## Convex bodies and representation theory BIRS Half Workshop: 2 Feb 2014 - 7 Feb 2014

## **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

Sunday

Coffee Breaks: As per daily schedule, in the foyer of the TransCanada Pipeline Pavilion (TCPL)

\*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 the TransCanada Pipelines Pavilion (TCPL). LCD projector and blackboards are available for presentations. Ceiling-mounted video cameras are installed in the main lecture room of 201, TCPL. To enable both half workshops to use the recording facilities during the week, one group will be assigned to Room 201 during the mornings and to Room 202 in the afternoons.

## (TENTATIVE) SCHEDULE

The schedule is still tentative in the sense that the organizers are open to suggestions so please feel free to talk to us. (There are also a few "TBA" slots.) In particular, there is another half-workshop going on simultaneously to ours on "Positivity of linear series and vector bundles", and we have arranged to have a joint session with them on Wedsnesday morning. We are open to suggestions of other ways the two workshops can interact.

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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 a small assortment of snacks are available on a cash honor system.
Monday	
7:00-8:45	Breakfast
8:45-9:00	Introduction and Welcome by BIRS Station Manager, TCPL Room 201
9:00-10:00	Askold Khovanskii, Convex bodies and representation theory, Part 1 , Room 201
10:00-10:30	Coffee Break
10:30-11:30	Kiumars Kaveh, Convex bodies and representation theory, Part $2$ , Room 201
11:30-13:00	Lunch
13:00-14:00	Guided Tour of The Banff Centre; meet in the 2nd floor lounge, Corbett Hall
14:00-15:00	Susan Tolman, Cohomology of quotients of Hamiltonian loop group actions, Room 202
15:00-15:30	Coffee Break
15:30-16:30	Nicholas Perrin, Quantum K-theory of homogeneous spaces, Room 202
16:30	Group Photo; meet on the front steps of Corbett Hall
17:30-19:30	Dinner

Tuesday 7:00–9:00 9:00-10:00 10:00-10:30 10:30-11:30 11:30–13:30 13:30-14:30 14:30-15:00 15:00-16:00	Breakfast Valentina Kiritchenko, Okounkov polytopes of Bott-Samelson varieties , Room 201 Coffee Break Vladlen Timorin, On the theory of coconvex bodies, Room 201 Lunch Klaus Altmann, Okounkov bodies and versal deformations of toric singularities, Room 201 Coffee Break Boris Kazarnovskii, Exponential sums: Kusnirenko-Bernstein theorem and convex polyhedra in complex space (old and recent results) , Room 202 Dinner
Wednesday  Joint session:	(with the parallel half-workshop "Positivity of linear series and vector bundles")
7:00–9:00 9:00-9:30 9:30-9:45 9:45-10:15 10:15-10:45 10:45-11:15 11:30–13:30 17:30–19:30	Breakfast Alex Kuronya, Local positivity in convex geometric terms , Room 201 Break Xin Zhou, Asymptotic Schur decomposition of Veronese syzygy functors , Room 201 Coffee Break Tomek Szemberg, Minkowski decomposition of Okounkov bodies on surfaces, Room 201 Lunch Free Afternoon Dinner
Thursday 7:00–9:00 9:00-10:00 10:00-10:30 10:30-11:30 11:30–13:30 13:30-14:30 14:30-15:00 15:00-16:00 17:30–19:30	Breakfast Jonathan Weitsman, Integrable systems and Berenstein-Zelevinsky polytopes , Room 201 Coffee Break Michel Brion, On linearization of line bundles , Room 201 Lunch Chris Manon, Okounkov bodies and Kaveh-Harada construction for character varieties, Room 202 Coffee Break TBA, Room 202 Dinner
Friday 7:00–9:00 9:00-10:00 10:00-10:30 10:30-11:30 11:30–13:30 Checkout by	Breakfast  TBA, Room 201  Coffee Break  Informal discussions  Lunch

<sup>\*\* 5-</sup>day workshop participants are welcome to use BIRS facilities (BIRS 2nd floor lounge, TCPL and Reading Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon. \*\*

12 noon.