# 代　数　学

## 9月24日(火)

**9:00〜12:00**

1　野　村　泰　敏　*　二項係数の差の可除性について ····· 10

Yasutoshi Nomura　*　On divisibility of differences of binomial coefficients

2　河　本　史　紀 (学習院大理)♯
岸　　康　弘 (愛知教育大教育)
鈴　木　浩　志 (名大多元数理)
冨　田　耕　史 (名城大理工)
偶数周期の連分数展開と末尾急増型主要対称部分 ····· 15

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

3　河　本　史　紀 (学習院大理)♯
岸　　康　弘 (愛知教育大教育)
鈴　木　浩　志 (名大多元数理)
冨　田　耕　史 (名城大理工)
末尾急増型主要対称部分の構成法 (pre-ELE 型有限列の増殖変換) ····· 15

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

4　池　田　創　一 (名大多元数理)*
松　岡　謙　晶 (名大多元数理)
永　田　義　一 (名大多元数理)
二重ゼータ関数の平均値 ····· 10

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

5　小　山　信　也 (東洋大理工)♯
鈴　木　史　花
(Univ. of British Columbia)
セルバーグ・ゼータ関数の深いリーマン予想 ····· 10

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

6　矢　代　好　克 (名大多元数理)♯　Selberg class における Mertens 定理と素数定理 ····· 10

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

7　若　狭　尊　裕 (名大多元数理)*　リーマン予想上での, 小区間における関数 $S_1(t)$ の明示的上限 ····· 10

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

8　小野塚友一 (名大多元数理)♯　多重ゼータ関数の非正の整数点における漸近展開 ····· 10

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

9　岡　本　卓　也 (立命館大理工)♯
小野塚友一 (名大多元数理)
Mordell–Tornheim 型 2 重ゼータ関数の 2 乗平均 ····· 15

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

10 田中 諒 (名大多元数理)♯ Hurwitz–Lerch 及び Mordell–Tornheim 型を含む一般的な多重ゼータ関数の関数等式 ····· 15
Ryo Tanaka (Nagoya Univ.)♯ Functional equations for general multiple zeta functions including Hurwitz–Lerch and Mordell–Tornheim types

11 塩見大輔 (山形大理)* Non-ordinary cyclotomic function fields ····· 10
Daisuke Shiomi (Yamagata Univ.)* Non-ordinary cyclotomic function fields

12 黒沢 健 (東京理大理)♯ Fibonacci 数に関する無限積の超越性 ····· 10
Takeshi Kurosawa (Tokyo Univ. of Sci.)♯ Transcendence of infinite products with Fibonacci numbers

13 立谷洋平 (弘前大理工)♯ 周期列を係数とするランベルト級数の値の無理性について ····· 10
Yohei Tachiya (Hirosaki Univ.)♯ Irrationality of Lambert series associated with periodic sequence

**14:15〜16:45**

14 名越弘文 (群馬大理工)* Independence of $L$-functions and the Nevanlinna characteristic ····· 10
Hirofumi Nagoshi (Gunma Univ.)* Independence of $L$-functions and the Nevanlinna characteristic

15 見正秀彦 (東京電機大情報)* 同時普遍性を持つ任意個数の保型 $L$ 関数たちの例 ····· 10
名越弘文 (群馬大理工)
Hidehiko Mishou (Tokyo Denki Univ.)* Examples of any number of automorphic $L$-functions with joint universality property
Hirofumi Nagoshi (Gunma Univ.)

16 芳木武仁 (東大数理)♯ $\mathbb{F}_2$ 係数多項式の素因数の個数の偶奇性を判定するための判別式の一般公式 ····· 10
Takehito Yoshiki (Univ. of Tokyo)♯ A general formula for the discriminant of polynomials over $\mathbb{F}_2$ determining the parity of the number of prime factors

17 新井啓介 (東京電機大工)* $\Gamma_0(p)$ 型志村曲線上の楕円点の非存在について ····· 15
Keisuke Arai (Tokyo Denki Univ.)* Non-existence of elliptic points on Shimura curves of $\Gamma_0(p)$-type

18 清水健一 (賢明女子学院中高)* イデアル類群の指数が 2 の虚 2 次体 ····· 10
Kenichi Shimizu (Kenmei Girls' Junior and Senior High School)* Imaginary quadratic fields whose exponents are equal to two

19 ディマバヤオジェローム (九大数理)♯ On the vanishing of cohomologies of $p$-adic Galois representations associated with elliptic curves ····· 15
Jerome T. Dimabayao (Kyushu Univ.)♯ On the vanishing of cohomologies of $p$-adic Galois representations associated with elliptic curves

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

21 坂田 裕 (早大高等学院)* A remark on the trace formula for Jacobi forms of prime power level ····· 15
Hiroshi Sakata (Waseda Univ. Senior High School)* A remark on the trace formula for Jacobi forms of prime power level

22 兒玉浩尚 (近畿大総合理工)♯ ある奇数ウエイトのジーゲルカスプ形式がみたす合同式について ····· 10
長岡昇勇 (近畿大理工)

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

23 渡 部 隆 夫 (阪 大 理) * 簡約可能代数群の算術商の基本領域の構成 ····· 10
Takao Watanabe (Osaka Univ.) * A construction of fundamental domains for arithmetic quotients of reductive algebraic groups

24 堅 田 晃 平 (愛 媛 大 理 工) * On Ramanujan circulant graphs ····· 15
平 野 幹 (愛 媛 大 理 工)
山 﨑 義 徳 (愛 媛 大 理 工)
Kohei Katata (Ehime Univ.) * On Ramanujan circulant graphs
Miki Hirano (Ehime Univ.)
Yoshinori Yamasaki (Ehime Univ.)

**17:00〜18:00　特別講演**

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

## 9月25日(水)

**9:00〜12:00**

25 大 杉 英 史 (立 教 大 理) ♯ グラフの二次トーリックイデアルと二次グレブナー基底 ····· 15
鹿 間 章 宏 (阪 大 情 報)
西 山 絢 太 (静岡県立大経営情報)
日 比 孝 之 (阪 大 情 報)
Hidefumi Ohsugi (Rikkyo Univ.) ♯ Quadratic toric ideals and quadratic Gröbner bases of graphs
Akihiro Shikama (Osaka Univ.)
Kenta Nishiyama (Univ. of Shizuoka)
Takayuki Hibi (Osaka Univ.)

26 D. A. Cox (Amherst College) ♯ 膨らませた整凸多面体の正規性に関する幾つかの不変量 ····· 15
C. Haase
(Goethe-Universität Frankfurt)
日 比 孝 之
(阪大情報・JST CREST)
東 谷 章 弘 (阪 大 情 報)
David A. Cox (Amherst College) ♯ Some invariants on normality of dilated polytopes
Christian Haase
(Goethe-Universität Frankfurt)
Takayuki Hibi
(Osaka Univ./JST CREST)
Akihiro Higashitani (Osaka Univ.)

27 東 谷 章 弘 (阪 大 情 報) ♯ 反射的凸多面体の Ehrhart 多項式と直交多項式系 ····· 15
Akihiro Higashitani (Osaka Univ.) ♯ Ehrhart polynomials of reflexive polytopes and orthogonal polynomial systems

28 武 田 裕 康 (北 大 理) ♯ 主対角和モデルに関する半群環のヒルベルト基底について ····· 15
Hiroyasu Takeda (Hokkaido Univ.) ♯ For Hilbert basis of semi-group ring associated with the main diagonal sum model

29 小西正秀 (名大多元数理)♯ A classification of cyclotomic KLR algebras of type $A_n^{(1)}$ ····· 15
Masahide Konishi (Nagoya Univ.)♯ A classification of cyclotomic KLR algebras of type $A_n^{(1)}$

30 東平光生 (明大理工)♯ Sequentially Cohen–Macaulay bipartite graphs and cycle graphs ····· 10
Hirotaka Higashidaira (Meiji Univ.)♯ Sequentially Cohen–Macaulay bipartite graphs and cycle graphs

31 木村杏子 (静岡大理)*
寺井直樹 (佐賀大文化教育) 高さ 3 の Gorenstein squarefree monomial ideal の算術階数 ····· 15
Kyouko Kimura (Shizuoka Univ.)*
Naoki Terai (Saga Univ.) Arithmetical rank of Gorenstein squarefree monomial ideals of height three

32 泊昌孝 (日大文理)* Normal graded ring の 有限アーベル被覆の Demazure 表現について ·· 15
Masataka Tomari (Nihon Univ.)* On Demazure's construction of finite Abelian coverings of normal graded rings

33 中嶋祐介 (名大多元数理)♯ 2 次元巡回商特異点における Cohen–Macaulay 加群の dual $F$-signature について ····· 15
Yusuke Nakajima (Nagoya Univ.)♯ Dual $F$-signature of Cohen–Macaulay modules over cyclic quotient surface singularities

34 松岡学 (大阪樟蔭女大)* 直和因子条件をもつ環と線形符号 ····· 10
Manabu Matsuoka (Osaka Shoin Women's Univ.)* Rings with direct summand conditions and linear codes

35 亀山統胤 (信州大工)♯
星野光男 (筑波大数理物質)
古賀寛尚 (筑波大数理物質) Constructions of Auslander–Gorenstein local rings ····· 10
Noritsugu Kameyama (Shinshu Univ.)♯
Mitsuo Hoshino (Univ. of Tsukuba)
Hirotaka Koga (Univ. of Tsukuba) Constructions of Auslander–Gorenstein local rings

**13:15〜14:15　特別講演**

髙木俊輔 (東大数理)♯ F 特異点と極小モデル理論に現れる特異点
Shunsuke Takagi (Univ. of Tokyo)♯ F-singularities and singularities in the minimal model program

## 9月26日(木)

**9:00〜11:25**

36 松澤翔 (静岡大理)♯
金加喜 (静岡大理)
松本英鷹 (静岡大創造科学技術) 3 次元 quadratic AS-regular algebra の分類 ····· 10
Sho Matsuzawa (Shizuoka Univ.)♯
Gahee Kim (Shizuoka Univ.)
Hidetaka Matsumoto (Shizuoka Univ.) Classification of 3-dimensional quadratic AS-regular algebras

37 上山健太 (静岡大理)♯ Finite Cohen–Macaulay representation type and noncommutative graded isolated singularities ····· 15
Kenta Ueyama (Shizuoka Univ.)♯ Finite Cohen–Macaulay representation type and noncommutative graded isolated singularities

38 古谷貴彦 (明海大歯)♯
速水孝夫 (北海学園大工) Some self-injective algebras with finite Hochschild cohomology ····· 10

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

39　古賀寛尚 (筑波大数理物質) ♯ Finiteness of selfinjective dimension and associated invariants under derived equivalences ····· 15
Hirotaka Koga (Univ. of Tsukuba) ♯ Finiteness of selfinjective dimension and associated invariants under derived equivalences

40　小原大樹 (東京理大理二) ♯ One point extension of a quiver algebra defined by two cycles and a quantum-like relation ····· 10
Daiki Obara (Tokyo Univ. of Sci.) ♯ One point extension of a quiver algebra defined by two cycles and a quantum-like relation

41　竹花靖彦 (函館工高専) ♯ A generalization of Goldie torsion theory ····· 10
Yasuhiko Takehana (Hakodate Nat. Coll. of Tech.) ♯ A generalization of Goldie torsion theory

42　神田　遼 (名大多元数理) Atom spectrum and classification of subcategories ····· 15
Ryo Kanda (Nagoya Univ.) Atom spectrum and classification of subcategories

43　清水健一 (名大多元数理) ♯ Canonical pivotal objects in finite tensor categories ····· 15
Kenichi Shimizu (Nagoya Univ.) ♯ Canonical pivotal objects in finite tensor categories

44　小松弘明 (岡山県立大情報工) * 余分離余環の一般余導分による特徴付け ····· 10
Hiroaki Komatsu (Okayama Pref. Univ.) * A characterization of coseparable corings by generalized coderivations

45　津野祐司 (千葉工大) * Central cleft extensions for free Hopf algebras ····· 15
Yuji Tsuno (Chiba Inst. of Tech.) * Central cleft extensions for free Hopf algebras

**11:30〜12:00　代数学分科会総会**

**14:15〜16:00**

46　庭崎　隆 * (愛媛大教育・学生支援機構) 自己準同型写像の個数による例外 2 群の特徴付け ····· 10
淺井恒信 (近畿大理工)
Takashi Niwasaki (Ehime Univ.) * A characterization of exceptional 2-groups by the numbers of the endomorphisms
Tsunenobu Asai (Kinki Univ.)

47　飛田明彦 (埼玉大教育) * Extraspecial $p$-群の mod $p$ コホモロジーと両側 Burnside 環の作用について ····· 10
Akihiko Hida (Saitama Univ.) * On the mod $p$ cohomology of the extraspecial $p$-group and the action of the double Burnside algebra

48　越谷重夫 (千葉大理) 標数 2 のモジュラー表現論におけるアルペリン予想および弱ブルエ予想 ····· 15
R. Kessar (City Univ. London)
M. Linckelmann (City Univ. London)
Shigeo Koshitani (Chiba Univ.) The Alperin weight conjecture and Broue conjecture in modular representation theory
Radha Kessar (City Univ. London)
Markus Linckelmann (City Univ. London)

49 越谷重夫 (千葉大理) モジュラー表現論におけるブルエ予想 —幾つかの散在型有限単純群に対して ····· 15
J. Müller (RWTH Aachen Univ.)
F. Noeske (RWTH Aachen Univ.)
Shigeo Koshitani (Chiba Univ.) Broue's abelian defect group conjecture for finite sporadic simple groups
Jürgen Müller (RWTH Aachen Univ.)
Felix Noeske (RWTH Aachen Univ.)

50 坂本隆則 (福岡教育大)* Some properties of factorized Lie algebras ····· 10
本多政宣 (新潟薬大)
Takanori Sakamoto * (Fukuoka Univ. of Edu.) Some properties of factorized Lie algebras
Masanobu Honda (Nigata Univ. of Pharm. & App. Life Sci.)

51 奥村将成 (東大数理)♯ Vertex algebras and the equivariant Lie algebroid cohomology ····· 15
Masanari Okumura (Univ. of Tokyo)♯ Vertex algebras and the equivariant Lie algebroid cohomology

52 川節和哉 (東大数理)* The intermediate vertex subalgebras of the lattice vertex operator algebras ····· 15
Kazuya Kawasetsu (Univ. of Tokyo)* The intermediate vertex subalgebras of the lattice vertex operator algebras

**16:15〜17:15 特別講演**

宮本雅彦 (筑波大数理物質)♯ 頂点作用素代数に関する軌道予想について
Masahiko Miyamoto ♯ (Univ. of Tsukuba) On orbifold conjecture about vertex operator algebras

## 9月27日(金)

**9:30〜12:00**

53 簗場広子 (広尾学園)♯ 擬素数の決定について ····· 10
塩谷祈 (広尾学園)
Hiroko Yanaba (Hiroo Gakuen)♯ On pseudo primes
Inoru Shioya (Hiroo Gakuen)

54 飯高茂 (学習院大⋆)♯ Hartshorne の等式とその応用 2 ····· 15
Shigeru Iitaka (Gakushuin Univ.⋆)♯ Hartshorne's identities and their applications 2

55 渡邉健太 (阪大理)* 平面曲線の二重被覆の拡張と二重被覆型のワイヤストラス半群について ····· 10
Kenta Watanabe (Osaka Univ.)* On extensions of a double covering of plane curves and Weierstrass semigroups of the double covering type

56 本間正明 (神奈川大理)♯ 有限体上定義された $\mathbb{P}^3$ 内の曲面の有理点の個数 ····· 15
Masaaki Homma (Kanagawa Univ.)♯ Numbers of points of surfaces in the projective 3-space over finite fields

57 北川真也 (岐阜工高専)* 5 重点と九つの 4 重点をもつ平面 13 次曲線のとあるペンシルについて II ····· 15
Shinya Kitagawa * (Gifu Nat. Coll. of Tech.) On certain pencils of plane curves of degree thirteen with a quintuple point and nine quadruple points II

**14:15〜15:30**

**15:45〜16:45　特別講演**

福 間 慶 明 (高 知 大 理)♯　準偏極多様体の不変量による随伴束の大域切断の次元についての考察

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