# RIMS Conference 2014 <br> 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

