Advances in General Topology and their Problems

RIMS meeting

June 20 – 22, 2018

Room 111, Research Institute for Mathematical Sciences, Kyoto University

Access: http://www.kurims.kyoto-u.ac.jp/en/access-01.html

Program

(* denotes the speaker)

Jun. 20 (Wed.)

13:50 Opening

14:00～14:30

Yasser F. Ortiz-Castillo (Instituto de Matemática e Estatística, Universidade de São Paulo)
Artur Hideyuki Tomita (Instituto de Matemática e Estatística, Universidade de São Paulo)
Takamitsu Yamauchi* (Graduate School of Science and Engineering, Ehime University)
 Higson compactifications and Wallman-type compactifications

14:45～15:15 **Hayato Imamura** (Faculty of Sciences and Engineering, Waseda University)
 A simple construction of non-planar one-dimensional continua as generalized inverse limits

15:30～16:00 **Yasushi Hirata** (Faculty of Engineering, Kanagawa University)
 On C^*-, C-, P-embeddings and weakly normal ultrafilters

16:15～16:45 **Yasushi Hirata**, **Yukinobu Yajima*** (Faculty of Engineering, Kanagawa University)
 Undecidability of the cardinality of C^*-embedded discrete subsets in products of natural numbers

Jun. 21 (Thurs.), morning session

9:00～9:30 **Takamichi Sato** (Faculty of Sciences and Engineering, Waseda University)
 Schreier coset graphs of Baumslag-Solitar groups

9:45～10:15

Dmitri Shakhmatov (Graduate School of Science and Engineering, Ehime University)
Victor Hugo Yañez* (Graduate School of Science and Engineering, Ehime University)
 The algebraic small subgroup generating property

10:30～11:00 **Nicolo Zava** (Department of Mathematical, Computer and Physical Sciences, University of Udine)
 An introduction to coarse hyperspaces: some geometric properties and applications to groups

11:15～11:45 **Tomoo Yokoyama** (Department of Mathematics, Kyoto University of Education)
 Analysis of dynamical systems using lower separation axioms

Jun. 21 (Thurs.), afternoon session

13:15〜13:45 **Zheng Chong** (Faculty of Sciences and Engineering, Waseda University)
　Structural Analysis of Amorphous Material with Persistent Homology

14:00〜14:30 **Yoshito Ishiki** (Graduate School of Pure and Applied Sciences, University of Tsukuba)
　Cardinality of quasi symmetric equivalent classes of Cantor metric spaces

14:45〜15:15 **Takumi Yokota** (Research Institute for Mathematical Sciences, Kyoto University)
　Convergence and concentration of metric measure spaces

15:30〜16:00 **Kaori Yamazaki** (Takasaki City University of Economics)
　Monotone operators for vector-valued maps and real-valued functions

16:15〜16:45 **Hisao Kato** (Institute of Mathematics, University of Tsukuba)
　Topological entropy and a characterization of graph-like continua containing indecomposable continua

Jun. 22 (Fri.)

9:30〜10:00 **Koichi Motooka** (Graduate School of Science and Engineering, Ehime University)
　Weak selections and countable compactness

10:15〜10:45
Alejandro Dorantes-Aldama (Universidad Nacional Autónoma de México, Department of Mathematics)
Dmitri Shakhmatov* (Ehime University, Graduate School of Science and Engineering)
　A factorization theorem for weak α-favourability

11:00〜11:30 **Toshimichi Usuba** (School of Fundamental Science and Engineering, Waseda University)
　G_δ-topology and compact cardinals

11:45〜12:15 **Kohzo Yamada** (College of Education, Academic Institute, Shizuoka University)
　Fréchet-Urysohn subspaces and k-subspaces of free topological groups

Organizer: Kotaro Mine (Faculty of Engineering, Kanagawa University)