Japan-Korea Workshop on

Algebra and Combinatorics
January 24-25, 2013

Program

January 24(Thursday) at Room 2 in ACROS Fukuoka
Opening Speech: **Yoshihiro Mizoguchi**

Chair**: Akihiro Munemasa**
Ferenc Szöllősi(Tohoku University)
Modular combinatorial designs and Hadamard matrices modulo 5
Gary Greaves(Tohoku University)
Minimal polynomials of integer symmetric matrices

Chair: **Jung Rae Cho**
Ryuzaburo Noda
Some bounds for the number of Blocks
Takao Komatsu(Hirosaki University)
Poly-Cauchy numbers and their combinatorial properties

Chair:**Hyun Kwang Kim(POSTECH)**
Jong Yoon Hyun(Ewha Womans University)
A new family of strongly regular graphs using weakly regular
p-ary bent functions
Phan Thanh Toan(POSTECH)
Counting methods and upper bounds on sizes of codes

January 25(Friday) at Room 2 in ACROS Fukuoka
Chair: **Eiichi Bannai**
Xiao – Dong Zhang(Shanghai Jiao Tong University)
The Dirichlet eigenvalues of graphs and the Faber-Krahn Inequality
Shun'ichi Yokoyama(Kyushu University/JSTCREST)
Developments in Computer Algebra Research: the Next Generation

Chair: **Tatsuro Ito**
Joon Yop Lee(POSTECH)
Multidimensional matrices uniquely recovered by their lines
Satoshi Tsujimoto(Kyoto University)
Dunkl shift operators and Bannai-Ito polynomials

Chair: **Jack Koolen**
Andreas Holmsen(KAIST)
Generalized wiring diagrams, realization spaces, and configurations
of convex sets
Jon-Lark Kim(Sogang University)
A new class of error-correcting codes for Boolean masking
of crypto-graphic computations

Closing Speech **Mitsugu Hirasaka**

Organizing Committee:
Eiichi Bannai(Shanghai Jiao Tong University)
Jung Rae Cho(Pusan National University)
Mitsugu Hirasaka(Pusan National University)
Tatsuro Ito(Kanazawa University)
Hyun Kwang Kim(POSTECH)
Jack Koolen(POSTECH)
Yoshihiro Mizoguchi(Kyushu University)
Akihiro Munemasa(Tohoku University)

Place:Seminar Room 2 in ACROS Fukuoka Foundation
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(http://www.acros.or.jp/english/access/)

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