Fourth Turán Workshop in Mathematics

American–Hungarian joint workshop on Discrete Geometry

July 12–16, 1999

Organized by the Mathematical Institute of the Hungarian Academy of Sciences

Location: The Great Lecture Hall of the Mathematical Institute of the Hungarian Academy of Sciences, Budapest, V. Reáltanoda u. 13–15.

July 12 (Monday)

10.00 János Pach: Crossing numbers of graphs

11.20 Bernardo Abrego: Structural results for planar sets with many similar subsets

14.00 Géza Tóth: Generalizations of the Erdős-Szekeres theorem

14.50 Bob Connelly: Two-Distance Preserving Functions from Euclidean Space

15.40 Gyula Károlyi: Large empty polygons

July 13 (Tuesday)

9.30 Thomas Hales: The Kepler conjecture

10.50 András Bezdek: Covering polygons with triangles

11.30 Ferenc Fodor: Maximum perimeter of small polygons and circle packings

14.00 Dan Ismailescu: Inequalities between lattice packing and covering densities of centrally symmetric plane convex bodies

15.00 Problem session

July 14 (Wednesday)

9.30 Thomas Hales: The honeycomb conjecture

10.50 István Talata: On minimum kissing numbers of finite translative packings of octahedra

11.30 Aladár Heppes: Covering of domains with sets of given diameter

14.00 Tibor Ódor: Reconstruction of convex bodies and the Pompeiu problem

14.50 Balázs Csikós: On the volume of flowers in space forms

15.40 Gábor Tardos: Holes determined by plane triangles

July 15 (Thursday)

9.30 László Lovász: Volume computation and geometric problems it raises

10.50 József Solymosi: Integral distances in the plane

11.30 John Reay: (Almost) every convex, 2-connected, triangular graph has a Hamiltonian cycle

14.00 Bill Steiger: An optimal algorithm for the hyperplane median in R^2

14.50 Silvia Fernandez: On the existence of trichromatic triangles among 3-colorings of K_n

15.40 Károly Böröczky Jr.: About the convex hull of the lattice points in a smooth body

July 16 (Friday)

9.30 Károly Böröczky: Maximal packing of balls

10.20 Zoltán Füredi: The smallest convex region containing all triangles of perimeter 2

11.20 Wlodek Kuperberg: Packing cones in R^3

14.00 Egon Schulte: A topological classification of regular polytopes

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