

# Algebra

March 15th (Sat)      Conference Room I

## 9:00–12:00

- 02-01-0006  
1 Shigeru Iitaka (学習院大\*)# A variation of Euler's phi-function ..... 10
- 02-01-0011  
2 Tomohiro Iwami \*  
(Kyushu Sangyo Univ.) varieties of semi-stable type ..... 10
- 02-01-0001  
3 Tetsuya Ando (Chiba Univ.)# Development on cyclic homogeneous polynomial inequalities of three variables ..... 15
- 02-01-0043  
4 Yoshifumi Tsuchimoto (Kochi Univ.)# Dynamical system over a finite field and non commutative algebraic geometry ..... 15
- 02-01-0004  
5 So Okada (Oyama Nat. Coll. of Tech.)# Quintic periods and stability conditions via homological mirror symmetry ..... 10
- 02-01-0056  
6 Makoto Sakurai # Chiral algebras and algebraization of Higgs bundles' stability ..... 15
- 02-01-0061  
7 Nan Wang (Saitama Univ.)#  
Fumio Sakai (Saitama Univ.) Hyperelliptic and trigonal curves among cyclic coverings of the projective line ..... 15
- 02-01-0046  
8 Osamu Matsuda #  
(Tsuyama Nat. Coll. of Tech.) Classification of curves on irrational ruled surfaces by mixed plurigenera ..... 15
- 02-01-0032  
9 Kenta Watanabe (Osaka Univ.)\* On the classification of ACM line bundles on quartic hyper surfaces of  $\mathbb{P}^3$  ..... 10
- 02-01-0066  
10 Shigeru Mukai (Kyoto Univ.)#  
Hisanori Ohashi (Tokyo Univ. of Sci.) The automorphism groups of Enriques surfaces covered by symmetric quartic surfaces ..... 15
- 02-01-0063  
11 Kazuki Utsumi (Hiroshima Univ.)# Jacobian fibrations on the singular  $K3$  surface of discriminant 3 ..... 10
- 02-01-0031  
12 Katsuhisa Furukawa (Waseda Univ.)# On general fibers of Gauss maps in arbitrary characteristic ..... 15

## 14:15–16:30

- 02-01-0024  
13 Kiwamu Watanabe (Saitama Univ.)\* Characterization of the complete flag manifold of type  $F_4$  ..... 15
- 02-01-0048  
14 Tadashi Takahashi (甲南大知能情報)# On the application of elimination ideal  $V$  ..... 10
- 02-01-0008  
15 Yusuke Nakajima (Nagoya Univ.)# Dual  $F$ -signature of Cohen–Macaulay modules over rational double points ..... 15
- 02-01-0012  
16 Shiro Goto (Meiji Univ.)#  
Ryo Takahashi (Nagoya Univ.)  
Naoki Taniguchi (Meiji Univ.)  
Hoang Le Truong (IMVAST) Huneke–Wiegand conjecture and change of rings ..... 15
- 02-01-0041  
17 Shiro Goto (Meiji Univ.)\*  
Kazuho Ozeki (Yamaguchi Univ.) The first Euler characteristics versus the homological degrees ..... 15
- 02-01-0042  
18 Shiro Goto (Meiji Univ.)\*  
Kazuho Ozeki (Yamaguchi Univ.) Relation between the first Hilbert coefficients and the homological torsions ..... 10
- 02-01-0050  
19 Kei-ichiro Iima \*  
(Nara Nat. Coll. of Tech.)  
Ryo Takahashi (Nagoya Univ.) Linkage of modules over a Gorenstein local ring ..... 15

- 02-01-0045  
20 Tokuji Araya (Okayama Univ. of Sci.)<sup>#</sup> Thick subcategories of stable categories over graded Gorenstein rings  
..... 10
- 02-01-0036  
21 Shigeru Kuroda (Tokyo Metro. Univ.)<sup>#</sup> The automorphism group of an integral domain over the kernel of a  
locally nilpotent derivation ..... 15

**16:45–17:45 Talk invited by Algebra Section**

- 02-02-0002  
Takehiko Yasuda (Osaka Univ.)<sup>#</sup> Perspectives on the wild McKay correspondence

## March 16th (Sun) Conference Room I

**9:00–12:00**

- 02-01-0069  
22 Ken-ichiroh Kawasaki  
(Nara Univ. of Edu.) On a characterization of cofinite complexes over regular rings of finite  
dimension ..... 10
- 02-01-0044  
23 Shuhei Kamioka (Kyoto Univ.)<sup>#</sup> Laurent biorthogonal polynomials,  $q$ -Narayana polynomials and domino  
tilings of the Aztec diamonds ..... 15
- 02-01-0003  
24 Takayuki Hibi \* A necessary and sufficient condition for strong Koszulness of edge rings  
(Osaka Univ./JST CREST) associated with finite graphs ..... 15  
Kazunori Matsuda  
(Rikkyo Univ./JST CREST)  
Hidefumi Ohsugi  
(Rikkyo Univ./JST CREST)
- 02-01-0054  
25 Takayuki Hibi<sup>#</sup> Algebraic study on Cameron–Walker graphs ..... 15  
(Osaka Univ./JST CREST)  
Akihiro Higashitani (Osaka Univ.)  
Kyouko Kimura (Shizuoka Univ.)  
Augustine B. O’Keefe  
(Univ. of Kentucky)
- 02-01-0055  
26 Akihiro Higashitani (Osaka Univ.)<sup>#</sup> Minkowski sum of edge polytopes and its normality ..... 15
- 02-01-0034  
27 Noritsugu Kameyama (Shinshu Univ.)<sup>#</sup> Categories including all  $G$ -projective modules ..... 10  
Yuko Kimura (Shinshu Univ.)  
Kenji Nishida (Shinshu Univ.)
- 02-01-0067  
28 Takahide Adachi (Nagoya Univ.)<sup>#</sup> Classifying two-term tilting complexes for Brauer graph algebras ..... 15  
Takuma Aihara (Nagoya Univ.)  
Aaron Chan (Univ. of Aberdeen)
- 02-01-0071  
29 Takahide Adachi (Nagoya Univ.)<sup>#</sup> Tilting-connectedness of Brauer graph algebras ..... 15  
Takuma Aihara (Nagoya Univ.)  
Aaron Chan (Univ. of Aberdeen)
- 02-01-0040  
30 Hiroshi Nagase (Tokyo Gakugei Univ.) \* Counting regular prehomogeneous vector spaces associated with Dynkin  
quivers ..... 10  
Makoto Nagura  
(Nara Nat. Coll. of Tech.)
- 02-01-0062  
31 Hideto Asashiba (Shizuoka Univ.)<sup>#</sup> Tilted algebras and configurations of self-injective algebras of Dynkin  
Ken Nakashima (Shizuoka Univ.) type ..... 10
- 02-01-0035  
32 Kenichi Shimizu (Nagoya Univ.)<sup>#</sup> A characterization of unimodular finite tensor categories ..... 15

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

- 02-02-0004  
Takeshi Ikeda (Okayama Univ. of Sci.)<sup>#</sup>  $K$ -theory of the flag varieties of classical type

## March 17th (Mon) Conference Room I

**9:30–12:00**

02-01-0010

33 Ryo Kanda (Nagoya Univ.) Specialization orders on atom spectra of Grothendieck categories . . . . . 15

02-01-0039

34 Tomohiro Itagaki (Tokyo Univ. of Sci.)<sup>#</sup> The dimension formula of the cyclic homology of truncated quiver algebras over a field of positive characteristic . . . . . 10  
Katsunori Sanada (Tokyo Univ. of Sci.)

02-01-0052

35 Ayako Itaba (Tokyo Univ. of Sci.)<sup>#</sup> On Hochschild cohomology of a self-injective special biserial algebra obtained by a circular quiver with double arrows . . . . . 10

02-01-0030

36 Takahiko Furuya (Meikai Univ.)<sup>#</sup> On Snashall's question about Hochschild cohomology . . . . . 10  
Takao Hayami (Hokkai-Gakuen Univ.)

02-01-0070

37 Hiroataka Koga (Univ. of Tsukuba)<sup>#</sup> Clifford extensions . . . . . 15

02-01-0026

38 Izuru Mori (Shizuoka Univ.)<sup>#</sup> Ampleness of group actions on graded algebras . . . . . 15  
Kenta Ueyama (Shizuoka Univ.)

02-01-0053

39 Hideto Asashiba (Shizuoka Univ.)<sup>#</sup> Gluing of derived equivalences along bimodules . . . . . 10

02-01-0064

40 Satoshi Yamanaka (Okayama Univ.)<sup>#</sup> On Frobenius polynomials in skew polynomial rings . . . . . 10

02-01-0047

41 Tsunekazu Nishinaka (Okayama Shoka Univ.)<sup>#</sup> On primitivity of group algebras of amalgamated free products . . . . . 10**14:15–15:00**

02-01-0027

42 Hisayoshi Endo (Tokai Univ.)<sup>#</sup> Discussion on the characteristics of coupled primes . . . . . 10

02-01-0037

43 Kenichi Shimizu (Kenmei Girls' Junior and Senior High School)<sup>\*</sup> On SP number . . . . . 10

02-01-0017

44 Masanori Sawa (Nagoya Univ.)<sup>#</sup> On a theorem of Hilbert related to Waring's problem, and Ellison's error . . . . . 15**15:30–16:30 Award Lecture for 2014 Algebra Prize**

02-02-0001

Hidekazu Furusho (Nagoya Univ.)<sup>#</sup> Various topics around associators**16:45–17:45 Award Lecture for 2014 Algebra Prize**

02-02-0003

Yuji Yoshino (Okayama Univ.)<sup>#</sup> Cohen–Macaulay modules over Cohen–Macaulay rings

## March 18th (Tue) Conference Room I

**9:00–12:00**

02-01-0005

45 Soichi Ikeda (Nagoya Univ.) Characterization of the Euler double zeta function . . . . . 10  
Kaneaki Matsuoka (Nagoya Univ.)

02-01-0007

46 Kaneaki Matsuoka (Nagoya Univ.) Mean values of the derivative of the Hardy function . . . . . 10

02-01-0016

47 Ade Irma Suriajaya (Nagoya Univ.)<sup>#</sup> On the zeros of the  $k$ -th derivative of the Riemann zeta function under the Riemann hypothesis . . . . . 15

02-01-0018

48 Yoshikatsu Yashiro (Nagoya Univ.)<sup>\*</sup> Approximate functional equation and mean value formula for the derivatives of  $L$ -function attached to cusp form . . . . . 10

- 02-01-0029  
49 Kalyan Chakraborty \* An inequality for Hecke multiplicative functions ..... 10  
(Harish-Chandra Research Inst.)  
Makoto Minamide  
(Kyoto Sangyo Univ.)
- 02-01-0028  
50 Isao Kiuchi (Yamaguchi Univ.) \* Mean square formula for double zeta-function ..... 10  
Makoto Minamide  
(Kyoto Sangyo Univ.)
- 02-01-0068  
51 Masanori Katsurada (Keio Univ.) # Transformation formulae and asymptotic expansions for double holo-  
Takumi Noda (Nihon Univ.) morphic Eisenstein series of two variables ..... 10
- 02-01-0038  
52 Jun Furuya \* Mean values of the error term with shifted arguments in the circle  
(Okinawa Nat. Coll. of Tech.) problem ..... 10  
Yoshio Tanigawa (Nagoya Univ.)
- 02-01-0025  
53 Yoshio Tanigawa (Nagoya Univ.) \* Mean square of the error term in the asymmetric many dimensional  
Xiaodong Cao divisor problem ..... 10  
(Beijing Inst. of Petro-Chemical Tech.)  
Wenguang Zhai  
(China Univ. of Mining and Tech.)
- 02-01-0022  
54 Hajime Kaneko (Kyoto Univ.) # On normal numbers and their generalizations ..... 15
- 02-01-0014  
55 Taka-aki Tanaka (Keio Univ.) # A new class of Mahler functions ..... 10
- 02-01-0023  
56 Soichi Ikeda (Nagoya Univ.) \* Sheffer sequences and supplementary formulas ..... 10
- 02-01-0009  
57 Takao Komatsu (Hirosaki Univ.) # A note on the denominators of Bernoulli numbers ..... 10  
Florian Luca (UNAM)  
Claudio de J. Pita Ruiz V.  
(Univ. Panamericana)
- 02-01-0058  
58 Takafumi Miyazaki (Nihon Univ.) \* On the system of Diophantine equations  $a^2 + b^2 = (m^2 + 1)^r$  and  
 $a^x + b^y = (m^2 + 1)^z$  ..... 15
- 14:15–16:45**
- 02-01-0060  
59 Yūsuke Okuyama (Kyoto Inst. Tech.) # A quantitative logarithmic equidistribution in non-archimedean and  
complex dynamics ..... 15
- 02-01-0059  
60 Yūsuke Okuyama (Kyoto Inst. Tech.) # Algebraic zeros divisors having small diagonals and small heights in  
adelic dynamics ..... 15
- 02-01-0049  
61 Tetsuya Uematsu (Chuo Univ.) # On zero-cycles on diagonal cubic surfaces over  $p$ -adic fields ..... 10
- 02-01-0013  
62 Yasufumi Hashimoto \* Asymptotic behaviors for sums of class numbers of discriminants with  
(Univ. of Ryukyus) Pell-type equations ..... 15
- 02-01-0051  
63 Koji Tasaka (Kyushu Univ.) # On periods of modular forms and linear relations among multiple zeta  
values ..... 10
- 02-01-0072  
64 Hirofumi Nagoshi (Gunma Univ.) \* Combining three theorems on the joint universality of  $L$ -functions ..... 10
- 02-01-0033  
65 Kazuhito Kozuka \* A combinatorial-geometric approach to Halbritter's formula for Dedekind  
(Miyakonojo Nat. Coll. of Tech.) sums ..... 10
- 02-01-0073  
66 Aiichi Yamasaki (Kyoto Univ.) # Class numbers and algebraic tori ..... 10  
Akinari Hoshi (Niigata Univ.)  
Ming-chang Kang (Nat. Taiwan Univ.)

<a href="#">02-01-0015</a>			
67	Shingo Sugiyama (Osaka Univ.)*	Relative trace formulas and subconvexity estimates of $L$ -functions for Hilbert modular forms	10
	Masao Tsuzuki (Sophia Univ.)		
<a href="#">02-01-0020</a>			
68	Yasushi Mizusawa (Nagoya Inst. of Tech.)	* Semidihedral 2-class field towers and $\mathbb{Z}_2$ -extensions of real quadratic fields	10
<a href="#">02-01-0021</a>			
69	Yasushi Mizusawa (Nagoya Inst. of Tech.)	* Isometric embeddings of finite fields	10
<a href="#">02-01-0057</a>			
70	Shota Kojima (Rikkyo Univ.)#	Nested square roots and Poincaré functions	10
	Noboru Aoki (Rikkyo Univ.)		