

Characteristic Polynomials of Hyperplane Arrangements and Ehrhart Polynomials of Convex Polytopes

Feb. 14 – Feb. 17, 2023
at RIMS in Kyoto University, Maskawa Hall

Feb. 14th (Tue) Maskawa Hall

10:30~11:30 Satoshi Murai (Waseda University)

“Ehrhart quasi-polynomials and parallel translation of rational polytopes”

—Lunch—

13:10~14:10 So Yamagata (Fukuoka University)

“A characteristic homology for graphic arrangements”

14:30~15:30 Graham Denham (Western University)

“Geometry of log derivations on arrangements”

15:50~16:50 Luis Ferroni (KTH Royal Institute of Technology)

“Valuative invariants for large classes of matroids”

Feb. 15th (Wed) Maskawa Hall

9:30~10:30 Federico Ardila (Zoom) (San Francisco State University)

“Combinatorial Intersection Theory and Matroids”

10:50~11:50 Shuhei Tsujie (Hokkaido University of Education)

“Arrangements over the rings of integers of algebraic number fields”

—Lunch—

13:10~14:10 Matthias Beck (San Francisco State University)

“Rational Ehrhart Theory”

14:30~15:30 Tan Nhat Tran (Ruhr-Universität Bochum)

“Flag-accurate arrangements”

15:50~16:50 Masahiko Yoshinaga (Osaka University)
“Ehrhart quasi-polynomials and Characteristic quasi-polynomials”

Feb. 16th (Thu) Maskawa Hall

9:30~10:30 Yasuhide Numata (Hokkaido University)

“On the face poset of directed edge polytopes”

10:50~11:50 Akiko Yazawa (Kyushu University)

“The strong Lefschetz property of an algebra associated to the regular polyhedra”

—Lunch—

13:10~14:10 Paul Mücke (Kyushu University)

“Topology of supersolvable oriented matroids”

14:30~15:30 Tamás Kálmán (Tokyo Institute of Technology)

“The unreasonable effectiveness of ribbon structures”

15:50~16:50 Takuro Abe (Kyushu University)

“B-sequences of logarithmic modules of hyperplane arrangements”

Feb. 17th (Fri) Maskawa Hall

9:30~10:20 Maddalena Pismataro (University of Bologna)

“Characteristic Polynomial of Inductive and Divisional Abelian Arrangements”

10:30~11:20 Max Hlavacek (University of California, Berkeley)

“Subdivisions of Shellable Complexes”

—Lunch—

13:30~16:30 Free discussion (at Room 110 in RIMS)

