



RIMS Workshop

Cohomology Theory of Finite Groups and Related Topics

Organizers: Akihiko Hida (Saitama University)
Masaki Kameko (Shibaura Institute of Technology)

February 14-16, 2024

Research Institute for Mathematical Sciences, Kyoto University, JAPAN

Program

Wednesday, February 14

- 13:30-14:20 Hyoue Miyachi (Osaka Metropolitan University)
On two reciprocities of Hecke algebras
- 14:30-15:20 Yuya Kojima (Kindai University)
A deflation map and summations of element orders of finite groups
- 15:40-16:30 Hiroki Sasaki (Hokkaido University)
Permutation modules and source algebras of block ideals

Thursday, February 15

- 9:30-10:20 Yuta Kozakai (Tokyo University of Science), Arashi Sakai (Nagoya University)
A brick version of Clifford's theorem
- 10:30-11:20 Aaron Chan (Nagoya University)
Irreducible representations of the symmetric groups from slash homologies of p -complexes
- 13:30-14:20 Koki Yanagida (Tokyo Institute of Technology)
The Dijkgraaf-Witten invariant in topological K-theory
- 14:30-15:20 Ryouyuke Fujita (University of Fukui)
On the homotopy properties of p -subgroup posets
- 15:40-16:30 Shigeru Takamura (Kyoto University)
Higher order structures on groups and their geometry

Friday, February 16

- 9:30-10:10 Shuji Fujino (Tokyo University of Science), Yuta Kozakai (Tokyo University of Science), Kohei Takamura (Tokyo University of Science)
Two-sided tilting complexes for generalized Brauer tree algebras
- 10:20-11:00 Naoya Hiramae (Kyoto University)
On τ -tilting finiteness of group algebras
- 11:10-11:50 Shigeo Koshitani (Chiba University)
Principal 2-blocks of finite groups with wreathed Sylow 2-subgroups
- 13:30-14:10 Hiroaki Taguchi (Tokyo University of Science)
Relative projective covers of modules over principal blocks of finite groups with metacyclic Sylow subgroups
- 14:20-15:00 Kyoichi Suzuki (Tokyo University of Science)
Relative stable equivalences of Morita type for blocks of finite groups and its application
- 15:10-15:50 Akihiko Hida (Saitama University)
Characters and conjugacy classes of split extensions of finite groups