

Centre de recherches mathématiques
Université de Montréal

Atelier en analyse convexe et analyse géométrique asymptotique
Du 16 au 20 avril 2012

Workshop on Convexity and Asymptotic Geometric Analysis
April 16-20, 2012

HORAIRE / PROGRAM

Conférences : salle 6214 (Pavillon André-Aisenstadt)

Pauses-café : salon Maurice-L'Abbé (salle 6245, Pavillon André-Aisenstadt)

Lectures: Room 6214 (Pavillon André-Aisenstadt)

Coffee Breaks: Salon Maurice-L'Abbé (Room 6245, Pavillon André-Aisenstadt)

Le lundi 16 avril 2012 / *Monday, April 16, 2012*

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- 09:00 - 09:30** Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)
- 09:30 - 10:20** **Elisabeth Werner** (Case Western Reserve University)
“Entropies for convex bodies”
- 10:30 - 11:00** Pause-café / *Coffee break*
(Salle / Room 6245)
- 11:00 - 11:20** **Carsten Schütt** (Christian-Albrechts-Universität Kiel)
“On the expectation of the norm of random matrices with non-identically distributed entries”
- 11:30 - 11:50** **David Alonso-Gutiérrez** (University of Alberta)
“Projections of convex bodies verifying a reverse petty projection inequality”
- 12:00 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:20** **Andrea Colesanti** (Università degli Studi di Firenze)
“What is the perimeter of a log-concave function?”
- 14:30 - 14:50** **Eugenia Saorín-Gomez** (Universität Magdeburg)
“Bonnesen-style inradius inequalities”
- 15:00 - 15:20** **Maria Hernandez-Cifre** (Universidad de Murcia)
“On successive radii of convex bodies”
- 15:30 - 16:00** Pause-café / *Coffee break*
(Salle / Room 6245)
- 16:00 - 16:50** **Dmitry Ryabogin** (Kent State University)
“On non-uniqueness of convex bodies with prescribed volumes of sections and projections”
- 17:00** Réception / *Reception*
(Salle / Room 6245)

Le mardi 17 avril 2012 / *Tuesday, April 17, 2012*

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- 09:00 - 09:30** Café croissants / *Coffee & Croissants*
(Salle / Room 6245)
- 09:30 - 10:20** **Grigoris Paouris** (Texas A&M University)
“The isotropic position and the reverse Santaló inequality”
- 10:30 - 11:00** Pause-café / *Coffee break*
(Salle / Room 6245)
- 11:00 - 11:20** **Artem Zvavitch** (Kent State University)
“An application of shadow system to Mahler’s conjecture”
- 11:30 - 11:50** **Deping Ye** (Memorial University of Newfoundland)
“The absolute positive partial transpose property for random Induced states”
- 12:00 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:20** **Liran Rotem** (Tel Aviv University)
“Characterization of self-polar convex functions”
- 14:30 - 14:50** **Alexander Segal** (Tel Aviv University)
“Shadow projections of log-concave functions and duality relation”
- 15:00 - 15:20** **Mohammad Najafi Ivaki** (Concordia University)
“On the L_{-2} Minkowski problem”
- 15:30 - 16:00** Pause-café / *Coffee break*
(Salle / Room 6245)
- 16:00 - 16:50** **Dan Klain** (University of Massachusetts Lowell)
“Volume bounds for shadow covering”

Le mercredi 18 avril 2012 / *Wednesday, April 18, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Semyon Alesker** (Tel Aviv University)
“On the extension of valuations by continuity from polytopes to convex compact sets”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:20 **Dmitry Faifman** (Tel Aviv University)
“Dual grassmannians have equal girth”

11:30 - 11:50 **Joseph Fu** (University of Georgia)
“Second derivatives a.e. for non-convex functions”

Le jeudi 19 avril 2012 / *Thursday, April 19, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Andreas Bernig** (Goethe-Universität Frankfurt)
“Algebraic integral geometry”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:20 **Judit Abardia** (Goethe-Universität Frankfurt)
“Difference bodies in a complex vector space”

11:30 - 11:50 **Thomas Wannerer** (ETH Zürich)
“Hermitian area measures”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:20 **Peter Pivovarov** (Texas A&M University)
“Small-ball probabilities for the volume of random convex sets”

14:30 - 14:50 **Matthias Schulte** (Case Western Reserve University)
“Proximity of Poisson k -flats”

15:00 - 15:20 **Jie Xiao** (Memorial University)
“A Yau problem for variational capacity”

15:30 - 16:00 Pause-café / *Coffee break*
(Salle / Room 6245)

Colloque CRM-ISM Colloquium

16:00 - 17:00 **Vitali Milman** (University of Tel Aviv)
“The reasons behind some classical constructions in analysis”

17:00 Réception / *Reception*
(Salle / Room 6245)

Le vendredi 20 avril 2012 / *Friday, April 20, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Alexander Koldobsky** (University of Missouri)
“Stability in volume comparison problems”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:20 **Vlad Yaskin** (University of Alberta)
“Detecting symmetry in star bodies”

11:30 - 12:20 **Alexander Litvak** (University of Alberta)
“Norms of sub-matrices of a random matrix and applications”