

Functional Analysis

September 19th (Wed) Session Room IV

9:45–11:50

- 1 Kazunori Ando (Univ. of Tsukuba)[#] Inverse scattering theory for discrete Schrödinger operators on the hexagonal lattice 15
- 2 Hisashi Morioka (Univ. of Tsukuba)[#] Inverse scattering at a fixed energy for discrete Schrödinger operators
Hiroshi Isozaki (Univ. of Tsukuba) on the square lattice 15
- 3 Yuji Nomura (Ehime Univ.)[#] Landau levels of Schrödinger operators with periodic Aharonov–Bohm
Takuya Mine (Kyoto Inst. Tech.) magnetic fields on the hyperbolic plane 15
- 4 Toshihisa Kubo (Univ. of Tokyo)[#] Conformally invariant systems of second-order differential operators .. 20
- 5 Yoshinori Kametaka (Osaka Univ.)[#] The best constant of discrete Sobolev inequality on a small Fullerene
and Carbon nano tube 15
- 6 Jun Hong Ha (Korea Tech.)[#] Unique identification for linearized sine-Gordon equation 15
Semion Gutman (Univ. of Oklahoma)
- 7 Shin-ichi Nakagiri (Kobe Univ.)[#] Identifiability of advection-diffusion equations 15

13:00–14:00 Invited Talk by Research Section

- Kiyoomi Kataoka (Univ. of Tokyo)[#] A system of fifth-order partial differential equations describing a surface which contains several continuous families of circular arcs

September 20th (Thu) Session Room IV

9:30–11:50

- 8 Kengo Matsumoto (Joetsu Univ. of Edu.)^{*} Full groups of one-sided topological Markov shifts and classification of
Cuntz–Krieger algebras 15
- 9 Takahiro Sudo (Univ. of Ryukyus)[#] Corona rank for Banach or C^* -algebras 15
- 10 Rui Okayasu (Osaka Kyoiku Univ.)[#] Free group C^* -algebras associated with ℓ_p 15
- 11 Yusuke Isono (Univ. of Tokyo)[#] Weak exactness for C^* -algebras and application to condition (AO) ... 15
- 12 Norio Nawata (Chiba Univ.)[#] Fundamental group of uniquely ergodic Cantor minimal systems 15
- 13 Tsuyoshi Kajiwara (Okayama Univ.)[#] Ideals of the core of C^* -algebras associated with self-similar maps 15
Yasuo Watatani (Kyushu Univ.)
- 14 Hiroki Sako (Kyoto Univ.)^{*} Property A and the operator norm localization property for discrete
metric spaces 15
- 15 Takahiro Hasebe (Kyoto Univ.)[#] Cumulants for spreadability system 15
Franz Lehner (Graz Univ. of Tech.)

14:15–16:30

- 16 Masaru Nagisa (Chiba Univ.) * Characterization of the diagonality for operators 10
Takashi Itoh (Gunma Univ.)
- 17 Masaru Nagisa (Chiba Univ.) # Some operator monotone functions 10
Masato Kawasaki (Chiba Univ.)
- 18 Takeaki Yamazaki (Toyo Univ.) # On some matrix inequalities for the matrix power and Karcher means
Yongdo Lim (Kyungpook Nat. Univ.) 10
- 19 Yuki Seo (Osaka Kyoiku Univ.) # The Jensen inequality in an external formula 10
- 20 Mitsuru Uchiyama (Shimane Univ.) # The principal inverse of the gamma function 15
- 21 Keiichi Watanabe (Niigata Univ.) * An inequality between products of $x^p - 1$ 15
- 22 Kei Ji Izuchi (Niigata Univ.) * Sums of weighted composition operators on H^∞ 10
Shūichi Ohno (Nippon Inst. of Tech.)
- 23 Takuya Hosokawa (Ibaraki Univ.) * Differences of weighted composition operators from the Bloch space to
Shūichi Ohno (Nippon Inst. of Tech.) H^∞ 15

16:30–17:30 Invited Talk by Research Section

- Shūichi Ohno (Nippon Inst. of Tech.) * Topological structure of the space of weighted composition operators on H^∞

September 21st (Fri) Session Room IV

9:30–11:50

- 24 Masatoshi Enooto (Koshien Univ.) * Brick Hilbert representaions of the Kronecker quiver by perturbation of
Yasuo Watatani (Kyushu Univ.) a finite rank operator 15
- 25 Reiji Tomatsu (Hokkaido Univ.) # On a classification of Rohlin flows on von Neumann algebras 15
- 26 Satoshi Goto (Sophia Univ.) # On a mixed quantum double construction of subfactors 10
- 27 Satoshi Goto (Sophia Univ.) # On a generalization of quantum multiple construction of subfactors ... 10
- 28 Yoshikata Kida (Kyoto Univ.) * Orbit equivalence invariants for actions of Baumslag–Solitar groups ··· 15
- 29 Yoshikata Kida (Kyoto Univ.) * Stability in orbit equivalence for Baumslag–Solitar groups and Vaes
groups 15
- 30 Masafumi Sakao (Chiba Univ.) # The extension problem of discrete Abelian groups by hypergroups of
Tatsuya Tsurii (Osaka Pref. Univ.) order two 15
Satoe Yamanaka (Osaka Pref. Univ.)
Satoshi Kawakami (Nara Univ. of Edu.)
- 31 Akihito Wachi (Hokkaido Univ. of Edu.) * Capelli identities of odd type 15
- 32 Hiroshi Yamashita (Hokkaido Univ.) # Quantization of singular quaternionic nilpotent K -orbits 15
Fuhai Zhu (Nankai Univ.)

14:15–15:15 Invited Talk by Research Section

- Mutsumi Saito (Hokkaido Univ.) # Irreducible quotients of A -hypergeometric systems
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