

Applied Mathematics

March 21st (Sat) Conference Room VIa

9:50–12:00

- 09-99-0001
1 Nobuo Shindo (Kyoto Gaidai Nishi High School) 3-color resolution of the edges of maximum plane graph —by “peninsula” method— 10
- 09-01-0004
2 Kenta Noguchi (Keio Univ.) Control of cycle parities of quadrangulations 15
- 09-01-0032
3 Masato Mimura (Tohoku Univ.)* Cayley verifiable expander 15
- 09-01-0043
4 Takuya Ikuta (Kobe Gakuin Univ.)
Akihiro Munemasa (Tohoku Univ.) Complex Hadamard matrices coming from 4-class association schemes 15
- 09-01-0038
5 Kohei Yamada (Nagoya Univ.)
Masanori Sawa (Kobe Univ.)
Masakazu Jimbo (Nagoya Univ.) Graham and Lovász’s problem on the inertia of distance matrix and quasi-symmetric designs 10
- 09-01-0035
6 Ryoko Oishi-Tomiyasu (High Energy Accelerator Res. Organ.) Application of reduction theory of quadratic forms to a lattice determination problem in crystallography 15
- 09-01-0042
7 Akitoshi Kawamura (Univ. of Tokyo)
Makoto Soejima (Univ. of Tokyo) Simple strategies versus optimal schedules in multi-agent patrolling . . . 15
- 09-01-0016
8 Michiaki Kabe (Kanto Polytechnic Coll.) Solution for soil improvement problem 15

14:30–16:00

- 09-01-0007
9 Iwao Sato (Oyama Nat. Coll. of Tech.)
Norio Konno (Yokohama Nat. Univ.)
Etsuo Segawa (Tohoku Univ.)
Yusuke Higuchi (Showa Univ.) Quantum graph walk 15
- 09-01-0012
10 Norio Konno (Yokohama Nat. Univ.)
Masato Takei (Yokohama Nat. Univ.) On stationary measures for discrete-time quantum walks in one dimension 10
- 09-01-0011
11 Shunsuke Nakamura (Tokyo Univ. of Sci.)
Keiko Kotani (Tokyo Univ. of Sci.) The number of contractible edges in a 4-connected graph having a small number of edges not contained in triangles 15
- 09-01-0021
12 Kiyoshi Ando (Nat. Inst. of Information/JST ERATO) A forbidden subgraph condition for 5-contractible edges 15
- 09-01-0003
13 Kazuhiko Ushio (Kinki Univ.) Balanced C_7 -foil designs and related designs 15

16:10–17:10 Talk Invited by Applied Mathematics Section

- 09-02-0002
Midori Kobayashi (Univ. of Shizuoka) Dudeney’s round table problem —a survey—

March 22nd (Sun) Conference Room VIb

9:30–11:30

- 09-01-0028
14 Minoru Fujimoto (Seika Science Lab.)
Kunihiko Uehara (Tezukayama Univ.) Twin prime theorem fixed 15

09-01-0030	15	Minoru Fujimoto (Seika Science Lab.) Kunihiko Uehara (Tezukayama Univ.)	Legendre's conjecture	15
09-01-0005	16	Akira Saito (Nihon Univ.) Liming Xiong (Beijing Inst. of Tech.)	The Ryjáček closure and a forbidden subgraph	15
09-01-0020	17	Kiyoshi Yoshimoto (Nihon Univ.) Hui Du	On long disjoint paths joining two specified vertices and a vertex subset	15
09-01-0024	18	Shinya Fujita (Yokohama City Univ.) Gary MacGillivray (Univ. of Victoria) Tadashi Sakuma (Yamagata Univ.)	Safe set problem on graphs	10
09-01-0029	19	Shoichi Tsuchiya (Keio Univ.) Guantao Chen (Georgia State Univ.) Jie Han (Georgia State Univ.) Suil O (Georgia State Univ.) Songling Shan (Georgia State Univ.)	On spanning Halin subgraph	15
09-01-0040	20	Masataka Kaneko (Toho Univ.) Satoshi Yamashita (Kisarazu Nat. Coll. of Tech.) Kazushi Ahara (Meiji Univ.) Akira Iritani (Iwataminami High School) Setsuo Takato (Toho Univ.)	Effective TeX drawing with dynamic geometry software	15

13:00–13:50

09-01-0010	21	Kosuke Suzuki (Univ. of Tokyo)	Accelerating convergence and the tractability of multivariate integration for the Walsh spaces	15
09-01-0033	22	Norihiro Nakashima (Toyota Tech. Inst.) Hajime Matsui (Toyota Tech. Inst.)	A decoding algorithm for projective Reed–Muller codes by DFT and BMS algorithm	15
09-01-0034	23	Shin Harase (Tokyo Tech) Takamitsu Kimoto (Tokyo Tech)	Implementing 64-bit maximally equidistributed Mersenne Twister pseu- dorandom number generators	15

13:50–14:10

March 23rd (Mon) Conference Room VIa

10:00–11:30

09-01-0001	24	Shunzi Horiguchi (Niigata Sangyo Univ.)	Tsuchikura–Horiguchi–Murase–Halley method (Expansion of Halley Method) and the convergences II	10
09-01-0002	25	Shunzi Horiguchi (Niigata Sangyo Univ.)	Numerical Calculations of Convergences II of Tsuchikura–Horiguchi– Murase–Halley's method (Expansion of Halley's Method)	10
09-01-0039	26	Shy Der Lin (Chung Yuan Christian Univ.) H. M. Srivastava (Univ. of Victoria)	Some special properties and application of fractional calculus	15
09-01-0044	27	Pin-Yu Wang (Nanya Inst. of Tech.) ^b	The N-Fractional Calculus of The Functions $1/f(z)$ and $\log f(z)$, and Identities	10
09-01-0008	28	Fumio Nakajima (Iwate Univ.) [*]	Harmonic function property of the geometry of the surface of Mt. Fuji	15

14:30–16:00

09-01-0031

- 29 Ryuichi Ohori (Univ. of Tokyo) Optimization of digital nets for Walsh figure of merit with parameter of growth of derivatives 13

09-01-0017

- 30 Takehito Yoshiki (Univ. of Tokyo) Extra expansion of Walsh coefficients 15
Kosuke Suzuki (Univ. of Tokyo)

09-01-0036

- 31 Jin Hatamoto (Tokyo Nat. Coll. of Tech.) Hitting time distributions for diffeomorphisms with weak hyperbolic product structure 10

09-01-0014

- 32 Yoshihito Ogasawara (Waseda Univ.) On a primitive chaos 15
Hitoshi Nejo (Univ. of Yamanashi)
Artem Trifonov (Lomonosov Moscow State Univ.)

09-01-0025

- 33 Masaji Watanabe (Okayama Univ.) Modeling and simulation for exogenous type microbial depolymerization 15
Fusako Kawai (Kyoto Inst. Tech.)

16:15–17:15 Talk Invited by Applied Mathematics Section

09-02-0003

- Elliott Ginder (Hokkaido Univ.) Methods for approximation of constrained interfacial dynamics

March 24th (Tue) Conference Room VIa

9:45–11:45

09-01-0013

- 34 Hidenori Ogata (Univ. of Electro-Comm.) Approximations of complex analytic functions by the charge or dipole simulation method 15
Koya Sakakibara (Univ. of Tokyo)
Masashi Katsurada (Meiji Univ.)

09-01-0041

- 35 Akitoshi Takayasu (Waseda Univ.) A method of verified computations for solutions to semilinear parabolic equations 15
Makoto Mizuguchi (Waseda Univ.)
Takayuki Kubo (Univ. of Tsukuba)
Shin'ichi Oi (Waseda Univ./JST CREST)

09-01-0009

- 36 Yoshitaka Watanabe (Kyushu Univ.) Constructive norm bounds of Laplacian for second-order elliptic operators 15
Takehiko Kinoshita (Kyoto Univ.)
Mitsuhiro T. Nakao (Sasebo Nat. Coll. of Tech.)

09-01-0015

- 37 Daisuke Koyama (Univ. of Electro-Comm.) On the robustness of a hybridized DGFEM for nearly incompressible elasticity 15
Fumio Kikuchi (Univ. of Tokyo*)

09-01-0027

- 38 Hirofumi Notsu (Waseda Univ.) Error estimates of Galerkin-characteristics finite element schemes for natural convection problems 15
Masahisa Tabata (Waseda Univ.)

09-01-0019

- 39 Tomoya Kemmochi (Univ. of Tokyo) An application of discrete maximal regularity to the semilinear heat equation 15
Norikazu Saito (Univ. of Tokyo)

14:15–15:45

09-01-0018

- 40 Ippei Obayashi (Kyoto Univ./JST CREST) Formation mechanism of basin of attraction for simple bipedal walking models 15

09-01-0006

- 41 Takeshi Gotoda (Kyoto Univ.) The α point vortex system and enstrophy variations 15

09-01-0023

- 42 Kei Nishi (Hokkaido Univ.) On the motion of the two interacting interfaces of a pulse solution in a
Yasumasa Nishiura (Tohoku Univ.) bistable reaction-diffusion system 10
Takashi Teramoto
 (Asahikawa Medical Univ.)

09-01-0022

- 43 Sungrim Seirin Lee (Hiroshima Univ.) Application of Phase-field method for elucidating the pattern formation
 of life 15

09-01-0037

- 44 Masakazu Akiyama (Hokkaido Univ.) A mathematical model of planar cell polarity 15
Tomonori Ayukawa (Akita Univ.)
Masakazu Yamazaki (Akita Univ.)

16:00–17:00 Talk Invited by Applied Mathematics Section

09-02-0001

- Yuichiro Wakano (Meiji Univ.) Dynamics and its mathematical analysis in evolutionary biology