

Toric Topology 2015 in Osaka

Dates: June 16 (Tue) – June 19 (Fri), 2015

Venue: Room E408 (June 16-18), Room F405 (June 19)
Department of Mathematics, Science Building E, F
Osaka City University (Sugimoto Campus)

Address: 3-3-138 Sugimoto, Sumiyoshi-ku, Osaka 558-8585, Japan

This meeting is an activity of JSPS Program for Advancing Strategic International Networks to Accelerate the Circulation of Talented Researchers

対称性, トポロジーとモジュライの数理

～数学研究所の国際研究ネットワーク展開～

“Mathematical Science of Symmetry, Topology and Moduli, Evolution of International Research Network based on OCAMI”

Program (June 12, 2015 version)

June 16 (Tue) Lecture Room E408

10:00 – 10:40 Victor Buchstaber (Steklov Institute)
Toric topology of fullerenes

11:00 – 11:40 Anton Ayzenberg (OCAMI)
Macaulay’s dual systems, volume polynomials, and cohomology of torus manifolds

12:00 – 12:40 Satoshi Murai (Osaka Univ.)
New inequalities for face numbers of d-colorable simplicial d-polytopes

2:20 – 3:00 Akihiro Higashitani (Kyoto Sangyo Univ.)
Toric Fano manifolds and some equivalence relations

3:20 – 4:00 Hanchul Park (KIAS)
Wedge operations and a new family of projective toric manifolds

4:20 – 5:00 Seonjeong Park (NIMS)
Real toric varieties corresponding to pseudographs

June 17 (Wed) Lecture Room E408

10:00 – 10:40 Alastair Darby (Fudan Univ.)
Stunted Weighted Projective Spaces and Thom Orbispaces

11:00 – 11:40 Miho Hatanaka (Osaka City Univ.)
On representation decompositions of cohomology rings of toric manifolds associated to cycle graphs

12:00 – 12:40 Zeng Haozhi (Osaka City Univ.)
On equivariant b-cohomology groups

2:20 – 3:00 Hiroaki Ishida (RIMS)
Infinitesimal automorphisms of moment-angle manifolds with complex-analytic structures

3:20 – 4:00 River Chiang (National Cheng Kung Univ. & Tokyo Metropolitan Univ.)
Cyclic actions on symplectic 4-manifolds

4:20 – 5:00 Hideya Kuwata (Osaka City Univ.)
On the space of sections of an associated line bundle on a nice topological toric manifold

6:00 – Banquet

June 18 (Thr) Lecture Room E408

10:00 – 10:40 Victor Buchstaber (Steklov Institute)
Embedding theorems of quasitoric manifolds

11:00 – 11:40 Bo Chen (Huazhong Univ. of Science and Technology)
Codimension-one embedding of some small covers into Euclidean space

12:00 – 12:40 Sho Hasui (Kyoto Univ.)
Strong cohomological rigidity of $(\mathbb{C}P^2 \sharp \mathbb{C}P^2)$ -bundle type quasitoric manifolds

2:20 – 3:00 Hiraku Abe (OCAMI & Toronto Univ.)
Representations of symmetric groups on the cohomology of Hessenberg varieties

3:20 – 4:00 Tatsuya Horiguchi (Osaka City Univ.)
Hessenberg varieties and chromatic quasisymmetric functions

4:20 – 5:00 Tomoo Matsumura (Okayama Univ. of Science)
Determinant formula for the full flag of type A and Vexillary permutations

June 19 (Fri) Lecture Room F405 (not E408)

- 10:00 – 10:40 Shintaro Kuroki (The Univ. of Tokyo)
On extended actions of complexity one torus manifolds
- 11:00 – 11:40 Yusuke Suyama (Osaka City Univ.)
Non-singular fans and triangulated surfaces
- 12:00 – 12:40 Takashi Sato (Kyoto Univ.)
p-local stable splitting of quasitoric manifolds
- 2:20 – 3:00 Daisuke Kishimoto (Kyoto Univ.)
Fat wedge filtrations and moment-angle complexes
- 3:20 – 4:00 Wei Wang (Shanghai Ocean Univ.)
Toric generators of some bordism groups
- 4:20 – 5:00 Taras Panov (Moscow State Univ.)
On toric generators in the unitary and special unitary bordism rings

Organizer

Mikiya Masuda (Osaka City University)

Shintaro Kuroki (The University of Tokyo)

Hiroaki Ishida (RIMS)