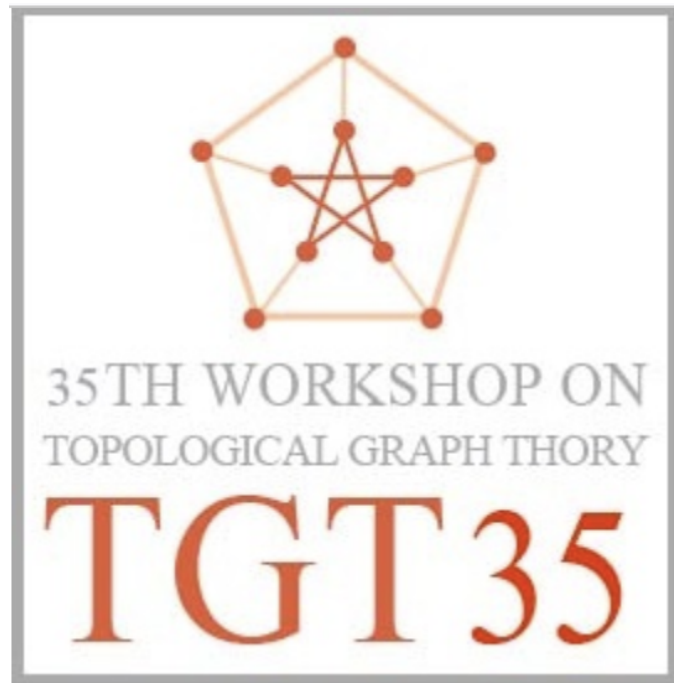


The 35th
Workshop on Topological Graph Theory
in Yokohama



Date: 7 (Tuesday)–10 (Friday), November 2023

Venue : Nippon Maru Memorial Park, Training center
2-1-1, Minatomirai, Nishi-ku, Yokohama, Japan 220-0012

TGT35 Program

Tuesday, November 7th.

9:00–9:30 : Registration

9:30–9:35 : Opening announcement

9:35–10:30 (15 minute talks)

Daiki Takahashi, *2-Connected spanning subgraphs of circuit graphs*

Shohei Koizumi, *Matching extendability of optimal 1-embeddings on closed surfaces*

Sen-Peng Eu, *On Permutation families of genus zero*

10:50–12:00 (20 minute talks)

Hoi Ping Luk, *Even and odd: Two tales on spherical tilings*

Kenta Noguchi, *Face sizes and the connectivity of the dual*

Anand Kumar Tiwari, *Semi-equivelar and 2-semi-equivelar maps*

Lunch break

13:40–14:30 **Invited talk**

Mark Ellingham, *Directed embeddings of digraphs*

14:50–16:00 (20 minute talks)

Seiya Negami, *Composite coverings of graphs and cryptography*

Dickson Annor, *Negami's conjecture for covers of small fold*

Solomon Lo, *Cycle lengths in cubic polyhedral graphs*

16:20–17:30 (20 minute talks)

Vergel T. Bilar, *First Zagreb co-energy of a total dominating set of graphs under some binary operations*

Mikio Kano, *Degree factors with red-blue coloring of regular graphs*

Kenta Ozeki, *Spanning trees in connected $K_{1,p}$ -free graphs*

18:00–20:00 : **Welcome party** at Presentation Room in Yokohama Port Museum

<https://www.nippon-maru.or.jp/english/>

Wednesday, November 8th.

9:35–10:30 (15 minute talks)

Takumi Kaneko, *Orthogonal partitions of an annulus and their graph representations*

Koshin Yoshida, *Degree conditions for partitioning of a bipartite graph into cycles and degenerated cycles*

Dennis B. Managbanag, *Forcing 2-metric dimension in the edge corona and lexicographic product of graphs*

10:50–12:00

Suhadi Wido Saputro, *On modular irregularity strength of broom graph*

Iwao Sato, *The second weighted alternating zeta function of a digraph*

Angelica Mae L. Mahistrado, *2-Resolving hop domination in graphs*

Lunch break

13:40–14:30 *Invited talk*

Jie Ma, *Supersaturation beyond color-critical graphs*

14:50–16:00 (20 minute talks)

Haruko Okamura, *2-Reducible cycle on 10 vertices through two vertices of distance 3 in $(2k + 1)$ -edge-connected graphs*

Jozef Širáň, *Classification of regular maps of a given surface: A brief survey*

Yusuke Suzuki, *Cubical flips in quadrangulations on closed surfaces*

16:20–17:30 (20 minute talks)

Min Yan, *Tiling of sphere by congruent polygons*

Bill Jackson, *Rigidity of triangulations of surfaces*

Naoki Matsumoto, *Kempe equivalence of graphs on non-orientable surfaces*

Thursday, November 9th.

9:35–10:30 (15 minute talks)

Masaki Kashima, *Degree product conditions for partitioning a graph into 2-connected subgraphs*

Khandoker Mohammed Mominul Haque, *Prime cordial labeling of Knodel graph $W_{3,n}$*

Remiko Iida, *Extending proper orientations for vertex weighted paths*

10:50–12:00 (20 minute talks)

Shunichi Maezawa, *Preorder induced by rainbow forbidden subgraphs*

Maria Andrea O. Bonsocan, *Transversal total hop domination in graphs*

Etsuo Segawa, *Stationary state of quantum walk reflected by the graph embedding on the orientable surfaces*

Lunch break

13:40–14:30 **Invited talk**

Ken-ichi Kawarabayashi, *Toward the directed graph minor theory*

14:50–16:00 (20 minute talks)

Soňa Pavlíková, *Characters of twisted fractional linear groups and enumeration of regular maps*

Terukazu Sano, *Connected vertex-arboricity and graphs on closed surfaces*

Hideaki Morita, *Graph zeta functions for the regular covering of a digraph*

16:20–17:30 (20 minute talks)

Shengjin Ji, *The saturation number of spanning trees with at most three leaves*

Youngsik Huh, *Crossing number and ΔY -move*

Kengo Enami, *Surface-immersions and 4-regular graphs on surfaces*

18:00–20:00 : **Banquet** at “Jin” Noge Nomi Shukaijo (「陣」野毛飲み集会所)

<https://zin-nogenomisyuukaijyo.owst.jp/>

Friday, November 10th.

9:35–10:30 (15 minute talks)

Kyosuke Wakayama, *Rectangular drawing of cubic graphs on an annulus*

Masahiro Sanka, *Improvement of conditions for hamiltonicity of 1-tough
($K_2 \cup kK_1$)-free graphs*

Jinze Hu, *The saturation number of cliques*

10:50–11:45 (15 minute talks)

Masaaki Ohkubo, *Nim and Grundy numbers*

Atsunori Masuda, *K_n -minors and K_n -subdivisions in optimal 1-planar graphs*

Baoxin Li, *The cycle rank conjecture on cubic graphs*

Lunch break

13:40–14:30 **Invited talk**

Tomáš Kaiser, *Criticality in Sperner's Lemma*

14:50–16:00 (20 minute talks)

Shin-ichi Tanigawa, *Maximal matroids of graphs*

Raiji Mukae, *Irreducible edge-maximal maps on the projective plane and the torus*

Yoshihiro Asayama, *Variations of polychromatic 2-coloring of plane graphs*

16:20–17:10 (20 minute talks)

Mao Yaping, *From Graph Ramsey Numbers to Combinatorial Ramsey Theory*

Atsuhiko Nakamoto, *Zonotopal quadrangulations of the projective space*