



BIRS Workshop
Convex Sets and their Applications
March 4, 2006 to March 9, 2006



Sunday, March 5, 2006
Main lecture hall, Max Bell 159¹

BREAKFAST	7:00 – 9:00 am, 2nd floor lounge, Corbett Hall
9:00 – 9:15 am	Introduction and Welcome to BIRS by BIRS Station Manager
9:15 – 9:45 am	Rolf Schneider <i>Intersections of balls in normed spaces</i>
9:50 – 10:20 am	Elisabeth Werner <i>Spaces between polytopes and zonotopes</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
10:50 – 11:20 am	Margaret Bayer <i>Flag vectors of polytopes: an overview</i>
11:25 – 11:55 am	Joseph Ling <i>Non-linear inequalities for 4-dimensional convex polytopes</i>
LUNCH	11:30 am – 1:30 pm, Donald Cameron Hall ²
2:30 – 3:00 pm	Alexander Litvak <i>On the vertex index of convex bodies</i>
3:05 – 3:35 pm	Ferenc Fodor <i>Geometric transversals in low and high dimensions</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
4:10 – 4:40 pm	József Solymosi <i>Additive Discrete Geometry</i>
4:45 – 5:15 pm	Iskander Aliev <i>A sharp lower bound for the Frobenius number</i>
5:20 – 5:50 pm	Zsolt Lángi <i>Isoperimetric inequalities for k_g-polygons</i>
DINNER	5:30 – 7:30 pm, Donald Cameron Hall ²

¹Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

²Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.



BIRS Workshop
Convex Sets and their Applications
March 4, 2006 to March 9, 2006



Monday, March 6, 2006
Main lecture hall, Max Bell 159¹

BREAKFAST	7:00 – 9:00 am, 2nd floor lounge, Corbett Hall
9:15 – 9:45 am	Valeriu Soltan <i>Homothety classes of convex sets</i>
9:50 – 10:20 am	Károly Bezdek <i>Short Billiards</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
10:50 – 11:20 am	Roman Vershynin <i>New convex geometry problems in linear programming</i>
11:25 – 11:55 am	Carsten Schütt <i>Minima of a sequence of Gaussian random variables</i>
1:00 – 2:00 pm	<i>A free guided tour of The Banff Centre</i> <i>Meeting point: 2nd floor lounge, Corbett Hall</i>
LUNCH	11:30 am – 1:30 pm, Donald Cameron Hall ²
2:15 – 2:45 pm	Alexander Koldobsky <i>Inequalities of Khinchin type and sections of L_p-balls</i>
2:50 – 3:20 pm	Alina Stancu <i>From a characterization of ellipsoids to the p-affine surface area</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
3:55 – 4:25 pm	Monika Ludwig <i>Elementary moves on triangulations</i>
4:30 – 5:00 pm	Natalia Garcia Colin <i>On a generalization of a problem of McMullen regarding neighborliness in convex polytopes</i>
5:10 – 5:40 pm	Carl Lee <i>Multiple views of h-vectors</i>
5:45 – 6:15 pm	Richard Ehrenborg <i>The cd-index, polytopes and Gorenstein* lattices</i>
DINNER	5:30 – 7:30 pm, Donald Cameron Hall ²

¹Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

²Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.



BIRS Workshop
Convex Sets and their Applications
March 4, 2006 to March 9, 2006



Tuesday, March 7, 2006

Main lecture hall, Max Bell 159¹

BREAKFAST	7:00 – 9:00 am, 2nd floor lounge, Corbett Hall
9:00 – 9:30 am	Konrad Swanepoel <i>Explicit upper bounds for edge-antipodal polytopes</i>
9:35 – 10:05 am	Márton Naszódi <i>Touching homothetic bodies and antipodality</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
10:30 – 11:00 am	Wolfgang Weil <i>Directed tomographic transforms</i>
11:05 – 11:35 am	Carla Peri <i>Uniqueness and stability results in geometric tomography</i>
11:40 – 12:10 am	Károly Böröczky, Jr. <i>Convex bodies of minimal volume, surface area and mean width with respect to thin shells</i>
LUNCH	11:30 am – 1:30 pm, Donald Cameron Hall ²
	Free Afternoon
DINNER	5:30 – 7:30 pm, Donald Cameron Hall ²

¹Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

²Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.



BIRS Workshop
Convex Sets and their Applications
March 4, 2006 to March 9, 2006



Wednesday, March 8, 2006
Main lecture hall, Max Bell 159¹

BREAKFAST	7:00 – 9:00 am, 2nd floor lounge, Corbett Hall
9:15 – 9:45 am	Jesús A. De Loera <i>Transportation Polytopes: a twenty-year update</i>
9:50 – 10:20 am	David Bremner <i>Approaches to enumerating vertices and extreme rays of polyhedra under symmetry</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
10:50 – 11:20 am	Markus Kiderlen <i>Spherical liftings and projections in convex geometry</i>
11:25 – 11:55 am	Efrén Morales <i>Generalization of Rogers Theorem and characterizations of ellipsoids</i>
Group Photo	<i>Directly after last lecture</i> <i>Meeting point: front steps of Corbett Hall</i>
LUNCH	11:30 am – 1:30 pm, Donald Cameron Hall ²
2:15 – 2:45 pm	Paolo Gronchi <i>Shadow systems</i>
2:50 – 3:20 pm	Maria Hernández Cifre <i>On the minimal annulus of a convex body: some optimization problems</i>
COFFEE BREAK	2nd floor lounge, Corbett Hall
3:55 – 4:25 pm	Franz Schuster <i>An arithmetic proof of John's ellipsoid theorem</i>
4:30 – 5:00 pm	Réne Brandenberg <i>Minimal containment under homothetics – theory and algorithms</i>
5:10 – 5:40 pm	Shmuel Onn <i>Multiway polytopes: universality and convex optimization</i>
5:45 – 6:15 pm	Peter Papez <i>Ball-Polyhedra</i>
DINNER	5:30 – 7:30 pm, Donald Cameron Hall ²

¹Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

²Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.



BIRS Workshop
Convex Sets and their Applications
March 4, 2006 to March 9, 2006



Thursday, March 9, 2006
Main lecture hall, Max Bell 159¹

BREAKFAST 7:00 – 9:00 am, 2nd floor lounge, Corbett Hall

9:15 – 9:45 am **David Larman**
*Determining properties of convex bodies
from information about certain sections*

9:50 – 10:20 am **Grzegorz Sójka**
Minor illuminations and convex bodies determination

COFFEE BREAK 2nd floor lounge, Corbett Hall

10:50 – 11:20 am **Jörg M. Wills**
On the zeros of the Ehrhart polynomial

Checkout by 12 noon

LUNCH 11:30 am – 1:30 pm, Donald Cameron Hall²

¹Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

²Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.