

Geometry, Algebra and Combinatorics in Transformation group theory

We are planning to hold the conference supported by Research Institute for Mathematical Science in Kyoto University.

Organizer: **Kuroki, Shintaro** (Okayama University of Science)
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Date: June 4 – 8, 2018

Place : Research Institute for Mathematical Science in Kyoto University

Address : Kitashirakawaoiwake-cho, Sakyo, Kyoto city, 606-8502, Japan

Program

4th June 2018

13:00~13:50 Tomohiro Kawakami (Wakayama University)

Every strongly definable C^r fiber bundle admits a unique strongly definable C^∞ fiber bundle structure

14:00~14:50 Masayuki Kawashima (Okayama University of Science)

An application of persistent homology on musical data

15:00~15:50 Masaharu Morimoto (Okayama University)

Smooth odd fixed point actions on \mathbf{Z}_2 -homology spheres

5th June 2018

9:30~10:20 Ko Ohashi (The University of Tokyo)

Equivariant KO-theory and equivariant maps between sphere bundles over tori

10:30~11:20 Takao Satoh (Tokyo University of Science)

On the Andreadakis conjecture of the automorphism groups of free groups

13:00~13:50 Takahiko Yoshida (Meiji University)

Adiabatic limits, theta functions, and geometric quantization

14:00~14:50 Norihiko Minami (Nagoya Institute of Technology)

On higher Fano varieties

15:00~15:50 Masayuki Yamasaki (Okayama University of Science)

On contributions of A. Ranicki to controlled topology

6th June 2018

9:30~10:20 Morimichi Kawasaki (RIMS)

Relative displaceability and Poisson bracket invariant

10:30~11:20 Naoto Yotsutani (Kagawa University)

The Loewy filtration and automorphism groups of toric varieties

13:00~13:50 Hajime Fujita (Japan Women's University)

On a metric on the moduli space of Delzant polytopes

14:00~14:50 Hiraku Abe (OCAMI)

On a holomorphic Poisson structure and a completely integrable system appearing on a certain vector bundle over the flag variety

15:00~15:50 Yasuhiro Hara (Osaka University)

A generalization of Borsuk-Ulam theorem and its application to combinatorics

16:00~16:50 Satoshi Murai (Waseda University)

Numbers of edges of triangulations and fundamental groups

Please turn over.

7th June 2018

9:30~10:20 Hitoshi Yamanaka (OCAMI)

Graph equivariant cohomological rigidity for GKM-graphs

10:30~11:20 Kohhei Yamaguchi (University of Electro-Communications)

Real analogues of spaces of resultants and its related problems

13:00~13:50 Akihiro Higashitani (Kyoto Sangyo University)

On the structure of homogeneous quandles associated with automorphisms of finite groups

14:00~14:50 Naoki Fujita (Tokyo Institute of Technology)

Geometric and representation-theoretic aspects of flag Bott-Samelson varieties

15:00~15:50 Tomoo Matsumura (Okayama University of Science)

On the formulas of the Schubert classes associated to 321-avoiding permutations in the K-theory of the flag variety

8th June 2018

9:30~10:20 Nagaoka Takahiro (Kyoto University)

The universal Poisson deformation space of hypertoric varieties and some classification results

10:30~11:20 Toshio Sumi (Kyushu University)

Borsuk-Ulam type property for isovariant maps

