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2013 Mathematical Society of Japan
AUTUMN MEETING

Dates: September 24th–27th, 2013
Venue: Ehime University, Johoku Campus
Bunkyo-cho 3, Matsuyama, Ehime 790-8577
Contact to: Department of Mathematics,
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Mathematical Society of Japan
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	I Green Hall	II General Edu. L.H. Rm 11	III General Edu. L.H. Rm 21	IV General Edu. L.H. Rm 24	V General Edu. L.H. Rm 35	VI General Edu. L.H. Rm 45	VII Law & Letters L.H. Rm 201	VIII Engineering Bldg.4 Rm E411	IX Engineering Bldg.4 Rm E421
24th (Tue)	Algebra 9:00–12:00 14:15–16:45	Functional Equations 9:20–12:00 14:15–16:30	Real Analysis 9:00–12:05 14:20–16:15	Functional Analysis 9:30–11:50	Topology 9:00–12:00 14:15–16:00	Geometry 9:15–12:00 14:15–16:00	Applied Mathematics 9:45–12:00 14:15–16:30	Statistics and Probability 9:30–12:00 14:15–14:45	Infinite Analysis 9:30–12:00 14:15–16:20
	Featured Invited Talks 13:00–14:00								
	Invited Talk 17:00–18:00	Invited Talk 16:45–17:45	Invited Talk 16:30–17:30	Invited Talk 14:15–15:15	Invited Talk 16:20–17:20	Invited Talk 16:15–17:15	Invited Talk 16:50–17:50	Invited Talks 15:00–16:00 16:15–17:15	Invited Talk 16:30–17:30
25th (Wed)	Algebra 9:00–12:00	Functional Equations 9:00–12:00	Real Analysis 9:00–11:55 13:00–13:15	Functional Analysis 9:30–11:50	Geometry / Topology (Edu. Bldg.2, Large Lect. Room)		Applied Mathematics 9:45–12:00	Statistics and Probability 9:15–11:50	Infinite Analysis 9:30–12:00
	Invited Talk 13:15–14:15	Invited Talk 13:15–14:15	Invited Talk 13:20–14:20		Invited Talks 10:50–11:50 13:15–14:15		Invited Talk 13:00–14:00		Invited Talk 13:00–14:00
	MSJ Prizes Presentation (Himegin Hall, Sub-hall) ····· (15:00–15:30) Plenary Talks (Himegin Hall, Sub-hall) MSJ Autumn Prize Winner ····· (15:45–16:45) Toshio Oshima (Univ. of Tokyo) ···· (17:00–18:00) Official Party (Alumni Association Hall Café Restaurant "Se·tolian") ····· (18:20–20:20)								
26th (Thu)	Algebra 9:00–11:25 14:15–16:00	Functional Equations 9:00–12:00 14:15–16:30	Complex Analysis 10:00–12:00 14:15–15:00	Functional Analysis 9:30–12:00 14:15–15:45	Topology 9:00–12:00 14:15–16:00	Geometry 9:00–12:00 14:15–16:00	Applied Mathematics 9:30–10:20 14:15–17:45 Special Session 10:30–12:00	Statistics and Probability 9:00–12:00	Found. of Math. and History of Math. 9:30–10:55 15:25–16:50
	Featured Invited Talks 13:00–14:00								
	Invited Talk 16:15–17:15	Invited Talk 16:45–17:45	Invited Talk 15:10–16:10	Invited Talk 16:00–17:00	Invited Talk 16:20–17:20	Invited Talk 16:15–17:15		Invited Talks 14:30–15:30 15:45–16:45	Invited Talk 14:15–15:15
27th (Fri)	Algebra 9:30–12:00 14:15–15:30	Functional Equations 9:00–12:00 14:15–16:30	Complex Analysis 9:00–10:45	Functional Analysis 9:30–12:00			Applied Mathematics 9:00–12:00 14:15–16:45	Statistics and Probability 9:15–12:00	Found. of Math. and History of Math. 10:00–11:25
	Featured Invited Talks 13:00–14:00								
	Invited Talk 15:45–16:45	Invited Talk 16:45–17:45	Invited Talk 11:00–12:00	Invited Talk 14:15–15:15			Invited Talk 17:00–18:00		Invited Talk 14:15–15:15

Plenary Talks

September 25th (Wed) Himegin Hall, Sub-hall

MSJ Autumn Prize Winner ..... (15:45–16:45)

Toshio Oshima (Josai Univ.) Linear ordinary differential equations with polynomial coefficents ..... (17:00–18:00)

Featured Invited Talks

September 24th (Tue)

Conference Room I

Toshiaki Shoji ♯ (Nagoya Univ./Dongji Univ.) Exotic symmetric spaces and Kostka polynomials ..... (13:00–14:00)

Conference Room II

Yoshikazu Kobayashi (Chuo Univ.) ♯ Nonlinear evolution operators and ordinary differential equations in Banach spaces ..... (13:00–14:00)

September 26th (Thu)

Conference Room I

Guest Talk from Korean Mathematical Society

Seok-Jin Kang (Seoul Nat. Univ.) Khovanov–Lauda–Rouquier algebras and 2-representation theory ..... (13:00–14:00)

Conference Room VII

Hitoshi Matsubara ♯ (Future Univ.-Hakodate) Shogi programs have beat human professional players ..... (13:00–14:00)

September 27th (Fri)

Conference Room I

Tetsuji Miwa (Kyoto Univ.) ♯ Algebraic analysis and exactly solvable models ..... (13:00–14:00)

Conference Room II

Koji Fujiwara (Kyoto Univ.) ♯ Group actions on quasi-trees ..... (13:00–14:00)

Conference Room VIII

Ichiro Hasuo (Univ. of Tokyo) ♯ Verification of cyber-physical systems via nonstandard analysis: from discrete to continuous and hybrid ..... (13:00–14:00)

Talks invited by Research Sections and Special Session

September 24th (Tue)

Algebra (Conference Room I)

Yuval Flicker (Ohio State Univ. / Ariel Univ.) ♯ Counting local systems via automorphic forms ····· (17:00–18:00)

Geometry (Conference Room VI)

Hisashi Kasuya (Tokyo Tech) ♯ Cohomologies and deformations of solvmanifolds ····· (16:15–17:15)

Functional Equations (Conference Room II)

Hayato Chiba (Kyushu Univ.) ♯ The Painlevé equations on weighted projective spaces ····· (16:45–17:45)

Real Analysis (Conference Room III)

Shinya Moritoh (Nara Women's Univ.) * Microlocal Besov spaces and dominating mixed smoothness ····· (16:30–17:30)

Functional Analysis (Conference Room IV)

Chisato Iwasaki (Univ. of Hyogo) * The symbol of the fundamental solution for the degenerate parabolic operators and its application ····· (14:15–15:15)

Statistics and Probability (Conference Room VIII)

Makoto Nakashima (Univ. of Tsukuba) ♯ Branching random walks in random environment ····· (15:00–16:00)

Katusi Fukuyama (Kobe Univ.) ♯ Uniform distribution theory for geometric progressions ···· (16:15–17:15)

Applied Mathematics (Conference Room VII)

Masaaki Harada (Yamagata Univ.) ♯ Self-dual codes and related topics ····· (16:50–17:50)

Topology (Conference Room V)

Tadayuki Watanabe (Shimane Univ.) ♯ Morse theory and graph-valued 3-manifold invariant ····· (16:20–17:20)

Infinite Analysis (Conference Room IX)

Katsuyuki Naoi (Univ. of Tokyo) ♯ An approach to the $X = M$ conjecture using modules over a current algebra ····· (16:30–17:30)

September 25th (Wed)

Algebra (Conference Room I)

Shunsuke Takagi (Univ. of Tokyo) ♯ F-singularities and singularities in the minimal model program ····· (13:15–14:15)

Geometry and Topology (Edu. Bldg.2, Large Lect. Room)

Award Lecture for 2013 Geometry Prize

Katsutoshi Yamanoi (Tokyo Tech) ♯ Value distribution of derivatives of meromorphic functions ····· (10:50–11:50)

Award Lecture for 2013 Geometry Prize

Toshitake Kohno (Univ. of Tokyo) ♯ Braids, quantum symmetry and hypergeometric integrals · (13:15–14:15)

Functional Equations (Conference Room II)

Naohito Tomita (Osaka Univ.)♯ On the boundedness of bilinear Fourier multiplier operators ····· (13:15–14:15)

Real Analysis (Conference Room III)

Risei Kano (Kochi Univ.)♯ The existence of solutions for the tumor invasion models ·· (13:20–14:20)

Applied Mathematics (Conference Room VII)

Kanako Suzuki (Ibaraki Univ.)♯ Dynamics of some reaction-diffusion-ODE systems ····· (13:00–14:00)

Infinite Analysis (Conference Room IX)

Akihiro Tsuchiya (Univ. of Tokyo)* Logarithmic conformal field theory and the representation theory of extended W-algebras ····· (13:00–14:00)

September 26th (Thu)

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

Tatsuhiko Kobayashi ♯ (Maebashi Inst. of Tech.*/Yokkaichi Univ.) Takakazu Seki, Katahiro Takebe, and Genkei Nakane ····· (14:15–15:15)

Algebra (Conference Room I)

Masahiko Miyamoto ♯ (Univ. of Tsukuba) On orbifold conjecture about vertex operator algebras ···· (16:15–17:15)

Geometry (Conference Room VI)

Shoichi Fujimori (Okayama Univ.)♯ Zero mean curvature embeddings in the Lorentz–Minkowski 3-space ····· (16:15–17:15)

Complex Analysis (Conference Room III)

David Drasin (Purdue Univ.)♯ Sharpness of Rickman's Picard theorem ····· (15:10–16:10)

Functional Equations (Conference Room II)

Shuji Machihara (Saitama Univ.)♯ On the Cauchy problems for the system of Dirac equations with quadratic nonlinearities in 1d ····· (16:45–17:45)

Functional Analysis (Conference Room IV)

Toshihiko Matsuki (Ryukoku Univ.)♯ Finite-type orbit decompositions of multiple flag varieties for orthogonal groups ····· (16:00–17:00)

Statistics and Probability (Conference Room VIII)

Yoichi Nishiyama ♯ (Inst. of Stat. Math./Grad. Univ. for Adv. Stud.) A stochastic maximal inequality, weak convergence of infinite-dimensional martingales, and semiparametric statistics ···· (14:30–15:30)

Kouji Yamamoto (Osaka Univ.)♯ Modelling for square contingency tables and its application ····· (15:45–16:45)

Topology (Conference Room V)

Tetsuya Itoh (Kyoto Univ.)♯ Open book foliation ····· (16:20–17:20)

September 27th (Fri)

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

Koichiro Ikeda (Hosei Univ.)♯ On generic structures ····· (14:15–15:15)

Algebra (Conference Room I)

Yoshiaki Fukuma (Kochi Univ.)♯ A study on the dimension of global sections of adjoint bundles by invariants of quasi-polarized varieties ····· (15:45–16:45)

Complex Analysis (Conference Room III)

Tetsuo Ueda (Kyoto Univ.)♯ Semi-parabolic fixed points and their bifurcations in complex dimension 2 ····· (11:00–12:00)

Functional Equations (Conference Room II)

Goro Akagi (Kobe Univ.)♯ Asymptotic behavior of solutions for nonlinear diffusion equations ····· (16:45–17:45)

Functional Analysis (Conference Room IV)

Yuki Seo (Osaka Kyoiku Univ.)♯ Developments of operator geometric means from the viewpoint of Kantorovich inequality ····· (14:15–15:15)

Applied Mathematics (Conference Room VII)

Takaharu Yaguchi (Kobe Univ.)♯ Energy-preserving numerical methods based on the finite element exterior calculus for wave-type differential equations ····· (17:00–18:00)

Open Lectures for Citizens

Sponsored by: Mathematical Society of Japan
Date: September 23rd (Mon) 14:00–16:30
Venue: Nanka Kinen Hall, Ehime University
Program: Opening Speech:
Naohisa Funaki (President of MSJ / Univ. of Tokyo) ····· (14:00–14:10)

Lecture 1:
Koichi Hirata (Ehime Univ.)
Japanese Mathematics *Wasan* and Mathematical Tablet *Sangaku* in Ehime Prefecture ····· (14:10–15:10)

Lecture 2:
Kouki Taniyama (Waseda Univ.)
Topology of puzzle rings ····· (15:30–16:30)

Web Page: `http://mathsoc.jp/en/meeting/ehime13sept/`

Foundation of Mathematics and History of Mathematics

September 26th (Thu) Conference Room IX

9:30–10:55

1 Shigeru Masuda (Kyoto Univ.)♯ The Kepler problems affected the Schrödinger equations ····· 20

2 Shigeru Masuda (Kyoto Univ.)♯ The Fourier's heat communication theory and Boltzmann's gas transport equations ····· 20

3 Shotaro Tanaka * Representation of fractional functions using power series 3 ····· 20

4 Hideyuki Majima (Ochanomizu Univ.)♯ When did Takebe Katahiro verify the calculation of Pi by Seki Takakazu? ····· 20

11:00–12:00 Mathematics History Team Meeting

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

Tatsuhiko Kobayashi ♯ (Maebashi Inst. of Tech.*/Yokkaichi Univ.) Takakazu Seki, Katahiro Takebe, and Genkei Nakane

15:25–16:50

5 Toshio Suzuki (Tokyo Metro. Univ.)♯ Yuji Hatakeyama (GREE, Inc.) Street pattern complexity based on affine compressibility ····· 15

6 Akitoshi Kawamura (Univ. of Tokyo)♯ Kenshi Miyabe (Univ. of Tokyo) Polynomial-time randomness and differentiability ····· 15

7 Toshihiko Kurata (Hosei Univ.)♯ Sheaf-theoretical representation of concrete domains ····· 15

8 Ryo Kashima (Tokyo Tech)♯ Shu Iwanami (Tokyo Tech) On axiomatizations of subsystems of the full computation tree logic CTL* ····· 15

9 Nobu-Yuki Suzuki (Shizuoka Univ.)♯ The Prawitz–Doorman term existence property in intermediate predicate logics ····· 20

September 27th (Fri) Conference Room IX

10:00–11:25

10 Takashi Oyabu Fundamental thoughts ····· 5

11 Makoto Kikuchi (Kobe Univ.)♯ Taishi Kurahashi (Kobe Univ.) On proofs of the incompleteness theorem based on liar-type inconsistency ····· 10

12 Taishi Kurahashi (Kobe Univ.)♯ Formalizations of Yablo's paradox using Rosser's provability predicates ····· 15

13 Yoshihiro Horihata ♯ (Yonago Nat. Coll. of Tech.) Kojiro Higuchi (Chiba Univ.) Theories of concatenation and weak essentially undecidable theories ····· 10

14 Yoshihiro Abe (Kanagawa Univ.)♯ Unbounded sets of $\mathcal{P}_\kappa\lambda$ with cardinality $< \lambda^{<\kappa}$ ····· 15

15 Teruyuki Yorioka (Shizuoka Univ.)♯ A comment on Asperó–Mota iteration ····· 15

16 Yu-ichi Tanaka (Univ. of Tsukuba)♯ Akito Tsuboi (Univ. of Tsukuba) A new method for constructing real closed fields ····· 10

11:30–12:00 Research Section Assembly

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

Koichiro Ikeda (Hosei Univ.)♯ On generic structures

Algebra

September 24th (Tue) Conference Room I

9:00–12:00

1 Yasutoshi Nomura * On divisibility of differences of binomial coefficients ····· 10

2 Fuminori Kawamoto (Gakushuin Univ.)♯, Yasuhiro Kishi (Aichi Univ. of Edu.), Hiroshi Suzuki (Nagoya Univ.), Koshi Tomita (Meijo Univ.) Continued fraction expansions with even period and primary symmetric parts with extremely large end ····· 15

3 Fuminori Kawamoto (Gakushuin Univ.)♯, Yasuhiro Kishi (Aichi Univ. of Edu.), Hiroshi Suzuki (Nagoya Univ.), Koshi Tomita (Meijo Univ.) Construction of primary symmetric parts of extremely large end ····· 15

4 Soichi Ikeda (Nagoya Univ.) *, Kaneaki Matsuoka (Nagoya Univ.), Yoshikazu Nagata (Nagoya Univ.) Mean values of the double zeta function ····· 10

5 Shin-ya Koyama (Toyo Univ.)♯, Fumika Suzuki (Univ. of British Columbia) The deep Riemann hypothesis for Selberg zeta functions ····· 10

6 Yoshikatsu Yashiro (Nagoya Univ.)♯ Mertens' theorem and prime number theorem for Selberg class ····· 10

7 Takahiro Wakasa (Nagoya Univ.) * Explicit supremum of the function $S_1(t)$ in short intervals on the Riemann Hypothesis ····· 10

8 Tomokazu Onozuka (Nagoya Univ.)♯ The asymptotic behavior of multiple zeta-functions at non-positive integers ····· 10

9 Takuya Okamoto (Ritsumeikan Univ.)♯, Tomokazu Onozuka (Nagoya Univ.) Mean value theorems for the Mordell–Tornheim double zeta-function ····· 15

10 Ryo Tanaka (Nagoya Univ.)♯ Functional equations for general multiple zeta functions including Hurwitz–Lerch and Mordell–Tornheim types ····· 15

11 Daisuke Shiomi (Yamagata Univ.) * Non-ordinary cyclotomic function fields ····· 10

12 Takeshi Kurosawa (Tokyo Univ. of Sci.)♯ Transcendence of infinite products with Fibonacci numbers ····· 10

13 Yohei Tachiya (Hirosaki Univ.)♯ Irrationality of Lambert series associated with periodic sequence ····· 10

14:15–16:45

14 Hirofumi Nagoshi (Gunma Univ.) * Independence of L-functions and the Nevanlinna characteristic ····· 10

15 Hidehiko Mishou (Tokyo Denki Univ.) * Examples of any number of automorphic L-functions with joint universality property ····· 10
Hirofumi Nagoshi (Gunma Univ.)

16 Takehito Yoshiki (Univ. of Tokyo) ♯ A general formula for the discriminant of polynomials over $\mathbb{F}_2$ determining the parity of the number of prime factors ····· 10

17 Keisuke Arai (Tokyo Denki Univ.) * Non-existence of elliptic points on Shimura curves of $\Gamma_0(p)$-type ····· 15

18 Kenichi Shimizu * Imaginary quadratic fields whose exponents are equal to two ····· 10
(Kenmei Girls' Junior and Senior High School)

19 Jerome T. Dimabayao (Kyushu Univ.) ♯ On the vanishing of cohomologies of p-adic Galois representations associated with elliptic curves ····· 15

20 Yuken Miyasaka (Tohoku Univ.) ♯ Honda theory for formal groups of abelian varieties over $\mathbb{Q}$ of GL_2-type ····· 10

21 Hiroshi Sakata * A remark on the trace formula for Jacobi forms of prime power level ····· 15
(Waseda Univ. Senior High School)

22 Hirotaka Kodama (Kinki Univ.) ♯ A congruence property of a Siegel cusp form of odd weight ····· 10
Shoyu Nagaoka (Kinki Univ.)

23 Takao Watanabe (Osaka Univ.) * A construction of fundamental domains for arithmetic quotients of reductive algebraic groups ····· 10

24 Kohei Katata (Ehime Univ.) * On Ramanujan circulant graphs ····· 15
Miki Hirano (Ehime Univ.)
Yoshinori Yamasaki (Ehime Univ.)

17:00–18:00 Talk invited by Algebra Section

Yuval Flicker ♯ Counting local systems via automorphic forms
(Ohio State Univ. / Ariel Univ.)

September 25th (Wed) Conference Room I

9:00–12:00

25 Hidefumi Ohsugi (Rikkyo Univ.) ♯ Quadratic toric ideals and quadratic Gröbner bases of graphs ····· 15
Akihiro Shikama (Osaka Univ.)
Kenta Nishiyama (Univ. of Shizuoka)
Takayuki Hibi (Osaka Univ.)

26 David A. Cox (Amherst Coll.) ♯ Some invariants on normality of dilated polytopes ····· 15
Christian Haase
(Goethe-Univ. Frankfurt)
Takayuki Hibi
(Osaka Univ. / JST CREST)
Akihiro Higashitani (Osaka Univ.)

27 Akihiro Higashitani (Osaka Univ.) ♯ Ehrhart polynomials of reflexive polytopes and orthogonal polynomial systems ····· 15

28 Hiroyasu Takeda (Hokkaido Univ.) ♯ For Hilbert basis of semi-group ring associated with the main diagonal sum model ····· 15

29 Masahide Konishi (Nagoya Univ.) ♯ A classification of cyclotomic KLR algebras of type $A_n^{(1)}$ 15

30 Hirotaka Higashidaira (Meiji Univ.) ♯ Sequentially Cohen–Macaulay bipartite graphs and cycle graphs 10

31 Kyouko Kimura (Shizuoka Univ.) * Arithmetical rank of Gorenstein squarefree monomial ideals of height three
Naoki Terai (Saga Univ.) 15

32 Masataka Tomari (Nihon Univ.) * On Demazure's construction of finite Abelian coverings of normal graded rings 15

33 Yusuke Nakajima (Nagoya Univ.) ♯ Dual F-signature of Cohen–Macaulay modules over cyclic quotient surface singularities 15

34 Manabu Matsuoka * Rings with direct summand conditions and linear codes 10
(Osaka Shoin Women's Univ.)

35 Noritsugu Kameyama (Shinshu Univ.) ♯ Constructions of Auslander–Gorenstein local rings 10
Mitsuo Hoshino (Univ. of Tsukuba)
Hirotaka Koga (Univ. of Tsukuba)

13:15–14:15 Talk invited by Algebra Section

Shunsuke Takagi (Univ. of Tokyo) ♯ F-singularities and singularities in the minimal model program

September 26th (Thu) Conference Room I

9:00–11:25

36 Sho Matsuzawa (Shizuoka Univ.) ♯ Classification of 3-dimensional quadratic AS-regular algebras 10
Gahee Kim (Shizuoka Univ.)
Hidetaka Matsumoto (Shizuoka Univ.)

37 Kenta Ueyama (Shizuoka Univ.) ♯ Finite Cohen–Macaulay representation type and noncommutative graded isolated singularities 15

38 Takahiko Furuya (Meikai Univ.) ♯ Some self-injective algebras with finite Hochschild cohomology 10
Takao Hayami (Hokkai-Gakuen Univ.)

39 Hirotaka Koga (Univ. of Tsukuba) ♯ Finiteness of selfinjective dimension and associated invariants under derived equivalences 15

40 Daiki Obara (Tokyo Univ. of Sci.) ♯ One point extension of a quiver algebra defined by two cycles and a quantum-like relation 10

41 Yasuhiko Takehana ♯ A generalization of Goldie torsion theory 10
(Hakodate Nat. Coll. of Tech.)

42 Ryo Kanda (Nagoya Univ.) Atom spectrum and classification of subcategories 15

43 Kenichi Shimizu (Nagoya Univ.) ♯ Canonical pivotal objects in finite tensor categories 15

44 Hiroaki Komatsu * A characterization of coseparable corings by generalized coderivations
(Okayama Pref. Univ.) 10

45 Yuji Tsuno (Chiba Inst. of Tech.) * Central cleft extensions for free Hopf algebras 15

11:30–12:00 Research Section Assembly

14:15–16:00

46 Takashi Niwasaki (Ehime Univ.) * A characterization of exceptional 2-groups by the numbers of the endomorphisms ····· 10
Tsunenobu Asai (Kinki Univ.)

47 Akihiko Hida (Saitama Univ.) * On the mod p cohomology of the extraspecial p-group and the action of the double Burnside algebra ····· 10

48 Shigeo Koshitani (Chiba Univ.) The Alperin weight conjecture and Broue conjecture in modular representation theory ····· 15
Radha Kessar (City Univ. London)
Markus Linckelmann (City Univ. London)

49 Shigeo Koshitani (Chiba Univ.) Broue's abelian defect group conjecture for finite sporadic simple groups ····· 15
Jürgen Müller (RWTH Aachen Univ.)
Felix Noeske (RWTH Aachen Univ.)

50 Takanori Sakamoto * Some properties of factorized Lie algebras ····· 10
(Fukuoka Univ. of Edu.)
Masanobu Honda
(Nigata Univ. of Pharm. & App. Life Sci.)

51 Masanari Okumura (Univ. of Tokyo) ♯ Vertex algebras and the equivariant Lie algebroid cohomology ····· 15

52 Kazuya Kawasetsu (Univ. of Tokyo) * The intermediate vertex subalgebras of the lattice vertex operator algebras ····· 15

16:15–17:15 Talk invited by Algebra Section

Masahiko Miyamoto ♯ On orbifold conjecture about vertex operator algebras
(Univ. of Tsukuba)

September 27th (Fri) Conference Room I

9:30–12:00

53 Hiroko Yanaba (Hiroo Gakuen) ♯ On pseudo primes ····· 10
Inoru Shioya (Hiroo Gakuen)

54 Shigeru Iitaka (Gakushuin Univ.*) ♯ Hartshorne's identities and their applications 2 ····· 15

55 Kenta Watanabe (Osaka Univ.) * On extensions of a double covering of plane curves and Weierstrass semigroups of the double covering type ····· 10

56 Masaaki Homma (Kanagawa Univ.) ♯ Numbers of points of surfaces in the projective 3-space over finite fields ····· 15

57 Shinya Kitagawa * On certain pencils of plane curves of degree thirteen with a quintuple point and nine quadruple points II ····· 15
(Gifu Nat. Coll. of Tech.)

58 Shingo Taki (Tokyo Denki Univ.) * On Oguiso's $K3$ surface ····· 15

59 Humihiko Watanabe * Twisted cohomology groups associated to configuration of two theta divisors on Jacobian variety of dimension 2 ····· 10
(Kitami Inst. of Tech.)

60 Hiromu Tanaka (Kyoto Univ.) Cone theorem and minimal models for threefolds in positive characteristic ····· 15

61 Katsuhisa Furukawa (Waseda Univ.) ♯ Cohomological characterization of hyperquadrics of odd dimensions in characteristic two ····· 15

62 Michio Amano ♯ On the kernels of certain homomorphisms of the Witt vectors ····· 10

14:15–15:30

63 Aiichi Yamasaki (Kyoto Univ.) ♯ Rationality of $z^2 = P(x)y^2 + Q(x)$ ····· 10

64 Tatsuki Hayama (National Tsing Hua Univ.) ♯ Boundary component structure of period domains ····· 15

65 Tomohiro Iwami (Kyushu Sangyo Univ.) * A Variant of Iskovskikh's rationality criterion for conic bundles in the case of polarized (log) pairs ····· 10

66 Roberto Muñoz (Univ. Rey Juan Carlos) * Rational curves, Dynkin diagrams and Fano manifolds with nef tangent bundle ····· 15
Gianluca Occhetta (Univ. di Trento)
Luis Eduardo Solá Conde (Univ. Rey Juan Carlos)
Kiwamu Watanabe (Saitama Univ.)
Jarek Wiśniewski (Warsaw Univ.)

67 Kazunori Yasutake (Meiji Univ.) * On Fano n-folds with nef vector bundle $\Lambda^3 T_X$ having a birational contraction ····· 10

68 Sinichi Matsumura (Kagoshima Univ.) ♯ A Nadel vanishing theorem for metrics with minimal singularities on big line bundles ····· 10

15:45–16:45 Talk invited by Algebra Section

Yoshiaki Fukuma (Kochi Univ.) ♯ A study on the dimension of global sections of adjoint bundles by invariants of quasi-polarized varieties

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Geometry

September 24th (Tue) Conference Room VI

9:15–12:00

1 Hiroaki Izumi (Elpida Memory, Inc.) ♯ The elucidation of the business cycle as a phase transition II ····· 10

2 Tetsuya Nagano (Univ. of Nagasaki) ♯ On the tangent vector of geodesics in Finsler space ····· 10

3 Tomonori Fukunaga (Hokkaido Univ.) * Evolutes and involutes of fronts ····· 15
Masatomo Takahashi (Muroran Inst. of Tech.)

4 Yoshinori Machida (Numazu Nat. Coll. of Tech.) * Geometry of conformal triality from the D_4 diagram and singularities ····· 15
Goo Ishikawa (Hokkaido Univ.)
Masatomo Takahashi (Muroran Inst. of Tech.)

5 Goo Ishikawa (Hokkaido Univ.) ♯ Singular path duality for Cartan distributions from geometric control theory ····· 15
Yumiko Kitagawa (Oita Nat. Coll. of Tech.)
Wataru Yukuno (Hokkaido Univ.)

6 Sadahiro Maeda (Saga Univ.) ♯
Hiromasa Tanabe (Matsue Coll. of Tech.)
Sectional curvatures of ruled real hypersurfaces in a nonflat complex space form ····· 10

7 Sadahiro Maeda (Saga Univ.) ♯
Hiromasa Tanabe (Matsue Coll. of Tech.)
Byung Hak Kim (Kyung Hee Univ.)
Normal real hypersurfaces in a nonflat complex space form ····· 15

8 Aya Ishizeki (Saitama Univ.) *
Takeyuki Nagasawa (Saitama Univ.)
Decomposition of the Möbius energy and its Möbius invariance ····· 15

9 Ryosuke Mineyama (Osaka Univ.) ♯
On Cannon–Thurston maps for Coxeter groups ····· 15

10 Akihiro Higashitani (Osaka Univ.) ♯
Ryosuke Mineyama (Osaka Univ.)
Norihiro Nakashima (Hokkaido Univ.)
Asymptotic behavior of roots of infinite Coxeter groups ····· 15

14:15–16:00

11 Tomoaki Yatsui ♯
On the prolongation of sub-conformal fundamental graded Lie algebras ····· 10

12 Yuto Imai (Waseda Univ.) ♯
Tosiaki Kori (Waseda Univ.)
On the quarternification of the Lie algebra $Map(S^3, \mathfrak{g})$ and its extensions ····· 10

13 Takahiro Hashinaga (Hiroshima Univ.) ♯
Akira Kubo (Hiroshima Univ.)
Hiroshi Tamaru (Hiroshima Univ.)
Homogeneous Ricci soliton hypersurfaces in complex hyperbolic spaces ····· 10

14 Hiroyuki Tasaki (Univ. of Tsukuba) *
Antipodal sets in oriented real Grassmann manifolds ····· 10

15 Jost-Hinrich Eschenburg (Univ. of Augsburg) *
Peter Quast (Univ. of Augsburg)
Makiko Tanaka (Tokyo Univ. of Sci.)
Maximal tori of extrinsic symmetric spaces and meridians ····· 15

16 Yuriko Umemoto (Osaka City Univ.) ♯
Growth rates of cocompact hyperbolic Coxeter groups and 2-Salem numbers ····· 15

17 Yu Kitabeppu (Tohoku Univ.) ♯
Dirichlet problem on graphs with nonnegative Ricci curvature ····· 10

18 Hikaru Yamamoto (Univ. of Tokyo) ♯
Type I singularities of mean curvature flows over cone manifolds ····· 10

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

Hisashi Kasuya (Tokyo Tech) ♯
Cohomologies and deformations of solvmanifolds

September 25th (Wed) Edu. Bldg.2, Large Lect. Room

10:30–10:45 Presentation Ceremony for 2013 Geometry Prize

10:50–11:50 Award Lecture for 2013 Geometry Prize

Katsutoshi Yamanoi (Tokyo Tech) ♯
Value distribution of derivatives of meromorphic functions

13:15–14:15 Award Lecture for 2013 Geometry Prize

Toshitake Kohno (Univ. of Tokyo) ♯
Braids, quantum symmetry and hypergeometric integrals

September 26th (Thu) Conference Room VI

9:00–12:00

19 Kiyohisa Tokunaga (Fukuoka Inst. of Tech.) ♯ Triangular integrals for 2-, 3- and 4-variable functions ····· 15

20 Yoshio Agaoka (Hiroshima Univ.) * Langr's problem and the similarity invariants of quadrangles ····· 15

21 Jin-ichi Itoh (Kumamoto Univ.) * Every graph is a cut locus ····· 15
Costin Vîlcu (IMAR, Bucharest)

22 Ayato Mitsuishi (Tohoku Univ.) * A de Rham's theorem of metric spaces ····· 15

23 Ayato Mitsuishi (Tohoku Univ.) * Stability of strongly Lipschitz contractible balls in Alexandrov spaces
Takao Yamaguchi (Univ. of Tsukuba) ····· 10

24 Tetsu Toyoda (Suzuka Nat. Coll. of Tech.) * Optimal realizations with respect to nonlinear spectral gaps ····· 15
Takefumi Kondo (Tohoku Univ.)

25 Takefumi Kondo (Tohoku Univ.) * $\mathrm{Cycl}_k(0)$ space and Wir_k space ····· 10
Tetsu Toyoda
(Suzuka Nat. Coll. of Tech.)

26 Masato Mimura (Tohoku Univ.) * Multi-way isoperimetries, expanders, and finite Cayley graphs ····· 15

27 Masato Mimura (Tohoku Univ.) * Extrapolation of Banach spectral gaps of finite graphs ····· 15

28 Naotaka Kajino (Kobe Univ.) ♯ Geometry of the measurable Riemannian structure on the Sierpiński gasket: structure of geodesics and lower unbounded Ricci curvature ····· 15

29 Yushi Okitsu (Tokyo Tech) ♯ The construction of non-compact toric Kähler manifolds and its applications ····· 10

30 Hiroshi Iriyeh (Tokyo Denki Univ.) * Homological rigidity of Lagrangian submanifolds of a complex projective space with an intermediate minimal Maslov number ····· 15

14:15–16:00

31 Mitsuhiro Itoh (Univ. of Tsukuba) ♯ Quaternionic mean curvature of horospheres in quaternionic Kähler Hadamard manifolds ····· 15
Hiroyasu Satoh (Tokyo Denki Univ.)
Young Jin Suh (Kyungpook Nat. Univ)

32 Mitsuhiro Imada (Keio Univ.) ♯ Complex almost contact metric structures on $S^{4p+3} \times S^{4q+3}$ ····· 15

33 Shin Kikuta (Sophia Univ.) The limits on boundary of orbifold Kähler–Ricci flows and Kähler–Einstein metrics over quasi-projective manifolds ····· 15

34 Yohsuke Imagi (Kyoto Univ.) * A topological characterization of Lawlor necks ····· 15

35 Masashi Hamanaka (Nagoya Univ.) ♯ ADHM construction of noncommutative instantons ····· 15
Toshio Nakatsu (Setsunan Univ.)

36 Kenta Hayano (Osaka Univ.) ♯ Logarithmic transformations and generalized complex structures of 4-manifolds ····· 15
Ryushi Goto (Osaka Univ.)

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

Shoichi Fujimori (Okayama Univ.) ♯ Zero mean curvature embeddings in the Lorentz–Minkowski 3-space

Complex Analysis

September 26th (Thu) Conference Room III

10:00–12:00

1 Kiyoki Tanaka (Osaka City Univ.)♯ Representations and interpolating sequence for harmonic Bergman functions ····· 10

2 Tatsuhiro Honda (Hiroshima Inst. of Tech.)♯ Starlike harmonic mappings on the unit disc ····· 15
Hidetaka Hamada (Kyushu Sangyo Univ.)
Kwang Ho Shon (Pusan Nat. Univ.)

3 Hideki Miyachi (Osaka Univ.)♯ Unification of extremal length geometry of Teichmüller space via intersection number and its application ····· 15

4 Yohei Komori (Waseda Univ.)* On degenerate families of Riemann surfaces over elliptic curves ····· 15

5 Masahiro Yanagishita (Waseda Univ.)♯ Introduction of a complex structure on the p-integrable Teichmüller space —application of a partition of the unit disk by fundamental regions ····· 15

6 Shunsuke Morosawa (Kochi Univ.)♯ Dynamical convergence of a certain polynomial family to $f_a(z) = z + e^z + a$ ····· 15

14:15–15:00

7 Yûsuke Okuyama (Kyoto Inst. Tech.)♯ Equilibrium measures and ergodic properties for uniformly quasiregular dynamics ····· 10

8 Yûsuke Okuyama (Kyoto Inst. Tech.)♯ A rescaling principle for an isolated essential singularity of a quasiregular mapping ····· 10

9 Yûsuke Okuyama (Kyoto Inst. Tech.)♯ Accumulation of periodic points in local uniformly quasiregular dynamics ····· 10

15:10–16:10 Talk invited by Complex Analysis Section

David Drasin (Purdue Univ.)♯ Sharpness of Rickman's Picard theorem

September 27th (Fri) Conference Room III

9:00–10:45

10 Katsusuke Nabeshima (Univ. of Tokushima)♯ On the computation of Tjurina stratification using local cohomology with parameters ····· 15
Shinichi Tajima (Univ. of Tsukuba)

11 Shinichi Tajima (Univ. of Tsukuba)* Newton filtration and local cohomology ····· 15

12 Shizuo Nakane (Tokyo Polytechnic Univ.)♯ Relations between saddle sets for Axiom A polynomial skew products on $\mathbb{C}^2$ ····· 15

13 Akio Kodama (Kanazawa Univ.)* On the holomorphic automorphism group of a generalized complex ellipsoid ····· 15

14 Yoshikazu Nagata (Nagoya Univ.)♯ On Hölder type estimates for $\bar{\partial}$ on infinite type convex domains ····· 10

15 Yukitaka Abe (Univ. of Toyama)* A generalization of Weierstrass' $\wp$-function to quasi-abelian varieties ····· 15
Atsuko Kogie (Univ. of Toyama)

11:00–12:00 Talk invited by Complex Analysis Section

Tetsuo Ueda (Kyoto Univ.)♯ Semi-parabolic fixed points and their bifurcations in complex dimension 2

Functional Equations

September 24th (Tue) Conference Room II

9:20–12:00

1 Mika Tanda (Kinki Univ.)♯
Takashi Aoki (Kinki Univ.)
Borel sums of the Voros coefficients of the Gauss hypergeometric differential equation in all Stokes regions ····· 15

2 Toshinori Takahashi (Kinki Univ.)♯
Mika Tanda (Kinki Univ.)
Takashi Aoki (Kinki Univ.)
The Voros coefficients of the confluent hypergeometric differential equations ····· 15

3 Kohei Iwaki (Kyoto Univ.)♯
Quasi-linear Stokes phenomenon for the second Painlevé transcendents and the exact WKB analysis ····· 15

4 Yoshikatsu Sasaki (Hiroshima Univ.)♯
Value distribution of the string equation of type (2,5) ····· 10

5 Kunihiko Taniguchi *
(Kokuranishi High School)
Permanence for a nonautonomous Lotka–Volterra competition system with finite delays ····· 10

6 Ichiro Tsukamoto (Toyo Univ.)*
On asymptotic behaviour of positive solutions of $x'' = -t^{-\alpha/2-2}x^{1+\alpha}$ ($\alpha > 0$) ····· 15

7 Masakazu Onitsuka ♯
(Okayama Univ. of Sci.)
Attractivity and stability for two-dimensional nonautonomous half-linear differential systems ····· 10

8 Kodai Fujimoto (Osaka Pref. Univ.)♯
Naoto Yamaoka (Osaka Pref. Univ.)
Global existence of solutions for second-order nonlinear differential equations ····· 15

9 Hideaki Matsunaga (Osaka Pref. Univ.)♯
Asymptotic behavior of solutions of integral equations with infinite delay ····· 15

10 Toshiki Naito ♯
(Univ. of Electro-Comm.*)
Rinko Miyazaki (Shizuoka Univ.)
Jong Son Shin (Hosei Univ.)
Dohan Kim (Seoul Nat. Univ.)
Periodic solutions and its successive approximations in nonlinear oscillations ····· 15

14:15–16:30

11 Satoshi Tanaka (Okayama Univ. of Sci.)♯
A note on the symmetry-breaking and Morse index for positive solutions of one-dimensional Hénon type equations ····· 15

12 Tomoyuki Tanigawa (Kumamoto Univ.)♯
On the existence of generalized regularly varying solutions of second order half-linear functional differential equations ····· 15

13 Jitsuro Sugie (Shimane Univ.)♯
Asymptotical stability of a simple pendulum affected by viscous pressure resistance ····· 15

14 Kazuyuki Yagasaki (Hiroshima Univ.)♯
Bifurcation diagram of interior single-peak solutions in the Neumann problem of $u'' + \lambda(-u + u^p) = 0$ ($p > 1$ is a real number) ····· 15

15 Tetsutaro Shibata (Hiroshima Univ.) ♯ Global and local behavior of bifurcation curve for semilinear eigenvalue problem ····· 15

16 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 for cubic nonlinear equations with nonlocal constraint ····· 15

17 Shingo Takeuchi ♯ (Shibaura Inst. of Tech.) Basis problems of generalized Jacobian elliptic functions ····· 15

18 Hiroyuki Usami (Gifu Univ.) Yutaka Kamimura (Tokyo Univ. of Marine Sci. and Tech.) Inverse blow-up time problem ····· 15

16:45–17:45 Talk invited by Functional Equations Section

Hayato Chiba (Kyushu Univ.) ♯ The Painlevé equations on weighted projective spaces

September 25th (Wed) Conference Room II

9:00–12:00

19 Fumio Hiroshima (Kyushu Univ.) ♯ Lieb–Thirring bound for Schrödinger operator with a Bernstein function of Laplacian ····· 15

20 Yuya Dan (Matsuyama Univ.) ♯ Lieb–Thirring inequalities for Schrödinger operators ····· 15

21 Hiroaki Niikuni (Doshisha Univ.) * On the spectrum of periodic Schrödinger operators on a nanotube with δ-δ-δ vertex conditions ····· 15

22 Takuya Watanabe (Ritsumeikan Univ.) ♯ Jiichiroh Urabe (Doshisha Univ.) Characterization of PDE reducible to ODE under a certain homogeneity and applications to singular Cauchy problems ····· 15

23 Aya Ishizeki (Saitama Univ.) * Takeyuki Nagasawa (Saitama Univ.) Decomposition of the Möbius energy and its variational formula ····· 10

24 Daisuke Naimen (Osaka City Univ.) ♯ Positive solutions of Kirchhoff type elliptic equations involving a critical Sobolev exponent ····· 15

25 Daisuke Naimen (Osaka City Univ.) ♯ Ryuji Kajikiya (Saga Univ.) Two sequences of solutions for indefinite superlinear-sublinear elliptic equations with nonlinear boundary conditions ····· 15

26 Mieko Tanaka (Tokyo Univ. of Sci.) * Dumitru Motreanu (Univ. de Perpignan) Generalized eigenvalue of nonhomogeneous elliptic operators ····· 15

27 Mieko Tanaka (Tokyo Univ. of Sci.) * Existence of the generalized Fučík spectrum for nonhomogeneous elliptic operators ····· 15

28 Ryuji Kajikiya (Saga Univ.) ♯ Partially symmetric solutions of the generalized Hénon equation ····· 15

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

Naohito Tomita (Osaka Univ.) ♯ On the boundedness of bilinear Fourier multiplier operators

September 26th (Thu) Conference Room II

9:00–12:00

29 Masataka Shibata (Tokyo Tech) ♯
Yohei Sato
(Tokyo Tech / Osaka City Univ.)
The existence of a positive solution to semilinear elliptic equations with periodic potential ····· 15

30 Atsushi Kosaka (Osaka Pref. Univ.) ♯
Bifurcation of solutions to semilinear elliptic problems on caps of $\mathbf{S}^2$ ····· 15

31 Francesca Gladiali ♯
(Univ. degli Studi di Sassari)
Massimo Grossi
(Univ. di Roma, La Sapienza)
Hiroshi Ohtsuka (Kanazawa Univ.)
Takashi Suzuki (Osaka Univ.)
Morse indices of multiple blow-up solutions to the Gel'fand problem ····· 15

32 Kousuke Kuto ♯
(Univ. of Electro-Comm.)
Tohru Tsujikawa (Univ. of Miyazaki)
Coexistence steady-states of the Lotka–Volterra competition model with diffusion and advection ····· 15

33 Yasuhito Miyamoto (Univ. of Tokyo) ♯
Structure of the positive radial solutions for the supercritical Neumann problem $\varepsilon^2\Delta u - u + u^p = 0$ in a ball ····· 10

34 Futoshi Takahashi (Osaka City Univ.) ♯
Asymptotic behavior of least energy solutions for a 2D nonlinear Neumann problem with large exponent ····· 12

35 Ryuji Kajikiya (Saga Univ.) ♯
Goro Akagi (Kobe Univ.)
Stability of stationary solutions for a sublinear parabolic equation ···· 15

36 Takefumi Igarashi (Nihon Univ.) *
Life span of solutions for a quasilinear parabolic equation with initial data having positive limit inferior at infinity ····· 15

37 Jin Takahashi (Tokyo Tech) ♯
Eiji Yanagida (Tokyo Tech)
Removability of time-dependent singularities in the heat equation ···· 10

38 Yoshihito Kohsaka ♯
(Muroran Inst. of Tech.)
Yan-Yu Chen (Tamkang Univ.)
Hirokazu Ninomiya (Meiji Univ.)
Traveling spots of singular limit problems of FitzHugh–Nagumo type equations ····· 10

39 Masaharu Taniguchi (Okayama Univ.) ♯
An N-dimensional traveling front solution in the Allen–Cahn equation associated with an $(N-2)$-dimensional surface ····· 15

14:15–16:30

40 Keisuke Takasao (Hokkaido Univ.) *
Existence of mean curvature flow with external force term ····· 10

41 Hiroyoshi Mitake (Fukuoka Univ.) *
Hung Vinh Tran (Univ. of Chicago)
A dynamical approach to the large-time behavior of solutions to weakly coupled systems of Hamilton–Jacobi equations ····· 10

42 Hiroyoshi Mitake (Fukuoka Univ.) *
Filippo Cagnetti (Univ. of Sussex)
Diogo Gomes
(Univ. Tecnica de Lisboa / KAUST)
Hung Vinh Tran (Univ. of Chicago)
The large-time asymptotic analysis by a nonlinear adjoint technique: semilinear degenerate parabolic equations ····· 10

43 Masakazu Yamamoto (Hirosaki Univ.) *
Space-time structure of solutions to the drift-diffusion equation with anomalous diffusion ····· 15

44 Tsukasa Iwabuchi (Chuo Univ.) * Ill-posedness for the drift diffusion system of bipolar type 15
Takayoshi Ogawa (Tohoku Univ.)

45 Tetsuya Yamada * Non-trivial ω-limit sets and oscillating solutions in a chemotaxis model in $\mathbb{R}^2$ with critical mass 15
(Fukui Nat. Coll. of Tech.)
Julián López-Gómez
(Univ. Complutense de Madrid)
Toshitaka Nagai (Hiroshima Univ.)

46 Sachiko Ishida (Tokyo Univ. of Sci.) ♯ Global-in-time bounded solutions to degenerate Keller–Segel systems with chemotaxis sensitivity 15
Xinru Cao
(Univ. Paderborn / Dalian Univ. of Tech.)

47 Kentarou Fujie (Tokyo Univ. of Sci.) ♯ Global existence and boundedness of solutions to Keller–Segel systems with signal-dependent sensitivity 15
Michael Winkler (Univ. Paderborn)
Tomomi Yokota (Tokyo Univ. of Sci.)

48 Noriko Mizoguchi ♯ Boundedness of global solutions in the two-dimensional parabolic Keller–Segel system 15
(Tokyo Gakugei Univ.)
Michael Winkler (Univ. of Paderborn)

16:45–17:45 Talk invited by Functional Equations Section

Shuji Machihara (Saitama Univ.) ♯ On the Cauchy problems for the system of Dirac equations with quadratic nonlinearities in 1d

September 27th (Fri) Conference Room II

9:00–12:00

49 Yusuke Sugiyama (Tokyo Univ. of Sci.) ♯ Remark on global solvability for some 1-D quasilinear wave equation 10

50 Yuta Wakasugi (Osaka Univ.) * Blow-up of solutions to the semilinear wave equation with damping depending on time and space variables 10

51 Mohammad Rammaha * Blow-up of solutions to semilinear wave equations with non-zero initial data 10
(Univ. of Nebraska–Lincoln)
Hiroyuki Takamura
(Future Univ.-Hakodate)
Hiroshi Uesaka (Nihon Univ.)
Kyouhei Wakasa (Hokkaido Univ.)

52 Takamori Kato (Nagoya Univ.) ♯ Unconditional well-posedness of the fourth order Schrödinger equation with periodic boundary condition 10

53 Nobu Kishimoto (Kyoto Univ.) ♯ Unconditional well-posedness for the periodic cubic nonlinear Schrödinger equation 15

54 Satoshi Masaki (Hiroshima Univ.) ♯ On minimal blow-up solution for L^2 subcritical nonlinear Schrödinger equation 15

55 Mamoru Okamoto (Kyoto Univ.) ♯ Ill-posedness for the Chern–Simons–Dirac system in one dimension ... 10
Shuji Machihara (Saitama Univ.)

56 Kazumasa Fujiwara (Waseda Univ.) ♯ Well posedness of the Cauchy problem for a semirelativistic system with quadratic nonlinearity 15
Shuji Machihara (Saitama Univ.)
Tohru Ozawa (Waseda Univ.)

57 Hiroyuki Hirayama (Nagoya Univ.)♯ Well-posedness for a system of quadratic derivative nonlinear Schrödinger equations at the scaling critical regularity ····· 15

58 Tomoya Kato (Nagoya Univ.)* The global Cauchy problems for the nonlinear dispersive equations on modulation spaces ····· 10

59 Gaku Hoshino (Waseda Univ.)♯, Tohru Ozawa (Waseda Univ.) Analytic smoothing effect for a system of nonlinear Schrödinger equations ····· 15

60 Nakao Hayashi (Osaka Univ.)* Scattering problem for the supercritical nonlinear Schrödinger equation in 1d ····· 10

14:15–16:30

61 Masashi Ohnawa (Waseda Univ.)* Asymptotic stability of shock waves in a radiating gas model for initial data with multiple discontinuities ····· 15

62 Yoshiyuki Kagei (Kyushu Univ.)♯, Kazuyuki Tsuda (Kyushu Univ.) Existence and stability of time-periodic solution of the compressible Navier–Stokes equation ····· 15

63 Yasunori Maekawa (Tohoku Univ.)♯, Hideyuki Miura (Osaka Univ.) Remark on the Helmholtz decomposition in domains above Lipschitz graphs ····· 15

64 Helmut Abels (Univ. of Regensburg)♯, Lars Diening (LMU Munich), Yutaka Terasawa (Univ. of Tokyo) Existence of weak solutions for a diffuse interface model of non-Newtonian two-phase flows ····· 15

65 Jan Prüss (Univ. Halle)*, Senjo Shimizu (Shizuoka Univ.), Gieri Simonett (Univ. Vanderbilt), Mathias Wilke (Univ. Halle) Stability of equilibria for incompressible two-phase flows with phase transitions —The case of variable surface tension— ····· 15

66 Hirokazu Saito (Waseda Univ.)♯, Yoshihiro Shibata (Waseda Univ.) On the Stokes equations with surface tension in the half space ····· 10

67 Miho Murata (Waseda Univ.)♯, Yoshihiro Shibata (Waseda Univ.) On the sectorial $\mathcal{R}$-boundedness of the Stokes operator for the compressible viscous fluid flow and its application ····· 10

68 Yoshihiro Shibata (Waseda Univ.)♯, Dario Goetz (atesio GmbH) On the $\mathcal{R}$-boundedness of the solution operators in the study of the compressible viscous fluid flow with free boundary conditions ····· 10

69 Yoshihiro Shibata (Waseda Univ.)♯, Takayuki Kubo (Univ. of Tsukuba), Kohei Soga (Waseda Univ.) On the $\mathcal{R}$-boundedness of solution operators for the compressible-incompressible two phase problem ····· 10

16:45–17:45 Talk invited by Functional Equations Section

Goro Akagi (Kobe Univ.)♯ Asymptotic behavior of solutions for nonlinear diffusion equations

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Real Analysis

September 24th (Tue) Conference Room Ⅲ

9:00–12:05

1 Fumiaki Kohsaka (Oita Univ.)♯ Saddle points of two variable functions and fixed points of nonlinear mappings ····· 15

2 Ryotaro Tanaka (Niigata Univ.) ♯ Orthonormal bases for finite dimensional normed linear spaces ····· 10
Kichi-Suke Saito (Niigata Univ.)

3 Ryotaro Tanaka (Niigata Univ.) ♯ The norm structure of finite dimensional spaces ····· 15
Kichi-Suke Saito (Niigata Univ.)

4 Yasunori Kimura (Toho Univ.) ♯ Convergence of approximate sequences generated by the shrinking projection method with errors ····· 15

5 Sachiko Atsushiba ♯ (Univ. of Yamanashi) Attractive point and convergence theorems for families of nonlinear mappings ····· 15

6 Yasuji Takahashi * (Okayama Pref. Univ.⋆) On a new geometric constant of a Banach space ····· 15
Mikio Kato (Shinshu Univ.)

7 Yasuyuki Oka ♯ (Kushiro Nat. Coll. of Tech.) The Schwartz kernel theorem for the tempered distributions on the Heisenberg group ····· 15

8 Machihara Shuji (Saitama Univ.) ♯ Logarithmic Hardy inequalities on Sobolev–Lorentz–Zygmund spaces in the limiting case ····· 20
Tohru Ozawa (Waseda Univ.)
Hidemitsu Wadade (Gifu Univ.)

9 Takanori Yamamoto * (Hokkai-Gakuen Univ.) Normal singular integral operators with Cauchy kernel on L^2 ····· 15
Takahiko Nakazi
(Hokusei Gakuen Univ.)

10 Toshikazu Watanabe (Niigata Univ.) ♯ Note on the regularity of non-additive meaure ····· 15

11 Jun Kawabe (Shinshu Univ.) ♯ The Choquet integral representation problem ····· 15

14:20–16:15

12 Gaku Sadasue (Osaka Kyoiku Univ.) ♯ Pointwise multipliers on martingale Campanato spaces ····· 15
Eiichi Nakai (Ibaraki Univ.)

13 Gaku Sadasue (Osaka Kyoiku Univ.) ♯ Maximal function on generalized martingale Lebesgue spaces with variable exponent ····· 10
Eiichi Nakai (Ibaraki Univ.)

14 Aoi Honda (Kyushu Inst. of Tech.) ♯ Doubling dimension and Linearity of the sequence space $\Lambda_2(f)$ ····· 15
Yoshiaki Okazaki
(Kyushu Inst. of Tech.)
Hiroshi Sato (Kyushu Univ.⋆)

15 Yoshihiro Sawano (Tokyo Metro. Univ.) ♯ A remark on Morrey spaces for metric measure spaces ····· 10
Tetsu Shimomura (Hiroshima Univ.)

16 Katsuo Matsuoka (Nihon Univ.) ♯ On the boundedness for commutators in B_σ-Morrey spaces ····· 15

17 Hiroki Saito (Tokyo Metro. Univ.) ♯ Directional maximal operators and radial weights on the plane ····· 10
Hitoshi Tanaka (Univ. of Tokyo)

18 Hitoshi Tanaka (Univ. of Tokyo) ♯ A characterization of two-weight trace inequalities for positive dyadic operators in the upper triangle case ····· 15

19 Yuichi Kanjin (Kanazawa Univ.) ♯ On orthogonal polynomial expansions with nonnegative Fourier coefficients ····· 15

16:30–17:30 Talk invited by Real Analysis Section

Shinya Moritoh (Nara Women's Univ.) * Microlocal Besov spaces and dominating mixed smoothness

September 25th (Wed) Conference Room III

9:00–11:55

20 Akio Ito (Kinki Univ.)♯, Kazuhiko Yamamoto (Kinki Univ.) — Large-time behavior of non-negative time-global solutions to ODE system describing cardiac hypertrophy ····· 15

21 Kota Kumazaki ♯ (Tomakomai Nat. Coll. of Tech.) — Large time behavior of a solution for carbon dioxide transport model in concrete carbonation process ····· 15

22 Takesi Fukao (Kyoto Univ. of Edu.)♯, Nobuyuki Kenmochi (Bukkyo Univ.) — Application to nonlinear PDE of the abstract theory of variational inequality ····· 15

23 Yutaka Tsuzuki (Tokyo Univ. of Sci.)♯ — Solvability of p-Laplace heat equations with unbounded obstacles coupled with Navier–Stokes equations ····· 15

24 Shun Uchida (Waseda Univ.)♯, Mitsuharu Ôtani (Waseda Univ.) — The solvability of double-diffusive convection system coupled with Brinkman–Forchheimer equations under the Neumann boundary condition ····· 15

25 Ken Shirakawa (Chiba Univ.)♯, Hiroshi Watanabe (Salesian Polytech.), Jose Salvador Moll (Univ. Valencia) — Smoothing effects and energy disspations for parabolic systems associated with grain boundary motions ····· 15

26 Hiroshi Watanabe (Salesian Polytech.)♯, Ken Shirakawa (Chiba Univ.) — Qualitative properties for a one dimensional grain boundary motion model with degeneracy ····· 15

27 Noriaki Yamazaki (Kanagawa Univ.)♯, Ken Shirakawa (Chiba Univ.) — Control problems of phase field systems associated with total variation energy ····· 15

28 Makoto Nakamura (Yamagata Univ.)* — The Cauchy problem for nonlinear Klein–Gordon equations in de Sitter spacetime ····· 10

29 Makoto Nakamura (Yamagata Univ.)* — Remarks on a weighted energy estimate and its application to nonlinear wave equations in one space dimension ····· 10

30 Yoshifumi Ito (Univ. of Tokushima*)♯ — Fourier transformation of L^2_{loc}-functions and its applications ····· 8

31 Yoshifumi Ito (Univ. of Tokushima*)♯ — What is the impact force? ····· 7

13:00–13:15

32 Yoshifumi Ito (Univ. of Tokushima*)♯ — The study on the phenomena of infinitely deep potential well in the view point of the natural statistical physics ····· 8

33 Yoshifumi Ito (Univ. of Tokushima*) — The study on the motion of the system of free particles in the view point of the natural statistical physics ····· 7

13:20–14:20 Talk invited by Real Analysis Section

Risei Kano (Kochi Univ.)♯ — The existence of solutions for the tumor invasion models

Functional Analysis

September 24th (Tue) Conference Room IV

9:30–11:50

1 Hiroshi Ito (Ehime Univ.)* Dirac operators with potentials with diverging at infinty ····· 15

2 Akito Suzuki (Shinshu Univ.)* Spectral analysis of the Laplacian on a covering graph obtained from the one dimensional lattice by adding pendant vertices ····· 15

3 Akito Suzuki (Shinshu Univ.) Supersymmetric aspects of the Laplacian on the graph obtained from the lattice by adding pendant vertices ····· 15

4 Itaru Sasaki (Shinshu Univ.)♯ Jacobi matrix and the multiplicity of eigenvalues of the non-commutative harmonic oscillator ····· 10

5 Itaru Sasaki (Shinshu Univ.)♯ On the binding condition of the semi-relativistic Pauli–Fierz model ··· 10

6 Fumio Hiroshima (Kyushu Univ.)♯ Spin-boson model through a Poisson-driven stochastic process ····· 15

7 Fumio Hiroshima (Kyushu Univ.)♯ Functional integral approach to semi-relativistic Pauli–Fierz models ·· 10

8 Fumio Hiroshima (Kyushu Univ.)♯ UV renormalization of the Nelson model by functional integrations ··· 10

9 Koichi Kaizuka (Univ. of Tsukuba)♯ A characterization of the L^2-range of the Poisson transform on symmetric spaces of noncompact type ····· 15

14:15–15:15 Talk invited by Functional Analysis Section

Chisato Iwasaki (Univ. of Hyogo)* The symbol of the fundamental solution for the degenerate parabolic operators and its application

September 25th (Wed) Conference Room IV

9:30–11:50

10 Takuya Hosokawa (Ibaraki Univ.)* Shûichi Ohno (Nippon Inst. of Tech.) Differences of weighted composition operators from H^∞ to the Bloch space ····· 10

11 Kouhei Izuchi (Yamaguchi Univ.)♯ Operator inner functions for Rudin type invariant subspaces over the bidisk ····· 15

12 Takeshi Miura (Niigata Univ.)♯ On surjective isometries between function algebras ····· 15

13 Koichi Shimada (Univ. of Tokyo) A classification of flows on AFD factors with faithful Connes–Takesaki modules ····· 15

14 Yusuke Isono (Univ. of Tokyo)♯ Strong solidity of II_1 factors of free quantum groups ····· 15

15 Satoshi Goto (Sophia Univ.)♯ On equivalence classes of irreducible generalized intermediate subfactors of ADE subfactors ····· 10

16 Satoshi Goto (Sophia Univ.)♯ On intermediate subfactors of Goodman–de la Harpe–Jones subfactors ····· 10

17 Toshihiko Masuda (Kyushu Univ.)♯ A sufficient condition for vanishing of an obstruction in orbifold construction ····· 15

September 26th (Thu) Conference Room IV

9:30–12:00

18 Narutaka Ozawa (Kyoto Univ.) ♯ Quantum correlations and Tsirelson's problem ····· 15

19 Takuya Takeishi (Univ. of Tokyo) On nuclearity of C^*-algebras of Fell bundles over étale groupoids ····· 15

20 Hiroyuki Osaka (Ritsumeikan Univ.) ♯ LP property for C*-algebras ····· 15
Dinh Trung Hoa (Duy Tan Univ.)
Ho Minh Toan (Vietnam Acad. Sci. Tech.)

21 Rui Okayasu (Osaka Kyoiku Univ.) ♯ Some properties for free group C*-algebras associated with ℓ_p ····· 15

22 Norio Nawata (Chiba Univ.) ♯ A Rohlin type theorem for trace scaling automorphisms of certain stably projectionless C*-algebras ····· 15

23 Yasuhiko Sato (Kyoto Univ.) ♯ Approximately unitarily equivalent automorphisms of UHF absorbing C*-algebras ····· 15

24 Yuhei Suzuki (Univ. of Tokyo) ♯ Haagerup property for C*-algebras and rigidity of C*-algebras with property (T) ····· 15

25 Kengo Matsumoto * (Joetsu Univ. of Edu.) Topological full groups of C^*-algebras arising from β-expansions ····· 15
Hiroki Matui (Chiba Univ.)

14:15–15:45

26 Tsuyoshi Kajiwara (Okayama Univ.) ♯ Discrete traces on the cores of C*-algebras associated with rational functions ····· 15
Yasuo Watatani (Kyushu Univ.)

27 Yasuo Watatani (Kyushu Univ.) * Transitive Hilbert representations of quivers ····· 15
Masatoshi Enomoto (Koshien Univ.)

28 Reiji Tomatsu (Hokkaido Univ.) ♯ Product type actions of a compact quantum group G_q ····· 15

29 Ryo Tabata (Hiroshima Univ.) ♯ On possible values of generalized matrix functions on the determinant-permanent number line ····· 15

30 Katsuhiko Kikuchi (Kyoto Univ.) ♯ Spherical representations for certain Gelfand pairs ····· 15

16:00–17:00 Talk invited by Functional Analysis Section

Toshihiko Matsuki (Ryukoku Univ.) ♯ Finite-type orbit decompositions of multiple flag varieties for orthogonal groups

September 27th (Fri) Conference Room IV

9:30–12:00

31 Junichi Fujii (Osaka Kyoiku Univ.) ♯ On hyperkähler structure for the 2 by 2 positive-definite matrices ···· 10

32 Noboru Nakamura ♯ (Toyama Nat. Coll. of Tech.) Proofs of operator monotonicity of some functions ····· 15
Saich Izumino

33 Kenjiro Yanagi (Yamaguchi Univ.) ♯ Uncertainty relation of generalized skew information ····· 15
Shigeru Furuichi (Nihon Univ.)
Ken Kuriyama (Bukkyo Univ.)

34 Eizaburo Kamei * — An extension of Tsallis relative operator entropy 15
Hiroshi Isa (Maebashi Inst. of Tech.)
Masatoshi Ito (Maebashi Inst. of Tech.)
Hiroaki Tohyama (Maebashi Inst. of Tech.)
Msayuki Watanabe (Maebashi Inst. of Tech.)

35 Masatoshi Ito (Maebashi Inst. of Tech.) ♯ — Generalizations of operator Shannon inequality based on Tsallis and Rényi relative entropies 15
Hiroshi Isa (Maebashi Inst. of Tech.)
Eizaburo Kamei
Hiroaki Tohyama (Maebashi Inst. of Tech.)
Masayuki Watanabe (Maebashi Inst. of Tech.)

36 Masatoshi Ito (Maebashi Inst. of Tech.) ♯ — Matrix inequalities including grand Furuta inequality via Karcher mean 15

37 Mitsuru Uchiyama (Shimane Univ.) ♯ — A converse of Loewner–Heinz inequality 15

38 Masaru Nagisa (Chiba Univ.) ♯ — The reverse order of operator mean 15
Mitsuru Uchiyama (Shimane Univ.)

39 Takeaki Yamazaki (Toyo Univ.) ♯ — Operator inequality and operator mean 10
Mitsuru Uchiyama (Shimane Univ.)

14:15–15:15 Talk invited by Functional Analysis Section

Yuki Seo (Osaka Kyoiku Univ.) ♯ — Developments of operator geometric means from the viewpoint of Kantorovich inequality

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Statistics and Probability

September 24th (Tue) Conference Room VIII

9:30–12:00

1 Kiyotaka Suzaki (Osaka Univ.) ♯ — Construction of leafwise non-degenerate diffusion processes on foliated spaces via SDE approach and its application 15

2 Takafumi Amaba (Ritsumeikan Univ.) ♯ — On the monotonicity of $\mathcal{L}_0$-cost along backward heat flow 15
Kazumasa Kuwada (Ochanomizu Univ.)

3 Jirô Akahori (Ritsumeikan Univ.) ♯ — A discrete-time Clark–Ocone formula and its application to an error analysis 15
Takafumi Amaba (Ritsumeikan Univ.)
Kaori Okuma (Ritsumeikan Univ.)

4 Masafumi Hayashi ♯ — Hölder continuity property of the densities of SDEs with singular drift coefficients 10
(Univ. of Ryukyus / JST CREST)
Arturo Kohatsu Higa (Ritsumeikan Univ. / JST CREST)
Go Yuki (Ritsumeikan Univ. / JST CREST)

5 Hideki Tanemura (Chiba Univ.)♯ Makoto Katori (Chuo Univ.) Complex Brownian motion representations of non-colliding diffusion processes · · · 10

6 Hideki Tanemura (Chiba Univ.)♯ Strong Markov property of determinantal processes · · · 10

7 Nobuaki Naganuma (Tohoku Univ.)♯ Asymptotic error distributions of the Crank–Nicholson scheme for SDEs driven by fractional Brownian motion · · · 15

8 Shigeyoshi Ogawa (Ritsumeikan Univ.)* Hideaki Uemura (Aichi Univ. of Edu.) Identification of a noncausal Itô process from the stochastic Fourier coefficients · · · 15

9 Naoyuki Ichihara (Hiroshima Univ.)* The generalized principal eigenvalue for ergodic type HJB equations · · · 15

14:15–14:45

10 Naoki Kubota (Nihon Univ.)♯ Rates of convergence in first passage percolation with a weaker condition than exponential tail assumptions · · · 15

11 Yuji Hibino (Saga Univ.)♯ Asymptotic spectral distributions of distance-k graphs of direct product graphs · · · 15

15:00–16:00 Talk invited by Statistics and Probability Section

Makoto Nakashima (Univ. of Tsukuba)♯ Branching random walks in random environment

16:15–17:15 Talk invited by Statistics and Probability Section

Katusi Fukuyama (Kobe Univ.)♯ Uniform distribution theory for geometric progressions

September 25th (Wed) Conference Room VIII

9:15–11:50

12 Hiroki Takahashi (Keio Univ.)* Prevalence of non-uniform hyperbolicity at the first bifurcation of the Hénon family · · · 20

13 Takuya Ikeda (Osaka Univ.)* Takehiko Morita (Osaka Univ.) Central limit theorem for a class of nonsingular transformations with quasi-compact Perron–Frobenius operator · · · 15

14 Makoto Mori (Nihon Univ.)♯ On the essential spectrum of Perron–Frobenius operator · · · 20

15 Naotaka Kajino (Kobe Univ.)♯ (Non-)periodic asymptotic behavior of the heat kernel on Sierpiński carpets · · · 20

16 Yukio Kasahara (Hokkaido Univ.)♯ Akihiko Inoue (Hiroshima Univ.) Mohsen Pourahmadi (Texas A&M Univ.) Matrix-valued rigid functions, kernels of Toeplitz operators and CND processes · · · 15

17 Shunsuke Ihara (Nagoya Univ.*)♯ Asymptotic behavior of error probabilities in information transmission over white Gaussian channel with feedback · · · 15

18 Takaaki Shimura (Inst. of Stat. Math.)♯ A numerical characteristic of extreme values · · · 15

19 Satoshi Suzuki (Shimane Univ.)♯ Daishi Kuroiwa (Shimane Univ.) Surrogate duality for quasiconvex programming with data uncertainty · · · 15

11:50–12:20 Research Section Assembly

September 26th (Thu) Conference Room VIII

9:00–12:00

20 Takayuki Fujii (Shiga Univ.) ♯ Nonparametric estimation for jump Markov processes ····· 15

21 Koji Tsukuda ♯ (Grad. Univ. for Adv. Stud.)
Yoichi Nishiyama (Inst. of Stat. Math./Grad. Univ. for Adv. Stud.)
Z-process methods in ℓ^∞- and L_2-spaces for change point problems ····· 20

22 Teppei Ogihara (Osaka Univ.) ♯ Local asymptotic mixed normality property for nonsynchronously observed diffusion processes ····· 20

23 Ayaka Yagi (Tokyo Univ. of Sci.) ♯
Takashi Seo (Tokyo Univ. of Sci.)
Tests for mean vector and simultaneous confidence intervals with three-step monotone missing data ····· 15

24 Masashi Hyodo (Tokyo Univ. of Sci.) ♯
Takahiro Nishiyama (Senshu Univ.)
Takashi Seo (Tokyo Univ. of Sci.)
On the new test statistic based on linear combination of Dempster statistics and T^2 statistics ····· 15

25 Hiroki Watanabe (Tokyo Univ. of Sci.) ♯
Hyodo Masashi (Tokyo Univ. of Sci.)
Seo Takashi (Tokyo Univ. of Sci.)
A determination of cut-off point for Euclidean distance discriminant rule in high-dimensional data ····· 15

26 Aki Ishii (Univ. of Tsukuba) ♯
Kazuyoshi Yata (Univ. of Tsukuba)
Makoto Aoshima (Univ. of Tsukuba)
On the distribution of the largest eigenvalue via geometric representation in high-dimension, low sample size context ····· 15

27 Kazuyoshi Yata (Univ. of Tsukuba) ♯
Makoto Aoshima (Univ. of Tsukuba)
Asymptotic normality for inference on high-dimensional mean vectors under mild conditions ····· 15

28 Fumiya Akashi (Waseda Univ.) ♯ An empirical likelihood approach toward discriminant analysis for non-Gaussian vector stationary processes ····· 15

29 Yan Liu (Waseda Univ.) ♯ A new way to estimate tail index ····· 15

12:10–12:30 Presentation Ceremony for 2013 Analysis Prize

14:30–15:30 Talk invited by Statistics and Probability Section

Yoichi Nishiyama ♯ (Inst. of Stat. Math./Grad. Univ. for Adv. Stud.)
A stochastic maximal inequality, weak convergence of infinite-dimensional martingales, and semiparametric statistics

15:45–16:45 Talk invited by Statistics and Probability Section

Kouji Yamamoto (Osaka Univ.) ♯ Modelling for square contingency tables and its application

September 27th (Fri) Conference Room VIII

9:15–12:00

30 Kentaro Tanaka (Tokyo Tech) ♯ Algebraic methods for conditional independence inference ····· 15

31 Yoshihide Kakizawa (Hokkaido Univ.) ♯ Third-order average local powers of Bartlett-type adjusted tests: Ordinary versus adjusted profile likelihood ····· 15

32 Yoshihiko Maesono (Kyushu Univ.) ♯ Smoothing of the Wilcoxon's signed rank test ····· 10

33 Yusuke Saigusa (Tokyo Univ. of Sci.) ♯
Kouji Tahata (Tokyo Univ. of Sci.)
Sadao Tomizawa (Tokyo Univ. of Sci.)
Decomposition of symmetry using extended palindromic symmetry models for square contingency tables ····· 10

34 Masanori Sawa (Nagoya Univ.) ♯
A lemma on the eigenvalues of Hermitian matrices and its application 2 —Proof of Fisher's inequality ····· 15

35 Masatake Hirao ♯
(Tokyo Woman's Christian Univ.)
Masanori Sawa (Nagoya Univ.)
Masakazu Jimbo (Nagoya Univ.)
Constructions of optimal rotatable designs on the n-ball ····· 15

36 Sanpei Kageyama *
(Hiroshima Inst. of Tech.)
An affine α-resolvable symmetric triangular design does not exist for any α ····· 10

37 Sanpei Kageyama
(Hiroshima Inst. of Tech.)
Kazuki Matsubara (Hiroshima Univ.)
Some existence of additive cyclic BIB designs ····· 15

38 Takeshi Torii (Osaka Pref. Univ.) *
Shinji Kuriki (Osaka Pref. Univ.)
A nested row-column design with split units constructed by a regular generalized Youden design ····· 10

39 Hiromu Yumiba (Int. Inst. for Nat. Sci.) ♯
Yoshifumi Hyodo
(Okayama Univ. of Sci. / Int. Inst. for Nat. Sci.)
Masahide Kuwada
(Int. Inst. for Nat. Sci.)
Existence conditions for balanced fractional factorial designs of resolution V derived from three-symbol simple arrays (III) ····· 15

40 Yiling Lin (Nagoya Univ.) ♯
Miwako Mishima (Gifu Univ.)
Junya Satoh (Nagoya Univ.)
Masakazu Jimbo (Nagoya Univ.)
Optimal equi-difference conflict-avoiding codes of odd length and weight three ····· 18

Applied Mathematics

September 24th (Tue) Conference Room VII

9:45–12:00

1 Chihiro Matsuoka (Ehime Univ.) ♯
Koichi Hiraide (Ehime Univ.)
Entropy estimation of the Hénon attractor ····· 15

2 Kenta Noguchi (Keio Univ.) ♯
Congruence classes of the monodromy of even triangulations on surfaces ····· 15

3 Valentin Borozan ♯
(Univ. Paris 11 / Hungarian Acad. of Sci.)
Shinya Fujita (Maebashi Inst. of Tech.)
Michitaka Furuya (Tokyo Univ. of Sci.)
Yannis Manoussakis (Univ. Paris 11)
Narayanan N (Indian Inst. Tech.)
Partitioning a graph into highly connected subgraphs ····· 10

4 Iwao Sato (Oyama Nat. Coll. of Tech.) ♯
Hongfeng Wu (Peking Univ.)
Rongquan Feng (Peking Univ.)
The vertex weighted complexity of a graph ····· 15

5 Yutaka Sueyoshi (Nagasaki Univ.) ♯
Ryuichi Harasawa (Nagasaki Univ.)
Aichi Kudo (Nagasaki Univ.⋆)
On the maximal value of break intervals of equitable round-robin tournaments with home-away assignments (II) ····· 15

6 Akane Kawaharada (Hiroshima Univ.) ♯
Inverse ultradiscretization of a two-dimensional nonlinear cellular automaton ····· 15

7 Kousuke Suzuki (Univ. of Tokyo) ♯
An explicit construction of point sets with large minimum Dick weight ····· 15

8 Kenta Ozeki ♯
(Nat. Inst. of Information / JST ERATO)
Condition on the core to be Class 1 ····· 10

14:15–16:30

9 Michitaka Furuya (Tokyo Univ. of Sci.) ♯
Shoichi Tsuchiya (Tokyo Univ. of Sci.)
On monochromatic homeomorphically irreducible trees in 2-edge-colored complete graphs ····· 15

10 Shin Harase (Tokyo Tech) ♯
Ryuichi Ohori (Univ. of Tokyo)
A construction of low-WAFOM point sets based on the digital construction scheme ····· 15

11 Masataka Nakamura (Univ. of Tokyo) ♯
Kenji Kashiwabara (Univ. of Tokyo)
Supersolvable antimatroid lattices and rooteed circuit graphs ····· 15

12 Masataka Nakamura (Univ. of Tokyo) ♯
Kenji Kashiwabara (Univ. of Tokyo)
The idempotence, the exchange property, and the anti-exchange property of monotone extensive operators ····· 15

13 Yasuko Matsui (Tokai Univ.) ♯
Kento Kizaka (Tokai Univ.)
An enumeration algorithm for the optimal cost vertex colorings for trees ····· 15

14 Kazuhiko Ushio (Kinki Univ.) ♯
Balanced (C_9, C_{14})-foil designs and related designs ····· 15

15 Masanori Sawa (Nagoya Univ.) ♯
A lemma on the eigenvalues of Hermitian matrices and its application 1 —Eigenvalues of adjacency matrices and graph decomposition ····· 15

16 Mariko Hagita (Ochanomizu Univ.) ♯
Dispersive coloring polynomials of some graphs ····· 15

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

Masaaki Harada (Yamagata Univ.) ♯
Self-dual codes and related topics

September 25th (Wed) Conference Room VII

9:45–12:00

17 Masahiro Hachimori ♯
(Univ. of Tsukuba)
Kenji Kashiwabara (Univ. of Tokyo)
Simplicial complexes whose restrictions are all shellable, and extendability of shellings ····· 15

18 Kiyoshi Ando (Univ. of Electro-Comm.) ♯
Contractible subgraphs in 5-connected graphs ····· 15

19 Atsuhiro Nakamoto ♯
(Yokohama Nat. Univ.)
Yoshiaki Oda (Keio Univ.)
Tomoki Yamashita (Kinki Univ.)
Mamoru Watanabe
(Kurashiki Univ. of Sci. and Arts)
Balanced partitions on permutations and their application to a geometric problem ····· 15

20 Minoru Fujimoto (Seika Science Lab.)♯ An algorithm for the pair of primes of difference $2d$ and Hardy–Littlewood conjecture ····· 15
Kunihiko Uehara (Tezukayama Univ.)

21 Minoru Fujimoto (Seika Science Lab.)♯ An algorithm for the Sophie Germain primes and the twin primes ···· 15
Kunihiko Uehara (Tezukayama Univ.)

22 Naoki Matsumoto ♯ The order of snarks can be embedded in surfaces ····· 15
(Yokohama Nat. Univ.)
Michal Kotrbčík (Comenius Univ.)

23 Ronald J. Gould (Emory Univ.)♯ Vertex-disjoint doubly chorded cycles in a graph ····· 10
Paul Horn (Harvard Univ.)
Kazuhide Hirohata
(Ibaraki Nat. Coll. of Tech.)

24 Atsuhiro Nakamoto Grünbaum coloring of Eulerian triangulations on surfaces ····· 15
(Yokohama Nat. Univ.)

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

Kanako Suzuki (Ibaraki Univ.)♯ Dynamics of some reaction-diffusion-ODE systems

September 26th (Thu) Conference Room VII

9:30–10:20

25 Kazuki Sano (Nihon Univ.)♯ Precoloring extension involving pairs of vertices of small distance ···· 15
Chihoko Ojima (Nihon Univ.)
Akira Saito (Nihon Univ.)

26 Katsuhiro Ota (Keio Univ.)♯ Vertex-disjoint chorded cycles of the same length ····· 15
Guantao Chen (Georgia State Univ.)
Ronald J. Gould (Emory Univ.)
Kazuhide Hirohata
(Ibaraki Nat. Coll. of Tech.)
Songling Shan (Georgia State Univ.)

27 Shunzi Horiguchi ♯ Continued fraction presentations of the powers of square root and cubic root by the Tsuchikura–Horiguchi's method (the first extension recurrence formula of Murase Yoshimasu–Newton's type) ····· 15
(Niigata Sangyo Univ.)

10:30–12:00 Speciall Session "Japanese chess and puzzle"

Masato Shinoda (Nara Women's Univ.)♯ How to design strong computer Shogi programs ····· 40

Hideki Tsuiki (Kyoto Univ.)♯ Imaginary cube puzzles ····· 40

14:15–17:45

28 Takashi Okuda Sakamoto (Meiji Univ.)♯ Bogdanov–Takens bifurcation in a three component reaction-diffusion system in the presence of 0:1:2 resonance ····· 15
Toshiyuki Ogawa (Meiji Univ.)

29 Hirofumi Izuhara (Meiji Univ.)♯ Spatio-temporal oscillation in the Keller–Segel system with growth ··· 15
Shin-Ichiro Ei (Kyushu Univ.)
Masayasu Mimura (Meiji Univ.)

30 Shingo Iwami (Kyushu Univ.)♯ An existence of conserved quantity in virus infection experiment ····· 15
Yusuke Kakizoe (Kyushu Univ.)
Satoru Morita (Shizuoka Univ.)

31 Hiromi Seno (Tohoku Univ.) ♯
Ayaka Terada (Hiroshima Univ.)
Mika Inoue (Hiroshima Univ.)
A simple mathematical model for the annual variation of epidemic outbreak with prevention level affected by past incidence sizes ····· 15

32 Tetsuya Ishiwata ♯ (Shibaura Inst. of Tech.)
Spiral-shaped solutions to crystalline curvature flow with a moving tip ····· 15

33 Takeshi Ohtsuka (Gunma Univ.) ♯
Yoshikazu Giga (Univ. of Tokyo)
Yen-Hsi Richard Tsai (Univ. of Texas at Austin)
Crystal growth by a co-rotating pair of screw dislocations ····· 15

34 Takaaki Aoki (Kyoto Univ.) ♯
Some mathematical properties of the dynamically inconsistent Bellman equation: A note on the two-sided altruism dynamics ····· 15

35 Naoto Nakano (Tohoku Univ.) ♯
Yoshitaka Saiki (Hitotsubashi Univ.)
Masaru Inatsu (Hokkaido Univ.)
Seiichiro Kusuoka (Tohoku Univ.)
Statistical coefficients formulae and orbit predictability in a data analysis method in the framework of stochastic differential equations ····· 15

36 Masaji Watanabe (Okayama Univ.) ♯
Fusako Kawai (Kyoto Inst. Tech.)
Modeling and simulation for microbial depolymerization processes of xenobiotic polymers with time factor of degradation rate ····· 15

37 Kei Nishi (Hokkaido Univ.) ♯
Yasumasa Nishiura (Tohoku Univ.)
Takashi Teramoto (Asahikawa Medical Univ.)
Behavior of a front-back pulse arising in a bistable reaction-diffusion system with jump-type heterogeneity ····· 15

38 Nobuyuki Higashimori ♯ (Hitotsubashi Univ.)
An inverse problem of determining coefficients in a one-dimensional radiative transport equation ····· 15

39 Masato Kimura (Kanazawa Univ.) ♯
Hirofumi Notsu (Waseda Univ.)
A discrete phase field model of fracture on a spring-block system ····· 15

September 27th (Fri) Conference Room VII

9:00–12:00

40 Yusuke Imoto (Kyushu Univ.) ♯
Daisuke Tagami (Kyushu Univ.)
Truncation error analysis of approximated operators on SPH and MPS method ····· 15

41 Hirofumi Notsu (Waseda Univ.) ♯
Masahisa Tabata (Waseda Univ.)
Error estimates and computation of a pressure-stabilized characteristics finite element scheme for the Navier–Stokes equations ····· 15

42 Yoshihiro Saito ♯ (Gifu Shotoku Gakuen Univ.)
Numerical asymptotic stability of the simplified order 2.0 weak Taylor scheme ····· 15

43 George Miyake ♯ (Ube Nat. Coll. of Tech.)
Yuji Katsuta (Ube Nat. Coll. of Tech.)
An analysis of nonlinear symmetrical differential equations with dihedral group and odd function ····· 15

44 Naoharu Ito (Nara Univ. of Edu.) ♯
Boundedness of the solutions of higher order systems of linear difference equations ····· 15

45 Shuichi Jimbo (Hokkaido Univ.) *
Eigenvalues of Laplacian in a domain with a thin tubular hole ····· 15

46 Harunori Monobe (Meiji Univ.) ♯
Hirokazu Ninomiya (Meiji Univ.)
Multiple existence of traveling waves of a free boundary problem ····· 15

47 Mi-Ho Giga (Univ. of Tokyo) ♯
Yoshikazu Giga (Univ. of Tokyo)
Takeshi Ohtsuka (Gunma Univ.)
Noriaki Umeda (Meiji Univ.)
On behavior of signs for the heat equation and a diffusion method for data separation 15

48 Hideki Murakawa (Kyushu Univ.) ♯
Error estimates for discrete-time approximations of nonlinear cross-diffusion systems 15

49 Kousuke Abe (Nihon Univ.) *
Nobuyuki Higashimori (Hitotsubashi Univ.)
Masayoshi Kubo (Kyoto Univ.)
Hiroshi Fujiwara (Kyoto Univ.)
Yuusuke Iso (Kyoto Univ.)
A remark on the Courant–Friedrichs–Lewy condition in finite difference approach 15

50 Masataka Kuwamura (Kobe Univ.) ♯
Turing patterns in prey-predator systems with dormancy of predators 15

14:15–16:45

51 Koya Sakakibara (Meiji Univ.) ♯
Masashi Katsurada (Meiji Univ.)
An extension of Amano's method for numerical conformal mappings to non-starlike domains and the method based on the dipole simulation method 15

52 Takahito Kashiwabara (Univ. of Tokyo) ♯
On the convergence of Robin boundary condition to Dirichlet or Neumann ones 15

53 Takuya Tsuchiya (Waseda Univ.) ♯
A new numerical scheme for Einstein equations with discrete variational derivative method 15

54 Akitoshi Takayasu (Waseda Univ.) ♯
Shin'ichi Oishi (Waseda Univ. / JST CREST)
The constructive implicit function theorem and its applications to continuation method 15

55 Yoshitaka Watanabe (Kyushu Univ.) ♯
Mitsuhiro T. Nakao (Sasebo Nat. Coll. of Tech.)
A numerical verification method for nonlinear functional equations based on infinite-dimensional Newton-like iteration 15

56 Guanyu Zhou (Univ. of Tokyo) ♯
Norikazu Saito (Univ. of Tokyo)
Fictitious domain method with the L^2-penalty and application to the finite element and finite volume methods 15

57 Takiko Sasaki (Univ. of Tokyo) ♯
A second-order scheme for a system of nonlinear Schrödinger equations 15

58 Issei Oikawa (Waseda Univ.) ♯
Hybridized discontinuous Galerkin method with the $P_1 - P_0$ 15

59 Daisuke Koyama ♯ (Univ. of Electro-Comm.)
Fumio Kikuchi (Hitotsubashi Univ.)
Korn's inequality for a hybridized discontinuous Galerkin FEM with lifting operator 15

17:00–18:00 Talk invited by Applied Mathematics Section

Takaharu Yaguchi (Kobe Univ.) ♯
Energy-preserving numerical methods based on the finite element exterior calculus for wave-type differential equations

Topology

September 24th (Tue) Conference Room V

9:00–12:00

1 Jun Yagi (Kochi Univ.) ♯ The classification of configuration spaces of 5-membered ringed chains 15

2 Hirotaka Akiyoshi (Osaka City Univ.) ♯ Cone hyperbolic structures on the torus with a single cone point 10

3 Akiko Shima (Tokai Univ.) ♯ 4-charts with four crossings 15
Teruo Nagase (Tokai Univ.*)

4 Tetsuya Ito (Kyoto Univ.) ♯ On surface links whose link groups are abelian 10
Inasa Nakamura (Gakushuin Univ.)

5 Inasa Nakamura (Gakushuin Univ.) ♯ Satellites of an oriented surface link and their local moves 10

6 Reiko Shinjo (Kokushikan Univ.) ♯ Universal sequences of spatial graphs 10

7 Ayaka Shimizu ♯ Region crossing change on spatial graphs 10
(Gunma Nat. Coll. of Tech.)
Kenta Hayano (Osaka Univ.)
Reiko Shinjo (Kokushikan Univ.)

8 Megumi Hashizume ♯ Coset decomposition by images of homomorphisms induced by region crossing change on 3-component link diagrams 15
(Nara Women's Univ.)

9 Yusuke Takimura (Waseda Univ.) ♯ Regular projections of 6_2 knot 15

10 Taizo Kanenobu (Osaka City Univ.) ♯ Coherent band-Gordian distances between knots with up to seven crossings 10
Hiromasa Moriuchi (Osaka City Univ.)

11 Keiji Tagami (Tokyo Tech) ♯ Rasmussen invariants of almost positive knots 10

12 Masakazu Teragaito (Hiroshima Univ.) ♯ Cyclic branched covers of 2-bridge knots and L-spaces 10

13 Motoo Tange (Univ. of Tsukuba) * A graph made from a slice disk and its deformation 15
Tetsuya Abe (Tokyo Tech)

14:15–16:00

14 Toshio Saito (Joetsu Univ. of Edu.) ♯ Meridional destabilizing number of knots 10

15 Kazuhiro Ichihara (Nihon Univ.) ♯ Knots with arbitrarily high distance bridge decompositions 10
Toshio Saito (Joetsu Univ. of Edu.)

16 Shinya Okazaki (Osaka City Univ.) ♯ Bridge genus and braid genus of lens space 10

17 Kenta Okazaki (Kyoto Univ.) ♯ On the E_6 state sum invariant of lens spaces 10

18 Yoshikazu Yamaguchi (Akita Univ.) ♯ The asymptotic behavior of the higher dimensional Reidemeister torsion for Seifert manifolds 15

19 Tatsuro Shimizu (Univ. of Tokyo) ♯ Morse homotopy invariant and the Kontsevich–Kuperberg–Thurston invariant of homology 3-spheres 10

20 Motoo Tange (Univ. of Tsukuba) * Homology spheres bounded by 4-manifolds with intersection form $-E_8$ 10

21 Yoshifumi Matsuda (Kyoto Univ.) * Rotation number and actions of the modular group on the circle 15

16:20–17:20 Talk invited by Topology Section

Tadayuki Watanabe (Shimane Univ.)♯ Morse theory and graph-valued 3-manifold invariant

September 25th (Wed) Edu. Bldg.2, Large Lect. Room

10:30–10:45 Presentation Ceremony for 2013 Geometry Prize

10:50–11:50 Award Lecture for 2013 Geometry Prize

Katsutoshi Yamanoi (Tokyo Tech)♯ Value distribution of derivatives of meromorphic functions

13:15–14:15 Award Lecture for 2013 Geometry Prize

Toshitake Kohno (Univ. of Tokyo)♯ Braids, quantum symmetry and hypergeometric integrals

September 26th (Thu) Conference Room V

9:00–12:00

22 Katsuhisa Koshino (Univ. of Tsukuba)* Topological types of pairs of convex sets in Fréchet spaces ····· 15

23 Takashi Shimomura ♯ (Nagoya Univ. of Econ.) Approximation by conjugacies and graph coverings ····· 15

24 Yusuke Tokunaga (Osaka Univ.)♯ Measures with maximum total exponent of C^1 diffeomorphisms with basic sets ····· 15

25 Tatsuhiko Yagasaki (Kyoto Inst. Tech.)♯ Groups of uniform homeomorphisms with the uniform topology ····· 15

26 Noriyuki Hamada (Kyushu Univ.)♯ Non-holomorphic Lefschetz fibrations with (-1)-section ····· 15

27 Noriyuki Hamada (Kyushu Univ.)♯ Decompositions of positive relations in the mapping class group ····· 15

28 Ryoma Kobayashi (Tokyo Univ. of Sci.)♯ On the genus of a Lefschetz fibration and a finitely presented group ····· 10

29 Takuya Sakasai (Univ. of Tokyo)♯
Masaaki Suzuki (Meiji Univ.)
Shigeyuki Morita (Univ. of Tokyo⋆/Tokyo Tech⋆)
Johnson homomorphisms up to degree 6 ····· 15

30 Yusuke Kuno (Tsuda Coll.)♯
Nariya Kawazumi (Univ. of Tokyo)
An infinitesimal Dehn–Nielsen theorem and an embedding of the largest Torelli group ····· 15

31 Ryo Kato (Nagoya Univ.)♯
Yuna Kawamoto (Kochi Univ.)
Katsumi Shimomura (Kochi Univ.)
The non-existence of a special $E(n)$-invertible spectra ····· 10

32 Tomoki Kashiwagi (Kochi Univ.)♯
Ryo Kato (Nagoya Univ.)
Katsumi Shimomura (Kochi Univ.)
The 2-primary chromatic $H^1M^1_{n-1}$ ····· 10

14:15–16:00

33 Ryo Kato (Nagoya Univ.)♯ Generalized Bousfield lattices and generalized retract conjecture ····· 10
Katsumi Shimomura (Kochi Univ.)
Yutaro Tatehara (Kochi Univ.)

34 Ryo Kato (Nagoya Univ.)♯ On the products of β-elements ····· 10
Katsumi Shimomura (Kochi Univ.)

35 Ryo Kato (Nagoya Univ.)♯ The stable homotopy groups of the classifying space of a finite cyclic group and its applications to algebraic K-theory ····· 10

36 Shumi Kinjo (Shinshu Univ.)♯ A construction of immersions of 3-sphere into 4-space associated with Dynkin diagrams and the Smale invariant ····· 15

37 Takahito Naito (Shinshu Univ.)♯ String topology and a Frobenius algebra structure of the Yoneda algebra ····· 10

38 Kentaro Matsuo (Shinshu Univ.)♯ The equivariant rational cohomology of the loop spaces ····· 10

39 Tatsuya Horiguchi (Osaka City Univ.)♯ The equivariant cohomology ring of $(n-k,k)$ Springer variety ····· 10
Yukiko Fukukawa (Osaka City Univ.)

40 Miho Hatanaka (Osaka City Univ.)♯ Cohomological rigidity problem for real toric manifolds ····· 10

41 Kenshi Ishiguro (Fukuoka Univ.)♯ Pairings for the classifying spaces of compact Lie groups ····· 10
Fumihisa Yayama (Fukuoka Univ.)

16:20–17:20 Talk invited by Topology Section

Tetsuya Itoh (Kyoto Univ.)♯ Open book foliation

Infinite Analysis

September 24th (Tue) Conference Room IX

9:30–12:00

1 Masataka Kanki (Univ. of Tokyo)♯ Constructing the integrable systems over finite fields using the field of p-adic numbers ····· 15
Tetsuji Tokihiro (Univ. of Tokyo)
Jun Mada (Nihon Univ.)

2 Shuhei Kamioka (Kyoto Univ.)♯ A combinatorial expression of the solution to an initial value problem of the Toda molecule ····· 15

3 Atsushi Nobe (Chiba Univ.)♯ A geometric realization of the periodic box-ball system ····· 15

4 Mami Okiyoshi (Hiroshima Univ.)♯ Generating functions of box and ball system ····· 15

5 Kouichi Takemura (Chuo Univ.)♯ Ultradiscrete Painlevé VI with parity variables ····· 15
Terumitsu Tsutsui

6 Takao Suzuki (Kinki Univ.)♯ A particular solution of the Schlesinger system $\mathcal{H}_{3,2}$ in terms of a rigid system ····· 15

7 Yousuke Ohyama (Osaka Univ.)♯ A connection problem for linear q-difference equations related to the q-Painlevé equation ····· 15

8 Kazuo Kaneko (Yokkaichi Univ.)* Symmetric solutions to the degenerate four dimensional Painlevé type equations NY^{A_4}, IV^{Mat} and II^{Mat} ····· 20

14:15–16:20

9 Koji Hasegawa (Tohoku Univ.)♯
Yousuke Semba (Asakura Publ.)
Lax formalism for quantum discrete Garnier system ····· 15

10 Yas-Hiro Quano ♯
(Suzuka Univ. of Med. Sci.)
Spontaneous polarization of spin-1 analogue of the eight-vertex model ····· 20

11 Tomoki Nakanishi (Nagoya Univ.)♯
Salvatore Stella (Northeastern Univ.)
Diagrammatic description of c-vectors and d-vectors of cluster algebras of finite type ····· 15

12 Tomoki Nakanishi (Nagoya Univ.)♯
Salvatore Stella (Northeastern Univ.)
Wonder of sine-Gordon Y-systems ····· 15

13 Masato Okado (Osaka City Univ.)♯
Atsuo Kuniba (Univ. of Tokyo)
Yasuhiko Yamada (Kobe Univ.)
PBW bases of U_q^+ and quantized algebra of functions ····· 20

14 Motohiro Ishii (Univ. of Tsukuba)♯
Satoshi Naito (Tokyo Tech)
Daisuke Sagaki (Univ. of Tsukuba)
Path model for crystal bases of level-zero extremal weight modules over quantum affine algebras ····· 15

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

Katsuyuki Naoi (Univ. of Tokyo)♯
An approach to the $X = M$ conjecture using modules over a current algebra

September 25th (Wed) Conference Room IX

9:30–12:00

15 Takeshi Morita (Osaka Univ.)♯
A connection formula of a divergent bilateral basic hypergeometric function ····· 15

16 Masahiko Ito (Tokyo Denki Univ.)♯
The q-Dixon–Anderson integral —a multi-dimensional Ramanujan ${}_1\psi_1$ sum— ····· 20

17 Masahiko Ito (Tokyo Denki Univ.)♯
A bilateral extension of the q-Selberg integral and its product expression —q-difference equation, shifted symmetric polynomials, connection formula— ····· 20

18 Hiroshi Naruse (Okayama Univ.)♯
Alain Lascoux
(Univ. de Marne-la-Vallée)
Dual Grothendieck polynomials and finite sum Cauchy formula ····· 15

19 Hiroshi Naruse (Okayama Univ.)♯
Factorial Schur functions and vexillary permutations of types B, C and D ····· 15

20 Hiroshi Mizukawa ♯
(Nat. Defense Acad. of Japan)
Tatsuhiro Nakajima (Meikai Univ.)
Hiro-Fumi Yamada (Okayama Univ.)
Schur function identities and the basic representation of $A_2^{(2)}$ ····· 15

21 Yosuke Saito (Tohoku Univ.)♯
Commutative families arising from the elliptic Ding–Iohara algebra and the elliptic Feigin–Odesskii algebra ····· 20

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

Akihiro Tsuchiya (Univ. of Tokyo)*
Logarithmic conformal field theory and the representation theory of extended W-algebras

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. The talks with $*$ mark are presented through document camera, while $\sharp$ marks denote PC presentations. The speakers with $\star$ 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 `program@mathsoc.jp`.

Each conference room is equipped with a black board, 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

Johoku Campus is generally non-smoking area. Smokers are kindly asked to smoke only in designated areas.

There is no parking area for visitors in Johoku Campus.

You can get Wi-Fi connection to the Internet in almost all area of Johoku Campus with the aid of *eduroam* service. You are asked to refer to the official webpage of the meeting

`http://mathsoc.jp/en/meeting/ehime13sept/`

Official Party

Time: September 25th (Wed), 18:20–20:20
Venue: Alumni Association Hall Café Restaurant "Se · tolian"
Participants are asked to pay 5,000 JPY at the party.

Directions

2013 MSJ AUTUMN MEETING

Dates : September 24th (Tue)–27th (Fri), 2013

Venue : Ehime University, Johoku Campus
Bunkyo-cho 3, Matsuyama, Ehime 790-8577

Contact to : Department of Mathematics, Faculty of Scicences, Ehime Univeristy
Bunkyo-cho 2–5, Matsuyama, Ehime 790-8577
E-mail kyoto13mar@mathsoc.jp
Phone +81 (0) 90 1791 3483 (During session)

Web Site : http://mathsoc.jp/en/meeting/ehime13sept/

Conference Rooms

	Place	Research Sections
Conference Room I	Green Hall	Algebra, Featured Invited Talk
Conference Room II	General Education Lecture Hall, Room 11	Functional Equations, Featured Invited Talk
Conference Room III	General Education Lecture Hall, Room 21	Real Analysis, Complex Analysis
Conference Room IV	General Education Lecture Hall, Room 24	Functional Analysis
Conference Room V	General Education Lecture Hall, Room 35	Topology
Conference Room VI	General Education Lecture Hall, Room 45	Geometry
Conference Room VII	Law & Letters Lecture Hall, Room 201	Applied Mathematics, Featured Invited Talk
Conference Room VIII	Engineering Bldg. No. 4, Room E411	Statistics and Probability, Featured Invited Talk
Conference Room IX	Engineering Bldg. No. 4, Room E421	Infinite Analysis, Foundation of Mathematics and History of Mathematics
Others	Education Bldg. No. 2, Large Lecture Room	Award Lecture for Geometry Prize (Geometry and Topology)
Plenary Talks	Himegin Hall, Sub-hall (outside the Campus)	
Open Lectures for Citizens	Nanka Kinen Hall	

Other Rooms

Extended Abstracts and Membership	Enginnering Lecture Hall, Room EL13
Discussion Rooms	General Education Lecture Hall, Room 12/13
Book Display and Sale	Enginnering Lecture Hall, Room EL11/EL12/EL15
Executive Committee, MSJ President	Enginnering Lecture Hall, Room EL31
Official Party	Alumni Association Hall Café Restaurant "Se · tolian"