

# 函数解析学

3月21日(木)

## 9:30~12:15

- 1 釣井達也 (阪府大理) # Deformations of finite hypergroups ..... 10  
河上哲 (奈良教育大教育)  
Tatsuya Tsurii (Osaka Pref. Univ.) # Deformations of finite hypergroups  
Satoshi Kawakami (Nara Univ. of Edu.)
- 2 坂尾祥文 (千葉大理) # Duality problem of extension hypergroups ..... 10  
釣井達也 (阪府大理)  
山中聡恵 (阪府大理)  
河上哲 (奈良教育大教育)  
Masafumi Sakao (Chiba Univ.) # Duality problem of extension hypergroups  
Tatsuya Tsurii (Osaka Pref. Univ.)  
Satoe Yamanaka (Osaka Pref. Univ.)  
Satoshi Kawakami (Nara Univ. of Edu.)
- 3 三上いつみ # A hypergroup coming from infinite dimensional representations of a motion group ..... 10  
釣井達也 (阪府大理)  
山中聡恵 (阪府大理)  
河上哲 (奈良教育大教育)  
Itsumi Mikami # A hypergroup coming from infinite dimensional representations of a motion group  
Tatsuya Tsurii (Osaka Pref. Univ.)  
Satoe Yamanaka (Osaka Pref. Univ.)  
Satoshi Kawakami (Nara Univ. of Edu.)
- 4 山中聡恵 (阪府大理) # Induced states of a hypergroup ..... 10  
H. Heyer (Tübingen Univ.)  
河上哲 (奈良教育大教育)  
Satoe Yamanaka (Osaka Pref. Univ.) # Induced states of a hypergroup  
Herbert Heyer (Tübingen Univ.)  
Satoshi Kawakami (Nara Univ. of Edu.)
- 5 河上哲 (奈良教育大教育) # When does the dual have a hypergroup structure? ..... 10  
H. Heyer (Tübingen Univ.)  
Satoshi Kawakami (Nara Univ. of Edu.) # When does the dual have a hypergroup structure?  
Herbert Heyer (Tübingen Univ.)
- 6 河上哲 (奈良教育大教育) # Imprimitivity theorem for representations of a hypergroup ..... 10  
H. Heyer (Tübingen Univ.)  
Satoshi Kawakami (Nara Univ. of Edu.) # Imprimitivity theorem for representations of a hypergroup  
Herbert Heyer (Tübingen Univ.)
- 7 野村隆昭 (九大数理) \* Euclid 型 Jordan 代数の clan 構造における右乗法作用素の帰納的構造と行列式 ..... 15  
Takaaki Nomura (Kyushu Univ.) \* Inductive structure and the determinant of the right multiplication operators in the clan structure of a Euclidean Jordan algebra
- 8 中島秀斗 (九大数理) # Hermite 型 Jordan 代数の表現から得られる clan ..... 15  
Hideto Nakashima (Kyushu Univ.) # Clans defined by representations of Hermitian Jordan algebras

## 2 函数解析学

- 9 中島 秀斗 (九大数理)<sup>#</sup> Lorentz 型 Jordan 代数の表現から得られる clan ..... 15  
野村 隆昭 (九大数理)  
Hidetō Nakashima (Kyushu Univ.)<sup>#</sup> Clans defined by representations of Lorentzian Jordan algebras  
Takaaki Nomura (Kyushu Univ.)
- 10 中島 秀斗 (九大数理)<sup>#</sup> Jordan 代数の表現から得られる clan の双対 clan ..... 15  
野村 隆昭 (九大数理)  
Hidetō Nakashima (Kyushu Univ.)<sup>#</sup> Dual clans of clans defined by representations of Euclidean Jordan algebras  
Takaaki Nomura (Kyushu Univ.)
- 11 笹木 集夢 (東海大理)<sup>#</sup> Compatible automorphisms for visible linear actions ..... 15  
Atsumu Sasaki (Tokai Univ.)<sup>#</sup> Compatible automorphisms for visible linear actions
- 12 橋本 隆司<sup>#</sup> Embedding of real coadjoint orbits in the twisted cotangent bundle of  
(鳥取大学教育支援機構) the complex flag variety ..... 15  
Takashi Hashimoto (Tottori Univ.)<sup>#</sup> Embedding of real coadjoint orbits in the twisted cotangent bundle of  
the complex flag variety
- 13:30~14:30 特別講演**  
松本 久義 (東大数理)<sup>#</sup> スカラー型一般化バルマ加群の間の準同型について  
Hisayosi Matumoto (Univ. of Tokyo)<sup>#</sup> On the homomorphisms between scalar generalized Verma modules

3月22日(金)

**10:00~12:00**

- 13 瀬尾 祐貴 (大阪教育大数学教育)<sup>#</sup> 外分公式における算術・幾何平均の不等式について ..... 10  
Yuki Seo (Osaka Kyoiku Univ.)<sup>#</sup> The Arithmetic-Geometric mean inequality in an external formula
- 14 泉池 敬司 (新潟大理)<sup>\*</sup> Composition operators induced by analytic maps to the polydisk ..... 15  
Quang Dieu Nguyen  
(Hanoi Univ. of Education, Vietnam)  
大野 修一 (日本工大)  
Kei Ji Izuchi (Niigata Univ.)<sup>\*</sup> Composition operators induced by analytic maps to the polydisk  
Quang Dieu Nguyen  
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Shūichi Ohno (Nippon Inst. of Tech.)
- 15 W. Krieger (Univ. of Heidelberg)<sup>\*</sup> A class of subshifts with property (A) ..... 15  
濱地 敏弘 (九大)<sup>\*</sup>  
Wolfgang Krieger (Univ. of Heidelberg)<sup>\*</sup> A class of subshifts with property (A)  
Toshihiro Hamachi (Kyushu Univ.)<sup>\*</sup>
- 16 梶原 毅 (岡山大環境)<sup>#</sup> 有理関数力学系から作られる  $C^*$ -環のコアのトレース ..... 15  
綿谷 安男 (九大数理)  
Tsuyoshi Kajiwara (Okayama Univ.)<sup>#</sup> Trace on cores of  $C^*$ -algebras associated with rational functions  
Yasuo Watatani (Kyushu Univ.)
- 17 松本 健吾 (上越教育大)<sup>\*</sup> Hilbert  $C^*$ -quad module からできる  $C^*$ -環について ..... 15  
Kengo Matsumoto<sup>\*</sup>  $C^*$ -algebras associated with Hilbert  $C^*$ -quad modules of finite type  
(Joetsu Univ. of Edu.)
- 18 佐藤 康彦 (京大理)<sup>#</sup> UHF 環を吸収する  $C^*$ -環の分解階数 ..... 15

- Yasuhiko Sato (Kyoto Univ.)# Decomposition rank of UHF absorbing  $C^*$ -algebras
- 19 大坂博幸(立命館大理工)# Nuclear dimension for an inclusion of unital  $C^*$ -algebras ..... 10  
照屋保(群馬大教育)  
Hiroyuki Osaka (Ritsumeikan Univ.)# Nuclear dimension for an inclusion of unital  $C^*$ -algebras  
Tamotsu Teruya (Gunma Univ.)
- 20 大坂博幸(立命館大理工)# On generalized Powers–Størmer’s inequality ..... 15  
Dinh Trung Hoa (Duy Tan Univ.)  
Ho Minh Toan  
(Math. Inst., Vietnam Acad. of Sci. and Tech.)  
Hiroyuki Osaka (Ritsumeikan Univ.)# On generalized Powers–Størmer’s inequality  
Dinh Trung Hoa (Duy Tan Univ.)  
Ho Minh Toan  
(Math. Inst., Vietnam Acad. of Sci. and Tech.)

**14:30~15:20**

- 21 安藤浩志 (IHÉS)# Von Neumann 環の超積について ..... 20  
U. Haagerup (Univ. of Copenhagen)  
Hiroshi Ando (IHÉS)# Ultraproducts of von Neumann algebras  
Uffe Haagerup (Univ. of Copenhagen)
- 22 後藤聡史(上智大理工)# Dynkin 図形間の connection の完全分類と  $ADE$  fusion bimodule について ..... 10  
Satoshi Goto (Sophia Univ.)# On classification of connections between Dynkin diagrams and  $ADE$  fusion bimodules
- 23 後藤聡史(上智大理工)#  $D-E$  型一般化 Goodman–de la Harpe–Jones subfactor について ..... 10  
Satoshi Goto (Sophia Univ.)# On generalized Goodman–de la Harpe–Jones subfactors of type  $D-E$
- 24 後藤聡史(上智大理工)# 3311 spoke subfactor の flat および non-flat connection system ..... 5  
Satoshi Goto (Sophia Univ.)# On flat and non-flat connection systems of the 3311 spoke subfactor

**15:40~16:40 特別講演**

- 戸松玲治(北大理工)# Von Neumann 環への群・量子群作用の分類問題  
Reiji Tomatsu (Hokkaido Univ.)# Classification problem of group or quantum group actions on von Neumann algebras

3月23日(土)

**10:30~12:00**

- 25 三宅啓道 # On the existence of the mean values for commutative semigroups of Dunford–Schwartz operators on  $L^1$  ..... 15  
Hiromichi Miyake # On the existence of the mean values for commutative semigroups of Dunford–Schwartz operators on  $L^1$
- 26 亀高惟倫(阪大\*)# カイラル型カーボンナノチューブ上の離散ソボレフ不等式の最良定数 .. 10  
Yoshinori Kametaka (Osaka Univ.\*)# The best constant of discrete Sobolev inequality on chiral type Carbon nano tube

- 27 山岸弘幸 (都立産業技術高専) # 完全ローカットフィルタとソボレフ不等式の最良定数 ..... 10  
 亀高惟倫 (阪大)  
 永井敦 (日大生産工)  
 渡辺宏太郎 (防衛大)  
 武村一雄 (日大生産工)  
 Hiroyuki Yamagishi # Complete low-cut filter and the best constant of Sobolev inequality  
 (Tokyo Metro. Coll. of Ind. Tech.)  
 Yoshinori Kametaka (Osaka Univ.)  
 Atsushi Nagai (Nihon Univ.)  
 Kohtaro Watanabe  
 (Nat. Defense Acad. of Japan)  
 Kazuo Takemura (Nihon Univ.)
- 28 山岸弘幸 (都立産業技術高専) # 完全グラフにおける離散ソボレフ不等式の最良定数 ..... 10  
 渡辺宏太郎 (防衛大)  
 亀高惟倫 (阪大)  
 Hiroyuki Yamagishi # The best constant of discrete Sobolev inequality on complete graph  
 (Tokyo Metro. Coll. of Ind. Tech.)  
 Kohtaro Watanabe  
 (Nat. Defense Acad. of Japan)  
 Yoshinori Kametaka (Osaka Univ.)
- 29 中桐信一 (神戸大システム情報) # 双曲型ボルテラ微積分方程式系の解半群の構造的性質 ..... 15  
 Shin-ichi Nakagiri (Kobe Univ.) # Structural properties of solution semigroups associated with hyperbolic  
 Volterra integro-differential systems
- 30 梅田耕平 (北大理) # 指数型増大正則関数に対する楔の刃定理とラプラス超関数 ..... 15  
 本多尚文 (北大理)  
 Kohei Umeta (Hokkaido Univ.) # The edge of the wedge theorem for holomorphic functions with growth  
 Naofumi Honda (Hokkaido Univ.) conditions of exponential type and Laplace hyperfunctions

**14:30~15:30 特別講演**

- 安藤和典 (筑波大数理物質) # 六角格子上の離散シュレーディンガー作用素の逆散乱問題について  
 Akzunori Ando (Univ. of Tsukuba) # Inverse scattering problem for discrete Schrödinger operators on the  
 hexagonal lattice