

注 意 事 項

※講演者名の順序は講演申し込み時に入力された順序であり、必ずしも筆頭者が登壇者であることを意味しません。共同発表の場合は登壇者には下線が引かれています。

(単独発表の場合は下線は引かれていません。)

※先頭の講演者氏名／所属の右側にある*印は書画カメラ使用の講演、#印は黒板のみでの講演を表しています。プロジェクタを使用して持参PC／タブレット等で行う講演には印がついていません。

※所属右の*印は名誉教授を示しています。

※講演題目右の数字は講演時間(分)です。プログラム編成の都合により、希望講演時間より短くなっている場合があります。

※氏名、所属、講演題目等で\UTF、\CID、\GAIJI 命令を用いた箇所は青字で印字されています。

一般社団法人 日本数学会

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数 学 基 础 論 お よ び 歴 史

9月26日(水)

9:30~11:25

01-99-0001

1 大藪 卓

Takashi Oyabu

連続体仮説と構成可能集合, 他5件 5

Continuum hypothesis and constructible set, and other 5 talks

01-01-0005

2 依岡 輝幸 (静岡大)

Teruyuki Yorioka (Shizuoka Univ.)

ランダム強制法による拡大モデルの中での弱い Martin's Axiom 15

Fragments of Martin's Axiom in the extension with random forcing

01-01-0006

3 矢島 幸信 (神奈川大工)

平田 康史 (神奈川大工)

Yukinobu Yajima (Kanagawa Univ.)

Yasushi Hirata (Kanagawa Univ.)

Undecidability of the cardinality of C^* -embedded discrete subsets in products of natural numbers 15

Undecidability of the cardinality of C^* -embedded discrete subsets in products of natural numbers

01-01-0009

4 薄葉季路 (早大)

Toshimichi Usuba (Waseda Univ.)

Extendible cardinals and the mantle 15

Extendible cardinals and the mantle

01-01-0010

5 岡部峻典 (神戸大システム情報)

Shunsuke Okabe (Kobe Univ.)

On width of automorphism groups of countable structures with stationary independence relations 15

On width of automorphism groups of countable structures with stationary independence relations

01-01-0013

6 板井昌典 (東海大)

Masanori Itai (Tokai Univ.)

A remark on geometric isomorphism and Morita equivalence 15

A remark on geometric isomorphism and Morita equivalence

01-01-0015

7 桔梗宏孝 (神戸大システム情報)

Hirotaka Kikyo (Kobe Univ.)

Hrushovski の「擬平面」について 15

On Hrushovski's "pseudoplanes"

01-01-0018

8 池田宏一郎 (法政大経営)

Koichiro Ikeda (Hosei Univ.)

真に安定なジェネリック構造について 15

On strictly stable generic structures

14:15~16:15

01-99-0003

9 熊澤昌明 (箕面自由学園高)

Masaaki Kumazawa
(Mino-Jiyu Gakuen High School)

BCK-代数における可換元の存在と下限の存在の関係について 10

On the relationship between the existence of commutative elements and the existence of infimums in BCK-algebras

01-01-0011

10 鈴木信行 (静岡大)

Nobu-Yuki Suzuki (Shizuoka Univ.)

中間述語論理における選言特性とその弱い変種についての注意 15

Remarks on disjunction property and its weak variants in intermediate predicate logics

01-01-0007

11 倉橋太志 (木更津工高専)

Taishi Kurahashi
(Nat. Inst. of Tech., Kisarazu Coll.)

様相論理 **KD** の算術的完全性 15

Arithmetical completeness of the modal logic **KD**

01-01-0016

12 菊池誠 (神戸大システム情報)

Makoto Kikuchi (Kobe Univ.)

幾何学の基礎に関するフレーゲとヒルベルトの論争について 15

On the Frege–Hilbert controversy over the foundations of geometry

01-01-0021

13 只木孝太郎 (中部大)

Kohtaro Tadaki (Chubu Univ.)

アルゴリズム的ランダムネスによる量子力学の再構成 III: その物理的帰結

..... 15

A refinement of quantum mechanics by algorithmic randomness III: Its consequences

3 数学基礎論および歴史

01-01-0019	14 田中一之 (東北大理) 李文娟 (Nanyang Tech. Univ.) <u>Kazuyuki Tanaka</u> (Tohoku Univ.) Li Wenjuan (Nanyang Tech. Univ.)	Modal μ -calculus and its one-variable hierarchy 15
01-01-0014	15 黒田 覚 (群馬県女大文) Satoru Kuroda (Gunma Pref. Women's Univ.)	Forcing in bounded arithmetic for small complexity classes 15
01-01-0012	16 重水美香 (首都大東京理) 鈴木登志雄 (首都大東京理) 宇佐美紘貴 (首都大東京理) <u>Mika Shigemizu</u> (Tokyo Metro. Univ.) <u>Toshio Suzuki</u> (Tokyo Metro. Univ.) Koki Usami (Tokyo Metro. Univ.)	Forcing in bounded arithmetic for small complexity classes Independent distributions on a multi-branching AND-OR tree of height 2 15

16:30~17:30 特別講演

01-02-0002	樋口幸治郎 (日大工) Kojiro Higuchi (Nihon Univ.)	Computable prestructures Computable prestructures
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9月27日(木)

9:00~10:50

01-01-0002	17 増田茂 (流体数理古典理論研) Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics)	Poisson' "sloughs" in his final works in life, "A Study of Mathematical Physics" 15
01-01-0003	18 増田茂 (流体数理古典理論研) Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics)	The celestial mechanics in conformity to the mathematical physics by Poisson 15
01-01-0004	19 増田茂 (流体数理古典理論研) Shigeru Masuda (Res. Workshop of Classical Fluid Dynamics)	The Poisson's integral owing to Legendre's formulae and his own 15
01-99-0002	20 田中昭太郎 Shotaro Tanaka	* 分数関数の展開の境界値を求める —ローラン展開と衰耗展開— 15 To express fractions into power series by Suida expansion
01-01-0020	21 斎藤憲 (四日市大関孝和数学研) Ken Saito (Yokkaichi Univ.)	エウクレイデス『原論』全文の構文解析の進行状況 15
01-01-0008	22 森本光生 (四日市大関孝和数学研・上智大*) Mitsuo Morimoto (Yokkaichi Univ. / Sophia Univ.*)	Syntactic analysis of the whole text of Euclid's Elements (progress report) b 大成算経 首篇, 卷之一, 二, 三 15 Preliminary Volume, and Volumes 1, 2 and 3 of the Taisei Sankei
01-01-0017	23 張替俊夫 (大阪産大全学教育機構) Toshio Harikae (Osaka Sangyo Univ.)	『海島算経』の比例計算について 15 On proportionality in "The Sea Island Mathematical Manual"

4 数学基礎論および歴史

11:00～12:00 特別講演

01-02-0001
佐藤 賢一 (電通大) 関孝和と同時代の数学者たち

Kenichi Sato (Univ. of Electro-Comm.) SEKI Takakazu and his contemporary mathematicians

12:00～12:30 数学基礎論および歴史分科会総会

12:30～13:00 歴史部門懇談会

代 数 学

9月 24日(月)

9:15~11:45

02-01-0028

- 1 神代真也 (千葉大) トレス加群の遍在性からみた Gorenstein 性の解析 10
 後藤四郎 (明大*)
 磯部遼太郎 (千葉大)
Shinya Kumashiro (Chiba Univ.)
Shiro Goto (Meiji Univ.*)
Ryotaro Isobe (Chiba Univ.)
- The Gorenstein property and correspondences between trace ideals and birational finite extensions

02-01-0030

- 2 磯部遼太郎 (千葉大) The structure of chains of Ulrich ideals in Cohen–Macaulay local rings 10
 後藤四郎 (明大*)
 神代真也 (千葉大)
Ryotaro Isobe (Chiba Univ.)
Shiro Goto (Meiji Univ.*)
Shinya Kumashiro (Chiba Univ.)
- The structure of chains of Ulrich ideals in Cohen–Macaulay local rings of dimension one

02-01-0059

- 3 松井紘樹 (名大多元数理) Remarks on a conjecture of Huneke and Wiegand 10
Hiroki Matsui (Nagoya Univ.)
- Remarks on a conjecture of Huneke and Wiegand

02-01-0023

- 4 土谷昭善 (阪大情報) Edge rings with 3-linear resolutions 10
 日比孝之 (阪大情報)
Akiyoshi Tsuchiya (Osaka Univ.)
 松田一徳 (北見工大工)
Takayuki Hibi (Osaka Univ.)
Kazunori Matsuda
 (Kitami Inst. of Tech.)
- Edge rings with 3-linear resolutions

02-01-0036

- 5 土谷昭善 (阪大情報) 边凸多面体に付随する反射的凸多面体 10
 長岡高広 (京大)
Akiyoshi Tsuchiya (Osaka Univ.)
Takahiro Nagaoka (Kyoto Univ.)
- Reflexive polytopes arising from edge polytopes

02-01-0037

- 6 土谷昭善 (阪大情報) 反射的凸多面体の depth 10
 日比孝之 (阪大情報)
Akiyoshi Tsuchiya (Osaka Univ.)
Takayuki Hibi (Osaka Univ.)
- The depth of a reflexive polytope

02-01-0073

- 7 東平光生 (明大研究・知財) Semi-unmixed となる二部グラフの辺イデアルについて 10
Hirotaka Higashidaira (Meiji Univ.)
- On the edge ideal of semi-unmixed bipartite graphs

02-01-0016

- 8 宮崎充弘 (京都教育大) Canonical and anticanonical analytic spreads of a Hibi ring 10
Mitsuhiro Miyazaki
 (Kyoto Univ. of Edu.)
- Canonical and anticanonical analytic spreads of a Hibi ring

02-01-0017

- 9 宮崎充弘 (京都教育大) Limit T-complexity of Ehrhart rings and limit Frobenius complexity of Hibi rings 10
Mitsuhiro Miyazaki
 (Kyoto Univ. of Edu.)
- Limit T-complexity of Ehrhart rings and limit Frobenius complexity of Hibi rings

6 代数学

02-01-0054	10 柴田孝祐 (岡山大自然) 柳川浩二 (関西大システム理工) Kohsuke Shibata (Okayama Univ.) Kohji Yanagawa (Kansai Univ.)	Strongly stable ideal の alternative polarization とその Alexander 双対について 10 Alternative polarizations of strongly stable ideals, and their Alexander duals
02-01-0031	11 矢澤明喜子 (信州大総合理工) Akiko Yazawa (Shinshu Univ.)	木の母関数から構成される環の強 Lefschetz 性 10 The Lefschetz property for an algebra constructed from a graph
02-01-0010	12 張間忠人 (新潟大教育)* 和地輝仁 (北教大鉄路) 渡辺純三 (東海大*) Tadahito Harima (Niigata Univ.) Akihit Wachi (Hokkaido Univ. of Edu.) Junzo Watanabe (Tokai Univ.*)	一次式の積で定義される完全交叉の強いレフシェツ性について 10 The strong Lefschetz property for complete intersections defined by products of linear forms
02-01-0071	13 小野舞子 (岡山大自然) 吉野雄二 (岡山大自然) Maiko Ono (Okayama Univ.) Yuji Yoshino (Okayama Univ.)	DG 加群の持ち上げについて 10 On liftings of DG modules
14:15~15:15 特別講演		
02-02-0002	浅芝秀人 (静岡大理) Hideto Asashiba (Shizuoka Univ.)	2 圈論的被覆理論と導來同値 2-categorical covering theory and derived equivalences
15:30~17:10		
02-01-0008	14 佐藤眞久 (愛知大地域政策・山梨大*) Masahisa Sato (Aichi Univ. / Univ. of Yamanashi*)	唯一の極大部分加群を持つ射影加群について 10 Projective module with unique maximal submodule
02-01-0070	15 加瀬遼一 (岡山理大総合情報) Ryoichi Kase (Okayama Univ. of Sci.)	τ -傾半順序構造からの多元環の復元 10 From support τ -tilting posets to algebras
02-01-0013	16 百合草寿哉 (名大多元数理) Toshiya Yurikusa (Nagoya Univ.)	Combinatorial cluster expansion formulas from triangulated surfaces 10 Combinatorial cluster expansion formulas from triangulated surfaces
02-01-0020	17 水野有哉 (静岡大) Yuya Mizuno (Shizuoka Univ.)	Torsion pairs for quivers and the Coxeter groups 10 Torsion pairs for quivers and the Coxeter groups
02-01-0065	18 足立崇英 (阪府大) 水野有哉 (静岡大) Takahide Adachi (Osaka Pref. Univ.) Yuya Mizuno (Shizuoka Univ.)	Silting objects and t -structures 10 Silting objects and t -structures
02-01-0062	19 浅井聰太 (名大多元数理) Sota Asai (Nagoya Univ.)	煉瓦が定める Grothendieck 群の部屋構造 10 The chamber structures of the Grothendieck groups coming from bricks
02-01-0048	20 塚本真由 (阪市大) Mayu Tsukamoto (Osaka City Univ.)	On upper bound for global dimension of Auslander–Dlab–Ringel algebras 10 On upper bound for global dimension of Auslander–Dlab–Ringel algebras

7 代数学

02-01-0051	21 馬場 良始 (大阪教育大) Yoshitomo Baba (Osaka Kyoiku Univ.)	弱余原田列による両側原田環の特徴付けについて 10 On Harada rings and weak co- <i>H</i> -sequences
02-01-0027	22 板場 綾子 (東京理大理) 松野仁樹 (静岡大理) Ayako Itaba (Tokyo Univ. of Sci.) Masaki Matsuno (Shizuoka Univ.)	点スキームが楕円曲線である幾何的代数の代数同型および森田同値を除く分類について 10 Classifications of geometric algebras whose point schemes are elliptic curves

9月25日(火)

9:30~12:00

02-01-0024	23 辻栄周平 (広島国際学院大情報文化) Shuhei Tsujie (Hiroshima Kokusai Gakuin Univ.)	On chromatic symmetric functions of trivially perfect graphs and cographs 10 On chromatic symmetric functions of trivially perfect graphs and cographs
02-01-0043	24 松村朝雄 (岡山理大理) Tomoo Matsumura (Okayama Univ. of Sci.)	A tableau formula of the double Grothendieck polynomials associated to 321 avoiding permutations 10 A tableau formula of the double Grothendieck polynomials associated to 321 avoiding permutations
02-01-0044	25 堀口達也 (阪大情報 Tatsuya Horiguchi (Osaka Univ.)	正則な幕零ヘッセンバーグ多様体のコホモロジー環とシューベルト多項式 10 The cohomology rings of regular nilpotent Hessenberg varieties and Schubert polynomials
02-01-0060	26 黒澤恵光 (沼津工高専) Yoshiteru Kurosawa (Numazu Nat. Coll. of Tech.)	\mathbb{B} 型の重み付きクイバーに付随する概均質ベクトル空間の相対不变式の構成 10 Construction of relative invariants of prehomogeneous vector spaces associated with valued quivers of type \mathbb{B}
02-01-0012	27 渋川元樹 (神戸大理) Genki Shibukawa (Kobe Univ.)	The Fibonacci numbers and Kostka numbers 10 The Fibonacci numbers and Kostka numbers
02-01-0068	28 柴田大樹 (岡山理大理) Taiki Shibata (Okayama Univ. of Sci.)	On centers of Chevalley supergroups 10 On centers of Chevalley supergroups
02-01-0019	29 米澤康好 (名大多元数理) Yasuyoshi Yonezawa (Nagoya Univ.)	Categorification of Howe representations of $U_q(\mathfrak{gl}_m)$ and the quiver Hecke algebra 10 Categorification of Howe representations of $U_q(\mathfrak{gl}_m)$ and the quiver Hecke algebra
02-01-0032	30 中岡宏行 (鹿児島大理工) Hiroyuki Nakaoka (Kagoshima Univ.)	On a unification of exact categories and triangulated categories 10 On a unification of exact categories and triangulated categories
02-01-0042	31 速水孝夫 (北海学園大工) Takao Hayami (Hokkai-Gakuen Univ.)	On Hochschild cohomology ring and integral cohomology ring for the semidihedral group 10 On Hochschild cohomology ring and integral cohomology ring for the semidihedral group
02-01-0053	32 若竹昌洋 (近畿大総合理工) Masahiro Wakatake (Kindai Univ.)	The unit group of a partial Burnside ring of a reducible Coxeter group of type A 10 The unit group of a partial Burnside ring of a reducible Coxeter group of type A

02-01-0072	33 佐々木洋城 (信州大教育)*	ブロック・イデアルのソース多元環の加群構造について	10
	Hiroki Sasaki (Shinshu Univ.)	On module structures of source algebras of block ideals	
02-01-0033	34 澤 正憲 (神戸大システム情報)	古典準直交多項式の判別式の明示公式とその応用	10
	内田 幸寛 (首都大東京理)	Compact formulas for discriminants of classical quasi-orthogonal polynomials, with their applications	
	Masanori Sawa (Kobe Univ.)		
	Yukihiro Uchida (Tokyo Metro. Univ.)		
13:00~14:00 特別講演			
02-02-0004	35 山崎 義徳 (愛媛大理)	Schur 多重ゼータ関数について	
	Yoshinori Yamasaki (Ehime Univ.)	On Schur multiple zeta functions	

9月26日(水)

9:15~11:25			
02-01-0026	35 矢城 束 (東京電機大先端)	L字型 window に関する離散トモグラフィー	10
	南 綾寧 (東京電機大理工)	Discrete tomography for the L-shaped window	
	Tabane Yashiro (Tokyo Denki Univ.)		
	Ayane Minami (Tokyo Denki Univ.)		
02-01-0046	36 小塙 和人 (都城工高専)*	p 進 Dedekind 和の modular 行列に関する相互関係式	10
	Kazuhito Kozuka	Reciprocity relations for p -adic Dedekind sums related to modular matrices	
02-01-0022	37 D. Banerjee (IISER)*	Mean square of the double zeta function	10
	南出 真 (山口大理)		
	谷川好男		
	Debika Banerjee (IISER)	Mean square of the double zeta function	
	Makoto Minamide (Yamaguchi Univ.)		
	Yoshio Tanigawa		
02-01-0063	38 井上 翔太 (名大多元数理)	A relation between the estimate of $S(t)$ and the zero density estimate in short intervals	10
	Shota Inoue (Nagoya Univ.)	A relation between the estimate of $S(t)$ and the zero density estimate in short intervals	
02-01-0011	39 中筋 麻貴 (上智大理工)	Hook Schur 型多重ベルヌーイ数	10
	中村直樹 (上智大理工)		
	Maki Nakasuji (Sophia Univ.)		
	Naoki Nakamura (Sophia Univ.)		
02-01-0057	40 広瀬 稔 (九大数理)	多重ゼータ値に対する正規化定理の多項式拡張	10
	村原英樹 (中村学園大)		
	斎藤新悟 (九大基幹教育院)		
	Minoru Hirose (Kyushu Univ.)		
	Hideki Murahara		
	(Nakamura Gakuen Univ.)		
	Shingo Saito (Kyushu Univ.)		
02-01-0075	41 梅澤 瞼太 (名大多元数理)	多重ゼータ値と log-sine 積分について	10
	Ryota Umezawa (Nagoya Univ.)	On multiple zeta values and log-sine integrals	

9 代数学

02-01-0003	42 飯 高 茂 (学 習 院 大*) Shigeru Iitaka (Gakushuin Univ.*)	スーパー完全数の平行移動 10 Super perfect numbers with translation parameters m
02-01-0009	43 松 田 康 雄 (久留米工高専) Yasuo Matsuda (Kurume Nat. Coll. of Tech.)	対称的な漸化式 10 On the symmetric recurrent formula
02-01-0035	44 斎 藤 耕 太 (名多元数理) 吉 田 裕 哉 (名多元数理) Kota Saito (Nagoya Univ.) Yuuya Yoshida (Nagoya Univ.)	小湾曲列中の等差数列 10 Arithmetic progressions in the graphs of slightly curved sequences
02-01-0058	45 丸 山 文 細 出 口 洋 三 豊 泉 正 男 (東 洋 大 理 工) Fumitsuna Maruyama Yozo Deguchi Masao Toyoizumi (Toyo Univ.)	On the cardinality of subsets of the matrix ring over certain residue ring 10 On the cardinality of subsets of the matrix ring over certain residue ring

11:30~12:00 代数学分科会総会**14:15~15:15 特別講演**

02-02-0003	山 崎 隆 雄 (東 北 大 理) Takao Yamazaki (Tohoku Univ.)	モジュラス付きモチーフと混合 Hodge 構造 Motives and mixed Hodge structures with modulus
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15:30~17:40

02-01-0064	46 渡 辺 文 彦 (防 衛 大)* Humihiko Watanabe (Nat. Defense Acad. of Japan)	データ因子の補集合の基本群 10 Fundamental group of the complement of theta divisors
02-01-0006	47 武 田 渉 (名多元数理) Wataru Takeda (Nagoya Univ.)	The finiteness of solutions of Diophantine equation over number fields 10 The finiteness of solutions of Diophantine equation over number fields
02-01-0007	48 小 関 祥 康 (神 奈 川 大 理) Yoshiyasu Ozeki (Kanagawa Univ.)	アーベル多様体のねじれ部分群と Lubin–Tate 拡大 10 Torsion of abelian varieties and Lubin–Tate extensions
02-01-0015	49 児 玉 浩 尚 (工学院大学習支援センター) Hirotaka Kodama (Kogakuin Univ.)	A note on the Sturm bound for Siegel modular forms of type $(k, 2)$ 10 A note on the Sturm bound for Siegel modular forms of type $(k, 2)$
02-01-0061	50 境 優 一 (九大多重ゼータ研究センター) Yuichi Sakai (Kyushu Univ.)	Modular linear differential equations in general form 10 Modular linear differential equations in general form
02-01-0055	51 河 本 史 紀 (学 習 院 大 理) 岸 康 弘 (愛 知 教 育 大 教 育) 鈴 木 浩 志 (名 多 元 数 理) 富 田 耕 史 (名 城 大 理 工) Fuminori Kawamoto (Gakushuin Univ.) Yasuhiro Kishi (Aichi Univ. of Edu.) Hiroshi Suzuki (Nagoya Univ.) Koshi Tomita (Meijo Univ.)	偶数周期の最小元の性質について 10 On some properties of the minimal elements with even period

10 代数学

02-01-0056		
52 河本史紀 (学習院大理)	ある実2次体の系列における類数の下からの評価	..... 10
岸康弘 (愛知教育大教育)		
鈴木浩志 (名大多元数理)		
富田耕史 (名城大理工)		
Fuminori Kawamoto (Gakushuin Univ.)		
<u>Yasuhiro Kishi</u> (Aichi Univ. of Edu.)		
Hiroshi Suzuki (Nagoya Univ.)		
Koshi Tomita (Meijo Univ.)		
02-01-0004		
53 塩見大輔 (山形大理)	2次の導手を持つ cyclotomic function field の類数の p 可除性について	..... 10
Daisuke Shiomi (Yamagata Univ.)		
02-01-0039		
54 山本康太 (名工大)	二次多項式写像から生じる代数体の反復拡大について	..... 10
Kota Yamamoto (Nagoya Inst. of Tech.)		
02-01-0018		
55 菅本守 (アブリズム)	ガロア理論を適用した量子力学	..... 10
菅本晶夫		
(お茶の水女大理・放送大)		
Mamoru Sugamoto (apprhythm inc.)	Galois theory and quantum mechanics	
Akio Sugamoto		
(Ochanomizu Univ./Open Univ. of Japan)		
02-01-0047		
56 金子元 (筑波大数理物質)	ベキ級数に代数的整数を代入した値の超越性	..... 10
Hajime Kaneko (Univ. of Tsukuba)		
	On the transcendence of the values of power series at algebraic integer points	

9月27日(木)

9:15~12:00

02-01-0066		
57 鳥居猛 (岡山大自然)	3次行列環の部分代数のモジュライ (2)	..... 10
中本和典 (山梨大医)		
Takeshi Torii (Okayama Univ.)		
<u>Kazunori Nakamoto</u>		
(Univ. of Yamanashi)		
02-01-0067		
58 鳥居猛 (岡山大自然)	An application of Hochschild cohomology to the moduli of subalgebras	
中本和典 (山梨大医)	of the full matrix ring	..... 10
Takeshi Torii (Okayama Univ.)		
<u>Kazunori Nakamoto</u>		
(Univ. of Yamanashi)		
02-01-0041		
59 佐藤悠介 (名大多元数理)	Hilb $^G(\mathbb{C}^4)$ and crepant resolutions of certain abelian group in $SL(4, \mathbb{C})$	..... 10
Yusuke Sato (Nagoya Univ.)		
	Hilb $^G(\mathbb{C}^4)$ and crepant resolutions of certain abelian group in $SL(4, \mathbb{C})$	
02-01-0038		
60 泊昌孝 (日大文理)*	n 次元 weighted homogeneous 正規特異点の座標系が被約元を与えるひとつの条件について	..... 10
Masataka Tomari (Nihon Univ.)		
	A condition for a weighted homogeneous singularity to have a reduced coordinate function	

11 代数学

02-01-0040	61 柴田 崇広 (京大 理)*	Ample canonical heights for endomorphisms on projective varieties	10
	Takahiro Shibata (Kyoto Univ.)	Ample canonical heights for endomorphisms on projective varieties	
02-01-0014	62 山形 風 (北大 理)	Braid 配置の一般化とその組合せ論的構造について	10
	So Yamagata (Hokkaido Univ.)	Generalization of braid arrangement and its combinatorics	
02-01-0034	63 工藤 陸 (早大理工)	About counterexamples for Generalized Zariski Cancellation Problem	10
	Riku Kudou (Waseda Univ.)	About counterexamples for Generalized Zariski Cancellation Problem	
02-01-0074	64 榎園 誠 (阪大 理)	種数 4 の Eisenbud–Harris 特殊なファイバー曲面のスロープ等式	10
	Makoto Enokizono (Osaka Univ.)	Slope equality of Eisenbud–Harris special fibrations of genus 4	
02-01-0025	65 藤原 宏道 (早大理工)	(2, 2, 2, 2, 2; λ_1, λ_2) 型重み付き射影直線上の階数 2 直既約ベクトル束に関して	10
	Hiromichi Fujiwara (Waseda Univ.)	On indecomposable vector bundles of rank two on a weighted projective line of type $(2, 2, 2, 2, 2; \lambda_1, \lambda_2)$	
02-01-0050	66 山田 紀美子 (岡山理大)	Obstructed stable sheaves on elliptic surfaces—canonical singularities—	10
	Kimiko Yamada (Okayama Univ. of Sci.)	Obstructed stable sheaves on elliptic surfaces—canonical singularities—	
02-01-0052	67 山田 紀美子 (岡山理大)	Obstructed stable sheaves on elliptic surfaces—not determined by degree-two terms—	10
	Kimiko Yamada (Okayama Univ. of Sci.)	Obstructed stable sheaves on elliptic surfaces—not determined by degree-two terms—	
02-01-0001	68 須山 雄介 (阪大 理)	Building set に伴うトーリック Fano 多様体	10
	Yusuke Suyama (Osaka Univ.)	Toric Fano varieties associated to building sets	
02-01-0002	69 須山 雄介 (阪大 理)	Graph cubeahedron に伴うトーリック Fano 多様体	10
	Yusuke Suyama (Osaka Univ.)	Toric Fano varieties associated to graph cubeahedra	
14:15~15:15 特別講演			
02-02-0001	阿部 拓郎 (九大IMI)	超平面配置の対数的ベクトル場とその自由性	
	Takuro Abe (Kyushu Univ.)	Logarithmic vector fields and freeness of hyperplane arrangements	
15:30~16:40			
02-01-0021	70 Eunjeong Lee (KAIST・韓国基礎科研)	Generic torus orbit closures in Schubert varieties	10
	木田 幹也 (阪市大)		
	Eunjeong Lee (KAIST/IBS)	Generic torus orbit closures in Schubert varieties	
	Mikiya Masuda (Osaka City Univ.)		
02-01-0049	71 川口 良 (奈良県医大)	トーリック多様体における Castelnuovo 多様体の性質	10
	Ryo Kawaguchi (Nara Medical Univ.)	The properties of toric Castelnuovo varieties	
02-01-0069	72 南範彦 (名工大)	Covering Higher Fano varieties by rational varieties	10
	Norihiro Minami (Nagoya Inst. of Tech.)	Covering Higher Fano varieties by rational varieties	

02-01-0029	73 鈴木 拓 (宇都宮大教育)	ファノ多様体上の高階直線族	10
	Taku Suzuki (Utsunomiya Univ.)	Higher order families of lines on Fano manifolds	
02-01-0005	74 岩見智宏 (九工大工)*	Bogomolov–Miyaoka–Yau type inequality for a coherent system associated to certain 3-fold	10
	Tomohiro Iwami (Kyushu Inst. of Tech.)	Bogomolov–Miyaoka–Yau type inequality for a coherent system associated to certain 3-fold	
02-01-0045	75 土基善文 (高知大理)	Non-commutative Kähler projective varieties	10
	Yoshifumi Tsuchimoto (Kochi Univ.)	Non-commutative Kähler projective varieties	

幾何学

9月24日(月)

9:40~11:40

03-01-0004

- 1 齋藤三郎 (群馬大*・再生核研) * Division by zero calculus in figures —Our new space since Euclid—
 奥村博 (Draft) 10
Saburou Saitoh
 (Gunma Univ.*/Inst. of Reproducing Kernels)
 Hiroshi Okumura

03-01-0005

- 2 齋藤三郎 (群馬大*・再生核研) * Applications of the division by zero calculus to Wasan geometry 10
 奥村博
Saburou Saitoh
 (Gunma Univ.*/Inst. of Reproducing Kernels)
 Hiroshi Okumura

03-01-0011

- 3 古場一 (阪大基礎工) Double bubble 内の濃度拡散の数理モデリング 12
 Hajime Koba (Osaka Univ.)
 Mathematical modeling of diffusion system on an evolving double bubble

03-01-0006

- 4 佐藤雄一郎 (首都大東京理) 3次元特異擬ユークリッド空間 $\mathbb{R}^{0,2,1}$ 内の d -極小曲面 15
 Yuichiro Sato (Tokyo Metro. Univ.)
 d -minimal surfaces in three-dimensional singular semi-Euclidean space
 $\mathbb{R}^{0,2,1}$

03-01-0028

- 5 Joseph Cho (神戸大理) 平均曲率一定曲面とポジトン型解 15
 緒方勇太 (沖縄工高専)
 Joseph Cho (Kobe Univ.)
Yuta Ogata
 (Okinawa Nat. Coll. of Tech.)
 Constant mean curvature surfaces and positon-like solutions

03-01-0023

- 6 赤嶺新太郎 (名大多元数理) 時間的 Thomsen 曲面の分類と変形について 15
 Joseph Cho (神戸大理)
 緒方勇太 (沖縄工高専)
Shintaro Akamine (Nagoya Univ.)
 Joseph Cho (Kobe Univ.)
 Yuta Ogata
 (Okinawa Nat. Coll. of Tech.)
 Classification of timelike Thomsen surfaces and their deformations

03-01-0014

- 7 榎吉奏子 (お茶の水女大人間文化創成) Principal curvatures of homogeneous hypersurfaces in a Grassmann manifold $\widetilde{\text{Gr}}_3(\text{Im}\mathbb{O})$ by the G_2 -action 15
 Kanako Enoyoshi (Ochanomizu Univ.)
 Principal curvatures of homogeneous hypersurfaces in a Grassmann manifold $\widetilde{\text{Gr}}_3(\text{Im}\mathbb{O})$ by the G_2 -action

03-01-0013

- 8 塚田和美 (お茶の水女大理) Examples of transversally complex submanifolds of the associative Grassmann manifold 10
 榎吉奏子 (お茶の水女大人間文化創成)
Kazumi Tsukada (Ochanomizu Univ.)
 Kanako Enoyoshi (Ochanomizu Univ.)
 Examples of transversally complex submanifolds of the associative Grassmann manifold

14:15~16:15

03-01-0008

9 前田陽一 (東海大理)

Yoichi Maeda (Tokai Univ.)

実特殊線形変換群 $SL(2, \mathbb{R})$ の 3 次元球面への埋め込みと, $SL(2, \mathbb{Z})$ の対称行列が形作る双曲的パターン 10

03-01-0030

10 島本直弥 (東大数理)

Naoya Shimamoto (Univ. of Tokyo)

Embedding of $SL(2, \mathbb{R})$ into the three-dimensional sphere and a hyperbolic pattern of symmetric matrices of $SL(2, \mathbb{Z})$
Description of infinite orbits on multiple flag varieties: projective space case 15

03-01-0027

11 前多啓一 (東大数理)

Keiichi Maeta (Univ. of Tokyo)

Description of infinite orbits on multiple flag varieties: projective space case
コンパクト Clifford–Klein 形を持つ分解不可能な符号 (2, 2) の擬 Riemann 対称空間の分類 15
The classification of indecomposable pseudo Riemannian symmetric spaces with signature (2, 2) which admit compact Clifford–Klein forms

03-01-0025

12 権藤曉則 (広島大理)

Akinori Gondo (Hiroshima Univ.)

非連結り一群による非コンパクト型対称空間への余等質性 1 作用 10
Cohomogeneity one actions of disconnected Lie groups on symmetric spaces of noncompact type

03-01-0024

13 大野晋司 (日大文理)

Shinji Ohno (Nihon Univ.)

球面内の等質二重調和部分多様体 15
Homeogeneous biharmonic submanifolds in spheres

03-01-0026

14 大野晋司 (日大文理)

酒井高司 (首都大東京理)

寺内泰紀

Shinji Ohno (Nihon Univ.)
Takashi Sakai (Tokyo Metro. Univ.)
Yasunori Tereuchi一般化された s 多様体の対蹠集合 15
Antipodal sets of generalized s -manifolds

03-01-0020

15 田中真紀子 (東京理大理工)

田崎博之 (筑波大数理物質)

Makiko Sumi Tanaka

(Tokyo Univ. of Sci.)

Hiroyuki Tasaki (Univ. of Tsukuba)

古典型コンパクト対称空間の極大対蹠集合 I 15
Maximal antipodal sets of classical compact symmetric spaces I

16:30~17:30 特別講演

03-02-0004

森田陽介 (京大理)

Yosuke Morita (Kyoto Univ.)

非 Riemann 等質空間のコンパクト商のコホモロジー

On the cohomology of compact quotients of non-Riemannian homogeneous spaces

9月25日(火)

10:10~10:25 2018年度日本数学会幾何学賞授賞式

10:30~11:30 2018年度日本数学会幾何学賞受賞特別講演 (トポロジー分科会と合同)

03-02-0001

本多正平 (東北大理) Ricci 曲率が下に有界な特異空間上の幾何解析

Shouhei Honda (Tohoku Univ.)

Geometric analysis on metric measure spaces with Ricci bounds from below

13:15~14:15 特別講演

03-02-0003

久本智之 (名大多元数理)

Tomoyuki Hisamoto (Nagoya Univ.)

変分法から見た Kähler–Einstein 問題

A variational aspect of the Kähler–Einstein problem

9月26日(水)

9:50~11:40

- 03-01-0015**
 16 大鳥羽暢彦 (Univ. Regensburg)*
 J. Petean (CIMAT)
Nobuhiko Otoba (Univ. Regensburg)
 Jimmy Petean (CIMAT)
 Bifurcation for the constant scalar curvature equation and harmonic Riemannian submersions
- 03-01-0016**
 17 大鳥羽暢彦 (Univ. Regensburg)
 S. Roos (MPIM)
Nobuhiko Otoba (Univ. Regensburg)
 Saskia Roos (MPIM)
 Scalar curvature and the multiconformal class of a direct product Riemannian manifold
- 03-01-0021**
 18 池田 薫 (慶大経済)^b
 Kaoru Ikeda (Keio Univ.)
 Heisenberg 群に関する symplectic 構造と実係数の特性類について 15
 The symplectic structures on the Heisenberg groups and real characteristic classes
- 03-01-0010**
 19 池田 憲明 (立命館大理工)
 Noriaki Ikeda (Ritsumeikan Univ.)
 On the relation of Lie algebroids to constrained Hamiltonian systems and their BV/BFV formulation 15
 On the relation of Lie algebroids to constrained Hamiltonian systems and their BV/BFV formulation
- 03-01-0019**
 20 小澤龍ノ介 (阪大理)
 横田 巧 (京大数理研)
Ryunosuke Ozawa (Osaka Univ.)
 Takumi Yokota (Kyoto Univ.)
 Stability of Riemannian curvature dimension condition under concentration topology 15
 Stability of Riemannian curvature dimension condition under concentration topology
- 03-01-0009**
 21 高津飛鳥 (首都大東京理)^b
 Asuka Takatsu (Tokyo Metro. Univ.)
 退化した circle pattern に収束するトーラス上の組合せリッチ流 15
 Convergence of combinatorial Ricci flows on tori to degenerated circle patterns
- 14:15~16:15**
- 03-01-0007**
 22 伊敷喜斗 (筑波大数理物質)
 Yoshito Ishiki (Univ. of Tsukuba)
 カントール距離空間の擬対称不変性質 15
 Quasi-symmetric invariant properties of Cantor metric spaces
- 03-01-0022**
 23 竹内秀 (東北大理)
 Shu Takeuchi (Tohoku Univ.)
 距離空間上のカレントと \flat 距離 15
 Currents in metric spaces and flat distances
- 03-01-0018**
 24 國川慶太 (東北大AIMR)
 斎藤俊輔 (東北大AIMR)
Keita Kunikawa (Tohoku Univ.)
 Shunsuke Saito (Tohoku Univ.)
 ツラスレーティングソリトンの安定性とトポロジー 15
 Stability and topology of translating solitons
- 03-01-0003**
 25 只野 誉 (東京理大)
 Homare Tadano (Tokyo Univ. of Sci.)
 Some Cheeger-Gromov-Taylor type theorems for Finsler manifolds 15
 Some Cheeger-Gromov-Taylor type theorems for Finsler manifolds
- 03-01-0012**
 26 澤井洋 (沼津工高専)
 Hiroshi Sawai
 (Numazu Nat. Coll. of Tech.)
 LCK 可解多様体における Vaisman 構造と複素構造について 15
 Vaisman structures and complex structures on LCK solvmanifolds
- 03-01-0002**
 27 橋本義規
 (Univ. degli Studi di Firenze)
 Yoshinori Hashimoto
 (Univ. degli Studi di Firenze)
 Twisted constant scalar curvature Kähler metrics with a large twist 15
 Twisted constant scalar curvature Kähler metrics with a large twist

03-01-0001	28 <u>本間泰史</u> (早大理工) U. Semmelmann (Univ. Stuttgart)	The kernel of the Rarita–Schwinger operator on Riemannian spin manifolds	15
	<u>Yasushi Homma</u> (Waseda Univ.) Uwe Semmelmann (Univ. Stuttgart)	The kernel of the Rarita–Schwinger operator on Riemannian spin manifolds	

16:30~17:30 特別講演

03-02-0002	藤田玄 (日本女大理) Hajime Fujita (Japan Women's Univ.)	シンプレクティック多様体上のディラック型作用素の指数とその局所化について Index of Dirac-type operator on symplectic manifolds and its localization	
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函 数 論

9月 24 日(月)

9:00~11:50	
04-01-0001	
1 齋藤三郎 (群馬大*・再生核研) *	Division by zero calculus 15
Saburou Saitoh (Gunma Univ.*/Inst. of Reproducing Kernels)	Division by zero calculus
04-01-0002	
2 齋藤三郎 (群馬大*・再生核研) *	The Descartes circles theorem and division by zero calculus 15
奥村博 Saburou Saitoh (Gunma Univ.*/Inst. of Reproducing Kernels)	The Descartes circles theorem and division by zero calculus
Hiroshi Okumura	
04-01-0014	
3 須川敏幸 (東北大情報) 張坦然 (蘇州大) Toshiyuki Sugawa (Tohoku Univ.) Tanran Zhang (Soochow Univ.)	双曲的穴あき球面の最短閉測地線の長さについて 15
	On the length of the shortest closed geodesics in a hyperbolic punctured sphere
04-01-0023	
4 米谷文男 Fumio Maitani	挙動 Span について 15
	Spans of meromorphic differentials restricted by boundary behavior
04-01-0026	
5 柴雅和 (広島大*) Masakazu Shiba (Hiroshima Univ.*)	開リーマン面の closings —周期行列の複素正規化と方向モジュラスおよびそれらの応用 15
	Closings of an open Riemann surface —Hydrodynamic period matrices, directional moduli and their applications
04-01-0015	
6 石崎克也 (放送大) 木村直文 (放送大) Katsuya Ishizaki (Open Univ. of Japan) Naofumi Kimura (Open Univ. of Japan)	Entire and meromorphic solutions of the functional equation $f^n + g^n + h^n = 1$ and differential equations 15
	Entire and meromorphic solutions of the functional equation $f^n + g^n + h^n = 1$ and differential equations
04-01-0028	
7 松崎克彦 (早大教育) K. Falk (Christian-Albrechts-Univ. zu Kiel) Katsuhiko Matsuzaki (Waseda Univ.) Kurt Falk (Christian-Albrechts-Univ. zu Kiel)	Myrberg limit set and horospheric limit set 15
	Myrberg limit set and horospheric limit set
04-01-0016	
8 平田賢太郎 (広島大理) Kentaro Hirata (Hiroshima Univ.)	半線形橿円型問題の正値解に対する評価 15
	An estimate for positive solutions of a semilinear elliptic problem
04-01-0025	
9 神本丈 (九大数理) 野瀬敏洋 (福岡工大) Joe Kamimoto (Kyushu Univ.) Toshihiro Nose (Fukuoka Inst. of Tech.)	Non-polar singularities of local zeta functions in some smooth case 15
	Non-polar singularities of local zeta functions in some smooth case
04-01-0027	
10 野瀬敏洋 (福岡工大) 神本丈 (九大数理) Toshihiro Nose (Fukuoka Inst. of Tech.) Joe Kamimoto (Kyushu Univ.)	Meromorphy of local zeta functions in smooth model cases 15
	Meromorphy of local zeta functions in smooth model cases

14:15~15:15 特別講演

04-02-0002

中村 豪 (愛知工大工)
Gou Nakamura (Aichi Inst. of Tech.)

極値的円板を許容する閉リーマン面

Closed Riemann surfaces admitting extremal disks

15:30~16:20

04-01-0017

11 中根 静男 (東京工芸大)
Shizuo Nakane
(Tokyo Polytechnic Univ.)

Fiber Julia sets for maps with super-saddle fixed points 15
Fiber Julia sets for maps with super-saddle fixed points

04-01-0004

12 松谷 茂樹 (佐世保工高専)
米田二良 (神奈川工大)
E. Previato (Boston Univ.)
Shigeki Matsutani
(Sasebo Nat. Coll. of Tech.)
Jiryo Komeda (Kanagawa Inst. of Tech.)
Emma Previato (Boston Univ.)

Jacobi inversion formulae for a compact Riemann surface via Weierstrass normal form 15

Jacobi inversion formulae for a compact Riemann surface via Weierstrass normal form

04-01-0005

13 松谷 茂樹 (佐世保工高専)
米田二良 (神奈川工大)
E. Previato (Boston Univ.)
Shigeki Matsutani
(Sasebo Nat. Coll. of Tech.)
Jiryo Komeda (Kanagawa Inst. of Tech.)
Emma Previato (Boston Univ.)

On σ function for the curve, $y^3 = x(x-s)(x-b_1)(x-b_2)$ and its limit of $s \rightarrow 0$ 15On σ function for the curve, $y^3 = x(x-s)(x-b_1)(x-b_2)$ and its limit of $s \rightarrow 0$ **16:35~17:35 特別講演**

04-02-0001

泊 昌孝 (日大文理)*
Masataka Tomari (Nihon Univ.)

2次元正規複素特異点の特異点解消過程による最近の研究

On recent studies on normal two-dimensional complex singularities via resolution process

9月25日(火)

9:00~11:45

04-01-0009

14 岩井 雅崇 (東大数理)
Masataka Iwai (Univ. of Tokyo)

多重随伴束の順像に関する大域切断生成性について 15

On the global generation of direct images of pluri-adjoint line bundles

04-01-0010

15 岩井 雅崇 (東大数理)
Masataka Iwai (Univ. of Tokyo)

ベクトル束の特異エルミート計量に関する消滅定理 15

Vanishing theorems of vector bundles with singular Hermitian metrics

04-01-0011

16 岩井 雅崇 (東大数理)
Masataka Iwai (Univ. of Tokyo)

特異エルミート計量を用いたねじれのない連接層の弱正値性の特徴付け 15

Characterization of weakly positive torsion-free coherent sheaves by singular Hermitian metrics

04-01-0019

17 丸亀 泰二 (台湾中研院)
Taiji Marugame (Academia Sinica)

Self-dual Einstein ACH metric and CR GJMS operators in dimension three 15

Self-dual Einstein ACH metric and CR GJMS operators in dimension three

04-01-0008

18 足立 真訓 (静岡大)
Masanori Adachi (Shizuoka Univ.)

非定数有界正則関数を持たない超凸多様体 10

On a hyperconvex manifold without non-constant bounded holomorphic functions

04-01-0006		
19 千葉 優作 (お茶の水女大基幹) Yusaku Tiba (Ochanomizu Univ.)	Cohomology of non-pluriharmonic loci	15
	Cohomology of non-pluriharmonic loci	
04-01-0012		
20 大沢 健夫 (名多元数理) Takeo Ohsawa (Nagoya Univ.)	西野の剛性定理の L^2 拡張定理による別証 L^2 proof of Nishino's rigidity theorem	15
04-01-0013		
21 阿部 幸隆 (富山大理工) Yukitaka Abe (Univ. of Toyama)	Geometrically simple quasi-abelian varieties	15
	Geometrically simple quasi-abelian varieties	
04-01-0003		
22 児玉秋雄 (金沢大*) Akio Kodama (Kanazawa Univ.*)	A group-theoretic characterization of the Fock–Bargmann–Hartogs domains	15
	A group-theoretic characterization of the Fock–Bargmann–Hartogs domains	
04-01-0007		
23 清水悟 (東北大理) Satoru Shimizu (Tohoku Univ.)	等質有界領域の準局所的特徴付け A semi-local characterization of homogeneous bounded domains	15
13:15~14:20		
04-01-0024		
24 正岡弘照 (京都産大) Hiroaki Masaoka (Kyoto Sangyo Univ.)	開Riemann面上のHeins型定理について On a Heins-type theorem on open Riemann surfaces	15
04-01-0018		
25 濱田英隆 (九州産大理工) Hidetaka Hamada (Kyushu Sangyo Univ.)	A Schwarz lemma at the boundary for pluriharmonic mappings A Schwarz lemma at the boundary for pluriharmonic mappings	10
04-01-0020		
26 濱田英隆 (九州産大理工) Hidetaka Hamada (Kyushu Sangyo Univ.)	A Schwarz lemma at the boundary on finite dimensional irreducible bounded symmetric domains A Schwarz lemma at the boundary on finite dimensional irreducible bounded symmetric domains	15
04-01-0021		
27 I. Graham (Univ. of Toronto) 濱田英隆 (九州産大理工) G. Kohr (Babeş-Bolyai Univ.) Ian Graham (Univ. of Toronto) Hidetaka Hamada (Kyushu Sangyo Univ.) Gabriela Kohr (Babeş-Bolyai Univ.)	A Schwarz lemma at the boundary on complex Hilbert balls and applications to starlike mappings A Schwarz lemma at the boundary on complex Hilbert balls and applications to starlike mappings	15
04-01-0022		
28 I. Graham (Univ. of Toronto) 濱田英隆 (九州産大理工) G. Kohr (Babeş-Bolyai Univ.) Ian Graham (Univ. of Toronto) Hidetaka Hamada (Kyushu Sangyo Univ.) Gabriela Kohr (Babeş-Bolyai Univ.)	A boundary rigidity theorem for holomorphic self-mappings of Hilbert balls A boundary rigidity theorem for holomorphic self-mappings of Hilbert balls	5

函 数 方 程 式 論

9月 24 日(月)

9:15~12:00	
05-01-0072	
1 小川原弘士 (熊本大先端) Hiroshi Ogawara (Kumamoto Univ.)	三角作用素と関数方程式系の解について 10 On solutions for a system of functional equations with triangular operators
05-01-0080	
2 松原宰栄 (神戸大理) Saiei-Jaeyeong Matsubara-Heo (Kobe Univ.)	時間遅れ付き定数係数線形偏微分方程式系の Ehrenpreis–Malgrange 型定理に対する留数 current による接近法 10 Residue current approach to Ehrenpreis–Malgrange type theorem for linear partial differential equations with constant coefficients and commensurate time lags
05-01-0045	
3 松原宰栄 (神戸大理) Saiei-Jaeyeong Matsubara-Heo (Kobe Univ.)	GKZ 超幾何函数の Euler 型積分表示とねじれサイクルの交点理論 10 Euler integral representations of GKZ hypergeometric functions and intersection theory of twisted cycles
05-01-0076	
4 広田高輝 (立命館大理工) ^b Koki Hirota (Ritsumeikan Univ.)	Real eigenvalues of the semiclassical Zakharov–Shabat operator with \mathcal{PT} -like symmetry 10 Real eigenvalues of the semiclassical Zakharov–Shabat operator with \mathcal{PT} -like symmetry
05-01-0008	
5 松永秀章 (阪府大理) 鈴木理菜 Hideaki Matsunaga (Osaka Pref. Univ.) Rina Suzuki	ある 2 次元分型差分方程式の解の漸近挙動の分類 10 Classification of global behavior of a system of rational difference equations
05-01-0032	
6 宇佐美広介 (岐阜大工)* 青木一央 (郡上高) Hiroyuki Usami (Gifu Univ.) Kazuhiro Aoki (Gujo High School)	一般化サイクロイドに関する逆問題 10 Inverse problems for generalized cycloids
05-01-0028	
7 佐野めぐみ (東工大理) Megumi Sano (Tokyo Tech)	単調減少ではない球対称ポテンシャル関数をもつ臨界 Hardy 不等式に関連した最小化問題 10 Minimization problems related to the critical Hardy inequalities with radial potential functions which are not monotone decreasing.
05-01-0037	
8 濱本直樹 (阪市大理) 高橋太 (阪市大理) Naoki Hamamoto (Osaka City Univ.) Futoshi Takahashi (Osaka City Univ.)	Curl-free ベクトル場に対する Hardy–Leray 及び Rellich–Leray 不等式について 10 Hardy–Leray and Rellich–Leray inequalities for curl-free vector fields
05-01-0044	
9 高橋太 (阪市大理) Jaeyoung Byeon (KAIST) Futoshi Takahashi (Osaka City Univ.) Jaeyoung Byeon (KAIST)	一般有界領域上での臨界 Hardy 不等式について 10 Hardy's inequality in a limiting case on general bounded domains
05-01-0023	
10 猪奥倫左 (愛媛大理) ^b Norisuke Ioku (Ehime Univ.)	Attainability of the best Sobolev constants in a ball 10 Attainability of the best Sobolev constants in a ball

05-01-0035	11 柴田 将敬 (東工大理) 足達慎二 (静岡大工) 渡辺達也 (京都産大理) Masataka Shibata (Tokyo Tech) Shinji Adachi (Shizuoka Univ.) Tatsuya Watanabe (Kyoto Sangyo Univ.)	Asymptotic property of ground states for a class of quasilinear Schrödinger equation with H^1 -critical growth 10 Asymptotic property of ground states for a class of quasilinear Schrödinger equation with H^1 -critical growth
05-01-0006	12 豊田 洋平 (阪大基礎工) 鈴木 貴 (阪大MMDS) Yohei Toyota (Osaka Univ.) Takashi Suzuki (Osaka Univ.)	2D Trudinger–Moser inequality for Boltzmann–Poisson equation with continuously distributed multi-intensities 10 2D Trudinger–Moser inequality for Boltzmann–Poisson equation with continuously distributed multi-intensities
05-01-0067	13 大塚 厚二 (広島国際学院大情報文化) V. A. Kovtunenko (Karl-Franzens-Univ. Graz) Kohji Ohtsuka (Hiroshima Kokusai Gakuin Univ.) Victor A. Kovtunenko (Karl-Franzens-Univ. Graz)	鞍点型変分問題での形状感度解析と一般J積分 10 Shape sensitivity analysis via min-max differentiability and Generalized J-integral
14:15~16:15		
05-01-0068	14 西口 純矢 (東北大RACMaS) Junya Nishiguchi (Tohoku Univ.)	遅延微分方程式に対する岡村の距離関数と解の一意性のための十分条件 10 Okamura's distance function and a sufficient condition for the uniqueness of solutions for delay differential equations
05-01-0060	15 上田 好寛 (神戸大海事) 桐 侑也 (アズビル) Yoshihiro Ueda (Kobe Univ.) Yuya Kiri (Azbil Corp.)	Stability analysis for a general system of linear differential equations with discrete delays 10 Stability analysis for a general system of linear differential equations with discrete delays
05-01-0018	16 A. Rodríguez Mulet (北大理) Albert Rodríguez Mulet (Hokkaido Univ.)	非一様な断面を持つ細い柱状型弾性体の固有振動の漸近挙動 10 Asymptotic behavior of eigenfrequencies of a thin elastic rod with non-uniform cross-section
05-01-0081	17 竹内慎吾 (芝浦工大システム理工) Shingo Takeuchi (Shibaura Inst. of Tech.)	L^q -Lyapunov inequality for the one-dimensional p -Laplacian 10 L^q -Lyapunov inequality for the one-dimensional p -Laplacian
05-01-0002	18 柴田徹太郎 (広島大工) Tetsutaro Shibata (Hiroshima Univ.)	Global and local structures of oscillatory bifurcation curves 10 Global and local structures of oscillatory bifurcation curves
05-01-0054	19 長谷川翔一 (東工大理) Shoichi Hasegawa (Tokyo Tech)	Intersection property of solutions to semilinear elliptic equations and its application to a Liouville-type result 10 Intersection property of solutions to semilinear elliptic equations and its application to a Liouville-type result

05-01-0012	20 田中 敏 (岡山理大) 梶木屋龍治 (佐賀理工) I. Sim (蔚山大) Satoshi Tanaka (Okayama Univ. of Sci.) Ryuji Kajikiya (Saga Univ.) Inbo Sim (Univ. of Ulsan)	Symmetry-breaking bifurcation of positive solutions to the Moore–Nehari differential equation 10 Symmetry-breaking bifurcation of positive solutions to the Moore–Nehari differential equation
05-01-0013	21 内藤雄基 (愛媛大理) 宮本安人 (東大数理) Yūki Naito (Ehime Univ.) Yasuhito Miyamoto (Univ. of Tokyo)	Singular extremal solutions for supercritical elliptic equations in a ball 10 Singular extremal solutions for supercritical elliptic equations in a ball
05-01-0003	22 石井裕太 (首都大東京理) 倉田和浩 (首都大東京理) Yuta Ishii (Tokyo Metro. Univ.) Kazuhiro Kurata (Tokyo Metro. Univ.)	空間非一様な係数を持つ Schnakenberg model の対称な 1-ピーク定常解の構成と安定性解析 10 Construction and stability analysis of one-peak symmetric stationary solutions for the Schnackenberg model with heterogeneity

16:30~17:30 特別講演

05-02-0003	三町勝久 (阪大情報) Katsuhsisa Mimachi (Osaka Univ.)	古典超幾何函数とその周辺 Classical hypergeometric functions and related topics
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9月25日(火)

9:15~12:00

05-01-0017	23 P. van Meurs (金沢大國際基幹教育院) Patrick van Meurs (Kanazawa Univ.)	Evolutionary convergence of positive and negative dislocations in 2D 10 Evolutionary convergence of positive and negative dislocations in 2D
05-01-0026	24 館山翔太 (東北大理) 小池茂昭 (東北大理) Shota Tateyama (Tohoku Univ.) Shigeaki Koike (Tohoku Univ.)	On L^p -viscosity solutions of bilateral obstacle problems with unbounded ingredients 10 On L^p -viscosity solutions of bilateral obstacle problems with unbounded ingredients
05-01-0055	25 井上順平 (電通大) 久藤衡介 (電通大) Jumpei Inoue (Univ. of Electro-Comm.) Kousuke Kuto (Univ. of Electro-Comm.)	定常ロジスティック方程式における最適棲息分布 10 Optimal distribution of a species in the stationary logistic equation
05-01-0052	26 久藤衡介 (電通大情報理工) Yaping Wu (首都師範大) Kousuke Kuto (Univ. of Electro-Comm.) Yaping Wu (Capital Normal Univ.)	Bifurcation from infinity in a shadow system for the Shigesada–Kawasaki–Teramoto model 10 Bifurcation from infinity in a shadow system for the Shigesada–Kawasaki–Teramoto model
05-01-0016	27 松澤寛 (沼津工高専) 兼子裕大 (早大理工) Hiroshi Matsuzawa (Numazu Nat. Coll. of Tech.) Yuki Kaneko (Waseda Univ.)	Spreading and vanishing in a free boundary problem for nonlinear diffusion equations with a given forced moving boundary 10 Spreading and vanishing in a free boundary problem for nonlinear diffusion equations with a given forced moving boundary

05-01-0066		
28 兼子 裕大 (早大理工) 山田 義雄 (早大理工)	反応拡散方程式の自由境界問題における spreading 解の漸近形状と漸近速度	10
<u>Yuki Kaneko</u> (Waseda Univ.) <u>Yoshio Yamada</u> (Waseda Univ.)	Asymptotic profiles and speeds on spreading solutions to a free boundary problem for a reaction-diffusion equation	
05-01-0014		
29 國谷 紀良 (神戸大システム情報) Jinliang Wang (黒竜江大)	非局所的な拡散を伴う SIR 感染症モデルの漸近挙動	10
<u>Toshikazu Kuniya</u> (Kobe Univ.) <u>Jinliang Wang</u> (Heilongjiang Univ.)	Asymptotic behavior of an SIR epidemic model with nonlocal diffusion	
05-01-0029		
30 大西 勇 (広島大理) Isamu Ohnishi (Hiroshima Univ.)	リーゼンガング現象の一次元ケラールビノウモデルに対する数理解析	10
	A mathematical study of the one-dimensional Keller and Rubinow model for Liesegang bands	
05-01-0030		
31 大西 勇 (広島大理) Isamu Ohnishi (Hiroshima Univ.)	On mathematical standard structure of a binary digit of memory in a cell and its application to biological or life science phenomena	10
	On mathematical standard structure of a binary digit of memory in a cell and its application to biological or life science phenomena	
05-01-0038		
32 下條 昌彦 (岡山理大理) 郭 忠勝 (淡江大) A. Ducrot (Univ. de Bordeaux)	特異性をもつ被食-捕食型シャドーシステム	10
<u>Masahiko Shimojyou</u> (Okayama Univ. of Sci.) Jong Shenq Guo (Tamkang Univ.) Arnaud Ducrot (Univ. de Bordeaux)	Shadow system of a singular prey-predator system	
05-01-0039		
33 下條 昌彦 (岡山理大理) 郭 忠勝 (淡江大) Masahiko Shimojyou (Okayama Univ. of Sci.) Jong Shenq Guo (Tamkang Univ.)	特異性被食-捕食モデルの時間大域解の漸近挙動	10
	Asymptotic behavior of global solutions to a singular prey-predator model	
05-01-0050		
34 谷口 雅治 (岡山大自然) Masaharu Taniguchi (Okayama Univ.)	Axially non-symmetric traveling fronts in balanced bistable reaction-diffusion equations	10
	Axially non-symmetric traveling fronts in balanced bistable reaction-diffusion equations	
13:15~14:15 特別講演		
05-02-0001		
川上 竜樹 (龍谷大理工) Tatsuki Kawakami (Ryukoku Univ.)	動的境界条件付き半線形橙円型方程式	
	A semilinear elliptic equation with a dynamical boundary condition	

9月26日(水)

9:15~12:00

05-01-0044		
35 梶原 直人 (東大数理) Naoto Kajiwara (Univ. of Tokyo)	力学的境界条件を持つ Cahn–Hilliard 方程式の大域可解性	10
	Global solvability of the Cahn–Hilliard equations with dynamic boundary conditions	

05-01-0024		
36 尾上文彦 (東大数理) 儀我美一 (東大数理) 高棹圭介 (京大理) Fumihiko Onoue (Univ. of Tokyo) Yoshikazu Giga (Univ. of Tokyo) Keisuke Takasao (Kyoto Univ.)	A varifold formulation of mean curvature flow with Dirichlet or dynamic boundary conditions	10
	A varifold formulation of mean curvature flow with Dirichlet or dynamic boundary conditions	
05-01-0015		
37 中村恒平 (埼玉大理工) 長澤壯之 (埼玉大理工) Kohei Nakamura (Saitama Univ.) Takeyuki Nagasawa (Saitama Univ.)	平面閉曲線に対する等周比を用いた補間不等式とその非局所曲率流への応用	10
	Interpolation inequalities between the deviation of curvature and the isoperimetric ratio with applications to geometric flows	
05-01-0022		
38 猪奥倫左 (愛媛大理) ^b 小川卓克 (東北大理) Norisuke Ioku (Ehime Univ.) Takayoshi Ogawa (Tohoku Univ.)	Critical dissipative estimate for a heat semigroup with the inverse square potential	10
	Critical dissipative estimate for a heat semigroup with the inverse square potential	
05-01-0073		
39 向井晨人 (東大数理) Asato Mukai (Univ. of Tokyo)	Large time behavior of solutions of the heat equation with inverse square potential	10
	Large time behavior of solutions of the heat equation with inverse square potential	
05-01-0051		
40 比佐幸太郎 (東北大理) 石毛和弘 (東大数理) Kotaro Hisa (Tohoku Univ.) Kazuhiro Ishige (Univ. of Tokyo)	Existence of solutions for a fractional semilinear parabolic equation with singular initial data	10
	Existence of solutions for a fractional semilinear parabolic equation with singular initial data	
05-01-0069		
41 関行宏 (九大数理) Yukihiro Seki (Kyushu Univ.)	On type II blow-up mechanisms in a semilinear heat equation with supercritical nonlinearity	10
	On type II blow-up mechanisms in a semilinear heat equation with supercritical nonlinearity	
05-01-0027		
42 山本征法 (新潟大自然) 杉山裕介 (滋賀県大工) Masakazu Yamamoto (Niigata Univ.) Yuusuke Sugiyama (Univ. of Shiga Pref.)	準地衡近似方程式の解の空間遠方での減衰について	10
	Spatial decay of solutions to the quasi-geostrophic equation	
05-01-0001		
43 T. Black (Univ. Paderborn) J. Lankeit (Univ. Paderborn) 水上雅昭 (東京理大理) Tobias Black (Univ. Paderborn) Johannes Lankeit (Univ. Paderborn) Masaaki Mizukami (Tokyo Univ. of Sci.)	Global generalized solutions of a Keller–Segel–Stokes system with singular sensitivity	10
	Global generalized solutions of a Keller–Segel–Stokes system with singular sensitivity	
05-01-0056		
44 少林文孝 (早大理工) Fumitaka Wakabayashi (Waseda Univ.)	The Keller–Segel system of parabolic-parabolic type in Morrey space	10
	The Keller–Segel system of parabolic-parabolic type in Morrey space	

05-01-0061	45 岡田 晃 (京大人間環境)	齊次 Besov 空間に初期値をとる drift-diffusion 方程式の解の解析性について	10
	Akira Okada (Kyoto Univ.)	Spatial analyticity of solutions to the drift-diffusion equation with initial data in homogeneous Besov space	
05-01-0074	46 和久井洋司 (東北大理)	質量優臨界指数における退化移流拡散方程式の解の非有界性	10
	Hiroshi Wakui (Tohoku Univ.)	Unboundedness for solutions to a degenerate drift-diffusion equation with the mass supercritical exponent	
05-01-0047	47 吉田 夏海 (立命館大OIC総合研究機構)	Global asymptotic stability of rarefaction waves to the Cauchy problem for the generalized Korteweg-de Vries-Burgers-Kuramoto equation ..	10
	Natsumi Yoshida (Ritsumeikan Univ.)	Global asymptotic stability of rarefaction waves to the Cauchy problem for the generalized Korteweg-de Vries-Burgers-Kuramoto equation	
05-01-0048	48 吉田 夏海 (立命館大OIC総合研究機構)	Decay structure of solutions toward rarefaction waves to the Cauchy problem for the scalar conservation law with nonlinear viscosity	10
	Natsumi Yoshida (Ritsumeikan Univ.)	Decay structure of solutions toward rarefaction waves to the Cauchy problem for the scalar conservation law with nonlinear viscosity	
14:15～16:15			
05-01-0075	49 廣澤史彦 (山口大理)	On the energy estimate for Klein-Gordon type equations with time dependent singular mass	10
	Fumihiro Hirosawa (Yamaguchi Univ.)	On the energy estimate for Klein-Gordon type equations with time dependent singular mass	
05-01-0011	50 道久 寛載 (広島大理)	強摩擦項をもつ波動方程式の発展作用素の展開に関して	10
	Hironori Michihisa (Hiroshima Univ.)	Expanding methods for evolution operators of strongly damped wave equations	
05-01-0078	51 高村博之 (東北大理)* 賴宇安 (麗水学院) Hiroyuki Takamura (Tohoku Univ.) Ning-An Lai (Lishui Univ.)	強い時間減衰を伴う消散項付き非線形波動方程式に対する解の波動的な爆発と lifespan 評価	10
		Wave-like blow-up and lifespan estimate for solutions of nonlinear wave equations with strong time-decaying damping	
05-01-0063	52 側島基宏 (東京理工) 池田正弘 (理化学研・慶大理工) Motohiro Sobajima (Tokyo Univ. of Sci.) Masahiro Ikeda (RIKEN/Keio Univ.)	On a test function method for blowup of solutions to semilinear damped wave equations	10
		On a test function method for blowup of solutions to semilinear damped wave equations	
05-01-0064	53 側島基宏 (東京理工)	Sharp lifespan estimates for solutions to two-dimensional semilinear heat equation in exterior domains	10
	Motohiro Sobajima (Tokyo Univ. of Sci.)	Sharp lifespan estimates for solutions to two-dimensional semilinear heat equation in exterior domains	
05-01-0083	54 佐々木多希子 (明大理工)	The blow-up curve for semilinear wave equations with small spatial velocity	10
	Takiko Sasaki (Meiji Univ.)	The blow-up curve for semilinear wave equations with small spatial velocity	
05-01-0019	55 水谷治哉 (阪大理)	Strichartz estimates for Schrödinger equations with slowly decaying potentials	10
	Haruya Mizutani (Osaka Univ.)	Strichartz estimates for Schrödinger equations with slowly decaying potentials	

05-01-0053	56 深谷法良 (東京理大) 太田雅人 (東京理大)	Strong instability of standing waves for nonlinear Schrödinger equations with attractive inverse power potential 10
	Noriyoshi Fukaya (Tokyo Univ. of Sci.) Masahito Ohta (Tokyo Univ. of Sci.)	Strong instability of standing waves for nonlinear Schrödinger equations with attractive inverse power potential
05-01-0021	57 平山浩之 (宮崎大テニュアトラック推進機構) 池田正弘 (理化学研AIP・慶大理工)	非線形4階シュレディンガー方程式の適切性について 10
	Hiroyuki Hirayama (Univ. of Miyazaki) Masahiro Ikeda (RIKEN/Keio Univ.)	Well-posedness for the nonlinear fourth order Schrödinger equations

16:30~17:30 特別講演

05-02-0002	58 ベズニール (埼玉大理工) Neal Bez (Saitama Univ.)	Geometric estimates arising in the analysis of Zakharov systems
		Geometric estimates arising in the analysis of Zakharov systems

9月27日(木)

9:15~12:00

05-01-0057	58 浜野大 (埼玉大理工) Masaru Hamano (Saitama Univ.)	空間5次元における2次の非線形項をもつシュレディンガー方程式系の解の時間大域挙動について 10
		Long time behavior of the solutions for the Schrödinger system with quadratic nonlinear terms in 5d
05-01-0058	59 田中智之 (名大多元数理) Tomoyuki Tanaka (Nagoya Univ.)	3次Benjamin-Ono方程式の時間局所適切性について 10
		On the local well-posedness of the third order Benjamin-Ono equation
05-01-0062	60 岡本葵 (信州大工) Mamoru Okamoto (Shinshu Univ.)	Asymptotic behavior of solutions to a higher-order KdV-type equation with critical nonlinearity 10
		Asymptotic behavior of solutions to a higher-order KdV-type equation with critical nonlinearity
05-01-0070	61 F. Linares (IMPA) 宮崎隼人 (津山工高専) G. Ponce (UCSB) Felipe Linares (IMPA) Hayato Miyazaki (Tsuyama Nat. Coll. of Tech.) Gustavo Ponce (UCSB)	低次のべきの非線形項を持つ一般化KdV方程式の初期値問題について 10
		The initial value problem for the generalized KdV equation with low degree of nonlinearity
05-01-0059	62 山崎陽平 (広島大理工) Yohei Yamazaki (Hiroshima Univ.)	Zakharov-Kuznetsov方程式の線状進行波の周りの中心安定多様体について 10
		Center stable manifolds around line solitary waves of Zakharov-Kuznetsov equation
05-01-0036	63 木下真也 (名大多元数理) 平山浩之 (宮崎大テニュアトラック推進機構) Shinya Kinoshita (Nagoya Univ.) Hiroyuki Hirayama (Univ. of Miyazaki)	非線形シュレディンガー方程式系に対する双線形評価とその適切性への応用 10
		Sharp bilinear estimates and its application to a system of quadratic derivative nonlinear Schrödinger equations

05-01-0042		
64 上田好寛 (神戸大海事)	Dissipative structures for thermoelastic plate equations with Cattneo's law	10
R. Racke (Univ. Konstanz)		
<u>Yoshihiro Ueda</u> (Kobe Univ.)		
Reinhard Racke (Univ. Konstanz)		
05-01-0041		
65 上田好寛 (神戸大海事)	Optimal decay estimates of a regularity-loss type system with constraint condition	10
<u>Yoshihiro Ueda</u> (Kobe Univ.)		
05-01-0040		
66 上田好寛 (神戸大海事)	New structural condition on decay property for symmetric hyperbolic systems with relaxation	10
Renjun Duan (香港中文大)		
川島秀一 (早大理工)		
<u>Yoshihiro Ueda</u> (Kobe Univ.)		
Renjun Duan		
(Chinese Univ. of Hong Kong)		
Shuichi Kawashima (Waseda Univ.)		
05-01-0043		
67 上田好寛 (神戸大海事)	New stability criterion for the dissipative linear system	10
<u>Yoshihiro Ueda</u> (Kobe Univ.)		
05-01-0077		
68 古川賢 (東大数理)	Primitive 方程式における静水圧近似の正当化	10
儀我美一 (東大数理)		
A. Hussein (TU Darmstadt)		
M. Hieber (TU Darmstadt)		
柏原崇人 (東大数理)		
M. Wrona (TU Darmstadt)		
<u>Ken Furukawa</u> (Univ. of Tokyo)		
Yoshikazu Giga (Univ. of Tokyo)		
Amru Hussein (TU Darmstadt)		
Matthias Hieber (TU Darmstadt)		
Takahito Kashiwabara (Univ. of Tokyo)		
Marc Wrona (TU Darmstadt)		
05-01-0009		
69 古場一 (阪大基礎工)	境界を持つ時間発展する曲面上における熱の伝わりや濃度拡散の数理モデリング	10
Hajime Koba (Osaka Univ.)		
05-01-0010		
70 古場一 (阪大基礎工)	Mathematical modeling of diffusion and heat systems on an evolving surface with boundaries	10
Hajime Koba (Osaka Univ.)		
05-01-0007		
71 佐藤一輝 (阪大基礎工)	境界を持つ時間発展する曲面上における圧縮性流体の流れの数理モデリング	10
古場一 (阪大基礎工)		
Kazuki Sato (Osaka Univ.)		
Hajime Koba (Osaka Univ.)		
14:15~16:15		
05-01-0046		
72 中里亮介 (東北大理)	臨界 Besov 空間ににおける密度依存型磁気流体方程式系の解の正則性判定条件について	10
Ryosuke Nakasato (Tohoku Univ.)		
A regularity criterion for the density-dependent magnetohydrodynamics system in critical Besov spaces		

05-01-0004		
73 阿部 健 (阪市大)	軸対称流の零粘性極限	10
Ken Abe (Osaka City Univ.)	Vanishing viscosity of axisymmetric flows	
05-01-0005		
74 金丸 謙 (早大理工)	Brezis–Gallouet–Wainger 型不等式と Navier–Stokes 方程式の時間局所的 強解のアприオリ評価	10
Ryo Kanamaru (Waseda Univ.)	Brezis–Gallouet–Wainger type inequalities and a priori estimates of time local strong solutions to Navier–Stokes equations	
05-01-0031		
75 檜垣充朗 (京大理) 前川泰則 (京大理) I. Gallagher (École Norm. Sup.)	On stationary two-dimensional flows around a fast rotating disk	10
Mitsuo Higaki (Kyoto Univ.) Yasunori Maekawa (Kyoto Univ.) Isabelle Gallagher (École Norm. Sup.)	On stationary two-dimensional flows around a fast rotating disk	
05-01-0033		
76 鶴見裕之 (早大理工)	Ill-posedness of the stationary Navier–Stokes equations in scaling invariant homogeneous Besov spaces	10
Hiroyuki Tsurumi (Waseda Univ.)	Ill-posedness of the stationary Navier–Stokes equations in scaling invariant homogeneous Besov spaces	
05-01-0082		
77 神保秀一 (北大理) 牛越恵理佳 (横浜国大環境情報)	フリクション付きスリップ境界条件を課したストークス方程式の多密度 のある固有値に対するアダマール変分公式について	10
Shuichi Jimbo (Hokkaido Univ.) Erika Ushikoshi (Yokohama Nat. Univ.)	Hadamard variational formula for the multiple eigenvalue of the Stokes equations with friction slip boundary conditions	
05-01-0071		
78 斎藤平和 (東京理大基礎工)	Local solvability of the Navier–Stokes–Korteweg equations in the max- imal regularity class	10
Hirokazu Saito (Tokyo Univ. of Sci.)	Local solvability of the Navier–Stokes–Korteweg equations in the max- imal regularity class	
05-01-0079		
79 柴田良弘 (早大理工) 村田美帆 (神奈川大工)	Navier–Stokes–Korteweg 方程式の全空間における時間大域的適切性につ いて	10
Yoshihiro Shibata (Waseda Univ.) Miho Murata (Kanagawa Univ.)	Global well-posedness for the Navier–Stokes–Korteweg system in \mathbb{R}^N	
05-01-0049		
80 高田了 (九大数理)	Strongly stratified limit for the 3D inviscid Boussinesq equations	10
Ryo Takada (Kyushu Univ.)	Strongly stratified limit for the 3D inviscid Boussinesq equations	
16:30~17:30 特別講演		
05-02-0004		
福泉麗佳 (東北大情報)	Bose–Einstein 凝縮モデルにおける温度効果	
Reika Fukuizumi (Tohoku Univ.)	Temperature effects in Bose–Einstein condensation	

実　函　數　論

9月26日(水)

9:00~12:00		
06-01-0002	1 伊東由文 (徳島大*) Yoshifumi Ito (Tokushima Univ.*)	測度と積分の公理的方法 (III). ルベーグ測度の定義と存在定理 15 Axiomatic method of measure and integration (III). Definition and existence theorem of the Lebesgue measure
06-01-0003	2 伊東由文 (徳島大*) Yoshifumi Ito (Tokushima Univ.*)	測度と積分の公理的方法 (IV). ルベーグ積分の定義とその基本性質 15 Axiomatic method of measure and integration (IV). Definition of the Lebesgue integral and its fundamental properties
06-01-0022	3 山崎洋平 Yōhei Yamasaki	C^0 級での無向の広さと無向積分 15 Non-oriented volume and non-oriented integral in the C^0 class
06-01-0023	4 山崎洋平 Yōhei Yamasaki	Minkowski content, 直積原理をみたす低次元の広さ 15 Minkowski content, the volume that admits the cartesian product property
06-01-0031	5 福田亮治 (大分大理工) 本田あおい (九大情報工) 岡崎悦明 (ファジィシステム研) Ryoji Fukuda (Oita Univ.) Aoi Honda (Kyushu Inst. of Tech.) Yoshiaki Okazaki (Fuzzy Logic Systems Inst.)	Pan 積分, Lehrer 積分の収束定理 15 Convergence theorems for Pan and Lehrer integrals
06-01-0036	6 福田亮治 (大分大理工) 本田あおい (九大情報工) 岡崎悦明 (ファジィシステム研) Ryoji Fukuda (Oita Univ.) Aoi Honda (Kyushu Inst. of Tech.) Yoshiaki Okazaki (Fuzzy Logic Systems Inst.)	代数積包除積分の収束定理 15 Convergence theorem of algebraic product inclusion-exclusion integral
06-01-0020	7 鈴木智成 (九大理工) Tomonari Suzuki (Kyushu Inst. of Tech.)	距離空間上の写像に関する縮小条件 15 Contractive conditions on mappings on metric spaces
06-01-0013	8 木村泰紀 (東邦大理) Yasunori Kimura (Toho Univ.)	測地距離空間における均衡問題とリゾルベント 15 Equilibrium problems on geodesic spaces and their resolvents
06-01-0024	9 笠原健吾 (東邦大理) 木村泰紀 (東邦大理) Kengo Kasahara (Toho Univ.) Yasunori Kimura (Toho Univ.)	完備 CAT(1) 空間上の 2つのリゾルベント作用素による Mann 型近似列 15 Mann type iterative sequence for two resolvents in a complete CAT(1) space
06-01-0029	10 渡辺俊一 (東京情報大総合情報 Toshikazu Watanabe (Tokyo Univ. of Information Sci.)	Boundary value problems involving a fractional differential equation 15 Boundary value problems involving a fractional differential equation

06-01-0035	11 厚芝 幸子 (山梨大教育)	Attractive point, fixed point and convergence theorems for generalized hybrid-type mappings	15
	Sachiko Atsushiba (Univ. of Yamanashi)	Attractive point, fixed point and convergence theorems for generalized hybrid-type mappings	
14:15~16:30			
06-01-0017	12 斎藤 耕太 (名大多元数理)	漸近的に任意の方向に等差数列を含むがフラクタル次元が 1 である集合の構成	10
	Kota Saito (Nagoya Univ.)	Construction of a one-dimensional set which asymptotically and omnidirectionally contains arithmetic progressions	
06-01-0005	13 飯田 毅士 (福島工高専) 澤野 嘉宏 (首都大東京理)	Orlicz-fractional maximal operators on weighted L^p spaces	15
	Takeshi Iida (Fukushima Nat. Coll. of Tech.) Yoshihiro Sawano (Tokyo Metro. Univ.)	Orlicz-fractional maximal operators on weighted L^p spaces	
06-01-0006	14 石明磊 (茨城大理工) 新井龍太郎 (茨城大理工) 中井英一 (茨城大理)	Campanato spaces and commutators of generalized fractional integral operators on Orlicz spaces	15
	Minglei Shi (Ibaraki Univ.) Ryutaro Arai (Ibaraki Univ.) Eiichi Nakai (Ibaraki Univ.)	Campanato spaces and commutators of generalized fractional integral operators on Orlicz spaces	
06-01-0009	15 川澄亮太	Pointwise multipliers on weak Orlicz spaces	15
	中井英一 (茨城大理) Ryota Kawasumi Eiichi Nakai (Ibaraki Univ.)	Pointwise multipliers on weak Orlicz spaces	
06-01-0010	16 新井龍太郎 (茨城大理工) 中井英一 (茨城大理) 貞末岳 (大阪教育大)	Fractional integrals on martingale Orlicz spaces	15
	Ryutaro Arai (Ibaraki Univ.) Eiichi Nakai (Ibaraki Univ.) Gaku Sadasue (Osaka Kyoiku Univ.)	Fractional integrals on martingale Orlicz spaces	
06-01-0018	17 鶴見裕之 (早大理工)	Counter examples of the bilinear estimates of the Hölder type inequality in homogeneous Besov spaces	10
	Hiroyuki Tsurumi (Waseda Univ.)	Counter examples of the bilinear estimates of the Hölder type inequality in homogeneous Besov spaces	
06-01-0011	18 笠原雪夫 (北大理) N. H. Bingham	Matricial Baxter's theorem with a Nehari sequence	10
	(Imperial Coll. London) Yukio Kasahara (Hokkaido Univ.) Nicholas H. Bingham (Imperial Coll. London)	Matricial Baxter's theorem with a Nehari sequence	

06-01-0025 19 齋藤洋樹 (日大理工) 田中仁 (筑波技術大) 渡辺俊一 (東京情報大総合情報) Hiroki Saito (Nihon Univ.) Hitoshi Tanaka (Tsukuba Univ. of Tech.) Toshikazu Watanabe (Tokyo Univ. of Information Sci.)	Composition of maximal operators with weighted Hausdorff content ··· 15
06-01-0032 20 筒井容平 (信州大理) Youhei Tsutsui (Shinshu Univ.)	Composition of maximal operators with weighted Hausdorff content ··· 15

16:45~17:45 特別講演

06-02-0002 河邊淳 (信州大工) Jun Kawabe (Shinshu Univ.)	A unified approach to convergence theorems of distribution-based nonlinear integrals ··· 15
	A unified approach to convergence theorems of distribution-based nonlinear integrals ··· 15

9月27日(木)

9:15~12:00

06-01-0001 21 水上雅昭 (東京理大理) 大塚裕彦 (東京理大理) 横田智巳 (東京理大理) Masaaki Mizukami (Tokyo Univ. of Sci.) Hiroyuki Otsuka (Tokyo Univ. of Sci.) Tomomi Yokota (Tokyo Univ. of Sci.)	Boundedness in a chemotaxis-haptotaxis system with signal-dependent sensitivity ··· 15
	Boundedness in a chemotaxis-haptotaxis system with signal-dependent sensitivity ··· 15
06-01-0004 22 来間俊介 (東京理大理) Shunsuke Kurima (Tokyo Univ. of Sci.)	非有界領域における非局所項をもつ Cahn–Hilliard 方程式について ··· 15
	A nonlocal Cahn–Hilliard equation on an unbounded domain ··· 15
06-01-0021 23 香川渓一郎 (早大理工) 大谷光春 (早大理工) Keiichiro Kagawa (Waseda Univ.) Mitsuharu Ôtani (Waseda Univ.)	Initial boundary value problem of the viscous Cahn–Hilliard equation ··· 15
	Initial boundary value problem of the viscous Cahn–Hilliard equation ··· 15
06-01-0026 24 喜多航佑 (早大理工) 大谷光春 (早大理工) Kosuke Kita (Waseda Univ.) Mitsuharu Ôtani (Waseda Univ.)	Bounds for global solutions of a reaction diffusion system ··· 15
	Bounds for global solutions of a reaction diffusion system ··· 15
06-01-0034 25 黒田隆徳 (早大理工) 大谷光春 (早大理工) Takanori Kuroda (Waseda Univ.) Mitsuharu Ôtani (Waseda Univ.)	Periodic solutions for complex Ginzburg–Landau equations in bounded domains ··· 15
	Periodic solutions for complex Ginzburg–Landau equations in bounded domains ··· 15

06-01-0014	26 高橋 美羽 (日本女大理) 愛木 豊彦 (日本女大理) M. Anthonissen (Eindhoven Univ. of Tech.) Miu Takahashi (Japan Women's Univ.) Toyohiko Aiki (Japan Women's Univ.) Martijn Anthonissen (Eindhoven Univ. of Tech.)	ソレー効果に関連する実験を記述する初期値境界値問題の数値解法について 15 Numerical method for initial boundary value problem describing a real experiment related to Soret effect.
06-01-0015	27 中屋 敷亮太 (千葉大) Ryota Nakayashiki (Chiba Univ.)	力学的境界条件を含む結晶粒界モデルの漸近挙動 15 Large-time behavior of the solutions to the system of grain boundary motion including dynamic boundary condition
06-01-0033	28 佐々木 善雅 (新潟大) 應和宏樹 (新潟大) Yoshimasa Sasaki (Niigata Univ.) Hiroki Ohwa (Niigata Univ.)	不連続な流束をもつ保存則方程式の一意可解性について 15 On the existence and uniqueness of solutions to scalar conservation laws with discontinuous flux functions
06-01-0027	29 渡邊 紘 (大分大) Hiroshi Watanabe (Oita Univ.)	非等方的拡散項を持つ非局所的放物型・双曲型保存則系の適切性 15 Well-posedness for nonlocal parabolic-hyperbolic conservation laws with anisotropic diffusion terms
06-01-0030	30 岩渕 司 (東北大) Tsukasa Iwabuchi (Tohoku Univ.)	The semigroup generated by the Dirichlet Laplacian of fractional order 15 The semigroup generated by the Dirichlet Laplacian of fractional order
14:15~16:00		
06-01-0037	31 都築 寛 (広島修道大) Yutaka Tsuzuki (Hiroshima Shudo Univ.)	Initial-boundary value problems for Vlasov-Poisson equations with angle error in a half-space 15 Initial-boundary value problems for Vlasov-Poisson equations with angle error in a half-space
06-01-0019	32 加納理成 (高知大) Risei Kano (Kochi Univ.)	非線形硬化現象を記述する1次元モデルの可解性について 15 The existence of solutions for the non-linear hardening models
06-01-0028	33 熊崎耕太 (長崎大) A. Muntean (Karlstad Univ.) Kota Kumazaki (Nagasaki Univ.) Adrian Muntean (Karlstad Univ.)	水分膨張を記述するある自由境界問題の時間大域解の存在について 15 Existence of a global solution for a moving boundary problem describing swelling
06-01-0016	34 白川 健 (千葉大) 山崎教昭 (神奈川大工) H. Antil (George Mason Univ.) Ken Shirakawa (Chiba Univ.) Noriaki Yamazaki (Kanagawa Univ.) Harbir Antil (George Mason Univ.)	A class of optimal control problems for one-dimensional Kobayashi-Warren-Carter type systems 15 A class of optimal control problems for one-dimensional Kobayashi-Warren-Carter type systems
06-01-0007	35 山崎教昭 (神奈川大工) 剣持信幸 (Univ. of Warsaw) 白川 健 (千葉大) Noriaki Yamazaki (Kanagawa Univ.) Nobuyuki Kenmochi (Univ. of Warsaw) Ken Shirakawa (Chiba Univ.)	Double quasi-variational evolution equations governed by time-dependent subdifferentials 15 Double quasi-variational evolution equations governed by time-dependent subdifferentials

06-01-0008
36 伊藤昭夫

Akio Ito

Evolution inclusion on a real Hilbert space with quasi-variational structure for inner product —Existence of global-in-time solutions— ····· 15

Evolution inclusion on a real Hilbert space with quasi-variational structure for inner product —Existence of global-in-time solutions—

16:15~17:15 特別講演

06-02-0001
鈴木敏行(神奈川大工)

Toshiyuki Suzuki (Kanagawa Univ.)

Semilinear Schrödinger evolution equations with inverse-square potentials

Semilinear Schrödinger evolution equations with inverse-square potentials

函 数 解 析 学

9月24日(月)

10:30~12:00

07-01-0032

1 井 上 寛 (第一薬大)

Hiroshi Inoue (Daiichi Univ. of Pharm.)

07-01-0033

2 井 上 寛 (第一薬大)

Hiroshi Inoue (Daiichi Univ. of Pharm.)

07-01-0009

3 神 澤 健 雄 (東京理大理工)

Takeo Kamizawa (Tokyo Univ. of Sci.)

07-01-0003

4 渡 辺 秀 司 (群馬大理工)*

Shuji Watanabe (Gunma Univ.)

07-01-0018

5 和 田 和 幸 (八戸工高専)

Kazuyuki Wada
(Nat. Inst. of Tech., Hachinohe Coll.)

07-01-0001

6 森 岡 悠 (同志社大理工)

瀬 川 悅 生 (東北大情報)

Hisashi Morioka (Doshisha Univ.)

Etsuo Segawa (Tohoku Univ.)

14:15~16:15

07-01-0028

7 中 村 周 (東大数理)

平 良 晃 一 (東大数理)

Shu Nakamura (Univ. of Tokyo)

Kouichi Taira (Univ. of Tokyo)

07-01-0029

8 只 野 之 英 (東大数理)

Yukihide Tadano (Univ. of Tokyo)

07-01-0008

9 川 本 昌 紀 (東京理大理工)

Masaki Kawamoto (Tokyo Univ. of Sci.)

07-01-0037

10 渡 部 拓 也 (立命館大理工)

藤 家 雪 朗 (立命館大理工)

A. Martinez (Univ. Bolongna)

Takuya Watanabe (Ritsumeikan Univ.)

Setsuro Fujié (Ritsumeikan Univ.)

André Martinez (Univ. Bolongna)

一般化リース系に基づく非自己共役ハミルトニアンの研究 (1)	10
Non-self-adjoint Hamiltonian based on generalized Riesz systems (1)	
一般化リース系に基づく非自己共役ハミルトニアンの研究 (2)	10
Non-self-adjoint Hamiltonians based on generalized Riesz systems (2)	
Criteria for the reducibilities of linear systems	10
Criteria for the reducibilities of linear systems	
超伝導のBCS-Bogoliubov モデルにおける2次相転移とその作用素論的証明	15
The second-order phase transition in the BCS-Bogoliubov model of superconductivity and its operator-theoretical proof	
量子ウォークにおける波動作用素の非存在	15
Absence of wave operators for quantum walks	
Detection of edge defects by embedded eigenvalues of quantum walks	15
Detection of edge defects by embedded eigenvalues of quantum walks	
Essential self-adjointness of pseudodifferential operators on Euclidean spaces	15
Essential self-adjointness of pseudodifferential operators on Euclidean spaces	
Long-range scattering theory for discrete Schrödinger operators on hexagonal lattice	15
Long-range scattering theory for discrete Schrödinger operators on hexagonal lattice	
Klein-Gordon equations with homogeneous time-dependent electric fields	15
Klein-Gordon equations with homogeneous time-dependent electric fields	
エネルギー交差におけるレゾナンスの準古典分布	15
Semiclassical distribution of resonances near an energy-level crossing	

07-01-0026 11 山田修宣 (立命館大理工) 大鍛治隆司 (京大) H. Kalf (Math. Inst. der LMU München) Osanobu Yamada (Ritsumeikan Univ.) Takashi Okaji (Kyoto Univ.) Hubert Kalf (Math. Inst. der LMU München)	A refined trace theorem and its application to uniform resolvent estimates of Dirac operators 15 A refined trace theorem and its application to uniform resolvent estimates of Dirac operators
07-01-0024 12 浅原啓輔 (北海道大) 船川大樹 (北海学園大工) Keisuke Asahara (Hokkaido Univ.) Daiju Funakawa (Hokkai-Gakuen Univ.)	一般化された対相互作用モデルのスペクトル解析 15 Spectral analysis of a generalized pair-interaction model
07-01-0016 13 曽高建 廣島文生 (九大数理) 佐々木格 (信州大) Takeru Hidaka Fumio Hiroshima (Kyushu Univ.) Itaru Sasaki (Shinshu Univ.)	準相対論的パウリ・フィールツ模型の基底状態の存在について 15 On the existence of the ground state for the semi-relativistic Pauli–Fierz model

16:30~17:30 特別講演

07-02-0001 宮尾忠宏 (北海道大) Tadahiro Miyao (Hokkaido Univ.)	磁石と作用素不等式 Magnetism and operator inequalities
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9月25日(火)

9:15~12:00

07-01-0014 14 藤井淳一 (大阪教育大) Junichi Fujii (Osaka Kyoiku Univ.)	Power difference mean の表現関数の PM 性について 15 On PM-property for the representing functions of power difference means
07-01-0017 15瀬尾祐貴 (大阪教育大) Yuki Seo (Osaka Kyoiku Univ.)	負パラメータをもつ量子 Tsallis 相対エントロピー 10 Quantum Tsallis relative entropy of negative order
07-01-0020 16 伊藤公智 (前橋工科大) Masatoshi Ito (Maebashi Inst. of Tech.)	Estimations of the weighted power mean by the Heron mean 10 Estimations of the weighted power mean by the Heron mean
07-01-0021 17 遠山宏明 (前橋工科大) 伊佐浩史 (前橋工科大) 亀井栄三郎 渡邊雅之 (前橋工科大) Hiroaki Tohyama (Maebashi Inst. of Tech.) Hiroshi Isa (Maebashi Inst. of Tech.) Eizaburo Kamei Masayuki Watanabe (Maebashi Inst. of Tech.)	Some relations among the n -th relative operator entropies and the n -th operator divergences II 15 Some relations among the n -th relative operator entropies and the n -th operator divergences II

07-01-0002	18 内山 充 (島根大*・立命館大総合科学技術研究機構) L. G. Brown (Purdue Univ.) <u>Mitsuru Uchiyama</u> (Shimane Univ.* /Ritsumeikan Univ.) Lawrence G. Brown (Purdue Univ.)	Strongly operator convex functions 15
07-01-0034	19 木本一史 (琉球大) Kazufumi Kimoto (Univ. of Ryukyus)	完全グラフの正規化ラプラシアン行列に対するアルファ行列式の極限挙動 15
07-01-0027	20 伊藤 稔 (鹿児島大) Minoru Itoh (Kagoshima Univ.)	Limit behavior of alpha determinants for normalized Laplacian matrices of complete graphs
07-01-0015	21 織田 寛 (拓殖大) Hiroshi Oda (Takushoku Univ.)	高階の Cayley-Hamilton 定理を用いたある不变式環の記述 15
07-01-0030	22 田森宥好 (東大数理) Hiroyoshi Tamori (Univ. of Tokyo)	A description of an invariant theory using the Cayley-Hamilton theorem of higher order
07-01-0025	23 示野信一 (関西学院大理工) Nobukazu Shimeno (Kwansei Gakuin Univ.)	複素簡約 Lie 環上のベクトル値多項式に対する変数分離定理 15
		Separation of variables theorem for vector-valued polynomials on complex reductive Lie algebras
		実単純リ一群の極小表現の構成 15
		Realization of minimal representations of real simple Lie groups
		Dunkl 解析における Hobson の公式とその応用 15
		Hobson's formula in Dunkl analysis and its applications

13:15~14:15 特別講演

07-02-0003	和地輝仁 (北教大鉄路) Akihito Wachi (Hokkaido Univ. of Edu.)	Capelli 恒等式と概均質ベクトル空間の b -関数 Capelli identities and b -functions of prehomogeneous vector spaces
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9月26日(水)

9:30~12:00

07-01-0011	24 松本健吾 (上越教育大)* Kengo Matsumoto (Joetsu Univ. of Edu.)	Flow equivalence of topological Markov shifts and extended Ruelle algebras 15
07-01-0004	25 鈴木悠平 (名大多元数理) Yuhei Suzuki (Nagoya Univ.)	Flow equivalence of topological Markov shifts and extended Ruelle algebras
07-01-0019	26 縄田紀夫 (大阪教育大教育) Norio Nawata (Osaka Kyōiku Univ.)	Eigenvalue set for etale groupoids and constructions of distinguished minimal actions 15
07-01-0006	27 榎本雅俊 綿谷安男 (九大数理) <u>Masatoshi Enomoto</u> Yasuo Watatani (Kyushu Univ.)	Eigenvalue set for etale groupoids and constructions of distinguished minimal actions
		中心列 C^* -環の無限性について 15
		Infiniteness of central sequence C^* -algebras
		* 2つの部分空間の有界同型の不変量 15
		A bounded isomorphic invariant of two subspace systems

07-01-003828 澤田友佑 (名大多元数理) CP_0 -半群の伸張の構成について 15

Yusuke Sawada (Nagoya Univ.)

On the constructions of minimal dilations of CP_0 -semigroups**07-01-0036**

29 森迪也 (東大数理) Isometries between projection lattices of von Neumann algebras 15

Michiya Mori (Univ. of Tokyo)

Isometries between projection lattices of von Neumann algebras

07-01-0022

30 安藤浩志 (千葉大理) Structure of bicentralizer algebras and inclusions of type III factors 15

U. Haagerup

C. Houdayer (Univ. Paris-Sud)

A. Marrakchi (Univ. Paris-Sud)

Hiroshi Ando (Chiba Univ.)

Uffe Haagerup

Cyril Houdayer (Univ. Paris-Sud)

Amine Marrakchi (Univ. Paris-Sud)

Structure of bicentralizer algebras and inclusions of type III factors

07-01-0031

31 戸松玲治 (北大理) On minimal actions of compact groups on full factors 15

Reiji Tomatsu (Hokkaido Univ.)

On minimal actions of compact groups on full factors

14:15~15:00**07-01-0013**

32 宮島静雄 (東京理大理) Characterization of closed balls via metric projections, II 10

齊藤功 (東京理大理)

Shizuo Miyajima (Tokyo Univ. of Sci.)

Isao Saito (Tokyo Univ. of Sci.)

Characterization of closed balls via metric projections, II

07-01-0010

33 羽鳥理 (新潟大自然) A geometric inequality and isometries on the positive cone 15

阿部敏一 (茨城大工)

Osamu Hatori (Niigata Univ.)

Toshikazu Abe (Ibaraki Univ.)

A geometric inequality and isometries on the positive cone

07-01-0023

34 渡辺恵一 (新潟大理) メビウスの演算に関する Cauchy–Bunyakovsky–Schwarz 型の不等式 15

Keiichi Watanabe (Niigata Univ.)

Cauchy–Bunyakovsky–Schwarz type inequalities related to the Möbius addition

15:15~16:15 特別講演**07-02-0002**

三浦毅 (新潟大理)

Takeshi Miura (Niigata Univ.)

関数空間上の全射等距離写像

Surjective isometries on function spaces

統 計 数 学

9月 24日(月)

9:30~12:00	
08-01-0039	1 小山民雄 (立教大理) ^b \mathcal{A} -超幾何分布のパラメータ空間について 15 Tamio Koyama (Rikkyo Univ.)
08-01-0005	2 高橋博樹 (慶大理工) Large Deviation Principle for arithmetic mean of digits in continued fraction expansion 15 Hiroki Takahashi (Keio Univ.)
08-01-0004	3 高橋勇人 (早大教育) Inclusion-exclusion principles on partially ordered sets and the distributions of the number of pattern occurrences in finite samples 15 Hayato Takahashi (Waseda Univ.)
08-01-0036	4 那須笑梨奈 (横浜国大工) 2次元パーコレーションにおける lowest horizontal crossing の幅について 10 竹居正登 (横浜国大工) Erina Nasu (Yokohama Nat. Univ.) Masato Takei (Yokohama Nat. Univ.)
08-01-0037	5 佐久間紀佳 (愛知教育大教育) A modified logarithmic Sobolev inequality for canonical Lévy processes and its applications 10 鈴木良一 (慶大理工) Noriyoshi Sakuma (Aichi Univ. of Edu.) Ryoichi Suzuki (Keio Univ.)
08-01-0028	6 四丸直人 (岡山理大理) Partial sum of irrational rotations: mean 15 高嶋恵三 (岡山理大理) Naoto Shimaru (Okayama Univ. of Sci.) Keizo Takashima (Okayama Univ. of Sci.)
08-01-0029	7 四丸直人 (岡山理大理) Partial sum of irrational rotations: variance 10 高嶋恵三 (岡山理大理) Naoto Shimaru (Okayama Univ. of Sci.) Keizo Takashima (Okayama Univ. of Sci.)
08-01-0023	8 星野淨生 (阪府大理) 正則基底に関して Ogawa 可積分な乱関数の SFC による同定 15 Kyoiki Hoshino (Osaka Pref. Univ.)
08-01-0018	9 村山拓也 (京大理) Chordal Komatu–Loewner equation for a family of continuously growing hulls 15 Takuya Murayama (Kyoto Univ.)
14:15~15:00	
08-01-0010	10 嶽村智子 (奈良女大理) Dirichlet forms corresponding to diffusion processes in a tube and the time changed process 15 Tomoko Takemura (Nara Women's Univ.)

08-01-0015	11 竹内 敦司 (阪市大)	Convergence rates of extreme value distributions via the Stein equations	.....	15
	Atsushi Takeuchi (Osaka City Univ.)	Convergence rates of extreme value distributions via the Stein equations		
08-01-0001	12 濱名 裕治 (熊本大)	Radial Ornstein–Uhlenbeck 過程の到達時刻について	.....	10
	Yuji Hamana (Kumamoto Univ.)	On the first hitting time of the radial Ornstein–Uhlenbeck process		
15:15~16:15 特別講演				
08-02-0001	土田 兼治 (防衛大)	対称マルコフ過程における加法的汎関数の大偏差原理		
	Kaneharu Tsuchida (Nat. Defense Acad. of Japan)	Large deviation principles of additive functionals for symmetric Markov processes		
16:30~17:30 特別講演				
08-02-0003	星野 壮登 (九大数理)	A relation between regularity structures and paracontrolled calculus		
	Masato Hoshino (Kyushu Univ.)	A relation between regularity structures and paracontrolled calculus		

9月25日(火)

9:30~11:30				
08-01-0021	13 千野由喜 (Leiden Univ.)	Random walk in cooling random environment	.....	15
	Yuki Chino (Leiden Univ.)	Random walk in cooling random environment		
08-01-0038	14 森 隆大 (京大数理研)	マルコフ過程の交差測度に対する大偏差原理	.....	15
	Takahiro Mori (Kyoto Univ.)	Large deviations for intersection measures of some Markov processes		
08-01-0040	15 植田 優基 (北大)	Free infinite divisibility for the class of Generalized Power distributions with Free Poisson term	.....	15
	森下順貴 (北大)	Free infinite divisibility for the class of Generalized Power distributions with Free Poisson term		
	Yuki Ueda (Hokkaido Univ.)			
	Junki Morishita (Hokkaido Univ.)			
08-01-0030	16 勝田 敏之 (関西学院大理工)	客の離脱を伴う複数クラス単一サーバー待ち行列の安定性条件	.....	15
	Toshiyuki Katsuda (Kwansei Gakuin Univ.)	Stability condition for a multiclass single-server queue with abandonment		
08-01-0032	17 濱口 雄史 (京大)	無限次元後退確率微分方程式の解の有限次元近似	.....	12
	Yushi Hamaguchi (Kyoto Univ.)	Finite-dimensional approximation of solutions of infinite-dimensional BSDEs		
08-01-0033	18 影山 正幸 (名古屋大芸術工)	MDPs with some risk utility functions	.....	15
	Masayuki Kageyama (Nagoya City Univ.)	MDPs with some risk utility functions		

11:30~12:00 統計数学分科会総会

9月26日(水)

9:40~12:00

08-01-0016

19 澤 正憲 (神戸大システム情報)

吉田和輝 (神戸大システム情報)

佐竹翔平 (神戸大システム情報)

Masanori Sawa (Kobe Univ.)

Kazuki Yoshida (Kobe Univ.)

Shohei Satake (Kobe Univ.)

強さ3の巡回的準直交配列の構成法と機能的MRI実験への応用 15

08-01-0034

20 佐竹翔平 (神戸大システム情報)

吉田和輝 (神戸大システム情報)

澤正憲 (神戸大システム情報)

Shohei Satake (Kobe Univ.)

Kazuki Yoshida (Kobe Univ.)

Masanori Sawa (Kobe Univ.)

強さ3の巡回的準直交配列の構成法と存在性について 15

On constructions and existence of circulant almost orthogonal arrays with strength 3

08-01-0024

21 松原和樹 (中央学院大商)

景山三平

(東京理大理数センター)

Kazuki Matsubara (ChuoGakuin Univ.)

Sanpei Kageyama (Tokyo Univ. of Sci.)

Cyclically near-resolvable splitting-balanced block designs with block size 2×2 15Cyclically near-resolvable splitting-balanced block designs with block size 2×2

08-01-0027

22 地寄頌子 (東京理大理工)

宮本暢子 (東京理大理工)

藤原良叔 (筑波大*)

Shoko Chisaki (Tokyo Univ. of Sci.)

Nobuko Miyamoto (Tokyo Univ. of Sci.)

Ryoji Fuji-Hara (Univ. of Tsukuba*)

Combinatorial designs for dropout in deep learning 15

Combinatorial designs for dropout in deep learning

08-01-0019

23 藤森洸 (早大理工)

Kou Fujimori (Waseda Univ.)

The variable selection by the Dantzig selector for Cox's proportional hazards model 10

The variable selection by the Dantzig selector for Cox's proportional hazards model

08-01-0035

24 中川智之 (東京理大理工)

Tomoyuki Nakagawa
(Tokyo Univ. of Sci.)

ロバストなベイズ推定に対する客観事前分布 15

Objective priors for the robust Bayesian inference

08-01-0006

25 八木文香 (東京理大理工)

瀬尾隆 (東京理大理工)

藤越康祝 (広島大*)

Ayaka Yagi (Tokyo Univ. of Sci.)

Takashi Seo (Tokyo Univ. of Sci.)

Yasunori Fujikoshi (Hiroshima Univ.*)

単調型欠測をもつ成長曲線モデルにおける推定 15

Estimation of parameters in the growth curve model with monotone missing data pattern

08-01-0009

26 佃康司 (東大総合文化)

間野修平 (統計数理研)

Koji Tsukuda (Univ. of Tokyo)

Shuhei Mano (Inst. of Stat. Math.)

Poisson-Dirichlet分布に従う母集団からの標本が保持する情報量について 15

Fisher information of multiple samples from the Poisson-Dirichlet populations

12:15～12:30 2018年度日本数学会解析学賞授賞式

14:15～15:05

08-01-0012	27 若木 宏文 (広島大 理) Hirofumi Wakaki (Hiroshima Univ.) Laplace approximation of the distribution function of the Bartlett–Nanda–Pillai test 15
08-01-0031	28 柿沢 佳秀 (北大経済) 五十嵐 岳 (筑波大システム情報) Yoshihide Kakizawa (Hokkaido Univ.) Gaku Igarashi (Univ. of Tsukuba) Laplace approximation of the distribution function of the Bartlett–Nanda–Pillai test 非対称カーネル密度推定量のバイアス修正の再考察 15 Bias correction of asymmetric kernel density estimators revisited
08-01-0007	29 前園 宜彦 (九大数理) R. R. Fauzi (九大数理) Yoshihiko Maeson (Kyushu Univ.) Rizky Reza Fauzi (Kyushu Univ.) Mean residual life function estimators for nonnegative data by logarithmic transformation 10 Mean residual life function estimators for nonnegative data by logarithmic transformation

15:20～16:20 特別講演

08-02-0002	間野 修平 (統計数理研) Shuhei Mano (Inst. of Stat. Math.) 分割, 超幾何系, Dirichlet過程と統計的推測 Partitions, hypergeometric systems, Dirichlet processes, and their statistical inferences
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16:40～17:40 特別講演

08-02-0004	劉 言 (京大情報) Yan Liu (Kyoto Univ.) 時系列の予測・補間問題と推定問題 From prediction and interpolation problem to parameter estimation problem of time series
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9月27日(木)

9:40～11:30

08-01-0013	30 後藤佑一 (早大理工) 谷口正信 (早大理工) Yuichi Goto (Waseda Univ.) Masanobu Taniguchi (Waseda Univ.) Zero crossings 推定量の漸近理論と頑健性 10 Asymptotic theory and robustness of zero crossings estimator
08-01-0014	31 後藤佑一 (早大理工) 谷口正信 (早大理工) Yuichi Goto (Waseda Univ.) Masanobu Taniguchi (Waseda Univ.) バイナリ時系列に基づく判別解析 10 Discriminant analysis based on binary time series
08-01-0022	32 谷田義行 (早大理工) 谷口正信 (早大理工) Yoshiyuki Tanida (Waseda Univ.) Masanobu Taniguchi (Waseda Univ.) 時系列における経験ベイズ推定量 10 Empirical Bayesian estimators for time series
08-01-0011	33 中山優吾 (筑波大数理物質) Yugo Nakayama (Univ. of Tsukuba) Robust support vector machines for high-dimensional data 15 Robust support vector machines for high-dimensional data

08-01-0026		
34	石井 晶 (東京理大理工) 矢田和善 (筑波大数理物質) 青嶋 誠 (筑波大数理物質)	Strongly spiked eigenvalue モデルにおける高次元相関ベクトルの検定について 15
	Aki Ishii (Tokyo Univ. of Sci.) Kazuyoshi Yata (Univ. of Tsukuba) Makoto Aoshima (Univ. of Tsukuba)	Correlation test for high-dimensional data under the strongly spiked eigenvalue model
08-01-0008		
35	矢田和善 (筑波大数理物質) 青嶋 誠 (筑波大数理物質)	高次元平均ベクトルの一一致推定について 15
	Kazuyoshi Yata (Univ. of Tsukuba) Makoto Aoshima (Univ. of Tsukuba)	Consistency of high-dimensional mean vectors
08-01-0003		
36	柳原宏和 (広島大理工)	High-dimensionality adjusted asymptotically loss efficient GC_p in normal multivariate linear models 15
	Hirokazu Yanagihara (Hiroshima Univ.)	High-dimensionality adjusted asymptotically loss efficient GC_p in normal multivariate linear models
14:15～15:05		
08-01-0020		
37	明石郁哉 (早大理工) Fumiya Akashi (Waseda Univ.)	一般化経験尤度法による球面上分布の回転対称性の検定 15
	GEL method for tests of rotational symmetry on spheres	
08-01-0041		
38	加藤昇吾 (統計数理研) A. Pewsey (Univ. of Extremadura) M. C. Jones (The Open Univ.)	A class of circulas obtained through a Fourier series based approach 15
	Shogo Kato (Inst. of Stat. Math.) Arthur Pewsey (Univ. of Extremadura) M. C. Jones (The Open Univ.)	A class of circulas obtained through a Fourier series based approach
08-01-0025		
39	布能英一郎 (関東学院大経済) Eiichiro Funo (Kanto Gakuin Univ.)	Pooling incomplete samples における Kullback 情報量の分解 10
		Decomposition of the Kullback–Leibler information on pooling incomplete samples

応用数学

9月24日(月)

9:00～12:00

09-01-0005

1 藤村 永

(福岡大情報基盤センター)

白石 修二 (福岡大理)

Sho Fujimura (Fukuoka Univ.)

Shuji SHIRAIKI (Fukuoka Univ.)

09-01-0007

2 田中 康平 (信州大経法)

Kohei Tanaka (Shinshu Univ.)

09-01-0022

3 佐竹 翔平 (神戸大システム情報)

Shohei Satake (Kobe Univ.)

09-01-0035

4 生田 卓也 (神戸学院大法)

宗政昭弘 (東北大情報)

Takuya Ikuta (Kobe Gakuin Univ.)

Akihiro Munemasa (Tohoku Univ.)

09-01-0039

5 須田 庄 (愛知教育大)

G. Greaves (Nanyang Tech. Univ.)

Sho Suda (Aichi Univ. of Edu.)

Gary Greaves (Nanyang Tech. Univ.)

09-01-0032

6 三枝崎剛 (琉球大教育)

大浦 学 (金沢大理工)

Tsuyoshi Miezaki (Univ. of Ryukyus)

Manabu Oura (Kanazawa Univ.)

09-01-0006

7 三枝崎剛 (琉球大教育)

大浦 学 (金沢大理工)

佐久間 雅 (山形大理)

篠原 英裕 (山形大非常勤)

Tsuyoshi Miezaki (Univ. of Ryukyus)

Manabu Oura (Kanazawa Univ.)

Tadashi Sakuma (Yamagata Univ.)

Hidehiro Shinohara (Yamagata Univ.)

09-01-0003

8 善本 潔 (日大理工)

Kiyoshi Yoshimoto (Nihon Univ.)

09-01-0001

9 安藤 清

(国立情報学研・JST ERATO)

Kiyoshi Ando

(Nat. Inst. of Information/JST ERATO)

09-01-0042

10 大野由美子 (横浜国大環境情報)

松本直己 (成蹊大理工)

Yumiko Ohno (Yokohama Nat. Univ.)

Naoki Matsumoto (Seikei Univ.)

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|---|----|
| On the number of perfect matchings of line graphs II | 10 |
| On the number of perfect matchings of line graphs II | |
| Topological and combinatorial methods in motion planning problem | 15 |
| Topological and combinatorial methods in motion planning problem | |
| On quadratic residues and circulant almost orthogonal arrays | 15 |
| On quadratic residues and circulant almost orthogonal arrays | |
| Butson-type complex Hadamard matrices and association schemes on Galois rings of characteristic 4 | 10 |
| Butson-type complex Hadamard matrices and association schemes on Galois rings of characteristic 4 | |
| The maximum number of diamonds in tournaments | 10 |
| The maximum number of diamonds in tournaments | |
| 完全巡回指数の導入 | 10 |
| On the complete cycle index | |
| タット多項式の高種数化 | 10 |
| On the Tutte polynomials in genus g | |
| Structures of edge-colored complete bipartite graphs | 15 |
| Structures of edge-colored complete bipartite graphs | |
| A local condition for k -contractible edges | 15 |
| A local condition for k -contractible edges | |
| 球面上の偶三角形分割の facial achromatic number | 15 |
| Facial achromatic number of even triangulations on the sphere | |

09-01-0045		
11 小 関 健 太 (横浜国大環境情報) C. Zamfirescu (Ghent Univ.) Kenta Ozeki (Yokohama Nat. Univ.) Carol Zamfirescu (Ghent Univ.)	4-連結グラフの交差数とハミルトン性 15 Hamiltonicity of 4-connected graphs with few crossing number	
09-01-0029		
12 盧 眇 南 (東京理大理工) Xiao-Nan Lu (Tokyo Univ. of Sci.)	On separably existentially closed graphs 15 On separably existentially closed graphs	
14:20~16:30		
09-01-0015		
13 吉 江 佑 介 (東北大情報) 樋 口 雄 介 (昭和大教養) 瀬 川 悅 生 (東北大情報) Mohamed Fuard Mohamed Sabri (東北大情報) <u>Yusuke Yoshie</u> (Tohoku Univ.) <u>Yusuke Higuchi</u> (Showa Univ.) <u>Etsuo Segawa</u> (Tohoku Univ.) Mohamed Fuard Mohamed Sabri (Tohoku Univ.)	距離正則グラフ上量子ウォークの定常状態 15 Stationary state of quantum walks on distance-regular graphs	
09-01-0021		
14 斎 藤 正 顕 (名古屋文理大基礎教育センター) Seiken Saito (Nagoya Bunri Univ.)	Ihara zeta 関数の収束半径に関する不等式 10 The inequalities of the radii of convergence of Ihara zeta-functions	
09-01-0033		
15 樋 口 雄 介 (昭和大教養) M. F. Sabri (東北大情報) 瀬 川 悅 生 (東北大情報) 吉 江 佑 介 (東北大情報) <u>Yusuke Higuchi</u> (Showa Univ.) Mohamed Fuard Sabri (Tohoku Univ.) <u>Etsuo Segawa</u> (Tohoku Univ.) <u>Yusuke Yoshie</u> (Tohoku Univ.)	量子ウォークから誘導される力学系 15 A dynamical system induced by discrete-time quantum walk	
09-01-0034		
16 井 手 勇 介 (北陸先端大) Choon-Lin Ho (淡江大) 今 野 紀 雄 (横浜国大工) <u>Yusuke Ide</u> (JAIST) Choon-Lin Ho (Tamkang Univ.) Norio Konno (Yokohama Nat. Univ.)	Cycle・Path 上の離散時間量子ウォークの固有解析 15 Spectral analysis of discrete-time quantum walks on cycle and path graphs	
09-01-0040		
17 船 川 大 樹 (北海学園大工) 布 田 徹 (国士館大理工) 笹 山 智 司 (北 大 理) 鈴 木 章 斗 (信 州 大 工) <u>Daiju Funakawa</u> (Hokkai-Gakuen Univ.) Toru Fuda (Kokushikan Univ.) Satoshi Sasayama (Hokkaido Univ.) Akito Suzuki (Shinshu Univ.)	2次元スプリットステップ量子ウォークの レゾナンスについて 15 About the resonance of a 2-dimensional split-step quantum walk	

45 応用数学

09-01-0046	18 寺西功哲 (北大理) 佐々木格 (信州大理) 鈴木章斗 (信州大工) 船川大樹 (北海学園大工) 松澤泰道 (信州大教育) <u>Noriaki Teranishi</u> (Hokkaido Univ.) <u>Itaru Sasaki</u> (Shinshu Univ.) <u>Akito Suzuki</u> (Shinshu Univ.) <u>Daiju Funakawa</u> (Hokkai-Gakuen Univ.) <u>Yasumichi Matsuzawa</u> (Shinshu Univ.)	ユニタリ作用素に対する時間作用素 15 A note on time operators with respect to a unitary operator
09-01-0025	19 久保田匠 (東北大情報) 吉江佑介 (東北大情報) <u>Sho Kubota</u> (Tohoku Univ.) <u>Yusuke Yoshie</u> (Tohoku Univ.)	Periodicity of Grover walks on some trees 10 Periodicity of Grover walks on some trees
09-01-0047	20 小松堯 (横浜国大理工) 今野紀雄 (横浜国大工) <u>Takashi Komatsu</u> (Yokohama Nat. Univ.) Norio Konno (Yokohama Nat. Univ.)	量子ウォークの固有値問題から誘導される定常測度 10 Stationary measure induced by eigenvalue problem of quantum walk

16:40~17:40 特別講演

09-02-0005	今野紀雄 (横浜国大工) Norio Konno (Yokohama Nat. Univ.)	量子ウォーク 2.0 Quantum walk 2.0
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9月25日(火)

9:00~12:00

09-01-0017	21 奈良知恵 (明大MIMS) 伊藤仁一 (裾山女学園大教育) <u>Chie Nara</u> (Meiji Univ.) Jin-ichi Itoh (Sugiyama Jogakuen Univ.)	N次元超立方体の正方形面からなる2-スケルトンの連続平坦化 15 Continuous flattening of the 2-skeleton of the square faces in a hypercube
09-01-0023	22 中本敦浩 (横浜国大環境情報) 松本直己 (成蹊大理工) 川谷元 (東京理大) J. Urrutia (UNAM) <u>Atsuhiro Nakamoto</u> (Yokohama Nat. Univ.) Naoki Matsumoto (Seikei Univ.) Gen Kawatani (Tokyo Univ. of Sci.) Jorge Urrutia (UNAM)	多角形の幾何学的四角形分割について 15 Geometric quadrangulations of a polygon
09-01-0026	23 野口健太 (東京理大理工) Kenta Noguchi (Tokyo Univ. of Sci.)	1-平面的グラフの連結度とハミルトン性 15 Connectivity and Hamiltonicity of 1-planar graphs
09-01-0030	24 松本直己 (成蹊大理工) 長尾篤樹 (お茶の水女大基幹) <u>Naoki Matsumoto</u> (Seikei Univ.) Atsuki Nagao (Ochanomizu Univ.)	オイラーーグラフ上の帰還ゲームについて 15 Feedback game on Eulerian graphs

09-01-0038		
25	平沼 駿 (横浜国大環境情報) 川谷 元 (東京理大) 松本直己 (成蹊大理工)	グラフの直積からなる domatically full なグラフについて 15 Domatically full graphs obtained from Cartesian products of graphs
	Syun Hiranuma (Yokohama Nat. Univ.) Gen Kawatani (Tokyo Univ. of Sci.) Naoki Matsumoto (Seikei Univ.)	
09-01-0013		
26	藤田慎也 (横浜市大データサイエンス) T. Jensen (Aarhus Univ.) B. Park (亞洲大) 佐久間雅 (山形大理工)	On the weighted safe set problem on paths and cycles 10 On the weighted safe set problem on paths and cycles
	Shinya Fujita (Yokohama City Univ.) Tommy Jensen (Aarhus Univ.) Boram Park (Ajou Univ.) Tadashi Sakuma (Yamagata Univ.)	
09-01-0050		
27	三橋秀生 (法政大理工) 今野紀雄 (横浜国大理工) 佐藤巖 (小山工高専) Hideo Mitsuhashi (Hosei Univ.) Norio Konno (Yokohama Nat. Univ.) Iwao Sato (Oyama Nat. Coll. of Tech.)	有限グラフ上の四元数量子ウォークの左固有値について 15 Left eigenvalues of quaternionic quantum walks on graphs
09-01-0049		
28	齋藤 溪 (横浜国大理工) Kei Saito (Yokohama Nat. Univ.)	正則グラフ上の Fourier 量子ウォークの周期性 15 Periodicity for the Fourier quantum walk on regular graphs
09-01-0053		
29	齋藤 溪 (横浜国大理工) Kei Saito (Yokohama Nat. Univ.)	空間発展過程による量子ウォークの定常測度の解析 15 Analysis of the stationary measure of quantum walk by position-evolution process
09-01-0014		
30	佐藤巖 (小山工高専) 今野紀雄 (横浜国大理工) 井手勇介 (北陸先端大) Iwao Sato (Oyama Nat. Coll. of Tech.) Norio Konno (Yokohama Nat. Univ.) Yusuke Ide (JAIST)	The spectral analysis of the unitary matrix of a 2-tessellable staggered quantum walk on a graph 15 The spectral analysis of the unitary matrix of a 2-tessellable staggered quantum walk on a graph

9月26日(水)

10:00~12:00 特別セッション「機械学習の数学的課題: 深層学習の理論を中心に」

09-02-0001		
	園田翔 (理化学研 AIP) Sho Sonoda (RIKEN)	深層ニューラルネット理論の近況 45 Recent developments on deep neural network theory
09-02-0003		
	鈴木大慈 (東大工) Taiji Suzuki (Univ. of Tokyo)	深層学習の汎化誤差理論とそのモデル解析への応用 45 Generalization error theory of deep learning and its application to model analysis
14:15~16:20		
09-01-0043		
31	今井淳 (千葉大理工) Jun O'Hara (Chiba Univ.)	自己インダクタンスの正則化 15 Regularization of the self-inductance

09-01-0041	32 川原田茜 (京都教育大) 行木孝夫 (北大理) <u>Akane Kawahara</u> (Kyoto Univ. of Edu.) Takao Namiki (Hokkaido Univ.)	ある非線型セル・オートマトンの生成パターンと特異関数との関係について 10 Relation between spatio-temporal patterns generated by a nonlinear cellular automaton and a singular function
09-01-0019	33 森竜樹 (阪大基礎工) 鈴木貴 (阪大MMDS) 四ツ谷晶二 (龍谷大理工) <u>Tatsuki Mori</u> (Osaka Univ.) Takashi Suzuki (Osaka Univ.) Shoji Yotsutani (Ryukoku Univ.)	Numerical approach to existence and stability of stationary solutions to a SKT cross-diffusion equation 15 Numerical approach to existence and stability of stationary solutions to a SKT cross-diffusion equation
09-01-0018	34 松井一徳 (金沢大理工) Kazunori Matsui (Kanazawa Univ.)	混合境界条件を課した圧力ポアソン問題について 15 A pressure-Poisson problem with mixed boundary conditions
09-01-0024	35 千葉悠喜 (東大数理) 齊藤宣一 (東大数理) <u>Yuki Chiba</u> (Univ. of Tokyo) Norikazu Saito (Univ. of Tokyo)	滑らかな領域上のRobin境界条件を持つPoisson方程式に対するNitsche法 15 Nitsche's method for Poisson equations with a Robin boundary condition in a smooth domain
09-01-0028	36 中西徹 (東大数理) 齊藤宣一 (東大数理) <u>Toru Nakanishi</u> (Univ. of Tokyo) Norikazu Saito (Univ. of Tokyo)	有限要素法による高次元半線形熱方程式の球対称解の数値解析 15 Numerical analysis for the radially symmetric solutions of multidimensional semilinear heat equations by finite element method
09-01-0027	37 高安亮紀 (筑波大システム情報) 松江要 (九大IMI・九大I2CNER) <u>Akitoshi Takayasu</u> (Univ. of Tsukuba) Kaname Matsue (Kyushu Univ./Kyushu Univ.)	微分方程式の爆発解の精度保証付き数値計算—指數関数非線型項を持つ場合— 15 Numerical validation of blow-up solutions for differential equations with exponential nonlinearity
09-01-0031	38 渡部善隆 (九大情報基盤研究開発センター) 木下武彦 中尾充宏 (早大理工) <u>Yoshitaka Watanabe</u> (Kyushu Univ.) Takeshi Kinoshita Mitsuhiro T. Nakao (Waseda Univ.)	2階線形橙円型作用素に対する可逆性検証と精度保証付きノルム評価の改善 15 An improvement for verifying the existence and bounds of the inverse of second-order elliptic operators

16:40～17:40 特別講演

09-02-0004	深尾武史 (京都教育大) Takeshi Fukao (Kyoto Univ. of Edu.)
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総体積保存則に拘束される偏微分方程式と発展方程式による抽象論的接近
Abstract approach of evolution equation to partial differential equations with total mass conservation

9月27日(木)

10:00～11:40

09-01-0010	39 後藤田剛 (北大電子研) Takeshi Gotoda (Hokkaido Univ.)
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Convergence of the filtered solutions to the 2D Euler equations with vortex sheet initial data 15
Convergence of the filtered solutions to the 2D Euler equations with vortex sheet initial data

09-01-0036	40 清水 雄貴 (京大理) 榎原航也 (京大理) <u>Yuuki Shimizu</u> (Kyoto Univ.) <u>Koya Sakakibara</u> (Kyoto Univ.)	極小曲面上の点渦力学系: 1. 理論解析 15 Point vortex dynamics on minimal surfaces: 1. Theoretical analysis
09-01-0037	41 榎原航也 (京大理) 清水雄貴 (京大理) <u>Koya Sakakibara</u> (Kyoto Univ.) <u>Yuuki Shimizu</u> (Kyoto Univ.)	極小曲面上の点渦力学系: 数値解析 15 Point vortex dynamics on minimal surfaces: Numerical analysis
09-01-0002	42 三宅常時 (宇部工高専) 勝田祐司 (宇部工高専) <u>George Miyake</u> (Ube Nat. Coll. of Tech.) <u>Yuji Katsuta</u> (Ube Nat. Coll. of Tech.)	4個の発振器を環状に結合した回路の対称性を用いた解析 10 An analysis of four coupled oscillators circuits in a ring by using the symmetry of the circuits
09-01-0004	43 坂口文則 (福井大工) <u>Fuminori Sakaguchi</u> (Univ. of Fukui)	固有関数消去法による微分作用素の整数型固有値計算法の改良 15 An improvement of integer-type algorithm for eigenvalues of differential operators by means of the elimination of eigenfunctions
09-01-0020	44 中田行彦 (島根大総合理工) <u>Yukihiko Nakata</u> (Shimane Univ.)	ある遅延微分方程式の陽的な周期解について 15 An explicit periodic solution of a delay differential equation
14:15~15:50		
09-01-0044	45 矢ヶ崎一幸 (京大情報) <u>Kazuyuki Yagasaki</u> (Kyoto Univ.)	Chaos in randomly perturbed dynamical systems 15 Chaos in randomly perturbed dynamical systems
09-01-0048	46 本永翔也 (京大情報) 矢ヶ崎一幸 (京大情報) <u>Shoya Motonaga</u> (Kyoto Univ.) <u>Kazuyuki Yagasaki</u> (Kyoto Univ.)	Nonintegrability of parametrically forced nonlinear oscillators 15 Nonintegrability of parametrically forced nonlinear oscillators
09-01-0052	47 石塚裕大 (京大理) 中野直人 (京大国際高等教育院) <u>Yasuhiro Ishitsuka</u> (Kyoto Univ.) <u>Naoto Nakano</u> (Kyoto Univ.)	Understanding of dynamical reconstruction based on delay embedding through Gröbner basis 15 Understanding of dynamical reconstruction based on delay embedding through Gröbner basis
09-01-0008	48 李聖林 (広島大) <u>Sungrim Seirin Lee</u> (Hiroshima Univ.)	動的変形ドメインによるパターン形成 15 Pattern formation induced by domain deformation
09-01-0009	49 後藤田剛 (北大電子研) 上坂正晃 (北大電子研) 安ヶ平裕介 (北大理) 小林康明 (お茶の水女大) 北畠裕之 (千葉大) 傳田光洋 (資生堂) 長山雅晴 (北大電子研) <u>Takeshi Gotoda</u> (Hokkaido Univ.) <u>Masaaki Uesaka</u> (Hokkaido Univ.) <u>Yusuke Yasugahira</u> (Hokkaido Univ.) <u>Yasuaki Kobayashi</u> (Ochanomizu Univ.) <u>Hiroyuki Kitahata</u> (Chiba Univ.) <u>Mitsuhiro Denda</u> (Shiseido Co., Ltd.) <u>Masaharu Nagayama</u> (Hokkaido Univ.)	角層剥離の数理モデリング 15 Mathematical modeling for epidermal desquamation

09-01-0011	50 鈴木 貴 (阪大 MMDS)	血管新生モデリング—走化性パラドクスの解消	5
	Takashi Suzuki (Osaka Univ.)	Modeling angiogenesis —resolution of chemotactic paradox	
09-01-0012	51 鈴木 貴 (阪大 MMDS)	細胞変形モデリング—自由境界とリュービルの定理	5
	Takashi Suzuki (Osaka Univ.)	Modeling cell deformation —free boudaries and Liouville's theorem	

16:10~17:10 特別講演

09-02-0002	大林 一平 (理化学研 AIP・東北大 AIMR)	パーシステントホモロジー—数学と計算機科学の融合による「かたち」 のデータ解析	
	Ippei Obayashi (RIKEN/Tohoku Univ.)	Persistent homology —Analysis of the shape of data by the combination of mathematics and computer science	

ト ポ ロ ジ 一

9月24日(月)

9:20~12:00	
10-01-0005	
1 宮澤治子 (津田塾大数学・計算機研) <u>和田康載</u> (早大教育) <u>安原晃</u> (早大商) Haruko Miyazawa (Tsuda Coll.) <u>Kodai Wada</u> (Waseda Univ.) Akira Yasuhara (Waseda Univ.)	絡み目のバーンサイド群と n 変形について 10 Burnside groups and n -moves for links
10-01-0006	
2 宮澤治子 (津田塾大数学・計算機研) <u>和田康載</u> (早大教育) <u>安原晃</u> (早大商) Haruko Miyazawa (Tsuda Coll.) <u>Kodai Wada</u> (Waseda Univ.) Akira Yasuhara (Waseda Univ.)	ウェルデッド絡み目における仮想化変形の一般化について 10 Generalized virtualization on welded links
10-01-0001	
3 寺垣内政一 (広島大教育) Masakazu Teragaito (Hiroshima Univ.)	長さ 3 のプレツツエル結び目の結び目群の正規生成元 10 Weight elements of the knot groups of some 3-strand pretzel knots
10-01-0010	
4 鈴木正明 (明大総合数理) A. T. Tran (Univ. of Texas at Dallas) <u>Masaaki Suzuki</u> (Meiji Univ.) Anh T. Tran (Univ. of Texas at Dallas)	Genera of two-bridge knots and epimorphisms of their knot groups 10 Genera of two-bridge knots and epimorphisms of their knot groups
10-01-0012	
5 斎藤敏夫 (上越教育大) Toshio Saito (Joetsu Univ. of Edu.)	Tunnel number of knots and generalized tangles 10 Tunnel number of knots and generalized tangles
10-01-0027	
6 滝岡英雄 (阪市大数学研) Hideo Takioka (Osaka City Univ.)	結び目の $2n$ 移動と Γ 多項式 10 $2n$ -moves and the Γ -polynomial for knots
10-01-0008	
7 中西康剛 (神戸大理) Yasutaka Nakanishi (Kobe Univ.)	Differences of Alexander polynomials for knots caused by a single crossing change, II 10 Differences of Alexander polynomials for knots caused by a single crossing change, II
10-01-0028	
8 嘉藤桂樹 (東工大理) Keiju Kato (Tokyo Tech)	A mirroring formula for the interior polynomial of a bipartite graph 10 A mirroring formula for the interior polynomial of a bipartite graph

10-01-0013

- 9 M. Khovanov (Columbia Univ.)
 A. D. Lauda
 (Univ. of Southern California)
 J. Sussan
 (City Univ. of New York)
米澤 康好 (名大多元数理)
 Mikhail Khovanov (Columbia Univ.)
 Aaron D. Lauda
 (Univ. of Southern California)
 Joshua Sussan (City Univ. of New York)
Yasuyoshi Yonezawa (Nagoya Univ.)

Braid group actions from categorical symmetric Howe duality on deformed Webster algebras 15

10-01-0011

- 10 笠原 泰 (高知工科大)
 Yasushi Kasahara
 (Kochi Univ. of Tech.)

種数 g の写像類群の $2g + 1$ 次元線型表現について 10
 On $2g + 1$ -dimensional linear representations of mapping class groups of genus g

10-01-0009

- 11 中村伊南沙 (金沢大理工)
 Inasa Nakamura (Kanazawa Univ.)

ブランチ点をもつ分岐被覆曲面結び目の単純化数 10
 Simplifying branched covering surface-knots with a non-zero number of branch points

10-01-0022

- 12 福田瑞季 (東北大理工)
 Mizuki Fukuda (Tohoku Univ.)

Gluck twist along branched twist spins 10
 Gluck twist along branched twist spins

10-01-0029

- 13 丹下基生 (筑波大数理物質)^b
 Motoo Tange (Univ. of Tsukuba)

E_8 交差形式をもつ 4 次元多様体と correction term 15
 4-manifolds with E_8 intersection form and their correction terms

14:15~14:55**10-01-0021**

- 14 阿部翠空星 (阪市大数学研)
 Sukuse Abe (Osaka City Univ.)

種数 2 のハンドル体結び目の量子 $U_q(\mathfrak{g})$ 不変量 15
 Quantum $U_q(\mathfrak{g})$ invariants of genus 2 handlebody-knots

10-01-0018

- 15 湯浅亘 (京大理工)
 Wataru Yuasa (Kyoto Univ.)

A_2 colored polynomials of rigid vertex graphs 10
 A_2 colored polynomials of rigid vertex graphs

10-01-0019

- 16 湯浅亘 (京大理工)
 Wataru Yuasa (Kyoto Univ.)

A_2 skein representations of pure braid groups 10
 A_2 skein representations of pure braid groups

15:10~16:10 特別講演**10-02-0001**

- 渡邊忠之 (島根大総合理工)
 Tadayuki Watanabe (Shimane Univ.)

$\text{Diff}(S^4)$ の特性類と族のクラスパー手術
 Characteristic classes for $\text{Diff}(S^4)$ and clasper surgery for families

9月 25 日(火)

13:15~14:15**10-01-0003**

- 17 山岸義和 (龍谷大理工)
 須志田隆道 (北大電子研)
 Yoshikazu Yamagishi (Ryukoku Univ.)
 Takamichi Sushida (Hokkaido Univ.)

アルキメデス螺旋格子上のボロノイタイリング 10
 Voronoi tilings on Archimedean spiral lattices

10-01-0017

- 18 一木俊助 (横浜国大環境情報)
 Shunsuke Ichiki (Yokohama Nat. Univ.)

Characterization of generic transversality 15
 Characterization of generic transversality

10-01-0024	19 山本 卓宏 (東京学大教育) Takahiro Yamamoto (Tokyo Gakugei Univ.)	境界付き曲面の安定写像による平面像 15 Apparent contours of stable maps of compact surfaces with boundary into the plane
10-01-0020	20 寺本 圭佑 (神戸大理) Keisuke Teramoto (Kobe Univ.)	ある性質を持つカスプ辺のガウス写像に現れるカスプの符号について 15 On signs of cusps of Gauss maps of cuspidal edges with certain properties

9月26日(水)

10:20~12:00

10-01-0015	21 下村 尚司 (名経大経済) Takashi Shimomura (Nagoya Univ. of Economics)	零次元同相写像の Bratteli–Vershik モデルの応用 10 Applications of the Bratteli–Vershik model for zero-dimensional homeomorphisms
10-01-0016	22 下村 尚司 (名経大経済)* Takashi Shimomura (Nagoya Univ. of Economics)	極小代入力学系に於ける代入写像の特徴 10 Characterization of substitution map for minimal substitution subshifts
10-01-0023	23 児玉大樹 (東大数理) 増田一男 三松佳彦 (中大理工) Hiroki Kodama (Univ. of Tokyo) Kazuo Masuda Yoshihiko Mitsumatsu (Chuo Univ.)	平坦関数の高階導関数について 15 Derivatives of flat functions
10-01-0004	24 小原まり子 (信州大理) Mariko Ohara (Shinshu Univ.)	On graded E-infinity rings and projective schemes 15 On graded E-infinity rings and projective schemes
10-01-0025	25 井上浩一 (東京都市大共通教育) Koichi Inoue (Tokyo City Univ.)	対称式と $Q_m(w_n)$ 15 Symmetric polynomial and $Q_m(w_n)$
10-01-0002	26 原口忠之 (奈良学園大人間教育) Tadayuki Haraguchi (Naragakuen Univ.)	滑らかな CW 複体のホモトピー構造 15 Homotopy structures of smooth CW complexes

14:15~14:50

10-01-0007	27 松雪敬寛 (東工大理) Takahiro Matsuyuki (Tokyo Tech)	ファイブレーションの特性類とグラフ複体 15 Characteristic classes of fibrations and graph complexes
10-01-0026	28 野坂武史 (東工大理) Takefumi Nosaka (Tokyo Tech)	de Rham theory and cocycles of cubical sets from smooth quandles 15 de Rham theory and cocycles of cubical sets from smooth quandles

15:10~16:10 特別講演

10-02-0002	鍛冶静雄 (九大IMI) Shizuo Kaji (Kyushu Univ.)	同変ループ積について On equivariant loop product
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無限可積分系

9月24日(月)

9:15~10:50

11-01-0004

1 加藤 正輝 (神戸大理)
Masaki Kato (Kobe Univ.)

楕円ディガムマ関数の加法型公式 15

An addition type formula for the elliptic digamma function

11-01-0002

2 綾野 孝則 (阪大数学研)
V. M. Buchstaber (Steklov Math. Inst.)
Takanori Ayano (Osaka City Univ.)
Victor Matveevich Buchstaber
(Steklov Math. Inst.)

種数3の超楕円曲線のシグマ因子上の有理型関数を退化させて得られる
KdV方程式の解について 15

Solutions of KdV-equation obtained by the degeneration of meromorphic functions on the sigma divisor of hyperelliptic curves of genus 3

11-01-0008

3 鈴木 貴雄 (近畿大理工)
Takao Suzuki (Kindai Univ.)

自然数の分割 $(n+1, n+1, n+1)$ に対する A型ドリンフェルト・ソコロフ階層の相似簡約 15

A similarity reduction of the Drinfeld-Sokolov hierarchy of type A corresponding to the partition of natural number $(n+1, n+1, n+1)$

11-01-0006

4 竹村 剛一 (中大理工)
Kouichi Takemura (Chuo Univ.)

On q -deformations of the Heun equation 15

On q -deformations of the Heun equation

11-01-0014

5 大山 陽介 (徳島大理工)
Yousuke Ohyama (Tokushima Univ.)

q -超幾何函数 ${}_3\phi_2(a_1, a_2, a_3; 0, 0; q, x)$ の満たす差分方程式の q -Stokes係数 15

q -Stokes phenomenon on a difference equation satisfied by q -hypergeometric series ${}_3\phi_2(a_1, a_2, a_3; 0, 0; q, x)$

11-01-0013

6 伊藤 雅彦 (琉球大理)
野海 正俊 (神戸大理)
Masahiko Ito (Univ. of Ryukyus)
Masatoshi Noumi (Kobe Univ.)

G_2 型 Gustafson q -ベータ積分の楕円化とその無限積表示について 15

Elliptic extension of Gustafson's q -beta integral of type G_2 and its infinite product expression

11:00~12:00 特別講演

11-02-0002

岩木 耕平 (名大多元数理)
Kohei Iwaki (Nagoya Univ.)

完全WKB解析と位相的漸化式

Exact WKB analysis and topological recursion

14:15~16:25

11-01-0012

7 水野 勇磨 (東工大情報理工)
Yuma Mizuno (Tokyo Tech)

Jacobian matrices of Y-seed mutations and mutation networks 15

Jacobian matrices of Y-seed mutations and mutation networks

11-01-0001

8 安東 雅訓 (奈良学園大人間教育)
Masanori Ando (Naragakuen Univ.)

劣正則分割とグレイシャー対応 15

Inferior regular partitions and Glaisher correspondence

11-01-0011

9 星野 歩 (広島工大工)
白石潤一 (東大数理)
Ayumu Hoshino
(Hiroshima Inst. of Tech.)
Jun'ichi Shiraishi (Univ. of Tokyo)

Matrix inversion for Koornwinder polynomials with one-column diagram 15

Matrix inversion for Koornwinder polynomials with one-column diagram

11-01-0015	10 末 武 一 馬 (名大多元数理) 粟 田 英 資 (名大多元数理) 菅 野 浩 明 (名大多元数理) Kazuma Suetake (Nagoya Univ.) Hidetoshi Awata (Nagoya Univ.) Hiroaki Kanno (Nagoya Univ.)	量子トロイダル代数に付随する (q, t) -KZ 方程式 15 The (q, t) -KZ equation associated with the quantum toroidal algebra
11-01-0005	11 小 寺 謙 介 (神 戸 大 理) Ryosuke Kodera (Kobe Univ.)	On Guay's evaluation map for affine Yangians 15 On Guay's evaluation map for affine Yangians
11-01-0009	12 中 津 了 勇 (摂 南 大 理 工) 高 崎 金 久 (近 畿 大 理 工) Toshio Nakatsu (Setsunan Univ.) Kanehisa Takasaki (Kindai Univ.)	Hodge 積分と位相的頂点 15 Hodge integrals and topological vertex
11-01-0003	13 国 場 敦 夫 (東大総合文化) V. Pasquier (Univ. Paris-Saclay) Atsuo Kuniba (Univ. of Tokyo) Vincent Pasquier (Univ. Paris-Saclay)	Matrix product solutions to the reflection equation from three dimensional integrability 15 Matrix product solutions to the reflection equation from three dimensional integrability
11-01-0007	14 尾 角 正 人 (阪 市 大 理) Jae-Hoon Kwon (ソウル大) Masato Okado (Osaka City Univ.) Jae-Hoon Kwon (Seoul Nat. Univ.)	A型一般化量子群の KR クリスタル 15 KR crystals of the generalized quantum group of type A
16:40~17:40 特別講演		
11-02-0001	池 田 岳 (岡 山 理 大 理) Takeshi Ikeda (Okayama Univ. of Sci.)	K 理論的 Peterson 同型 K-theoretic Paterson isomorphism