RIMS Workshop

Cohomology Theory of Finite Groups and Related Topics

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

February 18-20, 2015
Research Institute for Mathematical Sciences, Kyoto University, JAPAN

Program

Wednesday, February 18

13:00-13:50 Yutaka Yoshii (National Institute of Technology, Nara College)
A direct sum decomposition of the $kG(p^r)$-submodule generated by the highest weight vector of a certain Weyl G-module

14:00-14:50 Jacques Thévenaz (École polytechnique fédérale de Lausanne)
The algebra of essential relations on a finite set

15:10-16:00 Daiki Obara (Tokyo University of Science)
Hochschild cohomology ring modulo nilpotence of finite dimensional algebras

16:10-16:40 Mayu Tsukamoto (Osaka City University))
Hochschild cohomology of q-Schur algebras

Thursday, February 19

9:20-9:50 Ayako Itaba (Tokyo University of Science)
On the decomposition of the Hochschild cohomology group of a monomial algebra satisfying a separability condition

10:00-10:50 Toshiyuki Akita (Hokkaido University)
Vanishing theorems for the homology of Coxeter groups and their alternating subgroups

11:00-11:50 Serge Bouc (LAMFA-CNRS, Université de Picardie-Jules Verne)
Correspondence functors

13:30-14:00   Tomohiro Itagaki (Tokyo University of Science)
              Notes on the Hochschild homology dimension and truncated cycles

14:10-15:00   Jacques Thévenaz (École polytechnique fédérale de Lausanne)
              Torsion endo-trivial modules

15:20-15:50   Masaki Kameko (Shibaura Institute of Technology)
              On the cycle map of a finite group

16:00-16:30   Nobuaki Yagita (Ibaraki University)
              The splitting of cohomology of p-groups with p-rank 2

Friday, February 20

 9:10-9:40   Hiroki Ishioka (Tokyo University of Science)
              Saturated fusion systems and Brauer indecomposability of Scott modules

 9:50-10:30   Hiroki Sasaki (Shinshu University)
              Module structure of source algebras and cohomology of block algebras

10:40-11:10   Tetsuro Okuyama (Hokkaido University of Education)
              Remarks on the cuspidal simple module of $GL(p,q)$ over a field of
              characteristic p with $p|q-1$

11:20-12:10   Serge Bouc (LAMFA-CNRS, Université de Picardie-Jules Verne)
              Extensions of simple cohomological Mackey functors

13:30-14:00   Masato Sawabe (Chiba University)
              Subgroup complexes of nilpotent subgroups

14:10-14:40   Masao Kiyota (Tokyo Medical and Dental University)
              On Cartan matrices determined by the dimensions of simple modules

15:00-15:30   Tomoyuki Wada (Tokyo University of Agriculture and Technology)
              Numbers of irreducible Brauer characters of height 0 in 2-blocks of finite
              groups

15:40-16:30   Atumi Watanabe (Kumamoto University)
              On the work of Masafumi Murai