Computational Commutative Algebra and Convex Polytopes

～計算可換代数と凸多面体～

PROGRAM

August, 1 (Mon)

13:15—14:15 Akiyoshi Tsuchiya (Osaka University)

        Gorenstein Fano polytopes arising from two poset polytopes

14:30—15:30   Robert Davis (Michigan State University)

        Pattern-Avoiding Polytopes

15:45---16:45   Liam Solus (MIT and IST Austria)

        On h*-unimodality and the integer decomposition property for reflexive simplices

August, 2 (Tue)

9:30—10:30   Uwe Nagel (University of Kentucky)

        Equivariant Hilbert Series

10:45—11:45   David Cook II (Eastern Illinois University)

        Some toric varieties satisfying many Laplace equations

13:15—14:15   Andreas Paffenholz (Technische Universität Darmstadt)

        Structure and Classifications of Lattice Polytopes

14:30—15:30   Thomas Prince (Imperial College London)

        Complete intersection constructions for certain toric degenerations of Fano varieties

15:45---16:45   Fu Liu (University of California, Davis)

        Ehrhart positivity and BV-α-positivity for generalized permutahedra

August, 3 (Wed)

9:30—10:30   Emanuela De Negri (Genova University)

Universal Gröbner bases and Cartwright-Sturmfels ideals

10:45—11:45   Sijong Kwak (KAIST)

Characterization of ACM varieties with d-linear resolution

August, 4 (Thu)

9:30—10:30   Fabrizio Zanello (Michigan Technological University)

Some recent interactions between commutative algebra and combinatorics

10:45—11:45   Huy Tai Ha (Tulane University)

Powers of sums of ideals

13:15—14:15   Akihiro Higashitani (Kyoto Sangyo University)

On counterexamples of Cayley conjecture for lattice simplices

14:30—15:30   Johannes Hofscheier (Otto-von-Guericke-University Magdeburg)

Lattice simplices with a given degree

15:45---16:45   Benjamin Nill (Otto-von-Guericke-University Magdeburg)

Ehrhart theory for spanning lattice polytopes

August, 5 (Fri)

9:30—10:30   Vokmar Welker (Philipps-Universität Marburg)

On the ideal of orthogonal representations of a graph

10:45—11:45   Lukas Katthän (Goethe-Universität Frankfurt)

Multiplicative structures on minimal free resolutions of monomial ideals

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