# RIMS Conference 2014 New Developments on Representation Theory and Harmonic Analysis

**Date** June 24–27, 2014

Place Room 420, Research Institute for Mathematical Sciences, Kyoto University

Organizer Yasufumi Hashimoto (University of the Ryukyus)

# Program

June 24 (Tue.)

- 13:30 14:20 Tomoyuki Tamura (Kyushu University) Characters of symmetric power representations and exterior power representations of finite groups
- 14:40 15:30 Yamaguchi Naoya (Kyushu University) Factorization of group determinant in some group algebras
- 15:50 16:40 Masato Wakayama (Kyushu University) Non-commutative harmonic oscillators and the Rabi model

## June 25 (Wed.)

- $10:00-10:50\,$  Yuichiro Tanaka (The University of Tokyo) Visible actions on affine spherical varieties and applications
- 11:10 12:00 Yosuke Morita (The University of Tokyo) A topological obstruction for the existence of compact quotients of homogeneous spaces
- 13:30 14:20 Yuki Kanakubo (Sophia University) Cluster variables on double Bruhat cells and monomial realizations of crystal bases
- 14:40 15:30 Cid Reyes (Kyushu University) Group-Subgroup pair graphs
- 15:50 16:40 Hideto Nakashima (Kyushu University) Basic relative invariants of homogeneous cones

### June 26 (Thu.)

- 10:00 10:50 Toshihisa KUBO (The University of Tokyo)The Dynkin index and parabolic subalgebra of Heisenberg type
- 11:10 12:00 Toshihiko Matsuki (Ryukoku University) Orthogonal multiple flag varieties of finite type: Odd degree case
- 13:30 14:20 Kazuhide Oshiro (Nagoya University) Continuous wavelet transforms on spaces of vector-valued functions
- 14:40 15:30 Takashi Hashimoto (The University of Tottori) Quantization of the moment map on symplectic vector space and the oscillator representation
- 15:50 16:40 Yoshiyuki Kimura (Osaka City University) Quiver varieties and quantum cluster algebras

### June 27 (Fri.)

- 10:00 10:50 Genki Shibukawa (Kyushu University) Multivariate Meixner, Charlier and Krawtchouk polynomials
- 11:10 12:00 Kentaro Okamoto (Kyushu University) Zeta function of the braid group, and the Alexander polynomial