



# Convex Geometric Analysis

## July 10 - 15, 2004



### MEALS

(Saturday dinner to Thursday lunch are included in workshop)

Breakfast (Continental): 7:00 – 9:00 am, 2<sup>nd</sup> floor lounge, Corbett Hall, Sunday-Thursday

\*Lunch (Buffet): 11:30 am – 1:30 pm, Donald Cameron Hall, Sunday-Thursday

\*Dinner (Buffet): 5:30 – 7:30 pm, Donald Cameron Hall, Saturday-Wednesday

Coffee Breaks: As per daily schedule, 2<sup>nd</sup> floor lounge, Corbett Hall

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

### MEETING ROOMS

*All lectures will be held in Max Bell 159. 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

#### Saturday, July 10

1730 - 1930                      Dinner, Donald Cameron Hall  
1930 -                              Informal gathering, 2<sup>nd</sup> floor lounge, Corbett Hall

#### Sunday, July 11

0700 - 0845                      Breakfast, 2<sup>nd</sup> floor lounge, Corbett Hall

0845 – 0900                      Introduction and Welcome to BIRS, Max Bell 159

0900 - 0945                      Franck Barthe: Orlicz Hypercontractive semigroups

0945 - 1010                      Coffee break, 2<sup>nd</sup> floor lounge, Corbett Hall

1010 – 1055                      Bo'az Klartag: Approaches to the slicing problem

1100 - 1130                      Vitali Milman: Explicit versus random

1130 - 1330                      lunch break

1330 - 1430                      Tour of The Banff Centre; meet in 2<sup>nd</sup> floor lounge, Corbett Hall

1430 - 1515                      Assaf Naor: Vertex expansion, edge expansion and the observable diameter.

1515 - 1545                      Coffee break

1545 - 1630                      Alexander Litvak: Behaviour of the smallest singular value of a random matrix and applications to geometry.

1635 - 1720                      Staszek Szarek: Saturation constructions in normed spaces

## Monday, July 12

- 0900 – 0945 Semyon Alesker: The multiplicative structure on valuations.  
0945 – 1010 coffee break  
1010 - 1055 Dario Cordero: Convergence of Information in the Central Limit Theorem.  
1100 - 1130 Roman Vershynin: Gromov's isoperimetry of waists and its use in asymptotic convex geometry  
  
1130 – 1140 Group photo; meet on the front steps of Corbett Hall  
  
1130 - 1330 lunch  
  
1330 - 1430 Tour of Banff Center; meet in 2<sup>nd</sup> floor lounge, Corbett Hall  
  
1430 - 1515 Shiri Artstein: On convexified packing and entropy duality  
1515 - 1545 coffee break  
1545 - 1630 Robert McCann: A convex action principle giving steepest descent into a nonconvex landscape  
1630 - 1715 Van Vu : Random polytopes: High moments and beyond

## Tuesday, July 13

- 0900 - 0945 Mark Rudelson: Random processes via the combinatorial dimension }  
0945 - 1010 coffee break  
1010 - 1055 Michael Krivelevich: Models of Random Graphs  
1100 - 1130 Gideon Schechtman: An observation regarding the dependence on  $\epsilon$  in Dvoretzky's theorem

## Wednesday, July 14

0900 - 0945	Deane Yang: Moment-entropy Inequalities
0945 - 1010	coffee break
1010 - 1040	Daniel Hug: On the $L_p$ Minkowski problem
1050 - 1120	Rolf Schneider: Size and limit shape of some random polytopes
1120 - 1330	lunch
1400 - 1430	Olivier Guedon: Concentration of Mass on the Schatten Classes.
1440 - 1510	Carsten Schuett: Approximation of Convex Bodies by Polytopes
1510 - 1540	coffee break
1540	discussion etc

## Thursday, July 15

0900 - 0930	Monika Ludwig: A characterization of the intersection body transform
0930 - 1015	coffee break
1015 - 1045	Hermann Koenig: Geometric inequalities for a class of exponential measures
1130 - 1330	lunch

**Checkout by 12:00 noon.**