

Affine Convex Geometric Analysis

January 12 - 16, 2009

MEALS

*Breakfast (Buffet): 7:00–9:30 am, Sally Borden Building, Monday–Friday

*Lunch (Buffet): 11:30 am–1:30 pm, Sally Borden Building, Monday–Friday

*Dinner (Buffet): 5:30–7:30 pm, Sally Borden Building, Sunday–Thursday

Coffee Breaks: As per daily schedule, 2nd floor lounge, Corbett Hall

***Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

MEETING ROOMS

All lectures will be held in Max Bell 159 (Max Bell Building accessible by walkway on 2nd floor of Corbett Hall). LCD projector, overhead projectors and blackboards are available for presentations. Please 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.

SCHEDULE

Sunday

- 16:00** Check-in begins (Front Desk - Professional Development Centre - open 24 hours)
17:30–19:30 Buffet Dinner, Sally Borden Building
20:00 Informal gathering in 2nd floor lounge, Corbett Hall
Beverages and small assortment of snacks available on a cash honour-system.

Monday

- 7:00–9:00** Breakfast
9:00–9:15 Introduction and Welcome to BIRS by BIRS Station Manager, Max Bell 159
9:15–10:05 **Rolf Schneider**
The role of the volume product in stochastic geometry
10:05–11:00 Coffee Break, 2nd floor lounge, Corbett Hall
11:00 Group Photo; meet on the front steps of Corbett Hall
11:15–11:40 **Mathieu Meyer**
Once again on Mahler's problem
11:50–13:00 Lunch
13:00–14:00 Guided Tour of The Banff Centre; meet in the 2nd floor lounge, Corbett Hall
14:00–14:50 **Nicole Tomczak-Jaegermann**
Random points uniformly distributed on an isotropic convex body
15:00–15:30 Coffee Break, 2nd floor lounge, Corbett Hall
15:30–15:55 **Alexander Litvak**
On vectors uniformly distributed over a convex body
16:00–16:25 **Joseph Lehec**
A functional approach to the Blaschke-Santaló inequality
16:30–16:55 **Matthieu Fradelizi**
The volume product of convex bodies with many symmetries
18:00–19:30 Dinner

Tuesday

- 7:00–9:00** Breakfast
- 9:30–10:20** **Matthias Reitzner**
A classification of $SL(n)$ invariant valuations
- 10:30–11:00** Coffee Break, 2nd floor lounge, Corbett Hall
- 11:00–11:25** **Fedor Petrov**
Affine surface area and rational points on convex surfaces
- 11:30–11:55** **Christoph Haberl**
Blaschke valuations
- 12:00–13:30** Lunch
- 14:00–14:50** **Peter J. Olver**
Moving frames, differential invariants and surface geometry
- 15:00–15:30** Coffee Break, 2nd floor lounge, Corbett Hall
- 15:30–15:55** **Franz Schuster**
Valuations and affine Sobolev inequalities
- 16:00–16:25** **Christian Steiner**
The volume of the projection body and binary coding sequences
- 16:30– 16:55** **Carlo Nitsch**
Affine isoperimetric inequalities and Monge-Ampère equations
- 18:00–19:30** Dinner

Wednesday

- 7:00–9:00** Breakfast
- 9:30–10:20** **Franck Barthe**
Remarks on conservative spin systems and related questions in convexity
- 10:30–11:00** Coffee Break, 2nd floor lounge, Corbett Hall
- 11:00–11:25** **Andrea Colesanti**
Recent contributions to the Christoffel problem coming from partial differential equations
- 11:30–11:55** **Marina Yaskina**
Non-symmetric convex bodies and the Fourier transform
- 12:00–13:30** Lunch
Free Afternoon
- 17:30–19:30** Dinner

Thursday

- 7:00–9:00** Breakfast
- 9:30–9:55** **Gautier Berck**
Convexity of L_p intersection bodies
- 10:00–10:25** **Mark Rudelson**
TBA
- 10:30–11:00** Coffee Break, 2nd floor lounge, Corbett Hall
- 11:00–11:25** **Mark Meckes**
On the measure-theoretic analogue of Dvoretzky’s theorem
- 11:30–11:55** **Eugenia Saorín Gómez**
Approaching K by its form body and kernel
- 12:00–13:30** Lunch
- 14:00–14:25** **Vlad Yaskin**
On strict inclusions in hierarchies of convex bodies
- 14:30–14:55** **Marisa Zymonopoulou**
New examples of non-intersection bodies
- 15:00–15:30** Coffee Break, 2nd floor lounge, Corbett Hall
- 15:30–15:55** **Olivier Guédon**
Invertibility of matrices with iid columns
- 16:00–16:25** **Efrén Morales Amaya**
Characterization of ellipsoids by means of parallel translated sections
- 16:30–16:55** **Daniel Hug**
Random polytopes: geometric and analytic aspects
- 17:00–17:25** **Yehoram Gordon**
TBA
- 18:00–19:30** Dinner

Friday

- 7:00–9:00** Breakfast
- 9:30–10:00** Informal discussion, 2nd floor lounge, Corbett Hall
- 10:00–11:00** Coffee Break, 2nd floor lounge, Corbett Hall
- 11:00–11:30** Informal discussion, 2nd floor lounge, Corbett Hall
- 11:30–13:30** Lunch
- Checkout by 12 noon.**

** 5-day workshops are welcome to use the BIRS facilities (2nd Floor Lounge, Max Bell Meeting Rooms, Reading Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon. **