

Applied Mathematics

March 20th (Wed)

9:30–11:35

- 1 Atsuhiko Nakamoto [#] General extension to even triangulations 15
(Yokohama Nat. Univ.)
Kenta Ozeki
(Nat. Inst. of Information/JST ERATO)
Kenta Noguchi (Keio Univ.)
- 2 Atsuhiko Nakamoto [#] Generating theorem for even multi-triangulations on the torus 15
(Yokohama Nat. Univ.)
Tsubasa Yamaguchi
(Yokohama Nat. Univ.)
- 3 Atsuhiko Nakamoto [#] On 3-list-coloring of bipartite graphs on closed surfaces 15
(Yokohama Nat. Univ.)
Momoko Kobayashi
(Yokohama Nat. Univ.)
- 4 Atsuhiko Nakamoto [#] A cyclic 4-colorability of graphs on surfaces 10
(Yokohama Nat. Univ.)
Kenta Ozeki
(Nat. Inst. of Information/JST ERATO)
Kenta Noguchi (Keio Univ.)
- 5 Akira Saito (Nihon Univ.) [#] The local Chvátal–Erdős condition and 2-factors in graphs 15
- 6 Kenjiro Ogawa (Tokai Univ.) [#] On strict-semi-bound graph 10
Morimasa Tsuchiya (Tokai Univ.)
Satoshi Tagusari (Tokai Univ.)
- 7 Michitaka Furuya (Tokyo Univ. of Sci.) [#] Upper bounds on the diameter of domination dot-critical graphs with
given connectivity 15
- 8 Kazunori Matsuda (Nagoya Univ.) ^{*} Properties of weakly closed graphs 10

14:15–16:25

- 9 Ryota Matsubara [#] On trees with constraints on the leaf degree 10
(Shibaura Inst. of Tech.)
Haruhide Matsuda
(Shibaura Inst. of Tech.)
- 10 Shoichi Tsuchiya (Tokyo Univ. of Sci.) [#] On forbidden pairs implying a homeomorphically irreducible spanning
tree 15
Michitaka Furuya (Tokyo Univ. of Sci.)
- 11 Midori Kobayashi (Univ. of Shizuoka) [#] Dudeney’s Bench problem 10
Gisaku Nakamura (Univ. of Shizuoka*)
- 12 Kazuhiko Ushio (Kinki Univ.) [#] Balanced (C_9, C_{12}) -foil designs and related designs 15
- 13 Kiyoshi Ando (Univ. of Electro-Comm.) [#] Some degree sum and forbidden subgraph conditions for k -contractible
edges 15
- 14 Iwao Sato (Oyama Nat. Coll. of Tech.) [#] A generalized Bartholdi zeta function for a hypergraph 15

- 15 Kenji Kashiwabara (Univ. of Tokyo) [#] Fulkerson conjecture for cubic graphs, and clutter theory 15
- 16 Guantao Chen (Georgia State Univ.) [#] Clique minors, chromatic numbers for degree sequences in graphs 15
 Ryo Hazama (Keio Univ.)
 Katsuhiro Ota (Keio Univ.)

16:40–17:40 Talk invited by Applied Mathematics Section

- Jun Fujisawa (Keio Univ.) [#] On the existence of good structures in graphs

March 21st (Thu)

9:30–11:35

- 17 Naoki Matsumoto [#] The number of diagonal transformations in pentangulations on the
 (Yokohama Nat. Univ.) sphere 15
- 18 Masahiro Hachimori Discrete Voronoi games and related games on graphs, and Nash equi-
 (Univ. of Tsukuba) libria 15
- 19 Shinya Fujita (Maebashi Inst. of Tech.) [#] Revisit of Erdős–Gallai’s theorem on the circumference of a graph 10
 Linda Lesniak (Drew Univ.)
- 20 Yoshiyuki Mori (Okayama Univ. of Sci.) [#] A fast calculation of $a^{p-1} \equiv 1 \pmod{p^2}$ 10
 Ryuichi Sawae (Okayama Univ. of Sci.)
 Daisuke Ishi (Okayama Univ. of Sci.)
- 21 Yoshiyuki Mori (Okayama Univ. of Sci.) [#] On a calculation of the largest prime divisor of an odd perfect number
 Ryuichi Sawae (Okayama Univ. of Sci.) 10
 Miho Aoki (Shimane Univ.)
 Daisuke Ishii (Okayama Univ. of Sci.)
- 22 Yukiko Fukukawa (Osaka City Univ.) [#] Generalization of the Catalan number 10
- 23 Yutaka Sueyoshi (Nagasaki Univ.) ^{*} On the maximal value of break intervals of equitable round-robin tour-
 Ryuichi Harasawa (Nagasaki Univ.) naments with home-away assignments 20
 Aichi Kudo (Nagasaki Univ.)
- 24 Chie Nara (Tokai Univ.) [#] Affine classes of 3-dimensional parallelohedra —Their parametrization
 Jin-ichi Itoh (Kumamoto Univ.) and structure— 15
 Nikolai Dolbilin (Steklov Math. Inst.)

13:15–14:15 Talk invited by Applied Mathematics Section

- Hayato Chiba (Kyushu Univ.) [#] A spectral theory of linear operators on a Gelfand triplet and its
 application to the dynamics of coupled oscillators

March 22nd (Fri)

9:00–11:45

- 25 Hirotaka Ebisui (Oval Research Center) [#] Example of error and difficulty in hard-soft PG manage and color-phaze
 tecnology by Pachikuri multistructured mapping form using a sparial
 multi-phaze positon in stratified sosity 10
- 26 Shunzi Horiguchi [#] On relations between the enhancement of Tsuchikura–Horiguchi’s (Yoshi-
 (Niigata Sangyo Univ.) masu Murase–Newton type’s) recurrence formulas concerning algebraic
 equations and Horner method 15

- 27 Shan Der Lin[#] Laplace transform of the fractional derivative and its applications 15
(Chung Yuan Christian Univ.)
Chia-Hung Lu
(Chung Yuan Christian Univ.)
- 28 Fumio Nakajima (Iwate Univ.)^{*} A mathematical approach to the policy of Atomic energy 15
- 29 Takehiko Kinoshita (Kyoto Univ.)[#] A numerical verification of the invertibility for elliptic partial differential
Yoshitaka Watanabe (Kyushu Univ.) operators 15
Mitsuhiro T. Nakao
(Sasebo Nat. Coll. of Tech.)
- 30 Akitoshi Takayasu (Waseda Univ.)[#] Verified computations for semilinear elliptic boundary value problems
Xuefeng Liu (Waseda Univ.) on arbitrary polygonal domains 15
Shin'ichi Oishi
(Waseda Univ./JST CREST)
- 31 Mikio Murata[#] The direct method to transform parabolic differential equations into
(Tokyo Univ. of Agri. and Tech.) cellular automata 15
- 32 Koya Sakakibara (Meiji Univ.)[#] An application of a method approximating holomorphic functions by
Masashi Katsurada (Meiji Univ.) linear combinations of $1/(z - \zeta)$: calculating the inverse of conformal
Hidenori Ogata mappings 15
(Univ. of Electro-Comm.)
- 33 Takashi Sakajo[#] Word representation of streamline topologies for structurally stable
(Hokkaido Univ./JST CREST) vortex flows in multiply connected domains 15
Tomoo Yokoyama
(Hokkaido Univ./JST CREST)
- 14:15–16:30**
- 34 Takahito Kashiwabara (Univ. of Tokyo)[#] Some remarks on Navier–Stokes equations with leak boundary condition
. 15
- 35 Masahisa Tabata (Waseda Univ.)[#] Equivalence of an upwind FEM and a characteristics FEM 15
- 36 Kenta Uemichi (Kwansei Gakuin Univ.)[#] A mathematical model for comb construction of honeybees 15
Koichi Osaki (Kwansei Gakuin Univ.)
- 37 Masaji Watanabe (Okayama Univ.)[#] Study on microbial depolymerization processes of exogenous type 15
Fusako Kawai (Kyoto Inst. Tech.)
- 38 Hideki Murakawa (Kyushu Univ.)[#] On spatiotemporal patterns in a cell population model 15
Arnaud Ducrot (Univ. Bordeaux 2)
Frank Le Foll (Univ. de Le Havre)
Pierre Magal (Univ. Bordeaux 2)
Jennifer Pasquier (Univ. de Le Havre)
Glenn F. Webb (Vanderbilt Univ.)
- 39 Hiroko Yamamoto (Tohoku Univ.)[#] Concentration point in the ground state of a reaction-diffusion equation
Izumi Takagi (Tohoku Univ.) in heterogeneous media 15
- 40 Kazuyuki Yagasaki (Hiroshima Univ.)[#] Existence of horseshoe dynamics in an asymmetric heavy top 15
G. H. M. van der Heijden
(Univ. College London)
- 41 Yasuaki Hiraoka (Kyushu Univ.)[#] Protein structure analysis and persistent homology 15

16:45–17:45 Talk invited by Applied Mathematics Section

Takeshi Ohtsuka (Gunma Univ.)[#] A level set formulation for evolving spirals and their behavior in spiral crystal growth