

The 28th Symposium on Algebraic Combinatorics

Dates: June 20(Mon)–June 22(Wed), 2011

Place: Oita University, Dannoharu Campus

Organizer: K. Akiyama(Fukuoka Univ., email:akiyama@fukuoka-u.ac.jp)

C. Suetake(Oita Univ., email:suetake@csis.oita-u.ac.jp)

M. Tanaka(Sojo Univ., email:mtanaka@ed.sojo-u.ac.jp)

June 20, Monday

14 : 00 – 14 : 50 M.Kiyota(Tokyo Medical and Dental Univ.), T. Okuyama
(Hokkaido Univ. of Education Asahikawa Campus), T. Wda(Tokyo
Univ. of Agriculture and Technology)

The heights of irreducible Brauer characters in 2-blocks of the
symmetric groups

15 : 00 – 15 : 30 T. Yoguchi(Chiba Univ.)

On sharp characters of rank 2

15 : 40 – 16 : 10 N. Iiyori(Yamaguchi Univ.)

A theorem on monomials over groups and the classification of finite
simple groups.

16 : 20 – 16 : 50 N. Chigira(Kumamoto Univ.)

Rudvalis group and codes

17 : 00 – 17 : 30 Y. Irie(Chiba Univ.)

On groups generated by mutations of graphs

June 21, Tuesday

10 : 00 – 10 : 50 T. Yoshida(Prof. Emeritus at Hokkaido Univ.)

Random walks on finite groups and applications to discrete
statistics

11 : 00 – 11 : 30 T. Asai(Kinki Univ.), T. Niwasaki(Ehime Univ.)
An extension of a conjecture on crossed homomorphisms of finite groups

11 : 40 – 12 : 10 I. Sato(Oyama National College of Technology)
Weighted scattering matrix of a regular covering of a graph

12 : 20 – 12 : 50 H. Nozaki(Tohoku Univ.), M. Shinohara
(Suzuka National College of Technology)
A characterization of strongly regular graphs from Euclidean representations of graphs

14 : 30 – 15 : 20 Richard M. Wilson(California Institute of Technology)
Diagonal forms for incidence matrices associated with t -uniform hypergraphs

15 : 40 – 16 : 10 M. Jimbo(Nagoya Univ.), K. Shiromoto(Kumamoto Univ.)
Mutally orthogonal partial t -designs over \mathbb{C} related to quantum jump codes

16 : 20 – 16 : 50 T. Sumi(Kyushu Univ.), T. Sakata (Kyushu Univ.),
M. Miyazaki(Kyoto Univ. of Education)
Existence and construction of absolutely nonsingular tensors

17 : 00 – 17 : 30 N. Nakagawa(Kinki Univ.)
On planar functions and bent functions

Conference dinner at Oita Univ.(18:00-20:00)

June 22, Wednesday

10 : 00 – 10 : 50 Y. Hiraoka(Kyushu Univ.)
Approximate maximum likelihood decoding and its combinatorial structure

11 : 00 – 11 : 30 H. Shimakura(Aichi Univ. of Education)
Kleinian codes and vertex operator algebras associated with even lattices

13 : 10 – 13 : 40 S. Suda(Tohoku Univ.)
A cross intersection families based on semidefinite programming

13 : 50 – 14 : 20 Y. Hiramine(Kumamoto Univ.)
On difference matrices with respect to cosets
(joint work with C. Suetake)

14 : 30 – 15 : 00 H. Taniguchi(Kagawa National College of Technology)
On a description of the Buratti-Del Fra dual hyperoval and its
quotient