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

Functional Analysis

September 25th (Thu)   Conference Room IV

14:15–16:35

07-01-0004
1 Hiroaki Niikuni   ∗ Spectral band structure of periodic Schrödinger operators on generalized
        (Maebashi Inst. of Tech.)   degenerate zigzag nanotubes · 15

07-01-0015
2 Hironobu Sasaki (Chiba Univ.)   Spectral analysis for mean-field Schrödinger opearators · · · · · · · · · · · · 10
   Shoji Shimizu   (Tokyo Tech)
   Akito Suzuki   (Shinshu Univ.)

07-01-0033
3 Shougo Ito   (Shinshu Univ.)   The spectrum of a discrete Schrödinger operator with a non-decaying
   Akito Suzuki   (Shinshu Univ.)   potential · 15

07-01-0030
4 Hiroshi Ito   (Ehime Univ.)   The nonrelativistic limit for Dirac operators with a potential diverging
                                          at infinity · 15

07-01-0028
5 Mitsuteru Kadowaki (Ehime Univ.)   Asymptotic behavior in far field of the resolvent for wave propagation
   Hiroshi Isozaki (Univ. of Tsukuba)   in two-layered media · 15
   Michiyuki Watanabe (Niigata Univ.)

07-01-0017
6 Shinichiro Futakuchi (Hokkaido Univ.) Time-ordered exponential on the complex plane for unbounded opera-
   Kouta Usui   (Hokkaido Univ.)   tors and Gell-Mann–Low formula · 10

07-01-0020
7 Daiju Funakawa (Hokkaido Univ.)   Existence of ground states for a Wess–Zumino model · · · · · · · · · · · · · · 10

07-01-0029
8 Takahiro Hasebe (Hokkaido Univ.)   Cumulants for free Lie algebras and Campbell–Hausdorff formula · · · · 15
   Franz Lehner
        (Graz Univ. of Technology)

07-01-0008
9 Kenjiro Yanagi (Yamaguchi Univ.)   Uncertainty relations for non-hermitian type · 15

17:00–18:00   Talk invited by Functional Analysis Section

07-02-0003
   Tetsu Mizumachi (Kyushu Univ.)   Stability of line solitons for the KP-II equation

September 26th (Fri)   Conference Room IV

10:00–11:50

07-01-0026
10 Ryo Tabata (Hiroshima Univ.)   The behavior of $n \times n$ Immanants as $n \to \infty$ · · · · · · · · · · · · · · · · · · 15

07-01-0003
11 Hideto Nakashima (Kyushu Univ.)   Explicit formula of the basic relative invariants of homogeneous cones
                                        · 15

07-01-0005
12 Toshihiko Matsuki (Ryukoku Univ.) Classification of orthogonal multiple flag varieties of finite type · · · · · · 15

07-01-0006
13 Toshihiko Matsuki (Ryukoku Univ.) Orbits on orthogonal triple flag varieties · 15

07-01-0022
14 Atsumu Sasaki   (Tokai Univ.)   A Cartan decomposition for Cayley type homogeneous spaces · · · · · · · · 15

07-01-0032
15 Hideyuki Ishi   (Nagoya Univ.) ∗   Siegel type integral on a regular convex cone · 15

13:10–14:10   Talk invited by Functional Analysis Section

07-02-0001
Hiroshi Oda (Takushoku Univ.)   Connections between representation theories for real reductive Lie groups and graded Hecke algebras

<div align="center">

September 27th (Sat)   Conference Room IV

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9:00–12:00

07-01-0002
16   Hiromichi Miyake   On compactness in L^1 · 15

07-01-0007
17   Kazuyuki Wada (Hokkaido Univ.)   Existence of a ground state for a self-interaction model of a complex scalar field with spacial cut-off · 15

07-01-0010
18   Kei Ji Izuchi   (Niigata Univ.) *   Topological structure of the space of weighted composition operators
     Shûichi Ohno (Nippon Inst. of Tech.)   between different Hardy spaces · 15

07-01-0011
19   Shûichi Ohno (Nippon Inst. of Tech.) *   Composition operators related to the Dirichlet space · · · · · · · · · · · · · · 10

07-01-0034
20   Kouhei Izuchi (Yamaguchi Univ.)   Ranks of backward shift invariant subspaces of Hardy space over the bidisk · 15

07-01-0035
21   Yasuyuki Oka   A characterization of the tempered distributions supported by a regular
     (Kushiro Nat. Coll. of Tech.)   closed set on the Heisenberg group · 15

07-01-0013
22   Shigeru Furuichi (Nihon Univ.)   On bounds for relative operator entropies · 10

07-01-0014
23   Junichi Fujii (Osaka Kyoiku Univ.)   On basic operator entropies · 15

07-01-0016
24   Yuki Seo (Osaka Kyoiku Univ.)   Matrix power means due to Lawson–Lim–Pálfia for $1 < t < 2$ · · · · · · · 10

07-01-0019
25   Hiroaki Tohyama   Operator valued α-divergence and noncommutative ratio · · · · · · · · · · · 15
     (Maebashi Inst. of Tech.)
     Hiroshi Isa (Maebashi Inst. of Tech.)
     Masatoshi Ito (Maebashi Inst. of Tech.)
     Eizaburo Kamei
     Masayuki Watanabe
     (Maebashi Inst. of Tech.)

07-01-0025
26   Masaru Nagisa   (Chiba Univ.)   Characterization of diagonality of operators · 10
     Albania Nugraha Imam (Chiba Univ.)

14:15–16:45

07-01-0001
27   Kengo Matsumoto   *   Continuous orbit equivalence of topological Markov shifts and dynami-
     (Joetsu Univ. of Edu.)   cal zeta functions · 15
     Hiroki Matui   (Chiba Univ.)

07-01-0023
28   Yasushi Nagai   (Keio Univ.)   Distribution of patches in tilings and properties of spectrum of the corresponding dynamical systems · 15

07-01-0031
29   Takuya Takeishi (Univ. of Tokyo) ♭   Bost–Connes system for local fields of characteristic zero · · · · · · · · · · · 15

07-01-0024
30   Yuhei Suzuki (Univ. of Tokyo)   Amenable minimal Cantor systems of free groups arising from diagonal actions · 15

07-01-0021
31   Hiroyuki Osaka (Ritsumeikan Univ.)   The Jiang–Su absorption for inclusions of unital C*-algebras · · · · · · · · 15
     Tamotsu Teruya (Gunma Univ.)

07-01-0012
32   Yasuo Watatani (Kyushu Univ.)   Maximal abelian subalgebras of C^*-algebras generated by complex dy-
     Tsuyoshi Kajiwara (Okayama Univ.)   namical systems and continuous orbit equivalence · · · · · · · · · · · · · · · · · 15

3   Functional Analysis

17:00–18:00   Talk invited by Functional Analysis Section

07-02-0002
    Yasuhiko Sato   (Kyoto Univ.)[♭]   Classification theorem of C*-algebras and the Toms–Winter conjecture