The 14th Algebraic Combinatorics Symposium IN HONOR OF PROFESSOR MICHIO SUZUKI'S 70TH BIRTHDAY

International Christian University, Mitaka, Tokyo, JAPAN

July 14 - 17, 1997

PROGRAM

July 14 (Monday)

- 9:00 9:50 Walter Feit (Yale University) Integral Representations of Weyl Groups and Related Topics
- 10:10 11:00 Michael Aschbacher (California Institute of Technology) Quasithin Groups
- 11:20 12:10 Paul J. Flavell (The University of Birmingham) Solubility Criteria for Finite Groups
- 13:40 14:30 Alexander A. Ivanov (Imperial College) A Cover of the 3-local Geometry of Co_1
- 14:40 15:10 Miller Maley (Princeton University) Hall Polynomials for Classical Groups
- 15:40 16:30 Eiichi Bannai (Kyushu University) Codes over Finite Rings and Finite Abelian Groups (A Survey)
- 16:40 17:30 Hiroshi Suzuki (International Christian University) Problems of Distance-Regular Graphs and Related Topics (A Survey)

July 15 (Tuesday)

- 9:00 9:50 Toshiaki Shoji (Science University of Tokyo) Representations of Finite Chevalley Groups
- 10:10 11:00 Tomoyuki Yoshida (Hokkaido University) Exponential Formulas Related to Finite Groups and Toposes
- 11:20 12:10 Gernot Stroth (Martin-Luther-Universität Halle) Small Modules

Room A (Parallel Session)

13:40 – 14:05 Yoko Usami (Ochanomizu University) Principal Blocks with Extra-Special Defect Groups of Order 27 14:05 – 14:30 Katsuhiro Uno (Osaka University)

Vertex of Non-Periodic Modules in the Auslander-Reiten Quiver of Finite Groups

14:40 – 15:05 Shigeo Koshitani (Chiba University) Morita Equivalent Blocks of Finite Groups

15:05 – 15:30 Atsumi Watanabe (Kumamoto University) Perfect Isometries and Glauberman Correspondences

Room B (Parallel Session)

13:40 – 14:05 Jack Koolen (Kyushu University) Are There Finitely Many Distance-Regular Graphs with a Given Valency?

14:05 – 14:30 Akira Hiraki (Osaka Kyoiku University)

An Improvement of a Diameter Bound by Ivanov (Joint work with Jack Koolen)

14:40 – 15:05 Tatsuro Ito (Kanazawa University) Nonthin *T*-Modules of Endpoint 1

15:05 – 15:30 Yasuo Teranishi (Nagoya University)

The Number of Spanning Trees and Laplacian Eigenvalues of a Graph

Room A (Parallel Session)

16:05 – 16:30 Kazumasa Nomura (Tokyo Medical and Dental University)

Some Formulas for Spin Models on Distance-Regular Graphs, I

16:40 – 17:05 Brian Curtin (Kyushu University) Some Formulas for Spin Models on Distance-Regular Graphs, II

17:05 – 17:30 Mitsuhiro Sawano (Kyushu University) The Classification of Four-Weight Spin Models with Size 5

Room B (Parallel Session)

16:05 – 16:30 Hiroki Sasaki (Ehime University)

The mod 2 Cohomology Algebras of Finite Groups with Wreathed Sylow 2-Subgroups

16:40 – 17:05 Hiroshi Kimura (Ehime University) Construction of Hadamard Matrices Using Dihedral Groups

July 16 (Wednesday)

9:00 – 9:50 Helmut Bender (Christian-Albrechts-Universität zu Kiel)

Generalized Fitting π -Subgroups of Finite Groups

10:10 – 11:00 Bernd Stellmacher (Christian-Albrechts-Universität zu Kiel)

J-Components in Finite Groups

11:20 – 12:10 Don G. Higman (University of Michigan) Association Schemes and Geometries

13:40 – 14:30 Ronald Solomon (The Ohio State University)

The Semisimple Method for the Classification of the Finite Simple Groups

- 14:40 15:10 Michael Aschbacher (California Institute of Technology) Groups Disconnected at the Prime 2
- 15:40 16:30 Koichiro Harada (The Ohio State University) Professor Michio Suzuki's Contribution to the Theory of Finite Groups
- 16:40 17:30 Michio Suzuki (The University of Illinois Urbana-Champaign) On the Prime Graph of Finite Simple Groups — An Application of

a Method of Feit–Thompson–Bender–Glauberman

(Banquet, from 18:00 at ICU Cafeteria West Room)

July 17 (Thursday)

- 9:00 9:50 John McKay (Concordia University) Moonshine — from Dedekind and Fricke, Klein to the Present Day
- 10:10 11:00 Masahiko Miyamoto (Tsukuba University) The Finite Group Theory on Vertex Operator Algebras
- 11:20 12:10 Franz Timmesfeld (Justus-Liebig-Universität Giessen) Identifications of Lie-type Groups.

Room A (Parallel Session)

- 13:40 14:05 Paul-Hermann Zieschang (Kyushu University) The Classification of the Buildings of Spherical Type in the Light of
- the Theory of Association Schemes
- 14:05 14:30 Satoshi Yoshiara (Osaka Kyoiku University) Subgroup Complexes for Finite Simple Groups
- 14:40 15:05 Michio Ozeki (Yamagata University) A Polynomial Approach to the Covering Radius Problem for Ternary Self-Dual Codes

Room B (Parallel Session)

13:40 – 14:05 Masaaki Kitazume (Chiba University)

Binary Codes Vertex Operator Algebras and Finite Automorphism Groups

14:05 – 14:30 Hiromichi Yamada (Hitotsubashi University) Ternary Code Vertex Operator Algebras

14:40 – 15:05 Norio Yamazaki (Kyushu University) On Local Structures of Some Group Association Schemes

15:05 - 15:30 Masato Tomiyama (Osaka Kyoiku University) Characterization of the Group Association Scheme of PSL(2,7)

Room A (Parallel Session)

15:40 – 16:05 Masaaki Harada (Yamagata University) New 5-Desings Constructed from the Lifted Golay Code over Z_4

16:05 – 16:30 Takeshi Kondo (Tokyo Women's Chrisitian University) Some Examples of Non-Solvable Unramified Extensions over Quadratic Fields

Room B (Parallel Session)

15:40 – 16:05 Mitsugu Hirasaka (Kyushu University)

On Association Schemes with a Nonsymmetric Relation of Valency 4

16:05 – 16:30 Akihiro Munemasa (Kyushu University) Primitive Trinomials and Orthogonal Arrays over GF(2)

Room A

16:40 – 17:30 Hiroyoshi Yamaki (Kumamoto University) Prime Graphs (Joint work with N. Chigira and N. Iiyori)