### RIMS Joint Research on

# Algebraic Coding Theory, Combinatorial Designs and Related Areas

Research Institute for Mathematical Sciences, Kyoto University, Japan

Organizer: Koichi Betsumiya (Hirosaki University)

Access:	http://www.kurims.kyoto-u.ac.jp/en/access-01.html
	Kitashirakawa, Kyoto, 606-8502, Japan
Place:	Room 420, RIMS, Kyoto University
Date:	March 7, $2011(Mon)$ — March 9, $2011$ (Wed)

## Program

#### March 7, Monday

10:00 - 11:00	Satoshi Shinohara (Meisei University)
	Optical orthogonal codes – construction and search methods
11:15 - 12:15	Ying Miao (Tsukuba University)
	Anti-collusion codes and tracing algorithms for
	multimedia fingerprinting
14:00 - 15:00	Koji Momihara (University of Tsukuba)
	Divisible difference families over Galois rings with
	characteristic 4
15:15 - 16:15	Tadashi Wadayama (Nagoya Institute of Technology)
	On permutation codes based on linearly constrained
	permutation matrices

#### March 8, Tuesday

09:00 - 10:00	Hidehiro Shinohara (Osaka University) On some solutions of $XY = J + I$
10:15 - 11:15	Masatake Hirao (Nagoya University) On Euclidean design and its probabilistic application
11:30 - 12:30	Masanori Sawa (Nagoya University) Unifying some known constructions of combinatorial 3-designs and its application to the theory of cubature formula
14:00 - 15:00	Keisuke Shiromoto (Kumamoto University) Quantum information theory and combinatorial design
15:15 - 16:15	Tadashi Wadayama (Nagoya Institute of Technology) Codes and polytopes
March 9, Wedne	sday
10:00 - 11:00	Shigeo Koshitani (Chiba University) Recent progress in representations of finite groups
11:15 - 12:15	Rebecca Waldecker (University of Halle, Germany) The $Z_p^*$ -project
14:00 - 15:00	Hajime Matsui (Toyota Technological Institute) On generalized quasi-cyclic codes—their basic identities and construction
15:15 - 16:15	Vladimir Tonchev (Michigan Technological University, USA) Affine geometry designs, polarities, and related codes

Web page for this joint research:

http://www.st.hirosaki-u.ac.jp/~betsumi/rims2011/.