



TÁMOP-4.2.2/B-10/1-2010-0012 project
TÁMOP-4.2.1/B/09/1/KONV-2010-0005 project

University of Szeged
Bolyai (Mathematical) Institute
Szeged, Hungary

Szeged Workshop in Convex and Discrete Geometry

May 21-23, 2012

Schedule of talks

All talks will take place in the *Kerékjártó lecture hall* on the 2nd floor of the Bolyai Building at Aradi vértanúk tere 1, Szeged, Hungary

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May 21 (Monday), 2012

- 9:00-9:50 **Registration**
- 9:50-10:00 **Opening**
- 10:00-11:00 **M. Ludwig** (TU Wien, Austria):
Valuations on Convex Bodies and Sobolev Spaces
- 11:00-11:30 **Coffee break** (Riesz lecture hall)
- 11:30-12:00 **M. Spirova** (TU Chemnitz, Germany):
Semi-inner product und its application in the geometry of normed spaces
- 12:00-12:30 **M. Naszódi** (Eötvös University, Hungary):
Push Forward Measures and Concentration Phenomena
- 12:30-14:00 **Lunch break**
- 14:00-15:00 **L. Montejano** (UNAM, México):
Topological Berge and Breen's Theorems
- 15:00-15:30 **D. Oliveros** (UNAM, México):
About piercing numbers of affine planes, lines and intervals
- 15:30-16:00 **Coffee break** (Riesz lecture hall)
- 16:00-16:30 **M. Henze** (University of Magdeburg, Germany):
A lattice point inequality for centrally symmetric convex bodies
- 16:30-17:00 **K. Swanepoel** (London School of Economics, U.K.):
A Schütte theorem for the 4-norm
- 17:00-17:30 **E. Saorin Gomez** (University of Magdeburg, Germany):
Bonnesen-style inradius inequalities

May 22 (Tuesday), 2012

- 9:00-10:00 **P. Gruber** (TU Vienna, Austria):
The normal bundle of a convex body
- 10:00-10:30 **Coffee break** (Riesz lecture hall)
- 10:30-11:00 **E. Makai** (Rényi Institute, Hungary):
Ball characterizations
- 11:00-11:30 **E. Linke** (University of Magdeburg, Germany):
Lattice Points in vector-dilated Polytopes
- 11:30-12:00 **K. Bezdek** (University of Calgary, Canada):
On minimal tilings with convex cells each containing a unit ball
- 12:00-14:00 **Lunch break**
- 14:00-14:30 **I. Talata** (Szent István University, Hungary):
On the difference between the Hadwiger number and the lattice kissing number of a convex body
- 14:30-15:00 **Z. Lángi** (Budapest University of Technology, Hungary):
On the k -fold Borsuk numbers of sets
- 15:00-15:30 **Coffee break** (Riesz lecture hall)
- 15:30-16:00 **A. Joós** (College of Dunaújváros, Hungary):
Covering the surface of the unit cube by congruent balls
- 16:00-16:30 **R. Trelford** (University of Calgary, Canada):
The Equivalence of the Illumination and Covering Conjectures
- 19:00-21:00 **Dinner reception** (in Room 5 of the main university building at Dugonics tér 13.)

May 23 (Wednesday), 2012

- 9:00-10:00 **R. Schneider** (University of Freiburg, Germany):
Diametric completions
- 10:00-10:30 **Coffee break** (Riesz lecture hall)
- 10:30-11:00 **T. Zamfirescu** (University of Dortmund, Germany):
Simplicial convexity
- 11:00-11:30 **C. Thiel** (University of Magdeburg, Germany):
Siegel's Lemma with restrictions
- 11:30-12:00 **G. Ambrus** (Rényi Institute, Hungary):
Extremal crosspolytopes and Gaussian vectors
- 12:00-13:30 **Lunch break**
- 13:30-14:30 **T. Bisztriczky** (University of Calgary, Canada):
The $T(5)$ property of congruent disks in the plane
- 14:30-15:00 **Coffee break** (Riesz lecture hall)
- 15:00-15:30 **G. Araujo** (UNAM, México):
The Cage Problem
- 15:30-16:00 **J. Bokowski** (TU Darmstadt, Germany):
On the finite set of missing geometric (n_d) point line configurations
- 16:00-16:30 **G. Gévay** (University of Szeged, Hungary):
Some families of geometric (n_k) configurations