Workshop on Statistical Designs and Related Combinatorics 2014

Dates: December 13 to 15, 2014
Venue: Kinosaki International Arts Center

Program
December 13

１３：３０〜１３：５０　　Tetsuji Taniguchi（Hiroshima Inst. Tech.）
　　　　　　　Hoffman graphs with the smallest eigenvalue at least -3

１３：５０〜１４：０５　　Kazutaka Isaka（Nagoya Univ.）
　　　　　　　Optimal combinatorial structure in group testing with erasures

１４：０５〜１４：２５　　Kumi Kobata（Kinki Univ.）
　　　　　　　Enumeration of 2-connected graphs whose complement is also
　　　　　　　2-connected

１４：３５〜１４：５０　　Lingfeng Chen（Nagoya Univ.）
　　　　　　　Low conflict codes with weight 4 and conflict 2

１４：５０〜１５：１０　　Mieko Yamada（Tokyo Woman's Christian Univ.）
　　　　　　　Menon-Hadamard difference sets obtained from a local field by
　　　　　　　natural projections

１５：１５〜１５：３０　　Jun Asahina（Gifu Univ.）
　　　　　　　A new series of optimal tight conflict-avoiding codes of odd
　　　　　　　length and weight 3

１５：３０〜１５：５０　　Yuichiro Fujiwara（Caltech）
　　　　　　　TBA

１６：００〜１６：５０　　Ryoh Fuji-Hara（Univ. Tsukuba）
　　　　　　　Classification of Authentication codes and a new model

December 14

９：１５〜９：３０　Kohei Yamada（Nagoya Univ.）
A Graham-Lovász's problem on distance matrices of
graphs and affine resolvable designs

９：３０〜９：５０　Chin-Mei Fu (Tamkang Univ.)
Four-cycle systems with four-regular leaves

９：５０〜１０：０５　Yuuki Kageyama（Osaka Prefecture Univ.）
Geometric construction of optimal linear codes

１０：１５〜１０：３５　Shinya Fujita（Yokohama City Univ.）
Covering problem on edge-colored hypergraphs

１０：３５〜１０：５０　Hitoshi Kanda（Osaka Prefecture Univ.）
On the 3-extendability of quaternary linear codes

１０：５０〜１１：１０　Hung-Lin Fu (National Chiao Tung Univ.)
Learning a hidden hypergraph

１１：２０〜１２：００　Naoyuki Tamura（Kobe Univ.）
SAT solver and its application to combinatorial problems

１３：３０〜１３：４５　Shohei Satake（Nagoya Univ.）
Asymmetry of digraphs – A digraph analogue of a theorem
of Erdős-Rényi

１３：４５〜１４：０５　Kazuki Matsubara（Matsunaga High School）
Some existence of pairwise additive cyclic BIB designs with
block size 2 and 3

１４：１０〜１４：２５　Syunpei Ishi （Kumamoto Univ.）
Codes from complete bipartite graphs

１４：２５〜１４：４５　Ying Miao (Univ. Tsukuba)
On an extension of collaboration distance

１４：５５〜１５：４５　Sanpei Kageyama（Hiroshima Inst. Tech.）
On the Kageyama number in forty-four years

１５：５５〜１８：２０　Free discussion

１８：３０〜　**Banquet**　（KKR Kinosaki Gembu）

December 15

９：３０〜９：４５　Xiao-Nan Lu（Nagoya Univ.）
　　　　Affine-invariant quadruple systems and related number
　　　　theoretical conjecture

９：４５〜１０：０５　Koji Momihara（Kumamoto Univ.）
　　　　New projective two-intersection sets and related Hadamard
　　　　difference sets

１０：０５〜１０：２０ Satoshi Noguchi（Nagoya Univ.）
　　　　q-ary cyclic codes with large minimum distance and their
　　　　relation to combinatorial designs

１０：３０〜１０：５０　Hiroshi Yumiba（Inter. Inst. Nat. Sci.）
　　　　Existence conditions for balanced fractional 2^m factorial
　　　　designs of resolution $\mathrm{R}^*(\{1\}|\Omega_\ell)$ with $N < \nu_\ell(m)$

１０：５０〜１１：０５　Yoshitaka Koga（Kumamoto Univ.）
　　　　A MacWillams equivalent theorem for higher weights

１１：１０〜１１：２５　Shoko Chisaki（Tokyo Univ. Science）
　　　　Some existence of perfect difference systems of sets

１１：２５〜１１：４５　Akihiro Munemasa（Tohoku Univ.）
　　　　A parametric family of complex Hadamard matrices

１１：４５〜１１：５０　Closing

Organizers:
Ying Miao (Univ. Tsukuba)
Masanori Sawa (Kobe Univ.)
Masatake Hirao (Aichi Prefectural Univ.)
Kohei Yamada (Nagoya Univ.)
Xiao-Nan Lu (Nagoya Univ.)