• Collaborative works are presented by the underlined authors. The talks with ∗ mark are presented through document camera, while ♭ marks denote presentations on whiteboards. The speakers with ⋆ marks are professors emeriti.

Algebra

September 25th (Thu)   Conference Room II

9:30–12:00

02-01-0049
1   <u>Hiroko Yanaba</u> (Hiroo Gakuen)   On some results of the function associated with the Euler function $\varphi(a)$
    Takahiro Shishikura (Hiroo Gakuen)   ·· 10

02-01-0002
2   Shigeru Iitaka (Gakushuin Univ.⋆)   On a function associated with $\sigma(a)$ ···························· 10

02-01-0009
3   Yasutoshi Nomura   ∗   Primality and divisibility of Stirling numbers of the 2nd kind ········ 10

02-01-0006
4   Isao Kiuchi (Yamaguchi Univ.) ∗   On a sum involving the Möbius function ························· 10
    <u>Makoto Minamide</u> (Yamaguchi Univ.)
    Yoshio Tanigawa (Nagoya Univ.)

02-01-0012
5   Eiji Miyanohara (Waseda Univ.)   Transcendence of digital expansions generated by a cyclic permutation
                                        and k-adic expansion ··· 10

02-01-0008
6   <u>Takeshi Kurosawa</u> (Tokyo Univ. of Sci.)   Algebraic independence of components of certain trigonometric func-
    Iekata Shiokawa   tions ··· 10

02-01-0047
7   Yohei Tachiya (Hirosaki Univ.)   Arithmetical properties of the values of the generalized divisor function
                                        series ·· 10

02-01-0017
8   Kazuki Sato   (Tohoku Univ.)   Rational points on diagonal cubic surfaces ····················· 10

02-01-0042
9   Akiko Ito   (Kanagawa Univ.) ∗   On the 3-divisibility of the class numbers of certain quadratic fields (II)
                                        ··· 10

02-01-0005
10 <u>Soichi Ikeda</u>   (Nagoya Univ.) ∗   Mean values of multiple zeta-functions ························· 10
    Kaneaki Matsuoka (Nagoya Univ.)

02-01-0048
11 Tomokazu Onozuka (Nagoya Univ.)   Zero-free regions of multiple zeta star functions ··············· 10

02-01-0033
12 Yumiko Hironaka (Waseda Univ.) ∗   Zeta functions of finite groups by counting numbers of subgroups ···· 15

14:15–16:15

02-01-0035
13 Hiroto Inoue   (Kyushu Univ.) ♭   Expansion of the completed Riemann zeta function in Meixner–Pollaczek
                                        polynomials and its zeros ····································· 10

02-01-0016
14 Yoshikatsu Yashiro (Nagoya Univ.) ∗   Distribution of zeros and zero-density estimate for the derivatives of
                                        L-function attached to cusp form ···························· 10

02-01-0026
15 Takahiro Wakasa (Nagoya Univ.) ∗   An explicit upper bound of the argument of Dirichlet L-functions on
                                        the generalized Riemann hypothesis ···························· 10

02-01-0024
16 Kohta Gejima   (Osaka Univ.)   Shintani functions on $\mathrm{SL}(2, \mathbf{C})$ and Heun's differential equations ····· 15

02-01-0011
17 <u>Shingo Sugiyama</u> (Osaka Univ.)   Existence of Hilbert cusp forms with non-vanishing L-values ········· 15
    Masao Tsuzuki (Sophia Univ.)

02-01-0044
18   Shuichi Hayashida   Generalizations of the Maass relation of Siegel modular forms $\cdots\cdots$ 15
            (Joetsu Univ. of Edu.)

02-01-0028
19   Hirotaka Kodama (Kinki Univ.)   On the mod p kernel of the theta operator $\cdots\cdots\cdots\cdots\cdots\cdots$ 10
     Shoyu Nagaoka   (Kinki Univ.)

02-01-0032
20   Hidehiko Mishou (Tokyo Denki Univ.)   Joint d-universality for Dirichlet L-functions with real characters and
     Hirofumi Nagoshi (Gunma Univ.)   multi-dimensional denseness of quadratic class numbers $\cdots\cdots\cdots\cdots$ 10

16:30–17:30   Talk invited by Algebra Section
02-02-0004
     Hidehiko Mishou (Tokyo Denki Univ.)   An overview of the theory of universality for zeta functions

September 26th (Fri)   Conference Room II

9:30–11:50
02-01-0004
21   Sin-Ei Takahasi   (Toho Univ.) *   The structure of ordered topological semigroups on the real space $\mathbb{R}$
     Yuji Kobayashi   (Toho Univ.) $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15
     Yasuo Nakasuji (Open Univ. of Japan)
     Makoto Tsukada (Toho Univ.)

02-01-0036
22   Shuhei Kamioka (Kyoto Univ.)   Tilings of the Aztec diamonds and biorthogonal polynomials $\cdots\cdots\cdots$ 15

02-01-0014
23   Hiro-Fumi Yamada (Okayama Univ.)   A partition identity and the character table of the symmetric groups
     Hiroshi Mizukawa $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15
         (Nat. Defense Acad. of Japan)

02-01-0030
24   Akiyoshi Tsuchiya (Osaka Univ.)   Ehrhart polynomials with negative coefficients $\cdots\cdots\cdots\cdots\cdots\cdots$ 15
     Akihiro Higashitani (Kyoto Univ.)
     Takayuki Hibi   (Osaka Univ.)
     Koutarou Yoshida (Osaka Univ.)

02-01-0022
25   Takayuki Hibi   (Osaka Univ.)   Facets of (0,1)-polytopes with squarefree initial ideals $\cdots\cdots\cdots\cdots$ 15
     Akihiro Higashitani (Kyoto Univ.)

02-01-0054
26   Kazunori Matsuda (Rikkyo Univ.) *   Reverse lexicographic Gröbner bases and strongly Koszul toric rings
     Hidefumi Ohsugi $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10
         (Kwansei Gakuin Univ.)

02-01-0037
27   Tomohiro Okuma (Yamagata Univ.) *   Good ideals and p_g-ideals for two-dimensional normal singularities $\cdots$ 10
     Kei-ichi Watanabe (Nihon Univ.)
     Ken-ichi Yoshida (Nihon Univ.)

02-01-0043
28   Futoshi Hayasaka   *   A computation of Buchsbaum–Rim functions of two variables $\cdots\cdots\cdots$ 10
         (Hokkaido Univ. of Edu.)

02-01-0018
29   Tadahito Harima (Niigata Univ.) *   Completely $\mathfrak{m}$-full ideals and componentwise linear ideals $\cdots\cdots\cdots\cdots$ 10
     Junzo Watanabe (Tokai Univ.)

13:20–14:20   Talk invited by Algebra Section
02-02-0003
     Masato Okado (Osaka City Univ.)   Tetrahedron equation and quantum groups

September 27th (Sat)   Conference Room II

9:30–11:25

02-01-0027
30   Yugen Takegahara   2-adic properties for the numbers of involutions in the alternating groups
           (Muroran Inst. of Tech.)   · 15

02-01-0007
31   <u>Yuki Kanakubo</u> (Sophia Univ.) ♭   Cluster variables on double Bruhat cells and monomial realizations of
     Toshiki Nakashima (Sophia Univ.)   crystal bases · 15

02-01-0046
32   <u>Toshiyuki Abe</u>   (Ehime Univ.)   A commutant of a 4-cyclic permutation orbifold model of affine vertex
     Hiromichi Yamada (Hitotsubashi Univ.) operator algebra of type A_1 · 10

02-01-0015
33   Kenichiro Tanabe (Hokkaido Univ.) On modules with logarithmic terms over vertex algebras · · · · · · · · · · · 15

02-01-0019
34   Masahide Konishi (Nagoya Univ.)   Basicalization of KLR algebras · 15

02-01-0020
35   <u>Ayako Itaba</u> (Tokyo Univ. of Sci.)   On the decomposition of the Hochschild cohomology group of a mono-
     Takahiko Furuya (Meikai Univ.)   mial algebra satisfying a separability condition · · · · · · · · · · · · · · · · · · 10
     Katsunori Sanada (Tokyo Univ. of Sci.)

02-01-0029
36   Tomohiro Itagaki (Tokyo Univ. of Sci.)   On the cyclic homology of an algebra associated with a cyclic quiver
                                          and a monic polynomial · 10

11:30–12:00   Research Section Assembly

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

02-02-0001
     Hiroyuki Minamoto (Osaka Pref. Univ.) ♭   Derived bi-duality and DG-completion

15:30–17:30

02-01-0053
37   Hiroki Miyahara (Univ. of Yamanashi)   A constraction of Auslander-regular rings and its application · · · · · · · 10

02-01-0040
38   Mitsuo Hoshino (Univ. of Tsukuba)   Group-graded and group-bigraded rings · 15
     <u>Noritsugu Kameyama</u> (Shinshu Univ.)
     Hirotaka Koga (Tokyo Denki Univ.)

02-01-0041
39   Kazutoshi Koike   Self-duality of finite triangular extensions · 10
           (Okinawa Nat. Coll. of Tech.)

02-01-0038
40   Hirotaka Koga (Tokyo Denki Univ.)   On standard derived equivalences · 15

02-01-0045
41   Satoshi Yamanaka (Okayama Univ.) ♭   On Morita equivalence in ring extensions · 10

02-01-0001
42   Ryo Kanda   (Nagoya Univ.) ♭   Classification of categorical subspaces of locally noetherian schemes · · 15

02-01-0034
43   <u>Shunsuke Tsuchioka</u> (Univ. of Tokyo)   On graded generalized Cartan invariants of the symmetric groups · · · · 15
     Anton Evseev (Univ. of Birmingham)

02-01-0050
44   Taiki Shibata (Univ. of Tsukuba)   On integrals for algebraic supergroups · 10

September 28th (Sun)   Conference Room II

9:15–12:00

02-01-0003
45   Tomohiro Iwami   *   An analogue of Clemens–Griffiths components for certain three-dimensional
           (Kyushu Sangyo Univ.)   log pairs in the weak sense and the associated rationality criterion · · · 10

02-01-0010
46   Jo Suzuki   (Osaka Univ.)   Klein's fundamental second kind 2-form for the C_{ab} curves · · · · · · · · · 15

14:15–15:15   Talk invited by Algebra Section
02-02-0002
   Isamu Iwanari (Tohoku Univ.) ♭   Tannaka duality for higher categories