Applied Mathematics

March 15th (Sat)　　Conference Room IX

09:30–11:50

09-01-0006
1   Kazuhiko Ushio　(Kinki Univ.)[♯]　Balanced C_4-foil designs and related designs · 15

09-01-0007
2   Iwao Sato (Oyama Nat. Coll. of Tech.)[♯]　A note on the discrete-time evolutions for quantum walk on a graph
    Norio Konno (Yokohama Nat. Univ.)　· 15
    Yusuke Higuchi　　(昭和大教養)
    Etsuo Segawa　(Tohoku Univ.)

09-01-0020
3   Jung-Rae Cho (Pusan Nat. Univ.)[♯]　Travel groupoids on infinite graphs · 10
    Jeongmi Park (Pusan Nat. Univ.)
    Yoshio Sano (Univ. of Tsukuba)

09-01-0021
4   Jung-Rae Cho (Pusan Nat. Univ.)[♯]　The non-confusing travel groupoids on a finite connected graph · · · · · · 10
    Jeongmi Park (Pusan Nat. Univ.)
    Yoshio Sano (Univ. of Tsukuba)

09-01-0011
5   Akira Saito　　　(Nihon Univ.)[♯]　Contraction-critical graphs with respect to independence number · · · · 15
    Michael D. Plummer (Vanderbilt Univ.)

09-01-0024
6   Atsuhiro Nakamoto　　　　　[♯]　Division problems on closed surfaces · 15
           (Yokohama Nat. Univ.)
    Kenta Ozeki
    (Nat. Inst. of Information / JST ERATO)
    Kenta Noguchi　　(Keio Univ.)

09-01-0027
7   Yusuke Suzuki (Niigata Univ.)[♯]　Reductional operations for polyhedral quadrangulations · · · · · · · · · · · · · 15

09-01-0046
8   Guantao Chen (Georgia State Univ.)[♯]　Plane triangulations without spanning Halin subgraphs · · · · · · · · · · · · · 15
    Hikoe Enomoto (Waseda Univ.)
    Kenta Ozeki
    (Nat. Inst. of Information / JST ERATO)
    Shoichi Tsuchiya (Tokyo Univ. of Sci.)

14:30–16:40

09-01-0033
9   Chie Nara　　　　(Tokai Univ.)[♯]　Transformability and reversibility of unfoldings of doubly-covered poly-
    Jin-ichi Itoh (Kumamoto Univ.)　hedra · 15

09-01-0032
10 Maki Furukado　(横浜国大経営)[♯]　The condition for the generation of the stepped surfaces in terms of the
    Shunji Ito　　　　(Toho Univ.)　modified Jacobi–Perron algorithm · 15
    Shin-ichi Yasutomi (Toho Univ.)

09-01-0055
11 Masato Mimura (Tohoku Univ.)[*]　Spehere equivalence, Banach spectral gaps, and extrapolation · · · · · · · · 12

09-01-0051
12 Masato Mimura (Tohoku Univ.)[*]　Multi-way isoperimetries and imprimitive group actions on finite graphs
    · 12

09-01-0010
13 Hidefumi Ohsugi (Rikkyo Univ.)[♯]　The maximum number of edges of an edge polytope · · · · · · · · · · · · · · · · 20
    Akihiro Shikama (Osaka Univ.)
    Takayuki Hibi　　(Osaka Univ.)
    Aki Mori　　　　(Osaka Univ.)

09-01-0013
14 Satoshi Murai (Yamaguchi Univ.)[♯]　On flag f-vectors of polyhedral complexes · 10
    Kohji Yanagawa (Kansai Univ.)

09-01-0039
15 Masahiro Hachimori   Hereditary-shellability and vertex decomposability of simplicial com-
                (Univ. of Tsukuba)   plexes $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

    Kenji Kashiwabara (Univ. of Tokyo)

09-01-0016
16 Masaya Tomie   (盛岡大文)♯ Poset structures for pattern avoiding set partitions $\cdots\cdots\cdots\cdots\cdots\cdots$ 10

16:50–17:50   Talk invited by Applied Mathematics Section
09-02-0002
    Yoshio Okamoto   ♯ Free edge lengths in plane graphs
        (Univ. of Electro-Comm.)

March 16th (Sun)   Conference Room IX

09:30–11:30
09-01-0012
17 Hirotaka Ebisui (Oval Research Center)♯ One elementary expression of Zeta(3) $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

09-01-0002
18 Michiaki Kabe (関東職業能力開発大)♯ How to detect scratches of sintered parts by using adjusted residuals of
                                    χ^2 test $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

09-01-0015
19 Yoshihiro Mizoguchi (Kyushu Univ.)♯ Formal proofs for automata and sticker systems $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

    Hisaharu Tanaka (Saga Univ.)

    Issei Sakashita (Kyushu Univ.)

    Shuichi Inokuchi (Kyushu Univ.)

09-01-0023
20 Yoshihito Ogasawara (Waseda Univ.)♯ On spaces from primitive chaos $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

    Shin'ichi Oishi (Waseda Univ.)

09-01-0037
21 Guillaume Bacquela (Nihon Univ.)♯ Offensive alliances in trees $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

    Yoshimi Egawa (Tokyo Univ. of Sci.)

    Shigeki Imamura (Nihon Univ.)

    Kenji Kimura (Tokyo Univ. of Sci.)

    Akira Saito   (Nihon Univ.)

09-01-0044
22 Yoshimi Egawa (Tokyo Univ. of Sci.)♯ Spanning trees with vertices having large degrees $\cdots\cdots\cdots\cdots\cdots\cdots$ 15

    Kenta Ozeki

    (Nat. Inst. of Information/JST ERATO)

13:00–14:30
09-01-0045
23 Akira Kamibeppu (Shimane Univ.)♯ On the boxicity of generalized Mycielski graphs $\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

09-01-0048
24 Valentin Borozan (Univ. Paris-Sud 11)♯ From edge-coloring to strong edge-coloring $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10

    Gerard Jennhwa Chang
            (National Taiwan Univ.)

    Nathann Cohen (Univ. Paris-Sud 11)

    Shinya Fujita (横浜市大国際総合)

    N. Narayanan
            (Indian Institute of Tech.)

    Reza Naserasr (Univ. Paris-Sud 11)

    Petru Valicov (Univ. Paris-Sud 11)

09-01-0014
25 Takehito Yoshiki (Univ. of Tokyo)♯ The decay of the Walsh coefficients of a function which may not be
                                    differentiable $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

09-01-0018
26 Kousuke Suzuki (Univ. of Tokyo)♯ WAFOM on abelian groups and the MacWilliams identity for the Dick
                                    weight $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

09-01-0053
27 Shin Harase   (Tokyo Tech)♯ Low-WAFOM point sets with small t-values for quasi-Monte Carlo
                                    integration $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

March 17th (Mon)   Conference Room IX

09:00–12:00

09-01-0004
28 Shunzi Horiguchi   ♯ Formulas to compare the convergence of Halley method and the ex-
        (Niigata Sangyo Univ.)   tended Halley method (Tsuchikura–Horiguchi–Murase–Halley method)
                                            (in the case of an equation) · 10

09-01-0005
29 Shunzi Horiguchi   ♯ Numerical calculations of the formulas to compare the convergence of
        (Niigata Sangyo Univ.)   Halley method and the extended Halley method (Tsuchikura–Horiguchi–
                                            Murase–Halley method) (in the case of an equation) · · · · · · · · · · · · · · · 10

09-01-0003
30 Hidetsugu Kohzaki (Kyoto Univ.)♯ A Study on the quality assurance of mathematics education for medical
                                         technologist/paramedics in Japan. · 15

09-01-0008
31 Takaaki Aoki   (Kyoto Univ.)♯ Some mathematical properties of the dynamically inconsistent Bellman
                                         equation: A note on the two-sided altruism dynamics · · · · · · · · · · · · · · · 15

09-01-0017
32 Fumio Nakajima (Iwate Univ.) * A mathematical approach to the economy of atomic power generation
                                         · 15

09-01-0019
33 Shy Der Lin   ♯ Caputo fractional derivative and its applications · · · · · · · · · · · · · · · · · · · 15
        (Chung Yuan Christian Univ.)

09-01-0025
34 Noriaki Umeda   (Meiji Univ.)♯ On non-well-definedness of the diffusive sign by the heat equation · · · · 15

09-01-0031
35 Hideo Kubo (Hokkaido Univ.)♯ Identifying dividend of underlying assets from option prices using
    Chao Chen   (Tohoku Univ.)   Tikhonov regularization · 15

09-01-0047
36 Naoharu Ito (Nara Univ. of Edu.)♯ A note on generalized Sylvester equations over Bezout domains · · · · · · 15

09-01-0030
37 Takamichi Sushida (Ryukoku Univ.)♯ Voronoi spiral tilings · 15
    Akio Hizume (Ryukoku Univ.)
    Yoshikazu Yamagishi (Ryukoku Univ.)

14:30–16:30

09-01-0050
38 Hideki Murakawa (Kyushu Univ.)♯ Mathematical models of cell-cell adhesion: diffusion or advection · · · · · 15

09-01-0043
39 Masakazu Akiyama (Hokkaido Univ.)♯ A mathematical model of planar cell polarity · 15
    Masakazu Yamazaki (秋田大医)

09-01-0009
40 Tatsuki Mori (Ryukoku Univ.)♯ Structure and stability of stationary solutions to a reaction-diffusion
    Kousuke Kuto   model for cell polarization · 15
        (Univ. of Electro-Comm.)
    Tohru Tsujikawa (Univ. of Miyazaki)
    Masaharu Nagayama (Hokkaido Univ.)
    Shoji Yotsutani (Ryukoku Univ.)

09-01-0052
41 Masaji Watanabe (Okayama Univ.)♯ Mathematical study on roll of microorganisms in microbial depolymer-
    Fusako Kawai (Kyoto Inst. Tech.)   ization processes · 15

09-01-0028
42 Masaharu Nagayama (Hokkaido Univ.)♯ Mathematical analysis for the collective motion of camphor disks · · · · 15
    Ken Wakai   (Kanazawa Univ.)
    Kei Nishi   (Hokkaido Univ.)
    Yasuaki Kobayashi (Hokkaido Univ.)
    Yumihiko Ikura (Hokkaido Univ.)
    Satoshi Nakata (Hiroshima Univ.)

09-01-0054
43 Kota Ikeda   (Meiji Univ.)♯ Jamming phenomena in collective motion of camphor boats in an an-
    Masaharu Nagayama   nular water channel ·· 15
      (JST CREST / Hokkaido Univ.)
    Akiyasu Tomoeda
          (JST CREST / Meiji Univ.)
    Shin-Ichiro Ei (Kyushu Univ.)

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

09-02-0003
    Karel Svadlenka (Kanazawa Univ.)♯ On the method of semidiscretization in time for nonlinear evolutionary
                                       problems

March 18th (Tue)   Conference Room IX

10:00–11:30

09-01-0036
44 Kiyohisa Tokunaga   ♯ Approximate values of a triangular double integral ················ 15
          (Fukuoka Inst. of Tech.)

09-01-0040
45 Koya Sakakibara (Meiji Univ.)♯ The dipole simulation method in a Jordan region with an analytic
                                    boundary ·· 15

09-01-0038
46 Guanyu Zhou (Univ. of Tokyo)♯ Error analysis of a finite volume scheme for the Keller–Segel system of
    Norikazu Saito (Univ. of Tokyo) chemotaxis ·· 15

09-01-0041
47 Elliott Ginder (Hokkaido Univ.)♯ The hyperbolic BMO algorithm ······························· 15
    Karel Švadlenka (Kanazawa Univ.)

09-01-0022
48 Khoji Ohtsuka (広島国際学院大情報)♯ Shape optimization using GJ-integral ························· 15

09-01-0029
49 Yoshihiro Saito   ♯ Improved Heun method for systems of stochastic differential equations
          (Gifu Shotoku Gakuen Univ.)   ··· 10

14:15–15:45

09-01-0049
50 Takaharu Yaguchi (Kobe Univ.)♯ On well-posedness of the weak form of the finite element exterior cal-
    Takuya Tsuchiya (Ehime Univ.) culus on manifolds with boundaries ························· 10

09-01-0001
51 Yoshitaka Watanabe (Kyushu Univ.)♯ An improvement of invertibility verifications for linear elliptic operators
    Takehiko Kinoshita (Kyoto Univ.) ··· 15
    Mitsuhiro T. Nakao
          (Sasebo Nat. Coll. of Tech.)

09-01-0026
52 Yoshiki Sugitani (Univ. of Tokyo)♯ A unilateral open boundary value problem for the Stokes equations
    Guanyu Zhou (Univ. of Tokyo) ··· 15
    Norikazu Saito (Univ. of Tokyo)

09-01-0035
53 Takiko Sasaki (Univ. of Tokyo)♯ Linearly implicit finite difference scheme for a nonlinear wave equation
    Norikazu Saito (Univ. of Tokyo) with application to approximation of the blow-up time ············· 15

09-01-0042
54 Shinya Uchiumi (Waseda Univ.)♯ Behavior of characteristics finite element solutions for small time incre-
    Masahisa Tabata (Waseda Univ.) ments ·· 15

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

09-02-0001
    Yoshitaka Watanabe (Kyushu Univ.)♯ Computer-assisted stability and instability proofs for the Orr–Sommerfeld
                                        probmem