

2012 Mathematical Society Japan

AUTUMN MEETING

Dates: September 18th–21st, 2012

Venue: Ito Campus, Kyushu University

Contact to: Faculty of Mathematics, Kyushu University
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Mathematical Society of Japan

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	I Room 2308	II Room 2307	III Room 2306	IV Room 2305	V Room 2304	VI Room 2407	VII Room 2406	VIII Room 2404	IX Room 2403
18th (Tue)	Algebra 9:00–12:00 14:15–16:15	Complex Analysis 10:00–12:00 14:30–16:15	Functional Equations 9:00–12:00 14:15–16:15		Statistics and Probability 9:15–12:00 14:15–14:45	Applied Mathematics 9:30–12:00 14:15–16:40	Infinite Analysis 9:30–11:45 14:15–14:45	Geometry 9:00–12:00 14:15–16:00	Topology 9:15–12:00 14:15–16:00
	Featured Invited Talks					13:00–14:00			
	Invited Talk 16:30–17:30	Invited Talk 16:30–17:30	Invited Talk 16:30–17:30		Invited Talks 15:00–16:00 16:15–17:15	Invited Talk 16:50–17:50	Invited Talk 15:00–16:00	Invited Talk 16:15–17:15	Invited Talk 16:20–17:20
19th (Wed)	Algebra 9:00–12:00	Complex Analysis 10:00–12:00 Invited Talk 13:15–14:15	Functional Equations 9:00–12:00 Invited Talk 13:15–14:15	Functional Analysis 9:45–11:50 Invited Talk 13:00–14:00	Statistics and Probability 9:15–12:00	Applied Mathematics 9:30–12:15	Infinite Analysis 10:30–11:50 Invited Talk 13:30–14:30	Geometry / Topology Invited Talks 10:50–11:50 13:15–14:15	
	MSJ Prizes Presentation (VIII + IX) (14:50–15:20)								
	Plenary Talks (VIII + IX) MSJ Autumn Prize Winner (15:30–16:30) Kengo Hirachi (Univ. of Tokyo) (16:45–17:45)								
	Official Party (Inamori Center, Inamori Hall) (18:00–20:00)								
20th (Thu)	Algebra 10:00–11:30 14:15–16:45	Real Analysis 10:00–11:45 14:15–15:40	Functional Equations 9:00–12:00 14:15–16:15	Functional Analysis 9:30–11:50 14:15–16:30	Statistics and Probability 9:15–12:00	Applied Mathematics 9:30–12:00 Special Session 14:15–16:40	Found. of Math. and History of Math. 9:00–11:20 14:15–17:05	Geometry 9:00–12:00 14:15–16:15	Topology 9:30–11:45 14:15–15:40
	Featured Invited Talks					13:00–14:00			
	Invited Talk 17:00–18:00	Invited Talk 15:50–16:50	Invited Talk 16:30–17:30	Invited Talk 16:30–17:30	Invited Talks 14:30–15:30 15:45–16:45	Invited Talk 16:50–17:50		Invited Talk 16:30–17:30	Invited Talk 16:00–17:00
21st (Fri)	Algebra 9:00–11:00 14:15–15:45	Real Analysis 9:40–12:00 14:15–16:00	Functional Equations 9:00–12:00 14:15–16:30	Functional Analysis 9:30–11:50		Applied Mathematics 9:00–12:00 14:15–16:30	Found. of Math. and History of Math. 9:00–11:40		Topology 9:15–12:00
	Featured Invited Talks					13:00–14:00			
	Invited Talks 11:00–12:00 15:45–16:45	Invited Talk 16:10–17:10	Invited Talk 16:45–17:45	Invited Talk 14:15–15:15		Invited Talk 16:45–17:45	Invited Talk 13:20–14:20		

All the Conference Rooms of the Autumn Meeting are located on the Ito Campus of Kyushu University, in Center Zone Building No. 2 while the MSJ–KMS Joint Meeting on September 17th (Mon) is held in the downtown area of Fukuoka City, in Hospital Campus.

Plenary Talks

September 19th (Wed) Conference Room VIII + IX

MSJ Autumn Prize Winner	(15:30~16:30)
Kengo Hirachi (Univ. of Tokyo) [‡]	Einstein equations and conformal invariants	(16:45~17:45)

Featured Invited Talks

September 18th (Tue)

Conference Room IX

Chin-Lung Wang (Nat. Taiwan Univ.)	Quantum Leray–Hirsch and analytic continuations	(13:00~14:00)
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Conference Room II

Shinichi Kobayashi (Tohoku Univ.) [‡]	p -adic approaches to the Birch and Swinnerton–Dyer conjecture	(13:00~14:00)
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September 20th (Thu)

Conference Room IX

Kaoru Ono (Kyoto Univ.) [*]	Spectral invariants for Hamiltonian diffeomorphisms and their applications	(13:00~14:00)
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Conference Room II

Kenjiro Yanagi (Yamaguchi Univ.) [‡]	Progress of quantum information theory —From classical information to quantum information—	(13:00~14:00)
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Conference Room VI

Hisashi Inaba (Univ. of Tokyo) [‡]	Mathematics of the basic reproduction number R_0 —Chasing a key parameter of population dynamics—	(13:00~14:00)
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September 21st (Fri)

Conference Room VI

Yuji Tachikawa (Univ. of Tokyo) [‡]	Mathematics and supersymmetric quantum field theory	(13:00~14:00)
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Conference Room VII

Yuichi Komori (Chiba Univ.) [*]	Small talks on mathematical logic for mathematician	(13:00~14:00)
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Talks invited by Research Sections and Special Session

September 18th (Tue)

Algebra (Conference Room I)

Yoichi Mieda (Kyoto Univ.) [‡]	Toward generalization of the non-abelian Lubin–Tate theory ...	(16:30~17:30)
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Geometry (Conference Room VIII)

Toshihiro Shoda (Saga Univ.)[‡] On Morse index of minimal surfaces (16:15~17:15)

Complex Analysis (Conference Room II)

Toshiyuki Sugawa (Tohoku Univ.)[‡] Generalization of the Schwarzian derivative —Towards more invariance and higher orders (16:30~17:30)

Functional Equations (Conference Room III)

Satoshi Tanaka (Okayama Univ. of Sci.)[‡] Nonuniqueness of positive solutions of superlinear two-point boundary value problems - Symmetry-breaking of even positive solutions (16:30~17:30)

Statistics and Probability (Conference Room V)

Toshihiro Uemura (Kansai Univ.)[‡] On jump-type Markov processes and the associated Dirichlet forms (15:00~16:00)

Kazumasa Kuwada (Ochanomizu Univ.)[‡] Coupling methods for heat distributions and curvature-dimension conditions (16:15~17:15)

Applied Mathematics (Conference Room VI)

Yusuke Suzuki (Niigata Univ.)[‡] 1-embedded graphs as seen from a viewpoint of re-embedding structures (16:50~17:50)

Topology (Conference Room IX)

Toshio Sumi (Kyushu Univ.)* The Smith equivalence problem and Smith sets of Oliver groups (16:20~17:20)

Infinite Analysis (Conference Room VII)

Junichi Shiraishi (Univ. of Tokyo)[‡] Vertex operators, Nekrasov partition functions and Macdonald polynomials (15:00~16:00)

September 19th (Wed)

Geometry (Conference Room VIII + IX)

Ken'ichi Ohshika (Osaka Univ.)[‡] Topological structure of deformation spaces of Kleinian groups (10:50~11:50)

Yukinobu Toda (Univ. of Tokyo)[‡] Stability conditions and Donaldson–Thomas type invariants on Calabi–Yau 3-folds (13:15~14:15)

Complex Analysis (Conference Room II)

Hiroshi Yamaguchi (Shiga Univ.)[‡] Pseudoconvex domains in the Hopf surface (13:15~14:15)

Functional Equations (Conference Room III)

Naoto Kumano-go (Kogakuin Univ.)[‡] Phase space path integrals as analysis on path space (13:15~14:15)

Functional Analysis (Conference Room IV)

Kiyoomi Kataoka (Univ. of Tokyo)[‡] A system of fifth-order partial differential equations describing a surface which contains several continuous families of circular arcs (13:00~14:00)

Infinite Analysis (Conference Room VII)

Yoshiyuki Kimura (Osaka City Univ.)[‡] Quiver varieties and quantum cluster algebras (13:30~14:30)

September 20th (Thu)

Algebra (Conference Room I)

- Hyohe Miyachi (Nagoya Univ./Osaka City Univ.)[‡] Comparison between module categories over modular quantum general linear groups (17:00~18:00)

Geometry (Conference Room VIII)

- Atsushi Kasue (Kanazawa Univ.)^{*} Embedding of graphs and Rayleigh monotonicity law (16:30~17:30)

Functional Equations (Conference Room III)

- Hideyuki Miura (Osaka Univ.) On fundamental solutions for fractional diffusion equations with divergence free drift (16:30~17:30)

Real Analysis (Conference Room II)

- Jürgen Appell (Univ. Würzburg)[‡] Condensing operators and applications: old and new (15:50~16:50)

Functional Analysis (Conference Room IV)

- Shūichi Ohno (Nippon Inst. of Tech.)^{*} Topological structure of the space of weighted composition operators on H^∞ (16:30~17:30)

Statistics and Probability (Conference Room V)

- Shogo Kato (Inst. of Stat. Math.)[‡] The Cauchy distribution on the circle and related statistical models (14:30~15:30)

- Hidetoshi Murakami (Nat. Defense Acad. of Japan)[‡] Some saddlepoint approximations to the nonparametric tests and biased for two-sided alternatives (15:45~16:45)

Applied Mathematics (Conference Room VI)

- Yuji Kodama (Ohio State Univ.)[‡] KP solitons and Mach reflection in shallow water (16:50~17:50)

Topology (Conference Room IX)

- Koya Shimokawa (Saitama Univ.)[‡] Tangle analysis of site-specific recombinations (16:00~17:00)

September 21st (Fri)

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

- Kenshi Miyabe (Kyoto Univ.)[‡] Natural properties that a randomness notion should have (13:20~14:20)

Algebra (Conference Room I)

- Yoshinori Gongyo (Univ. of Tokyo)[‡] Log pluricanonical representations and abundance (11:00~12:00)

- Shigeru Kuroda (Tokyo Metro. Univ.)[‡] Wild automorphisms of a polynomial ring (15:45~16:45)

Functional Equations (Conference Room III)

- Katsuyuki Ishii (Kobe Univ.)[‡] Mathematical analysis of some algorithms for mean curvature flow (16:45~17:45)

Real Analysis (Conference Room II)

- Okiihiro Sawada (Gifu Univ.)[‡] The ill-posedness theory of the Navier–Stokes equations in the critical space (16:10~17:10)

Functional Analysis (Conference Room IV)

- Mutsumi Saito (Hokkaido Univ.)[‡] Irreducible quotients of A -hypergeometric systems (14:15~15:15)

Applied Mathematics (Conference Room VI)

Daisuke Tagami (Kyushu Univ.)[‡] Numerical analysis of flow problems with finite element methods
 —From error analysis to parallel computations (16:45~17:45)

Open Lectures for Citizens

Sponsored: Mathematical Society of Japan
 Co-sponsored: Faculty of Mathematics and Institute of Mathematics for Industry,
 Kyushu University
 Date: September 22nd (Sat) 14:00–16:30
 Venue: Faculty of Mathematics Bldg., Large Lecture Room No. 3
 Program: Opening Speech:
 Hideki Kosaki (Kyushu Univ.) (14:00–14:10)
 Lecture 1:
 Kazushi Ahara (Meiji Univ.)
 Survey of interactive geometry software (14:10–15:10)
 Lecture 2:
 Masaaki Takase (Kyushu Univ.)
 Sekiguchi, Hiraki and the mathematics in Kaga Province (Prefecture of Ishikawa)
 (15:30–16:30)
 Web Page: <http://mathsoc.jp/en/meeting/kyushu12sept/>

MSJ–KMS Joint Meeting 2012

Sponsored by: Mathematical Society of Japan, and
 The Korean Mathematical Society
 Partially supported by:
 Faculty of Mathematics and Institute of Mathematics for Industry,
 Kyushu University
 Date: September 17th (Mon)
 Venue: Centennial Hall, Kyushu Univeristy Medical School
 Organizing Committee:

MSJ	KMS
Yoichi Miyaoka (Univ. of Tokyo)	JongHae Keum (KIAS)
Miyuki Koiso (Kyushu Univ.)	Yongjin Song (Inha Univ.)
Takayoshi Ogawa (Tohoku Univ.)	Dohan Kim (SNU)
Takashi Tsuboi (Univ. of Tokyo)	Dongsu Kim (KAIST)

Program

Plenary Talks — Main Hall
 10:00–11:00 Gen Nakamura (Hokkaido Univ.)
 Inversion schemes for diffusion equations
 11:30–12:30 Jun-Muk Hwang (KIAS)
 Compactifications of \mathbb{C}^n

Algebra Session — Main Hall

- 14:00–14:40 Yukinobu Toda (Univ. of Tokyo)
Stability conditions and birational geometry
- 14:50–15:30 Changheon KIM (Hanyang Univ.)
Arithmetic properties of weakly harmonic Maass forms
- 16:10–16:50 Shuji Saito (Tokyo Tech)
Higher dimensional Hasse principle and resolution of quotient singularities
- 17:00–17:40 Yongnam Lee (Sogang Univ.)
Q-Gorenstein deformation theory and its applications

Geometry and Topology Session — Hall 1

- 14:00–14:40 Shin-ichi Ohta (Kyoto Univ.)
Ricci curvature in Finsler geometry and applications
- 14:50–15:30 Sang-hyun Kim (KAIST)
Embeddability between right-angled Artin groups
- 16:10–16:50 Shigeyuki Morita (Univ. of Tokyo*)
Characteristic classes in low dimensional topology —Prospects and computations—
- 17:00–17:40 Jaigyoung Choe (KIAS)
Higher dimensional versions of the Enneper surface, catenoid and helicoid

Analysis Session — Hall 2

- 14:00–14:40 Kenji Nakanishi (Kyoto Univ.)
Global dynamics of nonlinear dispersive equations
- 14:50–15:30 Ki-Ahm Lee (SNU)
Homogenization of the oscillating data on a lower dimensional surface
- 16:10–16:50 Yoshikazu Giga (Univ. of Tokyo)
Blow-up arguments and the Navier-Stokes equations
- 17:00–17:40 Kang Tae Kim (POSTECH)
On a generalization of Forelli's theorem

Probability Theory and Applied Mathematics Session — Hall 3

- 14:00–14:40 Makiko Sasada (Keio Univ.)
Microscopic dynamics for the porous medium equation and other degenerate parabolic equations
- 14:50–15:30 Jung Hee Cheon (SNU)
Discrete logarithm with auxiliary inputs
- 16:10–16:50 Takashi Kumagai (Kyoto Univ.)
Random walks on disordered media and their scaling limits
- 17:00–17:40 Hyeong In Choi (SNU)
Commodity Futures model and applications
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Foundation of Mathematics and History of Mathematics

September 20th (Thu) Conference Room VII

9:00–11:20

- 1 Shigeru Masuda (Kyoto Univ.)[#] Traditional diversion of real to imaginary since Euler, and innovative strictness by Poisson's sense 20
- 2 Shigeru Masuda (Kyoto Univ.)[#] Proofs and applications relating to describability of an arbitrary function by trigonometric series in the 19C 20
- 3 Teruaki Asai (Nara Univ. of Edu.)^{*} On the $2/n$ table of the Rhind Mathematical Papyrus 10
- 4 Shunji Horiguchi (Niigata Sangyo Univ.)[#] The surveyings of Gonemon Higuchi and his pupils 15
- 5 Shunji Horiguchi (Niigata Sangyo Univ.)[#] The mariner's compass of Seizaemon Kanazawa and that of Yoemon Shizuno 15
- 6 Hideyuki Majima (Ochanomizu Univ.)[#] On the determinat by SEKI Takakazu in "Sangaku-genkun" 30

11:25–12:25 Mathematics History Team Meeting

14:15–17:05

- 7 Tsukane Ogawa (Yokkaichi Univ.)[#] Geometry studied in the Shisei-Sanka School 25
- 8 Shotaro Tanaka^{*} Representation of fractional function in power series —De Moivre, L. Euler, G. H. Hardy, Y. Wada, M. Fujiwara— 20
- 9 Toshimichi Usuba (Nagoya Univ.)[#] Large cardinals and indestructibly Lindeöf spaces 15
- 10 Takahiro Seki (Niigata Univ.)[#] On relations among double negation translations in substructural logics . . . 15
- 11 Takayuki Kihara (JAIST)[#] Strong measure zero sets in computability theory I —Lightface Π_1^0 sets and Kojiro Higuchi (Tohoku Univ.) the perfect set property— 15
- 12 Takayuki Kihara (JAIST)[#] Strong measure zero sets in computability theory II —Kolmogorov complexity Kenshi Miyabe (Kyoto Univ.) and triviality— 20
- 13 Toshio Suzuki (Tokyo Metro. Univ.)[#] The eigen distribution of an AND-OR tree under directional algorithms . . . 15
Ryota Nakamura (Tokyo Metro. Univ.)
- 14 Toshio Suzuki (Tokyo Metro. Univ.)[#] Resource-bounded randomness and computable Dowd-type generic sets 15
Masahiro Kumabe (Open Univ. of Japan)

September 21st (Fri) Conference Room VII

9:00–11:40

- 15 Yoshihiro Abe (Kanagawa Univ.)[#] Restricted structural properties of ideals on $\mathcal{P}_\kappa\lambda$ and weak normality 15
- 16 Tatsuya Shimura (Nihon Univ.)[#] Admissible rules for one variable formulas and disjunction property 15
- 17 Katsumi Sasaki (Nanzan Univ.)[#] The exact model constructed from normal forms in normal modal logics containing **K4** 10
- 18 Keita Yokoyama (Tokyo Tech)[#] Ramsey's theorem without Σ_1 -induction 10
- 19 Keita Yokoyama (Tokyo Tech)[#] Some versions of Friedman's self-embedding theorem 10
- 20 Keita Yokoyama (Tokyo Tech)[#] A generalization of Schnorr's theorem 10
- 21 Kenji Fukuzaki (Int. Univ. of Kagoshima)^{*} Definability of the ring of integers in some infinite algebraic extensions of the rationals 15

7 Algebra

- 22 Yoshihito Tanaka (Kyushu Sangyo Univ.)[#] Conservativity of Boolean algebras with operators over semilattices with operators 15
 Agi Kurucz (King's Coll. London)
 Frank Wolter (Univ. of Liverpool)
 Michael Zakharyashev
 (Birkbeck Coll. London)
- 23 Hiroaki Minami[#] Mathias–Prikry forcing and dominating reals 15
 Michael Hrušák
 (Univ. Nacional Autónoma de México)
- 24 Hirotaka Kikyo (Kobe Univ.)[#] On small superstable generic structures 15

11:45–12:15 Research Section Assembly**13:20–14:20 Talk invited by Section on Foundation and History of Mathematics**

- Kenshi Miyabe (Kyoto Univ.)[#] Natural properties that a randomness notion should have

Algebra

September 18th (Tue) Conference Room I

9:00–12:00

- 1 Yukio Ohkubo (Int. Univ. of Kagoshima)[#] Distribution of the first digits of prime numbers 10
- 2 Yoshifumi Tsuchimoto (Kochi Univ.)^{*} On splitting behaviors of polynomials at primes 15
 Hajime Kuroiwa (Kochi Univ.)
 Tatsuya Itagaki (Kochi Univ.)
 Yuusuke Watou (Kochi Univ.)
- 3 Kenichi Shimizu^{*} Prime values of quadratic polynomials and imaginary quadratic fields 10
- 4 Soichi Ikeda (Nagoya Univ.)^{*} On transcendental numbers generated by certain integer sequences 10
 Kaneaki Matsuoka (Nagoya Univ.)
- 5 Kazuhito Kozuka^{*} Knopp type identities for generalized multiple Dedekind type sums attached to matrices and Dirichlet characters 10
 (Miyakonojo Nat. Coll. of Tech.)
- 6 Yoshinori Hamahata (Ritsumeikan Univ.)[#] Continued fractions and Dedekind sums for function fields 10
- 7 Masanori Katsurada (Keio Univ.)[#] Shintani zeta-functions of several variables and Lauricella hypergeometric functions II 10
- 8 Tomoya Machide (Kinki Univ.)[#] On a parameterized sum formula for triple zeta values 10
- 9 Tomoya Machide (Kinki Univ.)[#] On a relation between multiple zeta values and the gamma function 10
- 10 Yoshio Tanigawa (Nagoya Univ.)^{*} On relations among Dirichlet and multiple L -values mod 4 10
 Jun Furuya (Okinawa Nat. Coll. of Tech.)
 Makoto Minamide (Kyoto Sangyo Univ.)
- 11 Ick Sun Eum (KAIST)[#] Some applications of modular units 15
 Ja Kyung Koo (KAIST)
 Dong Hwa Shin
 (Hankuk Univ. of Foreign Studies)

12	Yuichi Sakai (Kyushu Univ.) [*] Masanobu Kaneko (Kyushu Univ.)	The Ramanujan–Serre differential operators and certain elliptic curves	10
13	Tomoyoshi Ibukiyama (Osaka Univ.) [#]	A lift to vector valued Siegel modular forms of half integral weight and Shimura type conjecture revisited	10
14	Toshiyuki Kikuta (Osaka Inst. of Tech.) [*] Shoyu Nagaoka (Kinki Univ.)	On Ramanujan type congruences for modular forms with several variables	10
15	Shoyu Nagaoka (Kinki Univ.) [*] Siegfried Böcherer (Univ. Mannheim/Univ. of Tokyo)	On p -adic properties of Siegel modular forms	10

14:15–16:15

16	Daisuke Shiomi (Tokyo Univ. of Sci.) [*]	On the Hasse–Witt invariants of the maximal real subfields of cyclotomic function fields	10
17	Hizuru Yamagishi (Tokyo Denki Univ.) [#]	On hyperelliptic curves of Chebyshev type	15
18	Shinnya Okumura (Kyushu Univ.) [#]	On the number of \mathbb{F}_p -valued points of elliptic curves	15
19	Yuki Kato (Tohoku Gakuin Univ.) [*]	The isomorphism between motivic cohomology and K -groups for equi-characteristic regular local rings	10
20	Yoshiyasu Ozeki (Kyoto Univ.) [#]	Full faithfulness theorem for torsion crystalline representations	10
21	Manabu Yoshida (Kyushu Univ.) [#]	A refinement of the local class field theory of Serre and Hazewinkel	10
22	Yuto Takahashi (Nagoya Univ.) [#]	Infiniteness of class field towers degrees of extensions of which are restricted to products of 2 and 3	10
23	Mitsul Tohkailin (Kinki Univ.) [#] Manabu Ozaki (Waseda Univ.)	A characterization of some number fields of infinite degree using absolute Galois groups	15
24	Teruhisa Kadokami (East China Norm. Univ.) [#] Yasushi Mizusawa (Nagoya Inst. of Tech.)	Iwasawa invariants of cyclic branched covers of links	10

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

	Yoichi Mieda (Kyoto Univ.) [#]	Toward generalization of the non-abelian Lubin–Tate theory	
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September 19th (Wed) Conference Room I

9:00–12:00

25	Akinari Hoshi (Rikkyo Univ.) [#] Ming-chang Kang (Nat. Taiwan Univ.) Boris E. Kunyavskii (Bar-Ilan Univ.)	Noether’s problem and unramified Brauer groups	10
26	Aiichi Yamasaki (Kyoto Univ.) [#]	Table of conjugacy classes of finite groups in $GL(5, \mathbb{Z})$, $GL(6, \mathbb{Z})$ and some calculations on elliptic curves	10
27	Akinari Hoshi (Rikkyo Univ.) Aiichi Yamasaki (Kyoto Univ.)	Rationality problem for algebraic tori	10
28	Yasushi Gomi (Sophia Univ.) [#]	q -analogue of Gauss sums on the symmetric groups	10
29	Tomoyuki Arakawa (Kyoto Univ.) [#] Ching Hung Lam (Academia Sinica) Hiromichi Yamada (Hitotsubashi Univ.)	Zhu’s algebra and C_2 -algebra of parafermion vertex operator algebras	15
30	Kenichi Shimizu (Nagoya Univ.) [#]	Real representations of Hopf $*$ -algebras	20

31	Masao Kiyota (Tokyo Med. Dent. Univ.) * Tetsuro Okuyama (Hokkaido Univ. of Edu.) Tomoyuki Wada (Tokyo Univ. of Agri. and Tech.)	The heights of irreducible Brauer characters in 2-blocks of the symmetric groups	15
32	Seok-Jin Kang (Seoul Nat. Univ.) # Masaki Kashiwara (Kyoto Univ./Seoul Nat. Univ.) Euiyong Park (Seoul Nat. Univ.)	Geometric realization of Khovanov–Lauda–Rouquier algebras associated with Borcherds–Cartan data	15
33	Myungho Kim (KIAS) # Seok-Jin Kang (Seoul Nat. Univ.) Masaki Kashiwara (Kyoto Univ./Seoul Nat. Univ.)	Khovanov–Lauda–Rouquier algebras and R-matrices	15
34	Masahide Konishi (Nagoya Univ.) #	Level 1 cyclotomic KLR algebras of cyclic quivers	10
35	Sei-Qwon Oh (Chungnam Nat. Univ.) #	Poisson brackets and Poisson spectra in polynomial algebras	15

September 20th (Thu) Conference Room I

10:00–11:30

36	Manabu Matsuoka * (Kuwana-Kita High School)	Polynomial realization of sequential codes	10
37	Yasuyuki Hirano (Naruto Univ. of Edu.) #	On rings with primitive idempotents	10
38	Satoshi Yamanaka (Okayama Univ.) # Shūichi Ikehata (Okayama Univ.)	On Galois polynomials of degree p in skew polynomial rings of derivation type	10
39	Akira Ueda (Shimane Univ.) * Monika Rianti Helmi (Andalas Univ.) Hidetoshi Marubayashi (Tokushima Bunri Univ.)	Skew Rees rings which are maximal orders	10
40	Takao Sumiyama (Aichi Inst. of Tech.)	On Szele matrices of finite rings	10
41	Tsunekazu Nishinaka # (Okayama Shoka Univ.)	On primitivity of group rings of one-relator groups	10
42	Kazutoshi Koike # (Okinawa Nat. Coll. of Tech.)	Morita duality and finite ring extensions	10
43	Hiroaki Komatsu (Okayama Pref. Univ.) *	A characterization of separable algebras by generalized derivations	10

11:30–12:00 Research Section Assembly**14:15–16:45**

44	Ryo Akiyama (Shizuoka Univ.) #	3-iterated quadratic Ore extensions	10
45	Kenta Ueyama (Shizuoka Univ.) #	Fixed subalgebras of AS-regular algebras under finite cyclic group actions	15
46	Yasuhiko Takehana # (Hakodate Nat. Coll. of Tech.)	A generalization of stable torsion theory	10
47	Hideto Asashiba (Shizuoka Univ.) # Mayumi Kimura (Shizuoka Univ.)	Derived equivalence classification of generalized multifold extensions of piecewise hereditary algebras of tree type	10
48	Hideto Asashiba (Shizuoka Univ.) #	Induced pseudofunctors and derived equivalences of oplax 2-representations of a category	15

49	Hiroki Abe (Oyama Nat. Coll. of Tech.) [#]	Tilting modules arising from two-term tilting complexes	10
50	Masahide Konishi (Nagoya Univ.) [#]	Selfinjectivity of algebras arising from tiling quivers and their potentials . . .	10
51	So Okada (Kyoto Univ.) [#]	On Euler characteristics for large Kronecker quivers	10
52	Takahiko Furuya (Tokyo Univ. of Sci.) [*] Takao Hayami (Hokkai-Gakuen Univ.)	Hochschild cohomology of cluster-tilted algebras of types A and D	15
53	Takuma Aihara (Chiba Univ.) Tokuji Araya (Tokuyama Coll. of Tech.) Osamu Iyama (Nagoya Univ.) Ryo Takahashi (Nagoya Univ./MSRI) Michio Yoshiwaki (Osaka City Univ.)	Dimensions of triangulated categories with respect to subcategories	15

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

Hyohe Miyachi (Nagoya Univ./Osaka City Univ.) [#]	Comparison between module categories over modular quantum general linear groups
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September 21st (Fri) Conference Room I

9:00–11:00

54	Tomohiro Iwami (Kyushu Sangyo Univ.) [*]	Certain refinements of a projectivity criterion according to V. V. Shokurov and the log minimal model program for slc pairs	10
55	Makoto Sakurai [#]	Geometric quantization of Wess–Zumino–Witten model and virtual localization formula	15
56	Shigeru Iitaka (Gakushuin Univ.) [#]	sharp estimate of the birational invariant k in terms of $(2,1)$ genera	15
57	Takanori Ayano (Osaka Univ.) [#]	On series expansion around the origin of sigma functions for telescopic curves	10
58	Tohru Gotoh (Nat. Defense Acad. of Japan) [*]	A holomorphic section relating to 2-pointed Weierstrass gap set	10
59	Kenta Watanabe (Osaka Univ.) [*]	On the Weierstrass semigroups for pointed curves on K3 surfaces with Picard number one	10
60	Ryo Kawaguchi (Kyushu Sangyo Univ.) [#]	Weierstrass gap sequences at total ramification points on curves on a toric surface	15
61	Katsuhisa Furukawa (Waseda Univ.) [#]	Duality with expanding maps and shrinking maps, and its applications to Gauss maps	15

11:00–12:00 Talk invited by Algebra Section

Yoshinori Gongyo (Univ. of Tokyo) [#]	Log pluricanonical representations and abundance
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14:15–15:45

62	Takayuki Hibi (Osaka Univ.) [#] Akihiro Higashitani (Osaka Univ.) Lukas Katthän (Univ. Marburg) Ryota Okazaki (Osaka Univ.)	Toric rings arising from cyclic polytopes	15
63	Kazunori Matsuda (Nagoya Univ.) [*] Takahiro Chiba (Nagoya Univ.)	Characterization of Gorenstein strongly Koszul Hibi rings by invariants of F -singularities	15
64	Futoshi Hayasaka (Kagoshima Nat. Coll. of Tech.) [*]	Asymptotic periodicity of primes associated to multigraded modules	10
65	Ryota Okazaki (Osaka Univ.) [#] Kohji Yanagawa (Kansai Univ.)	On a minimal free resolution of a Borel fixed ideal and its supporting CW complex	15

11 Geometry

- 66 Yosuke Kuratomi * On Goldie extending modules and extending modules 10
(Kitakyushu Nat. Coll. of Tech.)
- 67 Yousuke Kuratomi * On semi-lifting modules 10
(Kitakyushu Nat. Coll. of Tech.)

15:45–16:45 Talk invited by Algebra SectionShigeru Kuroda (Tokyo Metro. Univ.)[#] Wild automorphisms of a polynomial ring**Geometry**

September 18th (Tue) Conference Room VIII

9:00–12:00

- 1 Sadahiro Maeda (Saga Univ.) * Some characterizations of isoparametric hypersurfaces in a sphere 15
- 2 Sadahiro Maeda (Saga Univ.) * Congruence classes of minimal ruled real hypersurfaces in a nonflat complex
Toshiaki Adachi (Nagoya Inst. of Tech.) space form 15
Tuya Bao
(Inner Mongolia Univ. for Nat.)
- 3 Kazuhiro Okumura[#] η -Einstein real hypersurfaces in a nonflat complex space form 10
(Asahikawa Nat. Coll. of Tech.)
- 4 Kazuyuki Enomoto (Tokyo Univ. of Sci.)[#] Total torsion of curves in E^3 15
Jin-ichi Itoh (Kumamoto Univ.)
- 5 Naoyuki Koike (Tokyo Univ. of Sci.) * The classifications of certain kind of isoparametric submanifolds in non-compact
symmetric spaces 15
- 6 Makiko Tanaka (Tokyo Univ. of Sci.) * The intersection of two real forms in Hermitian symmetric spaces of compact
Hiroyuki Tasaki (Univ. of Tsukuba) type II 15
- 7 Hiroshi Iriyeh (Tokyo Denki Univ.) * On the structure of the intersection of real flag manifolds in a complex flag
Takashi Sakai (Tokyo Metro. Univ.) manifold 10
Hiroyuki Tasaki (Univ. of Tsukuba)
- 8 Akira Kubo (Hiroshima Univ.)[#] Congruency of orbits of the solvable parts of parabolic subgroups 10
Hiroshi Tamaru (Hiroshima Univ.)
- 9 Kastuei Kemnotsu (Tohoku Univ.) * On the global existence of generalized rotational hypersurfaces with prescribed
Takeyuki Nagasawa (Saitama Univ.) mean curvature in the Euclidean 15
- 10 Sung-Hong Min (KIAS)[#] Optimal isoperimetric inequalities for complete proper minimal submanifolds
Keomkyo Seo in hyperbolic space 15
(Sookmyung Women's Univ.)
- 11 Keomkyo Seo[#] Geometric inequalities for submanifolds with bounded mean curvature 15
(Sookmyung Women's Univ.)

14:15–16:00

- 12 Hironori Kumura (Shizuoka Univ.) Exit radii of submanifolds from cylindrical domains in warped product manifolds 15
- 13 Hiraku Nozawa (IHÉS) # On Haefliger cohomology of Riemannian foliations 15
José Ignacio Royo Prieto
(Univ. Basque Country)
- 14 Oliver Goertsches (Univ. Hamburg) # On vanishing and rigidity of basic cohomology of Sasakian manifolds 15
Hiraku Nozawa (IHÉS)
Dirk Töben (Univ. São Paulo)
- 15 Jesús Antonio Álvarez López # Characteristic classes of transversely homogeneous foliations 15
(Univ. Santiago de Compostela)
Hiraku Nozawa (IHÉS)
- 16 Seoung Dal Jung (Jeju Nat. Univ.) # Transverse Killing forms on foliated Riemannian manifolds 15
- 17 Hiraku Abe (Tokyo Metro. Univ.) # Schubert calculus for weighted Grassmannians 15
Tomoo Matsumura (KAIST)

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

- Toshihiro Shoda (Saga Univ.) # On Morse index of minimal surfaces

September 19th (Wed) Conference Room VIII + IX

10:30–10:45 Presentation Ceremony for 2012 Geometry Prize**10:50–11:50 Award Lecture for 2012 Geometry Prize**

- Ken'ichi Ohshika (Osaka Univ.) # Topological structure of deformation spaces of Kleinian groups

13:15–14:15 Award Lecture for 2012 Geometry Prize

- Yukinobu Toda (Univ. of Tokyo) # Stability conditions and Donaldson–Thomas type invariants on Calabi–Yau 3-folds

September 20th (Thu) Conference Room VIII

9:00–12:00

- 18 Hiroaki Izumi (Elpida Memory, Inc.) # The mathematical full solution of business cycle as a phase transition 15
- 19 Tetsuya Nagano (Univ. of Nagasaki) # Linear parallel displacements along a infinitesimal parallelogram and “curvature” 15
- 20 Tomoyo Kanazawa (Tokyo Univ. of Sci.) # Wigner function of the MIC-Kepler problem 10
Akira Yoshioka (Tokyo Univ. of Sci.)
- 21 Tsukasa Takeuchi (Tokyo Univ. of Sci.) # A recursion operator for the geodesic flow of Schwarzschild metric 10
Kiyonori Hosokawa (Tokyo Univ. of Sci.)
Shinsuke Takatani (Tokyo Univ. of Sci.)
- 22 Yukiko Konishi (Kyoto Univ.) * Mixed Frobenius structure and local A-model 15
Satoshi Minabe (Tokyo Denki Univ.)
- 23 Tomoaki Yatsui (Asahikawa Med. Univ.) # On the prolongations of free pseudo-product fundamental graded Lie algebras 10
- 24 Yuichiro Tanaka (Univ. of Tokyo) * Visible actions on flag varieties and a generalization of the Cartan decomposition 15

13 Complex Analysis

25	Yoshihiko Matsumoto (Univ. of Tokyo) [#]	The second variational formula of the total Q -curvature in conformal geometry	15
26	Hiroaki Ishida (Osaka City Univ.) [#]	Complex manifolds with maximal torus actions	15
27	Sanae Kurosu (Tokyo Univ. of Sci.) [*]	A characterization of a pluriharmonic affine immersion of codimension two	10
28	Hiroshi Matsuzoe (Nagoya Inst. of Tech.) [*] Takashi Kurose (Kwansei Gakuin Univ.) Masayuki Henmi (Inst. of Stat. Math.)	Quasi-statistical manifolds and geometry of affine distributions	10
29	Hiroshi Matsuzoe (Nagoya Inst. of Tech.) [*] Atsumi Ohara (Univ. of Fukui) Shun-ichi Amari (RIKEN)	Generalized conformal structures on statistical manifolds and geometry of q -exponential families	10

14:15–16:15

30	Shin Kikuta (Sophia Univ.)	Numerical comparison between Carathéodory measure hyperbolicity and positivity of canonical bundle along subvarieties	20
31	Mitsuhiro Imada (Keio Univ.) [#]	Normality of complex contact manifolds	15
32	Yohsuke Imagi (Kyoto Univ.) [*]	On the boundary of the Moduli space of special Lagrangian submanifolds ..	15
33	Hisashi Kasuya (Univ. of Tokyo) [*]	Vaisman metrics on solvmanifolds and Oeljeklaus–Toma manifolds	15
34	Mitsuhiro Itoh (Univ. of Tsukuba) [#] Hiroyasu Satoh (Tokyo Denki Univ.) Young Jin Suh (Kyungpook Nat. Univ.)	Rigidity, volume entropy and Kähler, quaternionic Kähler Hadamard manifolds	10
35	Peng Fei Bai (Nagoya Inst. of Tech.) [*] Toshiaki Adachi (Nagoya Inst. of Tech.)	On volumes of trajectory-balls for Kaehler magnetic fields	10
36	Ayato Mitsuishi (Tohoku Univ.) [*] Takao Yamaguchi (Univ. of Tsukuba)	Locally Lipschitz contractibility of Alexandrov spaces and its applications ..	20

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

Atsushi Kasue (Kanazawa Univ.) ^{*} Embedding of graphs and Rayleigh monotonicity law

Complex Analysis

September 18th (Tue) Conference Room II

10:00–12:00

1	Hitoshi Shiraishi (Kinki Univ.) [#]	Extensions of Nunokawa lemma for argument properties	15
2	Toshio Hayami (Kinki Univ.) [#]	A sufficient condition for p -valently harmonic functions	15
3	Tsubasa Itoh (Hokkaido Univ.) [#]	Modulus of continuity of p -Dirichlet solutions in a metric measure space ...	15
4	Rikio Yoneda (Otaru Univ. of Commerce) [*]	Toeplitz and Hankel operators on the Bergman spaces with closed range ...	15
5	Fumi-Yuki Maeda (Hiroshima Univ.) [*] Mizuta Yoshihiro (Hiroshima Inst. of Tech.) Takao Ohno (Oita Univ.) Tetsu Shimomura (Hiroshima Univ.)	Approximate identities and Young type inequalities in Musielak–Orlicz spaces	15

14:30–16:15

- 6 Yoshihiko Shinomiya (Tokyo Tech)[#] Veech holomorphic families of Riemann surfaces and Diophantine problems 15
- 7 Masahiro Yanagishita (Waseda Univ.)[#] Teichmüller distance and Kobayashi distance on subspaces of the universal Teichmüller space 15
- 8 Hideki Miyachi (Osaka Univ.)[#] A Characterization of biholomorphic automorphisms of Teichmüller space .. 15
- 9 Yohei Komori (Waseda Univ.)[#] On growth rates of 3-dimensional hyperbolic Coxeter prisms 15
- 10 Katsuhiko Matsuzaki (Waseda Univ.)[#] Conjugation of a circle diffeomorphism group to a Moebius group 15

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

- Toshiyuki Sugawa (Tohoku Univ.)[#] Generalization of the Schwarzian derivative —Towards more invariance and higher orders

September 19th (Wed) Conference Room II

10:00–12:00

- 11 Yan-Yan Wang (Nagoya Univ.)^{*} Variations of Bergman kernels for some explicitly given families of planar domains 20
- 12 Shin Kikuta (Sophia Univ.) On restricted Carathéodory pseudo-volume forms (corrections) 20
- 13 Sachiko Hamano (Fukushima Univ.)[#] Log-plurisubharmonicity of metric deformations induced by Schiffer and harmonic spans 15
- 14 Peter Duren (Univ. of Michigan)[#] Two-point distortion theorems for harmonic and pluriharmonic mappings .. 15
Hidetaka Hamada
(Kyushu Sangyo Univ.)
Gabriela Kohr (Babeş-Bolyai Univ.)
- 15 Ian Graham (Univ. of Toronto)[#] Extension operators and subordination chains 15
Hidetaka Hamada
(Kyushu Sangyo Univ.)
Gabriela Kohr (Babeş-Bolyai Univ.)
- 16 Satoru Shimizu (Tohoku Univ.) Diffeomorphisms between Siegel domains of the first kind preserving the holomorphic automorphism groups and applications 15
Akio Kodama (Kanazawa Univ.)

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

- Hiroshi Yamaguchi (Shiga Univ.)[#] Pseudoconvex domains in the Hopf surface

Functional Equations

September 18th (Tue) Conference Room III

9:00–12:00

- 1 Takashi Oyabu 10 talks including “Evolution equations of parabolic type” 5
- 2 Hidetoshi Tahara (Sophia Univ.)^{*} Summability of formal solutions of some linear partial differential equations 10
Hiroshi Yamazawa
(Shibaura Inst. of Tech.)

3	Masashi Yamaguchi (Univ. of Tokyo) [#] Sakai Hidetaka (Univ. of Tokyo)	Rigidity index and q -middle convolution of linear q -difference equations	10
4	Yoko Umeta (Hokkaido Univ.) [*]	Construction of general formal solutions for equations of the second Painlevé hierarchy	10
5	Tomonari Sei (Keio Univ.) [#] Akimichi Takemura (Univ. of Tokyo) Katsuyoshi Ohara (Kanazawa Univ.) Nobuki Takayama (Kobe Univ.)	Holonomic gradient descent for Fisher distribution on the rotation group $SO(3)$	10
6	Tamio Koyama (Kobe Univ./JST CREST) [#] Hiromasa Nakayama (Kobe Univ./JST CREST) Kenta Nishiyama (Osaka Univ./JST CREST) Nobuki Takayama (Kobe Univ./JST CREST)	The holonomic rank of the Fisher–Bingham system of differential equations	10
7	Mika Tanda (Kinki Univ.) [#] Takashi Aoki (Kinki Univ.)	Borel sums of Voros coefficients and parametric Stokes phenomena for hypergeometric differential equations	10
8	Kana Ando (Chiba Univ.) [*]	Numerical computation of Stokes multipliers	10
9	Shinji Sasaki (Kyoto Univ.) [#]	On the Borel summability of WKB-theoretic transformation series concerning fixed singularities	10
10	Masafumi Yoshino (Hiroshima Univ.) [#]	On connection problem of some Hamiltonian system	10
11	Hisashi Morioka (Univ. of Tsukuba) [#] Hiroshi Isozaki (Univ. of Tsukuba)	A Rellich type theorem for discrete Schrödinger operators	10
12	Hironori Kumura (Shizuoka Univ.) [*]	Limiting absorption principle on manifolds having ends with various measure growth rate limits	10
13	Haruya Mizutani (Kyoto Univ.) [#]	On Strichartz estimates for Schrödinger equations with unbounded electromagnetic potentials	10
14	Haruya Mizutani (Kyoto Univ.) [#]	Remarks on Strichartz estimates for Schrödinger equations on manifolds with ends	10
14:15–16:15			
15	Takehiro Nagaoka (Kyoto Univ.) [#] Yorimasa Oshime (Doshisha Univ.)	Asymptotic behavior of solutions of linear differential systems	10
16	Hideaki Matsunaga (Osaka Pref. Univ.) [#] Satoru Murakami (Okayama Univ. of Sci.) Yutaka Nagabuchi (Okayama Univ. of Sci.)	Formal adjoint operators and asymptotic formula for solutions of integral equations	10
17	Jitsuro Sugie (Shimane Univ.) [#] Tsunehiko Shimadu (Shimane Univ.) Takashi Yamasaki (Shimane Univ.)	Criteria for global asymptotic stability of damped superlinear oscillators	10
18	Kunihiko Taniguchi (Mojigakuen Senior High School) [*] Hiroyuki Usami (Gifu Univ.)	Extinction in a two-species nonautonomous Lotka–Volterra competition system	10
19	Shinji Adachi (Shizuoka Univ.) [*] Masataka Shibata (Tokyo Tech) Tatsuya Watanabe (Kyoto Sangyo Univ.)	Uniqueness and non-degeneracy of positive solutions for a class of quasilinear elliptic equations with general nonlinearities	10

20	Naoki Sioji (Yokohama Nat. Univ.) * Kohtaro Watanabe (Nat. Defense Acad. of Japan)	Radial symmetry of n -mode positive solutions for semilinear elliptic equations in a disc and its applications to the Hénon equation	10
21	Ryuji Kajikiya (Saga Univ.) *	Multiple bifurcations of solutions for one-dimensional p -Laplace equation . . .	10
22	Ryuji Kajikiya (Saga Univ.) *	Least energy solutions of the Hénon equation in point symmetric or reflectionally symmetric domains	10
23	Ryuji Kajikiya (Saga Univ.) *	Asymmetry of solutions for the Hénon equation in general symmetric domains	10

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

Satoshi Tanaka (Okayama Univ. of Sci.) #	Nonuniqueness of positive solutions of superlinear two-point boundary value problems - Symmetry-breaking of even positive solutions -
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September 19th (Wed) Conference Room III

9:00–12:00

24	Toru Kan (Tohoku Univ.) *	On non-radially symmetric solutions of the Liouville–Gel’fand equation on a two-dimensional annular domain	10
25	Mieko Tanaka (Tokyo Univ. of Sci.) *	The antimaximum principle and the existence of a solution for the generalized p -Laplace equations with indefinite weight	10
26	Mieko Tanaka (Tokyo Univ. of Sci.) * Dumitru Motreanu (Univ. de Perpignan)	Multiple existence results of solutions for quasilinear elliptic equations with a nonlinearity depending on a parameter	10
27	Tetsutaro Shibata (Hiroshima Univ.) *	Critical exponents of the asymptotic formulas for two-parameter variational eigencurves	10
28	Futoshi Takahashi (Osaka City Univ.) #	On the number of maximum points of least energy solution to a two-dimensional Hénon equation with large exponent	10
29	Shuichi Jimbo (Hokkaido Univ.) #	Regular domain variation and electromagnetic frequencies	10
30	Yasuhito Miyamoto (Keio Univ.) #	Global branches of sign-changing solutions to a semilinear Dirichlet problem in a disk	10
31	Yasuhito Miyamoto (Keio Univ.) #	A planar convex domain with many isolated hot spots on the boundary . . .	10
32	Goro Akagi (Kobe Univ.) # Ryuji Kajikiya (Saga Univ.)	Symmetry and stability of asymptotic profiles for fast diffusion equations . .	10
33	Goro Akagi (Kobe Univ.) # Ryuji Kajikiya (Saga Univ.)	Symmetry breaking of least energy solutions of Emden–Fowler equations . . .	10
34	Yuki Kaneko (Waseda Univ.) # Yoshio Yamada (Waseda Univ.)	A free boundary problem related to an ecological model in multi-dimensional annulus	10
35	Kazuhiro Oeda (Waseda Univ.) *	Stationary solutions for a prey-predator model with nonlinear diffusion and a protection zone	10
36	Yan-Yu Chen (Meiji Univ.) # Jong-Shenq Guo (Tamkang Univ.) Hirokazu Ninomiya (Meiji Univ.)	Existence and uniqueness of rigidly rotating spiral waves by a wave front interaction model	10
37	Keisuke Takasao (Hokkaido Univ.) * Yoshihiro Tonegawa (Hokkaido Univ.)	The existence of the weak solution for mean curvature flow with transport term	10
38	Masashi Mizuno (Nihon Univ.) * Yoshihiro Tonegawa (Hokkaido Univ.)	Boundary monotonicity formula for the Allen–Cahn equation with Neumann boundary condition	10

13:15–14:15 Talk invited by Functional Equations SectionNaoto Kumano-go (Kogakuin Univ.)[#] Phase space path integrals as analysis on path space

September 20th (Thu) Conference Room III

9:00–12:00

- 39 Michiaki Onodera (Tohoku Univ.)[#] A variational problem and a related geometric evolution equation 10
- 40 Aya Ishizeki (Saitama Univ.)^{*} The removability of singularity of density and the absolute integrability of
Takeyuki Nagasawa (Saitama Univ.) variational formulae for Möbius energy 10
- 41 Sachiko Ishida (Tokyo Univ. of Sci.)[#] Possibility of the blow-up in quasilinear degenerate Keller–Segel systems . . . 10
Takashi Ono
(Tokyo Jitsugyo High School)
Tomomi Yokota (Tokyo Univ. of Sci.)
- 42 Takashi Suzuki (Osaka Univ.)[#] Exclusion of boundary blowup for 2D chemotaxis system provided with Dirichlet boundary condition for the Poisson part 10
- 43 Masahiko Shimojo (Hokkaido Univ.)[#] Control of blow-up set by spatial inhomogeneous coefficient for a semilinear
Jong-Shenq Guo (Tamkang Univ.) parabolic equation 10
Chang-Shou Lin
(Nat. Taiwan Normal Univ.)
Yung-Jen Lin Guo
(Nat. Taiwan Normal Univ.)
- 44 Kazushige Nakagawa (Tohoku Univ.)^{*} The Phragmén–Lindelöf theorem of fully nonlinear systems for L^p -viscosity solutions with unbounded ingredients 10
- 45 Hiroyoshi Mitake (Fukuoka Univ.)^{*} On the large time behavior of solutions of Hamilton–Jacobi equations associated with nonlinear boundary conditions 10
Hitoshi Ishii (Waseda Univ.)
Guy Barles (Univ. de Tours)
- 46 Hiroyoshi Mitake (Fukuoka Univ.)^{*} Remarks on the large time behavior of viscosity solutions of quasi-monotone
Hung Vinh Tran (UC, Berkeley) weakly coupled systems of Hamilton–Jacobi equations 10
- 47 Atsushi Nakayasu (Univ. of Tokyo)^{*} Eikonal equations in metric spaces 10
Yoshikazu Giga (Univ. of Tokyo)
Nao Hamamuki (Univ. of Tokyo)
- 48 Gen Nakamura (Hokkaido Univ.)[#] Linear sampling method for identifying cavities in a heat conductor 10
Haibing Wang (Hokkaido Univ.)
- 49 Junichi Harada (Waseda Univ.)^{*} Some blow-up solutions of the heat equation with nonlinear boundary conditions 10
- 50 Yusuke Yamauchi (Waseda Univ.)^{*} Life span of positive solutions for the Cauchy problem for the parabolic equations 10
- 51 Masakazu Yamamoto (Hiroshima Univ.)^{*} Asymptotic behavior of solutions to the dissipative equation with anomalous diffusion 10
- 52 Michiyuki Watanabe (Niigata Univ.)^{*} Inverse scattering at fixed amplitude for nonlinear Schrödinger equations . . 10
- 53 Tomoyuki Niizato (Osaka Univ.)^{*} The decay rates of solutions to the non-linear dissipative-dispersive wave equations 10

12:10–12:30 Presentation Ceremony for 2012 Analysis Prize**14:15–16:15**

- 54 Yoshihisa Nakamura (Kumamoto Univ.) * Large time behavior of small solutions to multi-component nonlinear Schrödinger equations 10
Naoyasu Kita (Univ. of Miyazaki)
- 55 Kota Uriya (Tohoku Univ.) * Asymptotic behavior of a solution to a nonlinear Schrödinger system 10
Takayoshi Ogawa (Tohoku Univ.)
- 56 Hironobu Sasaki (Chiba Univ.) * Scattering problems for the one-dimensional nonlinear Dirac equation with power nonlinearity 10
- 57 Toshiyuki Suzuki (Tokyo Univ. of Sci.) # Energy methods for Hartree type equations with inverse-square potentials 10
- 58 Masahiro Ikeda (Osaka Univ.) # Remark on nonrelativistic limit for nonlinear Klein–Gordon system with mass resonance 10
Yuta Wakasugi (Osaka Univ.)
- 59 Nakao Hayashi (Osaka Univ.) * Asymptotic behavior of solutions to nonlinear Klein–Gordon equations in 1d 10
- 60 Norihisa Ikoma (Tohoku Univ.) * On compactness of minimizing sequences for some nonlinear Schrödinger system 10
- 61 Yohei Yamazaki (Kyoto Univ.) # Transverse instability for a system of nonlinear Schrödinger equations 10
- 62 Satoshi Masaki (Gakushuin Univ.) # On minimal non-scattering solution for L^2 subcritical nonlinear Schrödinger equation. 10
- 63 Shingo Ito (Tokyo Univ. of Sci.) * Estimates on modulation spaces for Schrödinger evolution operators with a potential 10
Keiichi Kato (Tokyo Univ. of Sci.)
Masaharu Kobayashi (Yamagata Univ.)

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

- Hideyuki Miura (Osaka Univ.) On fundamental solutions for fractional diffusion equations with divergence free drift

September 21st (Fri) Conference Room III

9:00–12:00

- 64 Ryosuke Hyakuna (Waseda Univ.) * On global solutions to the nonlinear Schrödinger equation with L^p -initial data 10
- 65 Tsukasa Iwabuchi (Chuo Univ.) * Ill-posedness for the nonlinear Schrödinger equations in one and two space dimensions 10
Takayoshi Ogawa (Tohoku Univ.)
- 66 Mamoru Okamoto (Kyoto Univ.) # Well-posedness of the Cauchy problem for the Chern–Simons–Dirac system 10
- 67 Shuji Machihara (Saitama Univ.) # Time global solutions in L^p for Chern–Simons–Dirac equation in 1+1 dimension 10
Takayoshi Ogawa (Tohoku Univ.)
- 68 Takamori Kato (Kyoto Univ.) # Unconditional well-posedness of the fifth order modified KdV equation with periodic boundary condition 10
Kotaro Tsugawa (Nagoya Univ.)
- 69 Eiji Onodera (Kochi Univ.) * A fourth-order dispersive flow into Kähler manifolds 10
Hiroyuki Chihara (Kagoshima Univ.)
- 70 Eiji Onodera (Kochi Univ.) * A fourth-order dispersive flow for closed curves on compact Riemann surfaces 10
- 71 Jun-ichi Segata (Tohoku Univ.) * Well-posedness for the fourth order nonlinear Schrödinger type equation on torus 10
- 72 Yusuke Sugiyama (Tokyo Univ. of Sci.) # Global solvability for some quasilinear wave equation in one space dimension 10

73	Hideo Kubo (Tohoku Univ.) [#] Ayako Osaka (Tohoku Univ.) Muhammet Yazici (Tohoku Univ.)	Existence and blow-up of solutions to nonlinear wave equations in one space dimension	10
74	Hiroyuki Takamura (Future Univ.-Hakodate) Kyouhei Wakasa (Future Univ.-Hakodate)	* The lifespan of solutions of a nonlinear wave equations with a quadratic term of non-single and indefinite sign in four space dimensions	10
75	Erika Ushikoshi (Tohoku Univ.) [*]	Hadamard variational formula for the Green function for the velocity and pressure of the Stokes equations with the Dirichlet boundary condition	10
76	Ken Abe (Univ. of Tokyo) [*] Yoshikazu Giga (Univ. of Tokyo)	The L^∞ -Stokes semigroup in exterior domains	10
77	Hirokazu Saito (Waseda Univ.) [#]	On the L_p - L_q maximal regularity of the Neumann–Dirichlet problem for the Stokes equations in an infinite layer	10
78	Miho Murata (Waseda Univ.) [#] Yoshihiro Shibata (Waseda Univ.)	On the sectorial \mathcal{R} -boundedness of the Stokes operator for the compressible viscous fluid flow	10
14:15–16:30			
79	Tomoyuki Nakatsuka (Nagoya Univ.) [*]	Uniqueness of steady Navier–Stokes flows in exterior domains	10
80	Hajime Koba (Univ. of Tokyo) [*]	Nonlinear stability of Ekman boundary layers in rotating stratified fluids	10
81	Tsukasa Iwabuchi (Chuo Univ.) [*] Ryo Takada (Kyoto Univ.)	Time periodic solutions to the Navier–Stokes equations in the rotational framework	10
82	Tsukasa Iwabuchi (Chuo Univ.) [*] Ryo Takada (Kyoto Univ.)	Global solutions for the Navier–Stokes equations in the rotational framework	10
83	Tsuyoshi Yoneda (Hokkaido Univ.)	A mathematical clue to the separation phenomena on the two-dimensional Navier–Stokes equation	10
84	Kei Matsuura (Waseda Univ.) [*] Mitsuharu Ôtani (Waseda Univ.)	Initial-boundary value problem for micropolar fluid equations with spin-vorticity interaction boundary condition	10
85	Noboru Chikami (Tohoku Univ.) [*]	The local existence and blow-up criterion of the compressible Navier–Stokes system with a Yukawa-potential	10
86	Jan Brezina (Kyushu Univ.) [#] Yoshiyuki Kagei (Kyushu Univ.)	Asymptotic behavior of solutions to the compressible Navier–Stokes equation around a time-periodic parallel flow	10
87	Masashi Ohnawa (Waseda Univ./Tokyo Tech) Shinya Nishibata (Tokyo Tech)	* On the convergence rates towards traveling waves for a model system of radiating gas	10
88	Masashi Ohnawa (Waseda Univ./Tokyo Tech) Shinya Nishibata (Tokyo Tech)	* Asymptotic stability of a stationary solution to the Euler–Poisson equations including fluid-boundary interaction	10
89	Masahiro Suzuki (Tokyo Tech) [*] Masahiro Takayama (Keio Univ.) Bongsuk Kwon (Ulsan Nat. Inst. of Sci. and Tech.)	Asymptotic behavior of solutions to a shallow water equation	10
90	Tetu Makino (Yamaguchi Univ.) [*]	Application of Nash–Moser theory to gasdynamics	10

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

	Katsuyuki Ishii (Kobe Univ.) [#]	Mathematical analysis of some algorithms for mean curvature flow	
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Real Analysis

September 20th (Thu) Conference Room II

10:00–11:45

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|---|--|---|
| 1 | Yuichi Kanjin (Kanazawa Univ.) [#]
Kunio Sato (Yamagata Univ.) | Hardy-type inequalities for the generalized Mehler transform 15 |
| 2 | Yutaka Terasawa (Univ. of Tokyo) [#]
Hitoshi Tanaka (Univ. of Tokyo) | Positive operators and maximal operators in a filtered measure space 15 |
| 3 | Yoshihiro Mizuta (Hiroshima Inst. of Tech.) [#]
Eiichi Nakai (Ibaraki Univ.)
Yoshihiro Sawano (Tokyo Metro. Univ.)
Tetsu Shimomura (Hiroshima Univ.) | Gagliardo–Nirenberg inequality for generalized Riesz potentials of functions in Musielak–Orlicz spaces 15 |
| 4 | Yohei Tsutsui (Waseda Univ.) | Weighted inequalities for convolution operators with smooth functions on Hardy spaces and an application to decay property of solutions to Navier–Stokes equations 15 |
| 5 | Takanori Yamamoto (Hokkai-Gakuen Univ.) [*]
Takahiko Nakazi (Hokusei Gakuen Univ.) | An argument of a function in $H^{1/2}$ 15 |
| 6 | Shinya Moritoh (Nara Women’s Univ.) [*] | Mulholland’s inequality revisited 10 |

14:15–15:40

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| 7 | Aoi Honda (Kyushu Inst. of Tech.) [#]
Yoshiaki Okazaki (Kyushu Inst. of Tech.)
Hiroshi Sato (Kyushu Univ.) | On the linearity and metrics of a new sequence space $\Lambda_2(f)$ 15 |
| 8 | Mikio Kato (Shinshu Univ.) [*]
Takayuki Tamura (Chiba Univ.) | Weak nearly uniform smoothness of direct sums of Banach spaces 15 |
| 9 | Mikio Kato (Shinshu Univ.) [*]
Yasuji Takahashi (Okayama Pref. Univ.) | On relations between $C_{NJ}(X)$ and $J(X)$ and a new geometric constant $A(X)$ 15 |
| 10 | Koji Aoyama (Chiba Univ.) [#] | Strong convergence of an iterative sequence for maximal monotone operators in a Hilbert space 15 |
| 11 | Sachiko Atsushiba (Univ. of Yamanashi) [#] | Nonlinear mean convergence theorems for nonlinear mappings 15 |

15:50–16:50 Talk invited by Real Analysis Section

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| | Jürgen Appell (Univ. Würzburg) [#] | Condensing operators and applications: old and new |
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September 21st (Fri) Conference Room II

9:40–12:00

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| 12 | Toshikazu Watanabe (Niigata Univ.) [#] | On non-additive measures which take values in an ordered topological vector space 15 |
| 13 | Yasunori Kimura (Toho Univ.) [#]
Kenzi Satô (Tamagawa Univ.) | Convergence of subsets of a complete geodesic space with curvature bounded above and its applications 15 |
| 14 | Yoichi Miyazaki (Nihon Univ.) [*] | A Method to evaluate resolvent kernels of elliptic operators 12 |

21 Functional Analysis

- 15 Noriaki Yamazaki (Kanagawa Univ.)[#] Optimal control of positive solutions to second order impulsive differential
Lingling Zhang (Taiyuan Univ. of Tech.) equations 15
Chengbo Zhai (Shanxi Univ.)
- 16 Makoto Nakamura (Tohoku Univ.)^{*} Remarks on global solutions for nonlinear wave equations under the standard
null conditions 10
- 17 Makoto Nakamura (Tohoku Univ.)^{*} The Cauchy problem for dissipative wave equations with weighted nonlinear
Hidemitsu Wadade (Gifu Univ.) terms 10
- 18 Yukino Tomizawa (Chuo Univ.)[#] Unique solutions to nonautonomous differential equations in Banach spaces
Yoshikazu Kobayashi (Chuo Univ.) 20
Naoki Tanaka (Shizuoka Univ.)
- 19 Motohiro Sobajima (Tokyo Univ. of Sci.)[#] Generalized Hardy–Rellich inequalities in \mathbb{R}^N for operators with singular first
order terms 15
- 20 Risei Kano (Kochi Univ.)[#] Asymptotic behavior of solutions for the tumor invasion models 15
Akio Ito (Kinki Univ.)

14:15–16:00

- 21 Hiroshi Watanabe (Salasian Polytechnic)[#] Entropy solutions to initial value problems for strongly degenerate parabolic
equations with discontinuous coefficients 15
- 22 Naoki Sato (Nagaoka Nat. Coll. of Tech.)[#] On a one dimensional free boundary problem for adsorption phenomena ... 20
Toyohiko Aiki (Japan Women's Univ.)
Yusuke Murase (Meijo Univ.)
- 23 Yusuke Murase (Meijo Univ.)[#] Existence results for a mathematical modeling for brewing process of Japanese
Akio Ito (Kinki Univ.) Sake 15
- 24 Shun Uchida (Waseda Univ.)^{*} The solvability of double-diffusive convection system with Soret's coefficient
Mitsuharu Ôtani (Waseda Univ.) depending on the concentration of solute 15
- 25 Goro Akagi (Kobe Univ.)[#] Doubly nonlinear parabolic equations involving variable exponents 15
- 26 Kota Kumazaki[#] On a mathematical model of moisture transport with a time-dependent poros-
(Tomakomai Nat. Coll. of Tech.) ity in concrete carbonation process 15

16:10–17:10 Talk invited by Real Analysis Section

- Okiihiro Sawada (Gifu Univ.)[#] The ill-posedness theory of the Navier–Stokes equations in the critical space

Functional Analysis

September 19th (Wed) Conference Room IV

9:45–11:50

- 1 Kazunori Ando (Univ. of Tsukuba)[#] Inverse scattering theory for discrete Schrödinger operators on the hexagonal
lattice 15
- 2 Hisashi Morioka (Univ. of Tsukuba)[#] Inverse scattering at a fixed energy for discrete Schrödinger operators on the
Hiroshi Isozaki (Univ. of Tsukuba) square lattice 15
- 3 Yuji Nomura (Ehime Univ.)[#] Landau levels of Schrödinger operators with periodic Aharonov–Bohm mag-
Takuya Mine (Kyoto Inst. Tech.) netic fields on the hyperbolic plane 15

4	Toshihisa Kubo (Univ. of Tokyo) #	Conformally invariant systems of second-order differential operators	20
5	Yoshinori Kametaka (Osaka Univ.) #	The best constant of discrete Sobolev inequality on a small Fullerene and Carbon nano tube	15
6	Jun Hong Ha (Korea Tech.) # Semion Gutman (Univ. of Oklahoma)	Unique identification for linearized sine-Gordon equation	15
7	Shin-ichi Nakagiri (Kobe Univ.) #	Identifiability of advection-diffusion equations	15

13:00–14:00 Talk invited by Functional Analysis Section

Kiyoomi Kataoka (Univ. of Tokyo) #	A system of fifth-order partial differential equations describing a surface which contains several continuous families of circular arcs
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September 20th (Thu) Conference Room IV

9:30–11:50

8	Kengo Matsumoto (Joetsu Univ. of Edu.) *	Full groups of one-sided topological Markov shifts and classification of Cuntz–Krieger algebras	15
9	Takahiro Sudo (Univ. of Ryukyus) #	Corona rank for Banach or C^* -algebras	15
10	Rui Okayasu (Osaka Kyoiku Univ.) #	Free group C^* -algebras associated with ℓ_p	15
11	Yusuke Isono (Univ. of Tokyo) #	Weak exactness for C^* -algebras and application to condition (AO)	15
12	Norio Nawata (Chiba Univ.) #	Fundamental group of uniquely ergodic Cantor minimal systems	15
13	Tsuyoshi Kajiwara (Okayama Univ.) # Yasuo Watatani (Kyushu Univ.)	Ideals of the core of C^* -algebras associated with self-similar maps	15
14	Hiroki Sako (Kyoto Univ.) *	Property A and the operator norm localization property for discrete metric spaces	15
15	Takahiro Hasebe (Kyoto Univ.) # Franz Lehner (Graz Univ. of Tech.)	Cumulants for spreadability system	15

14:15–16:30

16	Masaru Nagisa (Chiba Univ.) * Takashi Itoh (Gunma Univ.)	Characterization of the diagonality for operators	10
17	Masaru Nagisa (Chiba Univ.) # Masato Kawasaki (Chiba Univ.)	Some operator monotone functions	10
18	Takeaki Yamazaki (Toyo Univ.) # Yongdo Lim (Kyungpook Nat. Univ.)	On some matrix inequalities for the matrix power and Karcher means	10
19	Yuki Seo (Osaka Kyoiku Univ.) #	The Jensen inequality in an external formula	10
20	Mitsuru Uchiyama (Shimane Univ.) #	The principal inverse of the gamma function	15
21	Keiichi Watanabe (Niigata Univ.) *	An inequality between products of $x^p - 1$	15
22	Kei Ji Izuchi (Niigata Univ.) * Shūichi Ohno (Nippon Inst. of Tech.)	Sums of weighted composition operators on H^∞	10
23	Takuya Hosokawa (Ibaraki Univ.) * Shūichi Ohno (Nippon Inst. of Tech.)	Differences of weighted composition operators from the Bloch space to H^∞	15

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

Shūichi Ohno (Nippon Inst. of Tech.) *	Topological structure of the space of weighted composition operators on H^∞
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September 21st (Fri) Conference Room IV

9:30–11:50

24	Masatoshi Enooto (Koshien Univ.) [*] Yasuo Watatani (Kyushu Univ.)	Brick Hilbert representaions of the Kronecker quiver by perturbation of a finite rank operator	15
25	Reiji Tomatsu (Hokkaido Univ.) [#]	On a classification of Rohlin flows on von Neumann algebras	15
26	Satoshi Goto (Sophia Univ.) [#]	On a mixed quantum double construction of subfactors	10
27	Satoshi Goto (Sophia Univ.) [#]	On a generalization of quantum multiple construction of subfactors	10
28	Yoshikata Kida (Kyoto Univ.) [*]	Orbit equivalence invariants for actions of Baumslag–Solitar groups	15
29	Yoshikata Kida (Kyoto Univ.) [*]	Stability in orbit equivalence for Baumslag–Solitar groups and Vaes groups	15
30	Masafumi Sakao (Chiba Univ.) [#] Tatsuya Tsurii (Osaka Pref. Univ.) Satoe Yamanaka (Osaka Pref. Univ.) Satoshi Kawakami (Nara Univ. of Edu.)	The extension problem of discrete Abelian groups by hypergroups of order two	15
31	Akihito Wachi (Hokkaido Univ. of Edu.) [*]	Capelli identities of odd type	15
32	Hiroshi Yamashita (Hokkaido Univ.) [#] Fuhai Zhu (Nankai Univ.)	Quantization of singular quaternionic nilpotent K -orbits	15

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

	Mutsumi Saito (Hokkaido Univ.) [#]	Irreducible quotients of A -hypergeometric systems	
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Statistics and Probability

September 18th (Tue) Conference Room V

9:15–12:00

1	Tomoko Takemura (Nara Women's Univ.) [*] Matsuyo Tomisaki (Nara Women's Univ.)	Lévy measure density corresponding to inverse local time	15
2	Yuji Hamana (Kumamoto Univ.) [*] Hiroyuki Matsumoto (Aoyama Gakuin Univ.)	On the distributions of the first hitting times of Bessel processes	15
3	Yuji Hamana (Kumamoto Univ.) [*] Hiroyuki Matsumoto (Aoyama Gakuin Univ.)	On the expected volume of the Wiener sausage in even dimensions	15
4	Katusi Fukuyama (Kobe Univ.) [*] Sho Miyamoto	Metric discrepancy results for Erdős–Fortet sequence	5
5	Satoshi Ishiwata (Yamagata Univ.) [*] Hiroshi Kawabi (Okayama Univ.) Tsubasa Teruya (Okinawa Kaiho Bank)	An effect of fragile non-symmetry to the transition probability of random walks on the triangular lattice	15
6	Naoki Kubota (Nihon Univ.) [#]	Large deviations for simple random walk on supercritical percolation clusters	15

7	Daisuke Shiraishi (Kyoto Univ.) [#]	Cut points for simple random walks	15
8	Sergio Albeverio (Univ. Bonn) [#] Minoru W Yoshida (Tokyo City Univ.)	Probabilistic conclusion of constructive Euclidean $(\Phi_4)^4$ quantum field theory I	15
9	Itaru Mitoma (Saga Univ.) [#]	Asymptotic expansion for oscillatory integrals of Wiener functionals	25

14:15–14:45

10	Naoyuki Ichihara (Hiroshima Univ.) [*]	Criticality of Hamilton–Jacobi–Bellman equations and stochastic ergodic control	15
11	Masaaki Tsuchiya (Kanazawa Univ.) [*]	Probabilistic representation of weak solutions to a parabolic equation with a mixed boundary condition	15

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

Toshihiro Uemura (Kansai Univ.)[#] On jump-type Markov processes and the associated Dirichlet forms

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

Kazumasa Kuwada (Ochanomizu Univ.)[#] Coupling methods for heat distributions and curvature-dimension conditions

September 19th (Wed) Conference Room V

9:15–12:00

12	Takahiro Hasebe (Kyoto Univ.) [#] Noriyoshi Sakuma (Aichi Univ. of Edu.) Octavio Arizmendi (Univ. des Saarlandes)	Examples of infinitely divisible distributions in free probability	15
13	Sho Matsumoto (Nagoya Univ.) [#] Tomoyuki Shirai (Kyushu Univ.)	Correlation functions for real zeros of a Gaussian power series and Pfaffians	15
14	Akihiko Inoue (Hiroshima Univ.) [#] Yukio Kasahara (Hokkaido Univ.) Mohsen Pourahmadi (Texas A&M Univ.)	Multivariate completely nondeterministic stationary processes	15
15	Hiroki Hashiguchi (Saitama Univ.) [#] Yasuhide Numata (Univ. of Tokyo/JST CREST) Nobuki Takayama (Kobe Univ.) Akimichi Takemura (Univ. of Tokyo)	Holonomic gradient method for the distribution function of the largest root of a Wishart matrix	15
16	Tamio Koyama (Kobe Univ.) [#] Akimichi Takemura (Univ. of Tokyo)	Calculation of the orthant probability by the holonomic gradient method	15
17	Hajime Yamato (Kagoshima Univ.) [#]	Asymptotic distribution of number of distinct observations among a sample from mixture of Dirichlet processes	10
18	Yoichi Nishiyama (Inst. of Stat. Math.) [#]	Moment convergence of Z -estimators	15
19	Yoichi Nishiyama (Inst. of Stat. Math.) [#]	Z -process method for change point problems	15
20	Akio Tanikawa (Osaka Inst. of Tech.) [#] Hiro Mukai (Washington Univ.) Min Xu (Washington Univ.)	On the rate of convergence of the sequential quadratic method for differential games	10
21	Satoshi Suzuki (Shimane Univ.) [#] Daishi Kuroiwa (Shimane Univ.)	On surrogate duality for quasiconvex programming	20

12:05–12:35 Research Section Assembly

September 20th (Thu) Conference Room V

9:15–12:00

- 22 Yoshifumi Hyodo[#] Existence conditions for balanced fractional 2^m factorial designs of resolution $2\ell + 1$ derived from simple arrays 15
 (Okayama Univ. of Sci./Int. Inst. for Nat. Sci.)
 Hiromu Yumiba (Int. Inst. for Nat. Sci.)
 Masahide Kuwada
 (Int. Inst. for Nat. Sci.)
- 23 Sanpei Kageyama[#] The existence of 2 pairwise additive BIB designs 15
 (Hiroshima Inst. of Tech.)
 Kazuki Matsubara (Hiroshima Univ.)
- 24 Ryota Shinjo (Tokyo Univ. of Sci.)[#] Improved measure on extended marginal homogeneity for square contingency
 Kouji Yamamoto (Osaka Univ.) tables with ordered categories 10
 Sadao Tomizawa (Tokyo Univ. of Sci.)
- 25 Kouji Yamamoto (Osaka Univ.)[#] Generalized asymmetry model for cumulative probabilities and its decompo-
 Kouji Tahata (Tokyo Univ. of Sci.) sition for square tables 10
 Sadao Tomizawa (Tokyo Univ. of Sci.)
- 26 Kouji Tahata (Tokyo Univ. of Sci.)[#] Decomposition of symmetry using palindromic symmetry model for square
 Kouji Yamamoto (Osaka Univ.) contingency tables 10
 Sadao Tomizawa (Tokyo Univ. of Sci.)
- 27 Nobuhiro Taneichi (Kagoshima Univ.)[#] On asymptotic expansions of the null distributions of ϕ -divergence statistics
 Yuri Sekiya (Hokkaido Univ. of Edu.) for testing a logistic regression model 15
- 28 Kazuyoshi Yata (Univ. of Tsukuba)[#] PCA consistency for high-dimensional data under generalized models 15
 Makoto Aoshima (Univ. of Tsukuba)
- 29 Kenta Hamada (Waseda Univ.)[#] Shrinkage estimation and prediction for time series 15
 Masanobu Taniguchi (Waseda Univ.)
- 30 Yoshihide Kakizawa (Hokkaido Univ.)[#] Generalized Cordeiro–Ferrari Bartlett-type adjustment 10
- 31 Yoshihide Kakizawa (Hokkaido Univ.)[#] Third-order local powers of several Bartlett-type adjusted tests 15
- 32 Hiroki Masuda (Kyushu Univ.)[#] On self-normalized residuals of SDE 10

14:30–15:30 Talk invited by Statistics and Probability SectionShogo Kato (Inst. of Stat. Math.)[#] The Cauchy distribution on the circle and related statistical models**15:45–16:45 Talk invited by Statistics and Probability Section**Hidetoshi Murakami[#] Some saddlepoint approximations to the nonparametric tests and biased for
 (Nat. Defense Acad. of Japan) two-sided alternatives

Applied Mathematics

September 18th (Tue) Conference Room VI

9:30–12:00

- 1 Takamichi Sushida (Ryukoku Univ.)[#] Triangular spiral tilings 20
Akio Hizume (Ryukoku Univ.)
Yoshikazu Yamagishi (Ryukoku Univ.)
- 2 Midori Kobayashi (Univ. of Shizuoka)[#] Dudeney's round table problem and neighbour-balanced Hamilton decompo-
Nobuaki Mutoh (Univ. of Shizuoka) sitions 10
Gisaku Nakamura (Univ. of Shizuoka)
- 3 Tomoki Nakamigawa[#] A Ramsey type problem for multiple disjoint copies of induced subgraphs .. 10
(Shonan Inst. of Technology)
- 4 Shuya Chiba (Tokyo Univ. of Sci.)[#] Tutte cycles and Hamiltonicity of 4-connected claw-free graphs 20
Roman Čada (Univ. of West Bohemian)
Kenta Ozeki (Nat. Inst. of Information)
Petr Vrána (Univ. of West Bohemian)
Kiyoshi Yoshimoto (Nihon Univ.)
- 5 Norio Konno (Yokohama Nat. Univ.)[#] The graph isomorphism problem and quantum walk 15
Iwao Sato (Oyama Nat. Coll. of Tech.)
- 6 Iwao Sato (Oyama Nat. Coll. of Tech.)[#] Weighted zeta functions for quotients of regular coverings of graphs 15
Seiya Negami (Yokohama Nat. Univ.)
- 7 Hye Jin Jang (POSTECH)[#] On fat Hoffman graphs with smallest eigenvalue at least -3 10
Jack Koolen (POSTECH)
Akihiro Munemasa (Tohoku Univ.)
Tetsuji Taniguchi (Matsue Coll. of Tech.)
- 8 Chie Nara (Tokai Univ.)[#] Refold rigidity of convex polyhedra 15
Jin-ichi Itoh (Kumamoto Univ.)
Erik D. Demaine (MIT)
Martin L. Demaine (MIT)
Anna Lubiw (Univ. Waterloo)
Joseph O'Rourke (Smith Coll.)
- 9 Kazuhiko Ushio (Kinki Univ.)[#] Balanced (C_7, C_{12}) -foil designs and related designs 15

14:15–16:40

- 10 Yutaka Sueyoshi (Nagasaki Univ.)[#] On a construction of equitable round-robin tournaments with home-away as-
Ryuichi Harasawa (Nagasaki Univ.) signments 20
Aichi Kudo (Nagasaki Univ.)
- 11 Yasuo Katsumata (Asia Univ.)^{*} Analysis of a fuzzy Shapley value and its application 10
Sakae Tsuda (Kokugauin High School)
Kenichi Nagashima (Waseda Univ.)
Hajime Yamashita (Waseda Univ.)
- 12 Hiromasa Nakayama[#] Holonomic gradient descent method for the Fisher–Bingham distribution on
(Kobe Univ./JST CREST) the n -dimensional sphere 15
Tamio Koyama (Kobe Univ.)
Kenta Nishiyama
(Osaka Univ./JST CREST)
Nobuki Takayama (Kobe Univ.)

13	Myoungnyoung Kim (NIMS) [#] Tae Young Ha (NIMS) Eung Je Woo (Kyung-Hee Univ.) Oh In Kwon (Konkuk Univ.)	Improving reconstruction image using weighted voxel specific signal-to-noise ratios in MREIT	15
14	Hidehiro Shinohara (Tohoku Univ.) [#]	Square Lehman matrices which are not cores of minimally non-ideal clutters	15
15	Akira Saito (Nihon Univ.) [#] Mikio Kano (Ibaraki Univ.)	Star-factors with large components	15
16	Kenta Noguchi (Keio Univ.) [#]	Relations between current graphs, voltage graphs and cycle parities	15
17	Kenta Ozeki (Nat. Inst. of Information) [#]	Hamiltonicity of k -prism, a k -tree, a k -walk and a k -cycle cover of graphs	15

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

Yusuke Suzuki (Niigata Univ.) [#]	1-embedded graphs as seen from a viewpoint of re-embedding structures
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September 19th (Wed) Conference Room VI

9:30–12:15

18	Shunji Horiguchi (Niigata Sangyo Univ.) [#]	Convergence comparison in the conditional expressions II of Tsuchikura–Horiguchi’s method (Yoshimasu Murase–Newton type’s first enhancing recurrence formula)	15
19	Shunji Horiguchi (Niigata Sangyo Univ.) [#]	Nnumerical computations concerning elementary functions of a general convergence comparison in the conditional expression II of Tsuchikura–Horiguchi’s method	15
20	Yuji Katsuta (Ube Nat. Coll. of Tech.) [#] George Miyake (Ube Nat. Coll. of Tech.)	An analysis of a eight-order nonlinear symmetrical differential equation with dihedral group D_4 and odd function	20
21	Hirotake Yaguchi (Mie Univ.) [*]	Construction and security of hash functions based on β -transformations on $[1,2)$	15
22	Shy-Der Lin (Chung Yuan Christian Univ.) [*] Chia-Hung Lu (Chung Yuan Christian Univ.)	Particular solutions of associated Cauchy–Euler fractional partial differential equation	15
23	Noppharat Chaifong (Chuo Univ.) [#]	A dynamical model of human immune response to two type influenza virus infections	15
24	Eunok Jung (Konkuk Univ.) [#] Wanho Lee (Konkuk Univ.) Yongsam Kim (Chung-Ang Univ.)	Mathematical models of circulatory systems	15
25	Jeongwhan Choi (Korea Univ.) [#] Shu-Ming Sun (Virginia PolyTech) Sungim Whang (Ajou Univ.)	Supercritical surface waves generated by a negative or oscillatory forcing	15
26	Prashant Kumar (POSTECH) [#] Kim Kwang Ik (POSTECH)	Mathematical modelling of the ship hydrodynamics in Pohang New Harbor	15

September 20th (Thu) Conference Room VI

9:30–12:00

- 27 Kiyohisa Tokunaga (Fukuoka Inst. of Tech.)[#] The curl theorem of a triangular integral 15
- 28 Yoshihiro Saito (Gifu Shotoku Gakuen Univ.)[#] Numerical asymptotic stability of the θ -Maruyama simplified scheme 15
- 29 Shingo Saito (Kyushu Univ.)^{*} Relation between the premium principle based on Wang's transform and the Hermite polynomials 10
- 30 Koya Sakakibara (Meiji Univ.)[#] A new method approximating holomorphic functions by linear combinations of $1/(z - \zeta)$ I —Analysis in an elliptic domain— 15
- 31 Koya Sakakibara (Meiji Univ.)[#] A new method approximating holomorphic functions by linear combinations of $1/(z - \zeta)$ II —Analysis in an annular domain— 15
- 32 Shingo Iwami (Kyushu Univ.)[#] Modeling acute phase of viral infection 20
- 33 Michiel Bertsch (Univ. Rome Tor Vergata)[#] Traveling wave solutions arising in a tumour growth model with contact inhibition 15
Danielle Hilhorst (Univ. de Paris-Sud)
Hirofumi Izuhara (Meiji Univ.)
Masayasu Mimura (Meiji Univ.)
Tohru Wakasa (Kyushu Inst. of Tech.)
- 34 Tatsuki Mori (Ryukoku Univ.)[#] Numerical study on stationary solutions and the stability of a 2d SKT cross-diffusion equation 15
Shoji Yotsutani (Ryukoku Univ.)

14:15–16:40 Special Session —Medicine and Mathematics—

- Yasushi Okada (RIKEN)[#] Understanding the functions of biological molecular motors through modeling 45
- Motohisa Osaka (Nippon Veterinary and Life Sci. Univ.)[#] Applied mathematics on sudden cardiac death and rhythm 45
- Jun-ichi Okada (Univ. of Tokyo)[#] Multiscale multiphysics heart simulator based on finite element method 45

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

- Yuji Kodama (Ohio State Univ.)[#] KP solitons and Mach reflection in shallow water

September 21st (Fri) Conference Room VI

9:00–12:00

- 35 Junichi Nakagawa (Nippon Steel Corp.)[#] Evolution of local maximums of non-symmetric solutions to some reaction-diffusion systems 10
Gen Nakamura (Hokkaido Univ.)
Satoshi Sasayama (Hokkaido Univ.)
Haibing Wang (Hokkaido Univ.)
- 36 Kazumi Tanuma (Gunma Univ.)^{*} Perturbation of phase velocity of Rayleigh waves and Stoneley waves in anisotropic elastic media with orthorhombic principal part 15
Chi-Sing Man (Univ. of Kentucky)
Wenwen Du (Univ. of Kentucky)
- 37 Nobuyuki Higashimori (Hitotsubashi Univ.)[#] A direct numerical method for solving the initial boundary value problem of the three dimensional radiative transport equation 15
Hiroshi Fujiwara (Kyoto Univ.)

- 38 Xiao-Yu Zhang[#] Effective condition numbers of finite difference methods for elliptic equations
(Beijing Forestry Univ./Yamagata Univ.) with singularities 15
Qing Fang (Yamagata Univ.)
- 39 Masashi Katsurada (Meiji Univ.)[#] Eigenvalue problems of the biharmonic operator in a square region —Finite
Yuki Hirano (Anjo Higashi High School) difference analysis of chladni figures 15
- 40 Kaname Matsue (Tohoku Univ.)[#] Rigorous numerical verification of saddle-saddle connections 20
Nobito Yamamoto
(Univ. of Electro-Comm.)
- 41 Tomohiro Hiwaki[#] Numerical verification of a domain included by the basin of a limit cycle . . . 20
(Univ. of Electro-Comm.)
Nobito Yamamoto
(Univ. of Electro-Comm.)
- 42 Takehiko Kinoshita (Kyoto Univ.)[#] A numerical verification method for solutions of IVP for ODEs using a lin-
Takuma Kimura (Waseda Univ.) earized inverse operator 15
Mitsuhiro T. Nakao
(Sasebo Nat. Coll. of Tech.)
- 14:15–16:30**
- 43 Yoshitaka Watanabe (Kyushu Univ.)[#] A numerical verification of the invertibility of linear operators with inverse
Mitsuhiro T. Nakao norm estimations 15
(Sasebo Nat. Coll. of Tech.)
- 44 Kenta Kobayashi (Hitotsubashi Univ.)[#] The circumradius condition on triangular elements and its applications 20
Takuya Tsuchiya (Ehime Univ.)
- 45 Fumio Kikuchi[#] Strong L^p convergence associated with Rellich-type discrete compactness for
(Hitotsubashi Univ./Univ. of Tokyo) discontinuous Galerkin FEM 20
Daisuke Koyama
(Univ. of Electro-Comm.)
- 46 Daisuke Koyama[#] An optimized Schwarz method for acoustic radiation problems 20
(Univ. of Electro-Comm.)
- 47 Hirofumi Notsu (Waseda Univ.)[#] Error estimates of a pressure-stabilized characteristics finite element scheme
Masahisa Tabata (Waseda Univ.) for the Oseen equations 20
- 48 Hiroshi Kanayama (Kyushu Univ.)[#] Domain decomposition computation of thermal convection problems based on
the characteristic curve method 20
- 16:45–17:45 Talk invited by Applied Mathematics Section**
Daisuke Tagami (Kyushu Univ.)[#] Numerical analysis of flow problems with finite element methods —From error
analysis to parallel computations

Topology

September 18th (Tue) Conference Room IX

9:15–12:00

- 1 Masayuki Kawashima[#] On torus decompositions and line degenerated torus curves 10
(Tokyo Univ. of Sci.)

2	Misako Yokoyama (Shizuoka Univ.) [#] Yoshihiro Takeuchi (Aichi Univ. of Edu.)	Finding a system of essential 2-suborbifolds	15
3	Selman Akbulut (Michigan State Univ.) [*] Kouichi Yasui (Hiroshima Univ.)	Gluck twisting 4-manifolds with odd intersection form	10
4	Takuya Sakasai (Univ. of Tokyo) [#] Masaaki Suzuki (Akita Univ.) Shigeyuki Morita (Univ. of Tokyo)	The abelianization of the symplectic derivation Lie algebra of the free associative algebra	15
5	Kazuki Toda (Univ. of Tokyo) [*]	The second cohomology of the homological Goldman Lie algebra	10
6	Nariya Kawazumi (Univ. of Tokyo) [#] Yusuke Kuno (Tsuda Coll.)	On the Turaev cobracket and the Morita traces	20
7	Jong Bum Lee (Sogang Univ.) [#]	The geometry of Sol^3	15
8	Suyoung Choi (Ajou Univ.) [#] Hanchul Park (Ajou Univ.)	Rational homology of real toric variety over graph associahedra	15
9	Junhui Kim (Wonkwang Univ.) [#]	A non-2-starcompact Tychonoff space whose hyperspace is 2-starcompact	15
14:15–16:00			
10	Kenshi Ishiguro (Fukuoka Univ.) [#] Shotaro Kudo (Fukuoka Univ.) Tomohiro Nakano (Wajiro Junior High School)	Pairings and monomorphisms of classifying spaces	10
11	Tomohisa Inoue (Shinshu Univ.) [#] Juno Mukai (Matsumoto Univ.)	The 31-stem homotopy groups of 9 and 10-dimensional spheres	10
12	Ippeichiro Ichigi (Kochi Nat. Coll. of Tech.) Katsumi Shimomura (Kochi Univ.) Yutaro Terahara (Kochi Univ.)	The homotopy groups of a type two spectrum grading over the Picard group of \mathcal{L}_2	15
13	Takahito Naito (Shinshu Univ.) [#]	String topology on rational Gorenstein spaces	15
14	Ryo Kato (Nagoya Univ.) [#] Katsumi Shimomura (Kochi Univ.) Yutaro Tatehara (Kochi Univ.)	On the generalized retract conjecture	10
15	Tadayuki Haraguchi (Okayama Univ.) [*]	Model structure of numerically generated spaces	15

16:20–17:20 Talk invited by Topology SectionToshio Sumi (Kyushu Univ.)^{*} The Smith equivalence problem and Smith sets of Oliver groups

September 19th (Wed) Conference Room VIII + IX

10:30–10:45 Presentation Ceremony for 2012 Geometry Prize**10:50–11:50 Award Lecture for 2012 Geometry Prize**Ken'ichi Ohshika (Osaka Univ.)[#] Topological structure of deformation spaces of Kleinian groups**13:15–14:15 Award Lecture for 2012 Geometry Prize**Yukinobu Toda (Univ. of Tokyo)[#] Stability conditions and Donaldson–Thomas type invariants on Calabi–Yau 3-folds

September 20th (Thu) Conference Room IX

9:30–11:45

- 16 Takuji Nakamura* The state numbers of plane curves and knots 10
 (Osaka Electro-Comm. Univ.)
 Yasutaka Nakanishi (Kobe Univ.)
 Shin Satoh (Kobe Univ.)
 Yumi Toyama (Kobe Univ.)
- 17 Reiko Shinjo (Waseda Univ.)[#] On the inclusive relation of three properties of knot diagrams 10
 Kokoro Tanaka (Tokyo Gakugei Univ.)
- 18 Kokoro Tanaka (Tokyo Gakugei Univ.)[#] Interpretation of rack coloring knot invariants in terms of quandles 15
 Yuma Taniguchi (Tokyo Gakugei Univ.)
- 19 Masao Hara (Tokai Univ.)[#] On Jones polynomials of alternating pretzel knots 10
 Makoto Yamamoto (Chuo Univ.)
- 20 Atsuhiko Mizusawa (Waseda Univ.)[#] Yokota type invariants for oriented spatial graphs derived from Costantino–
 Murakami’s invariants 15
- 21 Kenta Okazaki (Kyoto Univ.)[#] On the Turaev–Viro–Ocneanu invariants of 3-manifolds associated with the
 E_6 and E_8 subfactor planar algebras 10
- 22 Inasa Nakamura (Gakushuin Univ.)[#] Unknotting numbers and triple point cancelling numbers of torus-covering
 knots 10
- 23 Yeonhee Jang (Nara Women’s Univ.)[#] Distance of bridge presentations of links and essential surfaces in the link
 exteriors 15

14:15–15:40

- 24 Kengo Kishimoto (Osaka Inst. of Tech.)[#] Simple ribbon fusions for links II 10
 Tetsuo Shibuya (Osaka Inst. of Tech.)
 Tatsuya Tsukamoto
 (Osaka Inst. of Tech.)
- 25 Tetsuya Abe (Kyoto Univ.)[#] Annulus twists and diffeomorphic 4-manifolds 15
 In Dae Jong (Osaka Pref. Univ.)
- 26 Tetsuya Abe (Kyoto Univ.)[#] Omae’s knot and 12_{a990} are ribbon 15
 Motoo Tange (Univ. of Tsukuba)
- 27 Yuichi Yamada (Univ. of Electro-Comm.)[#] Divide knot presentations of sporadic knots of Berge’s lens space surgery .. 10
- 28 Motoo Tange (Univ. of Tsukuba)[#] Primitive/Seifert knots in the Poincaré homology sphere 15

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

- Koya Shimokawa (Saitama Univ.)[#] Tangle analysis of site-specific recombinations

September 21st (Fri) Conference Room IX

9:15–12:00

- 29 Yusuke Mizota (Kyushu Univ.)[#] Explicit construction of generators for the module of liftable vector fields .. 15
- 30 Masaru Kada (Osaka Pref. Univ.)[#] Galois–Tukey connection involving order structures of metrics 20
 Yasuo Yoshinobu (Nagoya Univ.)
- 31 Hanbiao Yang (Univ. of Tsukuba)* Metrization of function spaces with the Fell topology 10
- 32 Katsuhisa Koshino (Univ. of Tsukuba)* Characterizing infinite-dimensional manifolds and its applications 15

33	Jun Yagi (Kochi Univ.) [#] Satoru Goto (Tokyo Univ. of Sci.) Yutaka Hemmi (Kochi Univ.) Kazushi Komatsu (Kochi Univ.)	The topology of a model for ringed hydrocarbon molecules	15
34	Akihiro Higashitani (Osaka Univ.) [#] Mikiya Masuda (Osaka City Univ.)	Lattice multi-polygons	15
35	Takami Sato (Hokkaido Univ.) [#]	Curves on a spacelike surface in three dimensional Lorentz–Minkowski space	10
36	Shin Kiriki (Kyoto Univ. of Edu.) [#] Teruhiko Soma (Tokyo Metro. Univ.)	Existence of generic cubic homoclinic tangencies for Hénon maps	15
37	Toshikazu Ito (Ryukoku Univ.) [*] Bruno Scárdua (Univ. Fed. Rio de Janeiro) Yoshikazu Yamagishi (Ryukoku Univ.)	Degeneracy locus of critical points of the distance function on a holomorphic foliation	10

Infinite Analysis

September 18th (Tue) Conference Room VII

9:30–11:45

1	Kazuo Kaneko (Yokkaichi Univ.) [*]	Special solutions to the four dimensional Painlevé type equations 21,21,111,111 and 31,22,22,1111	15
2	Seiji Nishioka (Yamagata Univ.) [#]	Approximation of Poincaré’s new functions by rational functions	15
3	Yoshikatsu Sasaki (Hiroshima Univ.) [#]	Third-degree superintegrable system solved by the sixth Painlevé transcen- dents	15
4	Hajime Nagoya (Kobe Univ.) [#]	Realizations of affine Weyl group symmetries on the quantum Painlevé equa- tions by fractional calculus	15
5	Hajime Nagoya (Kobe Univ.) [#] Yasuhiko Yamada (Kobe Univ.)	Symmetries of quantum Lax equations for the Painlevé equations	15
6	Koji Hasegawa (Tohoku Univ.) [#]	Lax form for quantum discrete Painlevé VI equation	20
7	Gen Kuroki (Tohoku Univ.) [#]	Sato–Wilson formalisms for quantum birational Weyl group actions of type A	30

14:15–14:45

8	Edwin Langmann (Roy. Inst. of Tech. Sweden) Kouichi Takemura (Chuo Univ.)	Source identity and kernel functions for Inozemtsev-type systems	15
9	Masatoshi Noumi (Kobe Univ.) Jun’ichi Shiraishi (Univ. of Tokyo)	Bispectral problem for the Ruijsenaars–Macdonald q -difference operators . .	15

15:00–16:00 Talk invited by Infinite Analysis Special Session

	Junichi Shiraishi (Univ. of Tokyo) [#]	Vertex operators, Nekrasov partition functions and Macdonald polynomials	
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September 19th (Wed) Conference Room VII

10:30–11:50

- 10 Taichiro Takagi[#] Commuting time evolutions in the tropical periodic Toda lattice 15
(Nat. Defense Acad. of Japan)
- 11 Atsuo Kuniba (Univ. of Tokyo)[#] Tetrahedron equation and quantum R matrices for spin representations 10
Sergey Sergeev (Univ. of Canberra)
- 12 Ryosuke Kodera (Kyoto Univ.)^{*} Self-extensions and prime factorizations for simple $U_q(Lsl_2)$ -modules 15
- 13 Jun Murakami (Waseda Univ.)[#] Quantum $6j$ -symbols for non-integral highest weight representations of $U_q(sl_2)$
at root of unity 15
- 14 Motohiro Ishii (Univ. of Tsukuba)[#] Path model for representations of generalized Kac–Moody algebras 15

13:30–14:30 Talk invited by Infinite Analysis Special Session

- Yoshiyuki Kimura (Osaka City Univ.)[#] Quiver varieties and quantum cluster 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 ‡ marks denote PC presentations. 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 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

Smoking is not allowed in any building on the Ito Campus. You may, however, find outdoor smoking spaces.

You can take lunch in Student Cafeteria in the building of Conference Rooms, a restaurant named BIG ORRANGE, and in a Chinese restaurant TEN-TEN in Inamori Memorial Hall.

The Mathematical Society of Japan has set up a webpage

<http://mathsoc.jp/i/>

which can be accessed by cell phones during the meeting. The Organizing Committee may announce there urgent notices such as traffic information on a typhoon storm day.

Official Party

Time: September 19th (Wed), 18:00–20:00

Venue: Inamori Center, Inamori Hall

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

Directions

2012 MSJ AUTUMN MEETING

Dates : September 18th (Tue)–21st (Fri), 2012
Venue : Ito Campus, Kyushu University
Address : Motooka 744, Nishi-ku, Fukuoka
Contact to : Faculty of Mathematics, Kyushu Univeristy
 Motooka 744, Nishi-ku, Fukuoka
 Phone +81 (0) 92 802 4402
 Fax +81 (0) 92 802 4405
 E-mail kyushu12sept@mathsoc.jp
During session : Phone +81 (0) 80 4060 7734
 Fax +81 (0) 92 802 4405
Web Site : <http://mathsoc.jp/en/meeting/kyushu12sept/>

Conference Rooms

	Room Number	Research Sections
Conference Room I	Center Zone Bldg. No. 2, Room 2308	Algebra
Conference Room II	Center Zone Bldg. No. 2, Room 2307	Complex Analysis, Real Analysis, Featured Invited Talks
Conference Room III	Center Zone Bldg. No. 2, Room 2306	Functional Equations
Conference Room IV	Center Zone Bldg. No. 2, Room 2305	Functional Analysis
Conference Room V	Center Zone Bldg. No. 2, Room 2304	Statistics and Probability
Conference Room VI	Center Zone Bldg. No. 2, Room 2407	Applied Mathematics, Featured Invited Talks
Conference Room VII	Center Zone Bldg. No. 2, Room 2406	Infinite Analysis, Foundation of Mathematics and History of Mathematics, Featured Invited Talk
Conference Room VIII	Center Zone Bldg. No. 2, Room 2404	Geometry
Conference Room IX	Center Zone Bldg. No. 2, Room 2403	Topology, Featured Invited Talks
Plenary Talks	Center Zone Bldg. No. 2, Room 2403 + 2403	
Open Lectures for Citizens	Faculty of Mathematics Bldg., Large Lecture Room No. 3	

All the conference rooms are in the Center Zone Building No. 2 on the 3rd and 4th floors. Moreover below is the list of rooms with important function:

Other Rooms

Extended Abstracts and Membership	Center Zone Bldg. No. 2, Room 2211
Discussion Rooms	Center Zone Bldg. No. 2, Room 2212, 2310, 2409
Book Display and Sale	Center Zone Bldg. No. 2, Room 2215, 2216
Executive Committee, MSJ President	Center Zone Bldg. No. 2, Room 2214
Official Party	Inamori Center, Inamori Hall