univ.) Spanning trees homeomorphic to a small tree 15
Kazuki Sano (Nihon Univ.)
- 13 Kiyoshi Ando A degree sum and forbidden subgraph condition for k -contractible edges
(Nat. Inst. of Information/JST ERATO) 10

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| 14 | <u>Atsuhiko Mizusawa</u> (Waseda Univ.) Diogo Kendy Matsumoto (Waseda Univ.) | A construction of smooth travel groupoids on finite graphs ····· 15 |
| 15 | <u>Shinya Fujita</u> (Yokohama City Univ.) Michitaka Furuya (Tokyo Univ. of Sci.) András Gyárfás (A. Rényi Inst. of Math.) Ágnes Tóth (A. Rényi Inst. of Math.) | A note on covering edge colored hypergraphs by monochromatic components ····· 10 |
| 16 | <u>Takahiro Matsushita</u> (Univ. of Tokyo) | On the topology of neighborhood complexes and the chromatic numbers of graphs ····· 15 |
| 17 | <u>Katsuhiko Kuribayashi</u> (Shinshu Univ.) | On the strong homotopy for quasi-schemoids ····· 15 |
| 18 | <u>Sho Suda</u> (Aichi Univ. of Edu.) Michio Seto (Shimane Univ.) Tetsuji Taniguchi (Matsue Coll. of Tech.) | Gram matrices of reproducing kernel Hilbert spaces over graphs I ···· 10 |
| 19 | <u>Michio Seto</u> (Shimane Univ.)* Sho Suda (Aichi Univ. of Edu.) Tetsuji Taniguchi (Matsue Coll. of Tech.) | Gram matrices of reproducing kernel Hilbert spaces over graphs II ··· 10 |

September 26th (Fri) Conference Room VIII

9:30–11:30

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| 20 | <u>Ryuichi Ohori</u> (Univ. of Tokyo) Takehito Yoshiki (Univ. of Tokyo) | Walsh figure of merit is efficiently approximable ····· 10 |
| 21 | <u>Kosuke Suzuki</u> (Univ. of Tokyo) Takehito Yoshiki (Univ. of Tokyo) | On the decay of the Walsh coefficients of smooth functions ····· 15 |
| 22 | <u>Takehito Yoshiki</u> (Univ. of Tokyo) Takashi Goda (Univ. of Tokyo) Ryuichi Ohori (Univ. of Tokyo) Kosuke Suzuki (Univ. of Tokyo) | The mean square quasi-Monte Carlo error for digitally shifted point sets ····· 15 |
| 23 | <u>Shin Harase</u> (Tokyo Tech) | Projections of Sobol' sequences ····· 15 |
| 24 | <u>Toshiaki Murofushi</u> (Tokyo Tech) Takafumi Horio (Tokyo Tech) | A computational approach for testing additive decomposability of monotone, supermodular set functions ····· 15 |
| 25 | <u>Minoru Fujimoto</u> (Seika Science Lab.) Kunihiko Uehara (Tezukayama Univ.) | NP Complete problem by quadratic residue problem ····· 15 |
| 26 | <u>Takuya Ikuta</u> (Kobe Gakuin Univ.) | Complex Hadamard matrices attached to some association schemes ·· 15 |

13:00–14:00 Talk Invited by Applied Mathematics Section

Etsuo Segawa (Tohoku Univ.) Spectral mapping of quantum walks

September 27th (Sat) Conference Room VIII

9:30–11:55 Special Session “Moving boundary problems and its numerical and mathematical analysis”

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| Tetsuya Ishiwata (Shibaura Inst. of Tech.) | Motion of polygonal curves by crystalline curvature flow | 45 |
| Masato Kimura (Kanazawa Univ.) | Generalization of crystalline motion | 45 |
| Masahisa Tabata (Waseda Univ.) | Numerical analysis of multiphase flows | 45 |

14:15–16:30

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| 27 Shingo Iwami (Kyushu Univ.) | Quantitative analysis of virus infection dynamics with distributed delay differential equations | 15 |
| 28 Toshikazu Kuniya (Kobe Univ.) | Analysis of an age-structured SIS epidemic model with spatial diffusion | 15 |
| 29 <u>Yasuaki Hiraoka</u> (Kyushu Univ.) Emerson G. Escolar (Kyushu Univ.) | Persistence modules on commutative ladder quivers | 15 |
| 30 <u>Emerson Gaw Escolar</u> (Kyushu Univ.) Yasuaki Hiraoka (Kyushu Univ.) | Computing persistence modules on commutative ladders of finite type | 15 |
| 31 <u>Genki Kusano</u> (Kyushu Univ.) Yasuaki Hiraoka (Kyushu Univ.) | An application of persistent homology to a coverage problem in sensor networks | 15 |
| 32 <u>Satoru Takagi</u> (Kogakuin Univ.) Hiroaki Uesu (Waseda Univ.) | An analysis of students’ needs for undergraduate mathematics lectures applying the Kano model | 15 |
| 33 Kazuaki Nakane (Osaka Univ.) | Image analysing method via homology —for cancer area detection— | 15 |
| 34 Kazuaki Nakane (Osaka Univ.) | Image analysing method via homology II —for general structures— | 15 |

16:45–17:45 Talk Invited by Applied Mathematics Section

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| Yoshihito Oshita (Okayama Univ.) | Motion of droplets driven by curvature and potential | |
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September 28th (Sun) Conference Room VIII

9:30–11:50

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|--|---|----|
| 35 Shunzi Horiguchi (Niigata Sangyo Univ.) | The conditional expressions III which compare convergences of Tsuchikura–Horiguchi method (the first extended recurrence formula of Yoshimasu Murase–Newton’s type) | 10 |
| 36 Shunzi Horiguchi (Niigata Sangyo Univ.) | The numerical computations of the conditional expressions III which compare convergences of Tsuchikura–Horiguchi method (the first extended recurrence formula of Yoshimasu Murase–Newton’s type) | 10 |
| 37 Issei Oikawa (Waseda Univ.) | A hybridized discontinuous Galerkin method with reduced stabilization | 15 |
| 38 <u>Shinya Uchiyumi</u> (Waseda Univ.) Masahisa Tabata (Waseda Univ.) | Analysis of a finite element scheme free from quadrature errors for the Navier–Stokes equations | 15 |
| 39 Takahito Kashiwabara (TU Darmstadt) <u>Guanyu Zhou</u> (Univ. of Tokyo) Issei Oikawa (Waseda Univ.) | Penalty method to the Stokes problem with slip boundary condition | 15 |

- 40 Tomoya Kemmochi (Univ. of Tokyo)
Norikazu Saito (Univ. of Tokyo) Discrete maximal regularity for abstract Cauchy problems and its application to finite element methods 15
- 41 Yoshiki Sugitani (Univ. of Tokyo)
Guanyu Zhou (Univ. of Tokyo)
Norikazu Saito (Univ. of Tokyo) Finite element approximation for the Stokes equations under a unilateral boundary condition 15
- 42 Yuuki Ueda (Univ. of Tokyo)
Norikazu Saito (Univ. of Tokyo) On a high-accurate successive time-discretization method based on B-spline interpolation functions 15
- 43 Khoji Ohtsuka
(Hiroshima Kokusai Gakuin Univ.) Solution of the shape optimization problem with Generalized J-integral by adjoint method 15
- 14:15–16:15**
- 44 Koichi Anada
(Waseda Univ. Senior High School)
Tetsuya Ishiwata
(Shibaura Inst. of Tech.) Some features for blow-up solutions of a nonlinear parabolic equations 15
- 45 Takiko Sasaki (Univ. of Tokyo)
Norikazu Saito (Univ. of Tokyo) Blow-up of finite difference solutions for nonlinear Schrödinger equations 15
- 46 Daisuke Tagami (Kyushu Univ.) An iterative domain decomposition method for eddy current problems with the gauge condition 15
- 47 Koya Sakakibara (Univ. of Tokyo)
Shigetoshi Yazaki (Meiji Univ.) Numerical computation of the one phase Hele-Shaw flow based on the charge simulation method 15
- 48 Tomoyuki Miyaji (Kyoto Univ.) Computer-assisted analysis to dynamical systems with four-leaf orbits 15
- 49 George Miyake
(Ube Nat. Coll. of Tech.)
Yuji Katsuta (Ube Nat. Coll. of Tech.) A method of computing parameter values for shaping a limit cycle into a separatrix loop 15
- 50 Ayuki Sekisaka (Tohoku Univ.) The relationship between the stability of pulse and the absolute spectrum in reaction diffusion system 15

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

- Takeshi Takaishi
(Hiroshima Kokusai Gakuin Univ.) A phase-field model for crack growth and its numerical verification

Topology

September 25th (Thu) Conference Room VI

9:20–12:00

- 1 Kazuaki Higa (Kochi Univ.) A surviving condition on permanent cycles in the Adams E_2 -term 10
Ryo Kato
Katsumi Shimomura (Kochi Univ.)

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| 2 | <u>Kentaro Miyazawa</u> (Kochi Univ.) Katsumi Shimomura (Kochi Univ.) | On the action of Greek letter element β_1 in the stable homotopy groups of spheres | 10 |
| 3 | Norihiko Minami (Nagoya Inst. of Tech.) | On the Beilinson–Rosenblyum isogeny theorem of the Hurewicz functor for infinite loop spaces | 15 |
| 4 | <u>Saki Itagaki</u> (Kochi Univ.) Yutaka Hemmi (Kochi Univ.) | Correspondence between categories of finite topological spaces and finite simplicial complexes | 10 |
| 5 | Takahiro Matsushita (Univ. of Tokyo) | The simplicial sets related to the Hom complexes of graphs | 10 |
| 6 | Naoya Suzuki (Nagoya Univ.) | The Dixmier–Douady class in a simplicial de Rham complex | 15 |
| 7 | <u>Hirokazu Nishinobu</u> (Kochi Univ.) Toshihiro Yamaguchi (Kochi Univ.) | Certain examples of posets of rational Gottlieb subgroups | 10 |
| 8 | Katsuhiko Kuribayashi (Shinshu Univ.) | Loop products on Noetherian Hopf spaces | 10 |
| 9 | Miho Hatanaka (Osaka City Univ.) | Spin toric manifolds associated to graphs | 10 |
| 10 | Hiraku Abe (Osaka City Univ.) | Young diagrams and intersection numbers for toric manifolds arising from root systems | 15 |
| 11 | <u>Tatsuya Horiguchi</u> (Osaka City Univ.) Megumi Harada (McMaster Univ.) Mikiya Masuda (Osaka City Univ.) | The equivariant cohomology rings of Peterson varieties | 10 |
| 12 | <u>Takayuki Yamaguchi</u> (Hiroshima Univ.) Tomonori Fukunaga (Hokkaido Univ.) Takaaki Yamanoi (Hokkaido Univ.) | Complete classification of Gauss words of rank less than or equal to 5 by universal finite type invariant | 10 |

14:15–15:25

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| 13 | <u>Yukinobu Yajima</u> (Kanagawa Univ.)* Yasushi Hirata (Kanagawa Univ.) | The D -space property of infinite products | 10 |
| 14 | <u>Tatsuhiko Yagasaki</u> (Kyoto Inst. Tech.) Taras Banakh (Ivan Franko Nat. Univ. of Lviv) Kotaro Mine (Univ. of Tokyo) Katsuro Sakai (Kanagawa Univ.) | Homeomorphism groups of non-compact surfaces endowed with the Whitney topology | 15 |
| 15 | Takashi Shimomura (Nagoya Univ. of Econ.) | Ergodic measures and graph circuits of a sequence of covers | 10 |
| 16 | Takashi Shimomura (Nagoya Univ. of Econ.) | Combinatorial construction of completely scrambled compact system | 10 |
| 17 | Takamitsu Yamauchi (Ehime Univ.) | On coarse geometric infinite-dimensionality of the countable direct sum of the integers | 15 |

15:45–16:45 Talk Invited by Topology Section

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| Brian Bowditch (Univ. of Warwick/Tokyo Tech) | * Rigidity results for spaces associated to a surface |
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September 26th (Fri) Conference Room III

10:30–10:45 Presentation Ceremony for MSJ Geometry Prize 2014**10:50–11:50 Award Lecture for MSJ Geometry Prize 2014**

—Celebrating Professor Masatake Kuranishi—

Ryushi Goto (Osaka Univ.) Kuranishi's masterpieces and their developments in deformation theory
Kimio Miyajima (Kagoshima Univ.*) and CR-geometry

Conference Room VI

13:00–14:15

- 18 Masaaki Suzuki (Meiji Univ.) Integral Euler characteristic of Out F_{11} 10
Takuya Sakasai (Univ. of Tokyo)
Shigeyuki Morita
(Univ. of Tokyo*/Tokyo Tech*)
- 19 Shunsuke Tsuji (Univ. of Tokyo)^b The logarithms of Dehn twists on non-orientable surfaces 15
- 20 Nariya Kawazumi (Univ. of Tokyo) The Turaev cobracket, the Enomoto–Sato traces and the divergence
cocycle in the Kashiwara–Vergne problem 15
- 21 Tomohiko Ishida (Kyoto Univ.) A twisted first homology of the handlebody mapping class group 10
Masatoshi Sato (Gifu Univ.)
- 22 Tomohiko Ishida (Kyoto Univ.) Vanishing of volume flux groups 10

September 27th (Sat) Conference Room VI

9:20–11:50

- 23 Inasa Nakamura (Univ. of Tokyo) Two-dimensional braids over a surface link 10
- 24 Shin Satoh (Kobe Univ.) Crossing changes unknot a welded knot 10
- 25 Seiichi Kamada (Osaka City Univ.) Cords and 1-handles attached to surface-knots 10
- 26 Tetsuya Abe (Tokyo Tech) Annulus twist and diffeomorphic 4-manifolds II 15
In Dae Jong (Kinki Univ.)
- 27 Masatsuna Tsuchiya (Gakushuin Univ.) On homotopy $K3$ surface constructed by two left handed trefoil knots
..... 10
- 28 Noriyuki Hamada (Univ. of Tokyo) On sections of the Matsumoto–Cadavid–Korkmaz Lefschetz fibration
..... 15
- 29 Takuya Ukida (Tokyo Tech) A genus zero Lefschetz fibration on the Akbulut cork 10
- 30 Takahiro Oba (Tokyo Tech) Diffeomorphism types of Stein fillings and mapping class groups 15
- 31 Naohiko Kasuya (Univ. of Tokyo) On contact submanifolds of the odd dimensional Euclidean spaces 15
- 32 Tomohiro Horiuchi (Chuo Univ.) Leafwise holomorphic automorphisms of Reeb components 15

14:15–15:40

- 33 Kuniyuki Takaoka (Waseda Univ.) LR number of spherical closed curves 10
- 34 Noboru Ito (Waseda Univ.) Triple chords and strong $(1, 2)$ homotopy 10
Yusuke Takimura
(Gakushuin Boy's Junior High School)
- 35 Noboru Ito (Waseda Univ.) Strong and weak $(1, 2)$ homotopies on spherical curves and new invari-
ants 10
Yusuke Takimura
(Gakushuin Boy's Junior High School)
- 36 Kenta Hayano (Hokkaido Univ.) A new aspect of the Arnold invariant J^+ from a global viewpoint 15
Noboru Ito (Waseda Univ.)
- 37 Keiichi Sakai (Shinshu Univ.) Lin–Wang type formula for Haefliger invariant 15
- 38 Yusuke Mizota (Kyushu Univ.) Is the module of lowerable vector fields finitely generated? 10
Takashi Nishimura
(Yokohama Nat. Univ.)

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

- Masaharu Ishikawa (Tohoku Univ.) Stable maps and branched shadows of 3-manifolds

September 28th (Sun) Conference Room VI

9:20–12:00

- 39 Naoko Kamada (Nagoya City Univ.) The writhes of a twisted knot 10
- 40 Takuji Nakamura On the set of virtual knots with a given state number 10
(Osaka Electro-Comm. Univ.)
Yasutaka Nakanishi (Kobe Univ.)
Shin Satoh (Kobe Univ.)
- 41 Yasutaka Nakanishi (Kobe Univ.) Delta-crossing number for knots 10
Yoko Sakamoto (Kobe Univ.)
Shin Satoh (Kobe Univ.)
- 42 Shosaku Matsuzaki (Waseda Univ.) On arrangements of component-trivial links on planes 15
- 43 Atsushi Ishii (Univ. of Tsukuba) Circulatory orientations and handlebody-links 10
- 44 Toshio Saito (Joetsu Univ. of Edu.) Essential tangle spheres of knots 10
- 45 Yoshiyuki Nakagawa (Ryukoku Univ.) The growth of torus link groups 10
Yasushi Yamashita
(Nara Women's Univ.)
Makoto Tamura (Osaka Sangyo Univ.)
- 46 Yuka Kotorii (Univ. of Tokyo) On relation between the Milnor's μ -invariant and HOMFLYPT polyno-
mial 10
- 47 Yasuyoshi Tsutsumi Negativity of the third Ohtsuki invariants of the Brieskorn–Hamm
(Oshima Nat. Coll. of Maritime Tech.) homology 3-spheres 10
- 48 Takayuki Morifuji (Keio Univ.)* Parabolic representations of 2-bridge knots and twisted Alexander poly-
Anh T. Tran (Ohio State Univ.) nomials 10

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| 49 | Teruaki Kitano (Soka Univ.) | Reidemeister torsion of a homology 3-sphere surgeried along a torus knot for $SL(2, \mathbb{C})$ -irreducible representaions | 10 |
| 50 | <u>Takamichi Sushida</u> (Meiji Univ.) Akio Hizume (Ryukoku Univ.) Yoshikazu Yamagishi (Ryukoku Univ.) | Shape limit in Voronoi spiral multiple tilings | 15 |
| 51 | Hirotaka Akiyoshi (Osaka City Univ.) | Side parameter for the torus with a single cone point | 10 |

Infinite Analysis

September 25th (Thu) Conference Room IX

10:00–12:00

| | | | |
|---|--|---|----|
| 1 | Genki Shibukawa (Kyushu Univ.) | Multivariate Meixner, Charlier and Krawtchouk polynomials | 15 |
| 2 | Yusuke Ohkubo (Nagoya Univ.) | Existence and orthogonality of generalized Jack symmetric functions arising from AGT conjecture and its q-deformation | 15 |
| 3 | Kouichi Takemura (Chuo Univ.) | Multi-indexed Jacobi polynomials and Maya diagrams | 15 |
| 4 | Ayumu Hoshino (Kagawa Nat. Coll. of Tech.) Masatoshi Noumi (Kobe Univ.) <u>Junichi Shiraishi</u> (Univ. of Tokyo) | Fourfold series expression for Askey–Wilson polynomial | 15 |
| 5 | Ayumu Hoshino (Kagawa Nat. Coll. of Tech.) Masatoshi Noumi (Kobe Univ.) <u>Junichi Shiraishi</u> (Univ. of Tokyo) | An explicit formula for Koornwinder polynomial with one row diagram and a proof of Lassalle’s conjectures | 15 |
| 6 | Yosuke Saito (Tohoku Univ.) | Modular double of the Ding–Iohara–Miki algebra obtained from the double sine function | 15 |

14:15–15:30

| | | | |
|----|---|--|----|
| 7 | Youichi Shibukawa (Hokkaido Univ.) | Hopf algebroids associated with dynamical Yang–Baxter maps | 15 |
| 8 | Youichi Shibukawa (Hokkaido Univ.) | Rigid tensor categories associated with dynamical Yang–Baxter maps | 15 |
| 9 | Masanori Ando (Wakoku Univ.)* | An understanding and its application of the similarity in the generating functions of partitions and strict partitions | 15 |
| 10 | <u>Saburo Kakei</u> (Rikkyo Univ.) Kenji Kajiwara (Kyushu Univ.) | Toda hierarchy and motion of plane curves by modified KdV hierarchy | 15 |

15:45–16:45 Talk Invited by Infinite Analysis Special Session

| | |
|-----------------------------|---|
| Soichi Okada (Nagoya Univ.) | Schur-type Pfaffians and their applications to symmetric function |
|-----------------------------|---|

September 26th (Fri) Conference Room IX

10:00–12:00

- 11 Takeshi Morita (Osaka Univ.) A relation between the divergent bilateral basic hypergeometric series ${}_2\psi_2(a, 0; b_1, b_2; q, x)$ and the basic hypergeometric series 15
- 12 Shin Isojima (Hosei Univ.) Ultradiscrete limit of special function solutions of the Painlevé III equation 15
- 13 Tomoyuki Takenawa (Tokyo Univ. of Marine Sci. and Tech.) Schlesinger transformations and difference Painlevé equations 15
- 14 Kohei Iwaki (Kyoto Univ.) Exact WKB analysis and cluster algebras 15
Tomoki Nakanishi (Nagoya Univ.)
- 15 Masataka Kanki (Rikkyo Univ.) Co-primeness condition as an integrability criterion for discrete equations 15
Tetsuji Tokihiro (Univ. of Tokyo)
Takafumi Mase (Univ. of Tokyo)
Jun Mada (Nihon Univ.)
- 16 Akishi Kato (Univ. of Tokyo) Quiver mutation loops and partition q -series 15
Yuji Terashima (Tokyo Tech)

13:00–14:00 Talk Invited by Infinite Analysis Special Session

- Yousuke Ohyama (Osaka Univ.) Classical Analysis on the q -Painlevé equations
-

Information for Speakers

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

Collaborative works are presented by the underlined authors. The talks with * mark are presented through document camera, while b marks denote presentations on blackboard or whiteboard. The speakers with ★ marks are professors emeriti. If you find anything wrong in the program, do not hesitate to inform the Chair of Organizing Committee by sending e-mail to the address program14sept@mathsoc.jp.

Each conference room is equipped with a whiteboard or blackboard, a document camera, and a projector for PC presentation. You are asked to use your own PC for a PC presentation. The time for connecting your PC to the projector is included in the assigned duration of your talk. You are recommended to check beforehand if your PC can be connected to the projector in the conference room. We strongly advise you to prepare an alternative method to present your talk such as printed sheets for the document camera in case your PC does not fit to the projector.

Information for Participants

In Higashi-Hiroshima campus smoking is prohibited generally. Smokers are kindly asked to smoke in the designated areas.

You can go to Higashi-Hiroshima campus by car. But the parking area is limited. First come, first served.

You can get a wireless LAN connection in all of the discussion rooms and some of the lecture rooms, by getting eduroam pseudonym account or using Wi-Fi service of telecom operators. See

<http://www.media.hiroshima-u.ac.jp/services/hinet/access-point>

for the detailed information.

During the MSJ meeting, the cafeteria in West Welfare Center No. 2, which is near the conference rooms, is open on Saturday and Sunday as well as weekdays. On weekdays and Saturday, other cafeterias, cafés and coop shops are also open. There are some restaurants outside the campus.

Official Party

Time: September 26th (Fri), 18:15–20:15

Venue: Saijo HAKUWA Hotel 2F Diamond

Participants are asked to pay 5,000 JPY at the party.

Directions

2014 MSJ AUTUMN MEETING

Dates : September 25th (Thu)–28th (Sun), 2014

Venue : Hiroshima University, Higashi-Hiroshima Campus
1–3–1, Kagamiyama, Higashi-Hiroshima City, Hiroshima 739-8521

Contact to : Department of Mathematics,
Graduate School of Sciences, Hiroshima University
1–3–1, Kagamiyama, Higashi-Hiroshima City, Hiroshima 739-8526
E-mail hiroshima14sept@mathsoc.jp
Phone +81 (0) 90 1791 3483 (During session)

Web Site : <http://mathsoc.jp/en/meeting/hiroshima14sept/>

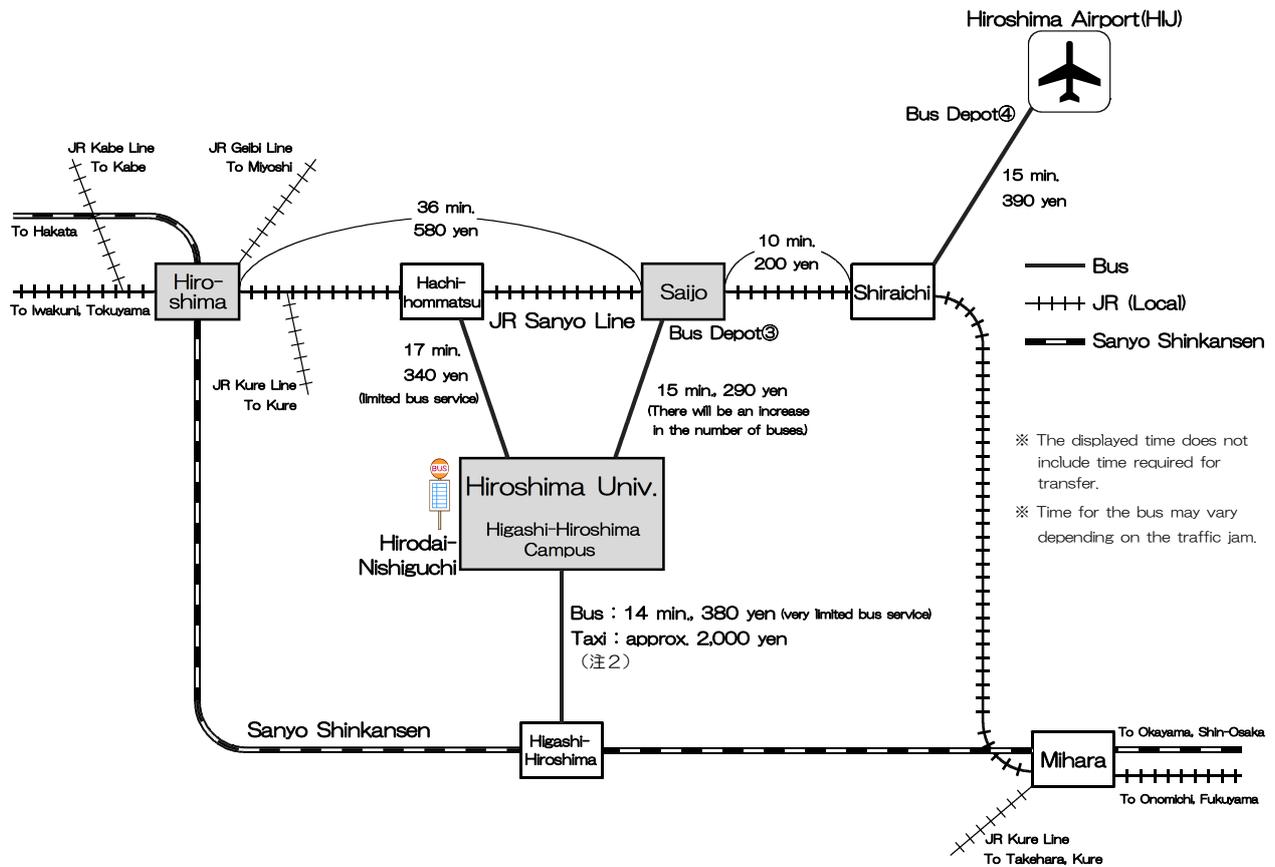
Conference Rooms

| | Place | Research Sections |
|----------------------------|------------------------------------|--|
| Conference Room I | Fac. Int. Arts Sci., Bldg. K, K110 | Complex Analysis, Real Analysis |
| Conference Room II | Fac. Int. Arts Sci., Bldg. K, K108 | Algebra, Featured Invited Talk |
| Conference Room III | Fac. Int. Arts Sci., Bldg. K, K107 | Geometry, Featured Invited Talk |
| Conference Room IV | Fac. Int. Arts Sci., Bldg. L, L101 | Functional Analysis |
| Conference Room V | Fac. Int. Arts Sci., Bldg. L, L102 | Functional Equations, Featured Invited Talk |
| Conference Room VI | Fac. Int. Arts Sci., Bldg. K, K211 | Topology |
| Conference Room VII | Fac. Int. Arts Sci., Bldg. K, K210 | Statistics and Probability |
| Conference Room VIII | Fac. Int. Arts Sci., Bldg. L, L201 | Applied Mathematics |
| Conference Room IX | Fac. Int. Arts Sci., Bldg. K, K314 | Infinite Analysis, Foundation of Mathematics and History of Mathematics |
| Plenary Talks | Satake Memorial Hall | |
| Open Lectures for Citizens | Fac. Sci., Bldg. E, E102 | |

Other Rooms

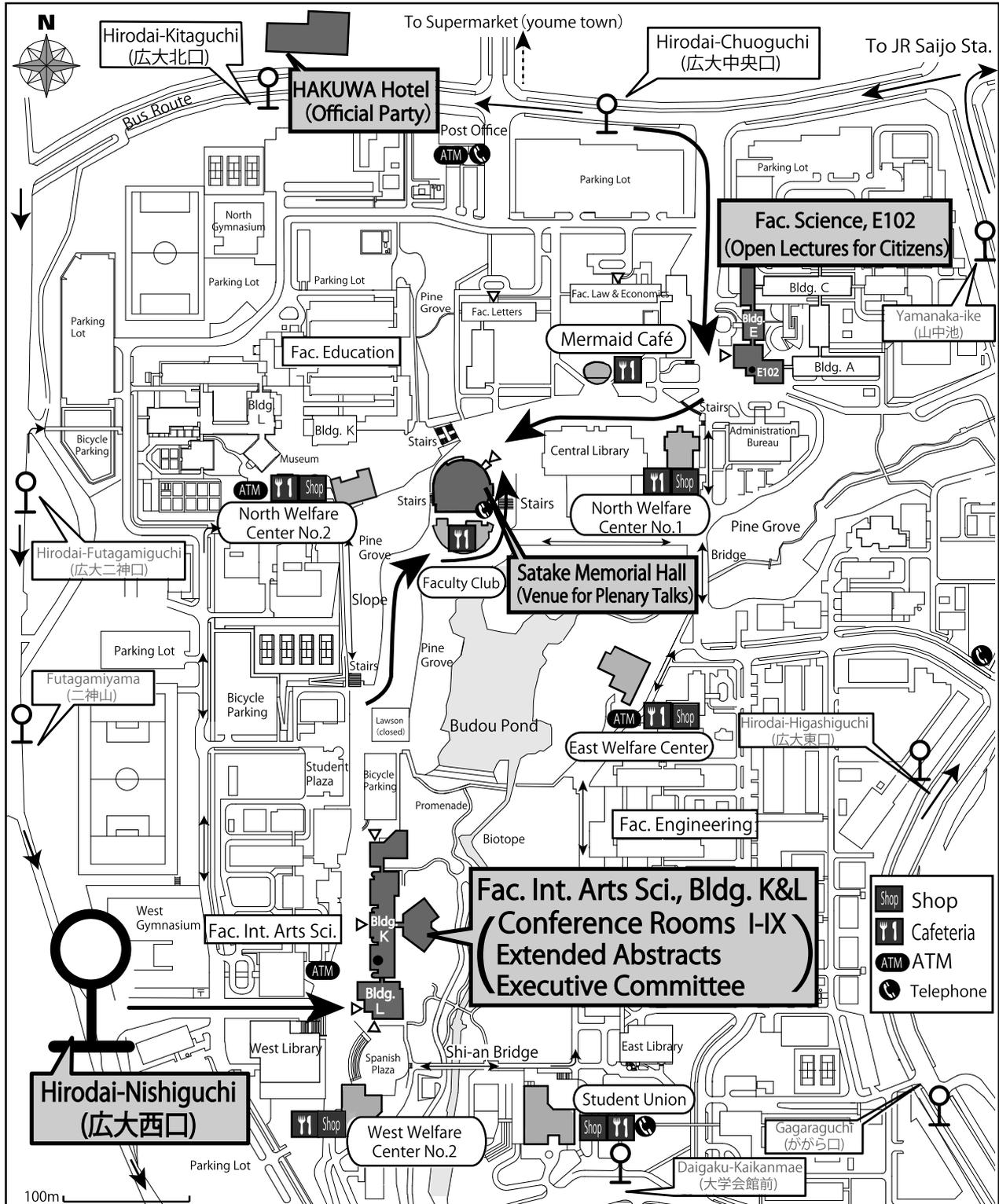
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| Extended Abstracts and Membership | Fac. Int. Arts Sci., Bldg. K, K104 |
| Discussion Rooms | Fac. Int. Arts Sci., Bldg. K, K106 / K208 / K312 |
| Book Display and Sale | Fac. Int. Arts Sci., Bldg. K, K101 / K102 / K105 |
| Executive Committee, MSJ President | Fac. Int. Arts Sci., Bldg. K, K302 |
| Official Party | Saijo HAKUWA Hotel 2F Diamond |

Access to Hiroshima University



- From Hiroshima station to Hiroshima University, please take a train on the Sanyo line bound for Saijo and Mihara, and transfer to the bus at Saijo station.
- There are two bus companies that provide a bus between Saijo station and Hiroshima University, Chugoku JR Bus and Geiyo Bus.
- The nearest bus stop to the conference rooms is “Hirodai-Nishiguchi”. (The nearest bus stop to the venue for plenary talks and open lectures for citizens is “Hirodai-Chuoguchi”. The nearest bus stop to the venue for the official party is “Hirodai-Kitaguchi”.)
- There will be an increase in the number of buses between Saijo station and Hiroshima University during the MSJ meeting.
- From Hachihommatsu station and Higashi-Hiroshima station, some buses also operate to Hiroshima University. But they are very limited bus service. If you want to go to Hiroshima University from Higashi-Hiroshima station, we recommend that you take a taxi. The fare is approximately 2,000 yen.

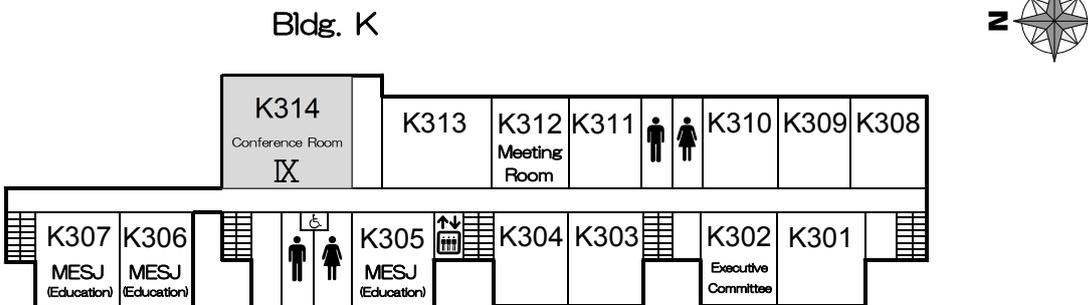
Campus Map of Hiroshima University



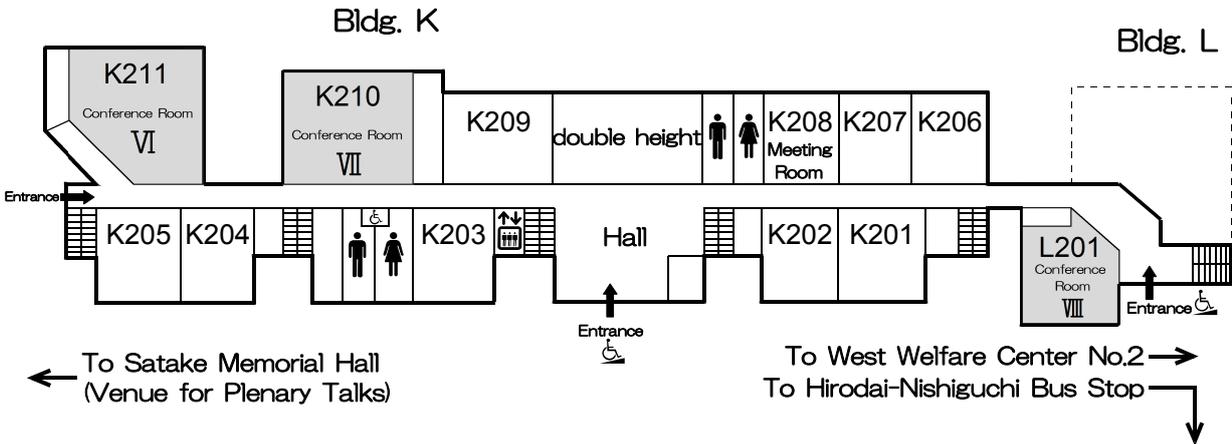
Floor Maps

Fac. Int. Arts Sci., Buildings K&L

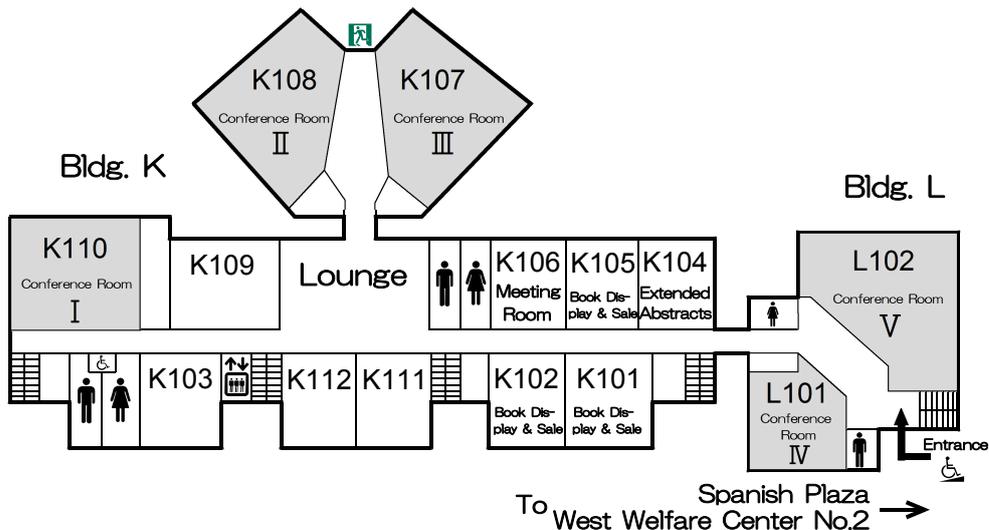
3F



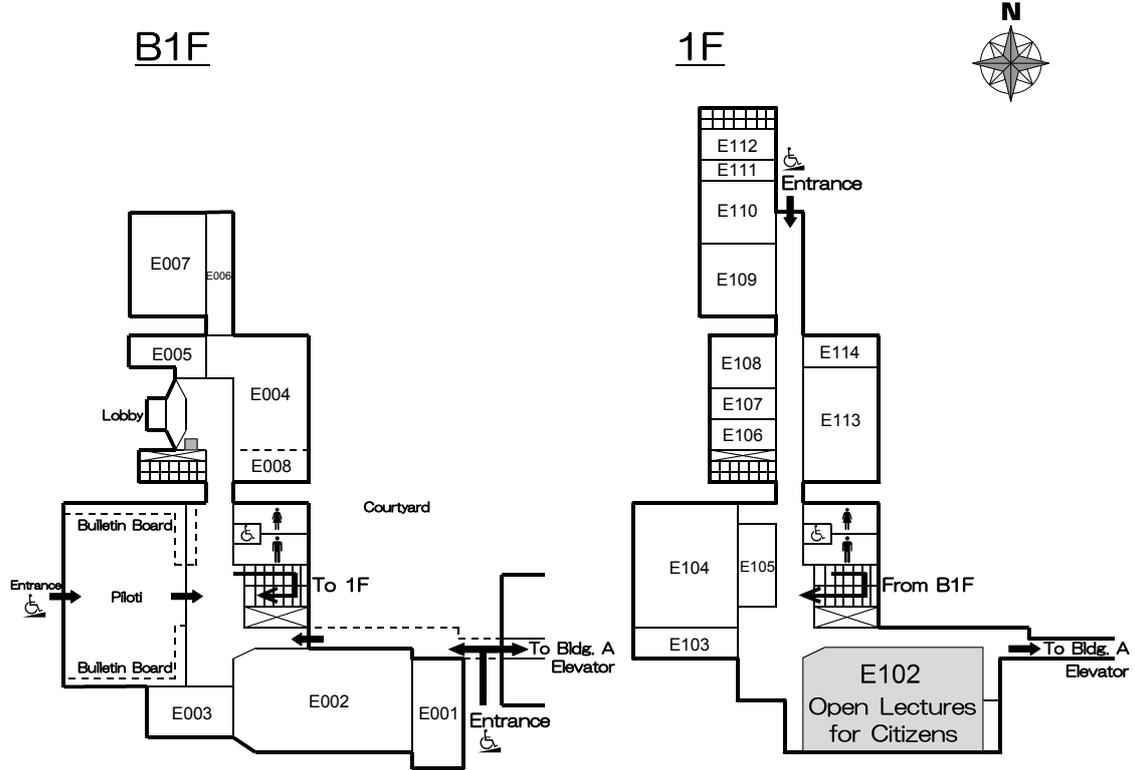
2F



1F



Fac. Sci., Building E



- The north entrance of Faculty of Science, Building E is on 1F, while the south entrance is on B1F. There is an elevator in Building A, while there is no elevator in Building E.