

The theory of transformation groups and its applications

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

Organizer: **Yasuhiro Hara** (Osaka University)
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Date: May 27 – 31, 2019

Place : Research Institute for Mathematical Science in Kyoto University

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

Program

May 27 (Mon)

13:00 ~ 13:50 Yasuhiro Hara (Osaka University)

A generalization of Ky Fan's theorem from the topological viewpoint

14:00 ~ 14:50 Tomohiro Kawakami (Wakayama University)

Relative properties of definable C^rG manifolds in real closed fields

15:00 ~ 15:50 Kouhei Seita (Okayama University)

Concrete examples of computation of the d-Smith set

16:00 ~ 16:50 Mikiya Masuda (Osaka City University)

Torus orbit closures in the flag variety and a metric on the Weyl group
Joint work with Eunjeong Lee (IBS) and Seonjeong Park (Ajou Univ.)

May 28 (Tue)

9:50 ~ 10:40 Kazuto Takao (Kyoto University)

Bridge decompositions, bridge positions and symmetries of knots

10:50 ~ 11:40 Kazuhiko Fukui, Tomasz Rybicki(AGH University of Science and Technology), **Tatsuhiko Yagasaki** (Kyoto Institute of Technology)

The uniform perfectness of diffeomorphism groups of open manifolds

13:30 ~ 14:20 Horiguchi Tatsuya (Osaka University)

A basis of the cohomology ring of a regular nilpotent Hessenberg variety

14:30 ~ 15:20 Daisuke Kishimoto (Kyoto University)

Mod p decomposition of Lie groups revisited

15:30 ~ 16:20 Ryotaro Kawago (Okayama University of Science)

Multiplicities of points on Schubert varieties in the Symplectic flag variety

May 29 (Wed)

9:50 ~ 10:40 Kohhei Yamaguchi (The University of Electro-Communications)

Spaces of resultants related to toric varieties and related problems

10:50 ~ 11:40 Seiji Nagami (Setsunan University)

On orientations of fixed point sets of involutions on manifolds

13:30 ~ 14:20 Keiichi Maeta (the University of Tokyo)

On the existence problem of compact Clifford–Klein forms for indecomposable pseudo-Riemannian symmetric spaces

14:30 ~ 15:20 Hisashi Kasuya (Osaka University)

DGA-models of variations of mixed Hodge structures

15:30 ~ 16:20 Ikumitsu Nagasaki (Kyoto Prefectural University of Medicine)

Finite groups not having the Borsuk-Ulam property

Please turn over.

May 30 (Thu)

9:50 ~ 10:40 Takanobu Aoyama (Osaka University)

A Correspondence between Topologies Compatible with a Linear Space and Subspaces

10:50 ~ 11:40 Shintaro Kuroki (Okayama University of Science)

On equivariant cohomology rings of flag Bott towers

13:30 ~ 14:20 Takashi Sato (Osaka City University)

GKM-theoretical description of double coinvariant rings of pseudo-reflection groups

14:30 ~ 15:20 Takao Satoh (Tokyo University of Science)

On the basis-conjugating automorphism groups of free groups

15:30 ~ 16:20 Toshio Sumi (Kyushu University)

Alternating groups and Borsuk-Ulam groups

May 31 (Fri)

9:50 ~ 10:40 Norihiko Minami (Nagoya Institute of Technology)

Higher uniruledness, Bott-towers, and Higher Fano manifolds

10:50 ~ 11:40 Ryouzuke Fujita (University of Fukui)

On the complexes from posets of p -subgroups

