

for Mathematical Innovation and Discovery

Operator Algebras and Representation Theory: Frames, Wavelets and Fractals October 9-10, 2010

MEALS

Meal plan included in the workshop: buffets in the Vistas Main Dining Room, 4th floor, Sally Borden Building (breakfast: 7:00 – 9:30 am; lunch: 11:30 am – 1:30 pm; dinner: 5:30 – 7:30 pm) Coffee Breaks included in the workshop: As per daily schedule, 2nd floor lounge, Corbett Hall

MEETING ROOMS

All lectures will be held in Max Bell 159. LCD projector, overhead projectors and blackboards are available for presentations. *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 Beverages in those areas.*

SCHEDULE

Friday October 8

16:00	Check-in begins (Front Desk – Professional Development Centre - open 24 hours)
	Lecture rooms available after 16:00.

- 17:30-19:30 Dinner at the Vistas main dining room, 4th floor, Sally Borden Building 19:30 Informal gathering in 2nd floor lounge, Corbett Hall
 - Beverages and a small assortment of snacks are available in the lounge on a cash honor system.

Saturday October 9

07:00-09:00	Breakfast at the Vistas main dining room, 4th floor, Sally Borden Building
09:00-09:50	Peter Casazza (University of Missouri)
	Kadison-Singer: A few results and a lot of questions
10:00-11:00	Coffee Break, 2nd floor lounge, Corbett Hall
11:00-11:20	Shidong Li (San Francisco State University)
	Sparse dual frames and the most compact dual Gabor function
11:30-11:50	Dorin Dutkay (University of Central Florida)
	Fourier bases on fractal measures
12:00-13:30	Lunch at the Vistas main dining room, 4th floor, Sally Borden Building
13:30-13:50	Bin Han (University of Alberta)
	Some results and open problems on nonhomogeneous wavelet systems
14:00-14:20	Jean Pierre Gabardo (McMaster University)
	Convolution inequalities and Beurling density of wavelet systems
14:30-15:30	Coffee Break, 2nd floor lounge, Corbett Hall
15:30-15:50	Jens Gerlach Christensen (University of Maryland)
	Sampling and representations of Lie groups
16:00-16:20	Deguang Han (University of Central Florida)
	Group representation frames: questions and partial results
16:30-16:50	Keri Kornelson (University of Oklahoma)
	Operators on Bernoulli measures spaces
17:30-19:30	Dinner at the Vistas main dining room, 4th floor, Sally Borden Building

Sunday October 10

07:00-09:00 Breakfast
09:00-09:20 Judith Packer (University of Colorado) Operators arising from generalized multiresolution analyses
09:30-09:50 Marcin Bownik (University of Oregon) Existence of frames with prescribed norms and frame operator
10:00-10:30 Coffee Break, 2nd floor lounge, Corbett Hall
10:30-10:50 Qiyu Sun (University of Central Florida)

Nonlinear Wiener's lemma and numerical implementation

- 11:00-11:20 Sergei Silvestrov (Lund University)
- Wavelets, commutants, and representations of generalized crossed products
- 12:00 noon Checkout by 12 noon.
- 12:00-13:30 Lunch at the Vistas main dining room, 4th floor, Sally Borden Building

2-day workshops are welcome to use BIRS facilities (2nd Floor Lounge, Max Bell Meeting Rooms, Reading Room) until 15:00 on Sunday, although participants are still required to checkout of the guest rooms by 12 noon. There is no coffee break service on Sunday afternoon, but self-serve coffee and tea are always available in the 2nd floor lounge, Corbett Hall.