

Workshop on Mathematics Related to Arrangements of Hyperplanes

Tokyo Metropolitan University, July 13-18, 1998
(at TMU International House)

In honor of the 60th birthyear of Peter Orlik

July 13 (Mon)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (1)*

10:45-11:45 **Kyoji Saito** (RIMS) *The polyhedron dual to the Coxeter arrangements*

13:30-14:30 **Luis Paris** (Bourgogne) *Intersection subgroups of complex hyperplane arrangements*

14:45-15:45 **Eriko Hironaka** (Florida State) *Boundary manifolds of line arrangements*

16:00-17:00 **Daniel C. Cohen** (Louisiana State) *Cohomology of fiber-type arrangements and Orlik-Solomon algebras*

July 14 (Tue)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (2)*

10:45-11:45 **Hiroaki Terao** (Tokyo Metropolitan) *Antiinvariant differential forms and logarithmic forms of Coxeter arrangements (with Louis Solomon)*

13:30-14:30 **Bernard Teissier** (Ecole Normale Sup.) *Multiscale curvature concentration in Milnor fibers*

14:45-15:45 **Masaaki Yoshida** (Kyushu) *Intersection numbers of twisted (co)cycles*

16:00-17:00 **Christos Athanasiadis** (U. Penn.) *Deformations of Coxeter arrangements and their characteristic polynomials*

19:15-20:00 **Stefan Papadima** (Romanian Acad. Math. Inst.) *Milnor fibers of arrangements*

20:15-21:00 **Herbert Kanarek** (UNAM) *Gauss-Manin connections of arrangements*

July 15 (Wed)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (3)*

10:45-11:45 **Richard Stanley** (MIT) *The distance enumerator of a hyperplane arrangement*

July 16 (Thu)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (4)*

10:45-11:45 **Kazuhiko Aomoto** (Nagoya) *Picard-Lefschetz transformation for quasi-hypergeometric functions*

13:30-14:30 **Alex Suciu** (Northeastern) *Combinatorics and topology of complements of planes in \mathbf{R}^4*

14:45-15:45 **Michael Falk** (Northern Arizona) *Parallel connections, bundles and invariants of arrangements*

16:00-17:00 **Bruce Sagan** (Michigan State) *The k -consecutive arrangements*

July 17 (Fri)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (5)*

10:45-11:45 **Toshitake Kohno** (Tokyo) *Elliptic KZ system, braid group of the torus and Vassiliev invariants*

13:30-14:30 **James Damon** (North Carolina) *The role of free divisors in the topology and combinatorics of nonlinear arrangements*

14:45-15:45 **Katsunori Iwasaki** (Kyushu) *Polytopes, invariants, and harmonic functions*

16:00-17:00 **Michel Deza** (Ecole Normale Sup.) *Embedding of all regular tilings and star-honeycombs*

July 18 (Sat)

9:40-10:30 **Peter Orlik** (Wisconsin) *Arrangements and hypergeometric integrals (6)*

10:45-11:45 **Sergey Yuzvinsky** (Oregon) *Cohomology of the Orlik-Solomon algebras and local systems (joint with Anatoly Libgober)*

13:30-14:30 **Mutsuo Oka** (Tokyo Metropolitan) *Geometry of cuspidal sextics and a new Zariski pair*

14:45-15:45 **Richard Randell** (Iowa) *Arrangements and the knot configuration space*