RIMS Workshop

Research on Finite Groups and Their Representations, Vertex Operator Algebras, and Algebraic Combinatorics

Organizer: Hiroki Shimakura (Tohoku University)

Date: January 5 (Tue) – 8 (Fri), 2016
Venue: Room 420, Research Institute for Mathematical Sciences, Kyoto University

Program

January 5 (Tue)

14:00–14:50 Kazuya Kawasetsu (University of Tokyo)
W-algebras with non-admissible levels and the Deligne exceptional series

15:00–15:50 Yusuke Arike (University of Tsukuba)
Minimal models and modular linear differential equations of order 4

15:55–16:25 Tomonori Hashikawa (Tohoku University)
Conformal designs and minimal conformal weight spaces of SVOAs

16:30–17:00 Naoki Genra (Kyoto University)
Free fields realization of W-algebras

January 6 (Wed)

10:00–10:50 Naoki Chigira (Kumamoto University)
A 45-dimensional representation of $M_{12}$

11:00–11:50 Koji Nuida (AIST / JST PRESTO Researcher)
Polynomial expressions of carries in $p$-ary arithmetics

12:00–12:30 Sho Kubota (Tohoku University)
New strongly regular graphs with the same parameters as the symplectic graph

14:00–14:50 Koichi Betsumiya (Hirosaki University)
Triply even codes constructed from distance regular graphs

15:00–15:50 Nur Hamid (Kanazawa University) · Manabu Oura (Kanazawa University)
Terwilliger algebras of some group association schemes

16:00–16:50 Yuki Irie (Chiba University)
$p$-saturated Welter’s game
January 7 (Thu)

10:00–10:50 Hiroshi Nozaki (Aichi University of Education) 
On the largest subsets avoiding the diameter of $(0, 1, -1)$-vectors

11:00–11:50 Masashi Shinohara (Shiga University) 
Distance sets and Kneser’s theorem

12:00–12:30 Yuta Kozakai (Tokyo University of Science) 
Two-sided tilting complexes for blocks with cyclic defect groups

14:00–14:50 Yuichiro Fujiwara (Chiba University) 
Algebraic and probabilistic combinatorics for robust stabilizer quantum error correction

15:00–15:50 Osamu Shimabukuro (Nagasaki University) 
Modular adjacency algebras and standard modules of wreath products of complete graphs

16:00–16:50 Farrokhi Mohammad (Mурoran Institute of Technology) 
Cayley graphs with forbidden subgraphs

January 8 (Fri)

10:00–10:50 Shigeo Koshitani (Chiba University) 
Endo-trivial modules for finite groups with dihedral Sylow 2-subgroups

11:00–11:30 Yoshihiro Otokita (Chiba University) 
Blocks of finite groups

11:40–12:10 Taro Sakurai (Chiba University) 
Loewy structure as a $q$-analog of composition factors

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