

## Announcement of the workshop on

"Research into Vertex Operator Algebras, Finite Groups and Combinatorics"

Date: From 13th to 17th December

Place: Room 127 3rd Building of Faculty of Science, Kyoto University  
(Kitashirakawa, Kyoto city, Japan)

### Program

13th December (Monday)

9:50-10:00 Opening

10:00-11:00 Ito, Tatsuro (Kanazawa University)

Tridiagonal pairs and Drinfel'd polynomials

11:15-12:15 Yoshiara, Satoshi (Tokyo Woman's Christian University)

Around equivalences on APN functions

13:30-14:30 Suda, Sho (Tohoku University)

Complex spherical designs and codes

14:45-15:45 Nozaki, Hiroshi (Tohoku University)

Uniqueness of maximal two-distance sets on a sphere

16:00-17:00 Munemasa Akihiro (Tohoku University)

Towards the classification of 4-frames in the Leech lattice

14th December (Tuesday)

9:45-10:45 Takegahara, Yugen (Muroran Institute of Technology)

Generalizations of Burnside ring and their applications

11:00-12:00 Chigira, Naoki (Kumamoto University)

On groups generated by two elements

13:30-14:30 Iiyori, Nobuo (Yamaguchi University)

Centralizers of  $p$ -elements of a finite group

14:45-15:45 Nebe, Gabriele (RWTH Aachen University)

An extremal even unimodular lattice of dimension 72

16:00-17:00 Ivanov, Alexander (Imperial College London)

Towards the Majorana representation of  $A_{12}$

15th December (Wednesday)

9:45-10:45 Griess, Robert L., Jr. (University of Michigan)

Moonshine path from the extended  $E_8$  diagram to the Monster

11:00-12:00 Li, Haisheng (Rutgers University)

Vertex  $F$ -algebras and their  $\varphi$ -coordinated modules

13:30-14:30 Lam, Ching Hung (Academia Sinica)

Framed VOAs associated to an exceptional triply even code.

14:45-15:45 Shimakura, Hiroki (Aichi University of Education)

Toward the classification of holomorphic framed vertex operator algebras of central charge 24

16:00-17:00 Gannon, Terry (University of Alberta)

Exotic VOAs of Haagerup-Izumi type

16th December (Thursday)

9:45-10:45 Dong, Chongying (University of California Santa Cruz)

Quantum dimensions and quantum Galois theory

11:00-12:00 Tuite, Michael (National University of Ireland, Galway)

The bosonic vertex operator algebra on a genus  $g$  Riemann surface

13:30-14:30 Arakawa, Tomoyuki (Kyoto University)

Kac-Wakimoto conjecture and associated varieties of modules over Kac-Moody algebras

14:45-15:45 Abe, Toshiyuki (Ehime University)

$C_2$ -cofiniteness of  $Z_2$ -permutation orbifold models

16:00-17:00 Miyamoto, Masahiko (University of Tsukuba)

Orbifold theory of vertex operator algebras.

17th December (Friday)

9:45-10:45 Mason, Geoffrey (University of California Santa Cruz)

Vertex operator algebras and Jacobi forms.

11:00-12:00 Yamuskulna, Gaywalee (Illinois State University)

Recent developments in the theory of shifted vertex operator algebras

13:30-14:30 Wang, Qing (Xiamen University)

Parafermion Vertex Operator Algebras

14:45-15:45 Jiang, Cuipo (Shanghai Jiaotong University)

Representations of affine Nappi-Witten algebras and the associated vertex algebra.

16:00-16:10 Closing

Organizers:

Miyamoto, Masahiko (University of Tsukuba) (Chief)

Kitazume, Masaaki (Chiba University)

Munemasa Akihiro (Tohoku University)

Lam Ching Hung (Academia Sinica)

Dong, Chongying (University of California Santa Cruz)