

Algebra

March 21st (Sat) Conference Room Ia

9:30–12:00

- 02-01-0022
1 Akiyoshi Tsuchiya (Osaka Univ.) The δ -vectors of reflexive polytopes and of the dual polytopes 15
- 02-01-0018
2 Akihiro Higashitani (Kyoto Univ.) Unimodality of δ -vectors and two related properties 15
- 02-01-0019
3 Akihiro Higashitani (Kyoto Univ.) Characterization of symmetric δ -trinomial 10
Benjamin Nill (Stockholm Univ.)
Akiyoshi Tsuchiya (Osaka Univ.)
- 02-01-0049
4 Naoki Taniguchi (Meiji Univ.) Sequentially Cohen–Macaulay Rees modules 15
- 02-01-0042
5 Yusuke Nakajima (Nagoya Univ.) Ulrich modules over cyclic quotient surface singularities 15
- 02-01-0004
6 Hidefumi Ohsugi * Centrally symmetric configurations of order polytopes 15
(Kwansei Gakuin Univ.)
Kazuki Shibata (Rikkyo Univ.)
Takayuki Hibi (Osaka Univ.)
Kazunori Matsuda (Rikkyo Univ.)
- 02-01-0041
7 Kei-ichiro Iima * On the locally Gorensteinness and Serre’s (S_n) -condition of modules 15
(Nara Nat. Coll. of Tech.)
Tokuji Araya (Okayama Univ. of Sci.)
- 02-01-0051
8 Mitsuhiro Miyazaki * Actions of special linear groups to tensors of indeterminates and sagbi bases of the rings of invariants 15
(Kyoto Univ. of Edu.)

14:15–17:00

- 02-01-0008
9 Takahisa Kawada Invariant code and its efficient decoding 10
(Nagoya Inst. of Tech.)
- 02-01-0034
10 Tetsuya Uematsu Uniform generators of the Brauer group of affine diagonal quadrics ... 10
(Toyota Nat. Coll. of Tech.)
- 02-01-0021
11 Tomohiro Iwami * Kawamata conjecture in the sense of Iskovskikh–Shokurov and variation of mixed Hodge structures for the associated algebraic fiber spaces ... 10
(Kyushu Sangyo Univ.)
- 02-01-0053
12 Humihiko Watanabe * Twisted cohomology of the complement of theta divisors having normal crossings 10
(Kitami Inst. of Tech.)
- 02-01-0009
13 Kenta Watanabe (Osaka Univ.) * On the splitting of Lazarsfeld–Mukai bundles of rank 2 on K3 surfaces 10
- 02-01-0020
14 Kiwamu Watanabe (Saitama Univ.) * Fano manifolds with nef tangent bundle and large Picard number ... 15
- 02-01-0033
15 Tomoaki Shirato (Nagoya Univ.) Frobenius splitting for some elliptic surfaces 15
- 02-01-0059
16 Yukiko Konishi (Kyoto Univ.) Mixed Frobenius structure and local quantum cohomology 10
Satoshi Minabe (Tokyo Denki Univ.)
- 02-01-0056
17 Makoto Sakurai Tannakian categories and chiral fermions 15
- 02-01-0002
18 Tetsuya Ando (Chiba Univ.) Discriminants of homogeneous inequalities 15
- 02-01-0011
19 Shigeru Iitaka (Gakushuin Univ.)* Ultimate perfect numbers and φ -perfect numbers 10

17:15–18:15 Talk Invited by Algebra Section

[02-02-0001](#) Kazushi Ueda (Osaka Univ.)^b Moduli of relations of quivers

March 22nd (Sun) Conference Room Ib

9:30–12:00

- [02-01-0029](#) 20 Michio Yoshiwaki (Osaka City Univ.)^{*} Relative derived dimensions for cotilting modules 10
- [02-01-0039](#) 21 Hiroataka Koga (Tokyo Denki Univ.) Rings derived equivalent to \mathbb{Z} 10
- [02-01-0048](#) 22 Satoshi Yamanaka (Okayama Univ.) On weakly separable polynomials in skew polynomial rings 10
- [02-01-0052](#) 23 Gahee Kim (Shizuoka Univ.) Calabi–Yau property of 3-dimensional quadratic AS-regular algebras
Sho Matsuzawa (Shizuoka Univ.) 10
- [02-01-0047](#) 24 Kenta Ueyama (Hirosaki Univ.) Cyclic ample groups acting on the graded down-up algebra $A(0,1)$... 10
- [02-01-0025](#) 25 Yoshifumi Tsuchimoto (Kochi Univ.) On structure of non commutative projective varieties as non commutative Kähler maifolds 15
- [02-01-0063](#) 26 Daiki Obara (Tokyo Univ. of Sci.) On the Hochschild cohomology ring modulo nilpotence of the quiver algebra defined by c cycles and a quantum-like relation 15
- [02-01-0065](#) 27 Tomohiro Itagaki (Tokyo Univ. of Sci.) Notes on the Hochschild homology dimension and truncated cycles ... 10
Katsunori Sanada (Tokyo Univ. of Sci.)
- [02-01-0005](#) 28 Ryo Kanda (Nagoya Univ.)^b Minimal atoms in Grothendieck categories 15
- [02-01-0028](#) 29 Masashi Kosuda (Univ. of Ryukyus)^b Coxeter elements of the symmetric groups whose powers afford the longest 10

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

[02-02-0003](#) Jun-ichi Miyachi (Tokyo Gakugei Univ.)^b Homotopy categories and derived categories of N -complexes

March 23rd (Mon) Conference Room Ib

9:30–11:45

- [02-01-0036](#) 30 Masanori Ando (Wakhol Univ.) Odd number and trapezoidal number 10
- [02-01-0038](#) 31 Shuhei Kamioka (Kyoto Univ.) Application of biorthogonal polynomials and the discrete two-dimensional Toda molecule to rhombus tilings 10
- [02-01-0040](#) 32 Tsunekazu Nishinaka (Okayama Shoka Univ.) On primitivity of non-noetherian group algebras 10
- [02-01-0046](#) 33 Kenichi Shimizu (Nagoya Univ.) Frobenius properties of tensor functors 15
- [02-01-0064](#) 34 Hironori Oya (Univ. of Tokyo) The representations of quantized function algebras and the transition matrices between canonical bases and PBW bases 15
- [02-01-0030](#) 35 Fumihito Oda (Kinki Univ.) The table of marks, the Kostka matrix, and the character table of the symmetric group 10
Hokuto Idei (Yamagata Univ.)
- [02-01-0057](#) 36 Hiroki Ishioka (Tokyo Univ. of Sci.) Brauer indecomposability of Scott modules 15
Naoko Kunugi (Tokyo Univ. of Sci.)
- [02-01-0032](#) 37 Katsushi Waki (Yamagata Univ.) Subgroups of J_4 for amalgamation 10

02-01-0017	38	<u>Masahiko Miyamoto</u> (Univ. of Tsukuba) Matthew Krauel (Univ. of Cologne)	Representation of regular commutant	10
14:15–14:30				
14:30–15:30 Award Lecture for the 2015 MSJ Algebra Prize				
02-02-0004		Syu Kato (Kyoto Univ.)	On affine highest weight categories arising from quantum groups and Hecke algebras and its applications	
15:45–18:30				
02-01-0062	39	Akinari Hoshi (Niigata Univ.)	Birational classification of fields of invariants for groups of order 128	15
02-01-0045	40	Tomohiro Ooto (Univ. of Tsukuba)	Quadratic approximation in the field of formal Laurent series	10
02-01-0026	41	Hajime Kaneko (Univ. of Tsukuba)	On the nonzero digits of the beta expansions of algebraic numbers . . .	15
02-01-0043	42	Tomoya Machide (Nat. Inst. of Information)	On congruence identities of regularized multiple zeta values	10
02-01-0024	43	<u>Masataka Ono</u> (Keio Univ.) Shuji Yamamoto (Keio Univ.)	Shuffle product of finite multiple polylogarithms	15
02-01-0031	44	Shin-ya Kadota (Nagoya Univ.)	A certain weighted sum formula for multiple zeta values	10
02-01-0054	45	Takuya Okamoto (Nippon Inst. of Tech.) <u>Tomokazu Onozuka</u> (Nagoya Univ.)	Functional equation for the Mordell–Tornheim multiple zeta-function	10
02-01-0044	46	<u>Takuya Okamoto</u> (Nippon Inst. of Tech.) Tomokazu Onozuka (Nagoya Univ.)	On the various mean values of the Dirichlet L -functions	10
02-01-0060	47	Hideaki Morita (Muroran Inst. of Tech.)	Combinatorial zetas and monoids	10
02-01-0061	48	Yukihiro Hattori (Muroran Inst. of Tech.) <u>Hideaki Morita</u> (Muroran Inst. of Tech.)	Koyama–Nakajima’s L -functions and Ruelle zetas	15
02-01-0014	49	Soichi Ikeda (Nagoya Univ.) ^b Isao Kiuchi (Yamaguchi Univ.) <u>Kaneaki Matsuoka</u> (Nagoya Univ.)	Power moments for the double zeta-function	10
02-01-0058	50	Hidekazu Tanaka (Tokyo Tech) ^b	Transcendence of special values of log double sine function	10

March 24th (Tue) Conference Room Ib

9:30–12:00

02-01-0055	51	Kenichi Shimizu	* On SP numbers (II)	10
02-01-0027	52	Takafumi Miyazaki (Nihon Univ.)*	On the sum of consecutive k -th powers and Schäffer’s conjecture	10
02-99-0001	53	Takao Komatsu (Wuhan Univ.)	Restricted and associated Stirling numbers and Bernoulli numbers . . .	15
02-01-0013	54	Ade Irma Suriajaya (Nagoya Univ.)	Two estimates on the zeros of $L'(s, \chi)$ under the generalized Riemann hypothesis	15

02-01-0016	55	Yuta Suzuki (Nagoya Univ.)	On the exceptional set for the Hardy–Littlewood conjecture under the Generalized Riemann Hypothesis	10
02-01-0001	56	Genki Shibukawa (Kyushu Univ.)	New trigonometric identities and reciprocity laws of generalized Dedekind sums	10
02-01-0037	57	Debika Banerjee (Harish-Chandra Research Inst.) Makoto Minamide (Yamaguchi Univ.)	* On squarefree integers	10
02-01-0035	58	Akiko Ito (Kanagawa Univ.)	* The divisibility of the class number of the imaginary quadratic field $\mathbb{Q}(\sqrt{3^{2e} - 4k^n})$	10
02-01-0023	59	Hiroataka Sato (Tokyo Univ. of Foreign Stud.)	* On the anti-cyclotomic \mathbb{Z}_p -extension of an imaginary quadratic number field	10
02-01-0010	60	Daisuke Shiomi (Yamagata Univ.)	* Unit indices of global function fields	10
02-01-0012	61	Ryo Kato (Kyoto Univ.)	^b A remark on the Wiener–Ikehara Tauberian theorem	10
14:15–15:30				
02-01-0015	62	Kazuaki Tajima (Tohoku Univ.)	GIT stratification of reductive group actions in the non-split case	10
02-01-0050	63	Yu Yasufuku (Nihon Univ.)	Integer points in orbits in one- and higher-dimensions	15
02-01-0006	64	Yoshiyasu Ozeki (Kyoto Univ.)	On weak Liu modules	10
02-01-0003	65	Mariko Ohara (Tohoku Univ.)	Algebraic K -theory of quasi-coherent modules over spectral schemes and the representation in affine case	15
02-01-0007	66	Tomomi Ozawa (Tohoku Univ.)	Constant terms of Eisenstein series defined over a totally real field . . .	15
15:45–16:45 Talk Invited by Algebra Section				
02-02-0002		Shunsuke Yamana (Kyushu Univ.)	^b Exterior cube L -functions for $GL(6)$	