

## Program

# Operator Structures and Dynamical Systems

### MONDAY, July 21

- 09.00 - 09.45 Arrival and registration  
09.45 - 10.00 Opening  
Chair: Ian Putnam  
10.00 - 11.00 *Yasuo Watatani* (Fukuoka)  
Complex dynamical systems and associated  $C^*$ -algebras  
11.00 - 11.30 *Tsuyoshi Kajiwara* (Okayama)  
Countable bases for Hilbert  $C^*$ -modules and classification of KMS states  
11.30 - 11.45 Break  
11.45 - 12.15 *Gilles Castro* (Orléans)  
 $C^*$ -algebras associated to iterated function systems  
12.15 - 14.30 Lunch  
Chair: Siegfried Echterhoff  
14.30 - 15.30 *John D. Maitland Wright* (Aberdeen)  
On classifying monotone complete algebras of operators  
15.30 - 16.00 Break  
16.00 - 16.30 *Ivan Todorov* (Belfast)  
Operator multipliers  
16.30 - 16.45 Break  
16.45 - 17.15 *Erik Christensen* (Copenhagen)  
Perturbation of  $C^*$ -algebraic invariants  
17.15 Wine and cheese party in the Common Room

### TUESDAY, July 22

- Chair: Klaas Landsman  
09.30 - 10.30 *Astrid an Huef* (Sydney)  
Proper actions on  $C^*$ -algebras  
10.30 - 11.00 Break  
11.00 - 11.30 *Igor Nikolaev* (Toronto)  
noncommutative geometry as a functor  
11.30 - 11.45 Break  
11.45 - 12.15 *Jean Renault* (Orléans)  
Cartan subalgebras in  $C^*$ -algebras  
12.15 - 12.30 Group photo in front of the Lorentz Center  
12.30 - 14.30 Lunch  
Chair: Christian Skau  
14.30 - 15.30 *Ruy Exel* (Florianópolis)  
Noncommutative Cartan subalgebras of  $C^*$ -algebras  
15.30 - 16.00 Break  
16.00 - 16.30 *Patricia Hess* (São Paulo)  
 $K$ -Theory of pseudodifferential operators with semi-periodic symbols on a cylinder  
16.30 - 16.45 Break

16.45 - 17.15 *Thierry Giordano* (Ottawa)  
Topological orbit equivalence of free, minimal actions of  $\mathbb{Z}^d$  on the Cantor set

### WEDNESDAY, July 23

09.30 - 10.30 Chair: Jun Tomiyama  
*Berndt Brenken* (Calgary)  
A dynamical core for topological graphs

10.30 - 11.00 Break

11.00 - 11.30 *Kengo Matsumoto* (Yokohama)  
Symbolic dynamics,  $\lambda$ -graph systems and  $C^*$ -algebras

11.30 - 11.45 Break

11.45 - 12.15 *Takeshi Katsura* (Yokohama)  
Markov shifts, directed graphs and singly generated dynamical systems

12.15 - 14.00 Lunch

14.00 - 15.00 Chair: Toke Meier Carlsen  
*Thomas Timmermann* (Münster)  
 $C^*$ -pseudo-multiplicative unitaries and compact reduced Hopf  $C^*$ -bimodules

15.00 - 15.30 Break

15.30 - 16.00 *Shinzo Kawamura* (Yamagata)  
A chaotic property of a conjugacy connecting two tent maps

16.00 - 16.15 Break

16.15 - 16.45 *Johan Öinert* (Lund)  
Ideals in strongly graded and crystalline graded rings

17.00 Bus to boat trip with dinner

### THURSDAY, July 24

09.30 - 10.30 Chair: Chris Phillips  
*Rob Archbold* (Aberdeen)  
Strength of convergence

10.30 - 11.00 Break

11.00 - 11.30 *Julian Buck* (Eugene)  
A tracial Rokhlin property for automorphisms of non-simple  $C^*$ -algebras

11.30 - 11.45 Break

11.45 - 12.15 *Hiroyuki Osaka* (Kusatsu)  
The Rokhlin property for inclusions of  $C^*$ -algebras with a finite Watatani index

12.15 - 14.30 Lunch

14.30 - 15.30 Chair: Justin Peters  
*Eberhard Kirchberg* (Berlin)  
Exotic actions on the Cuntz algebra  $\mathcal{O}_2$

15.30 - 16.00 Break

16.00 - 16.30 *Konstantin Medynets* (Kharkov)  
States on  $K_0$ -groups of stationary Bratteli diagrams

16.30 - 16.45 Break

16.45 - 17.15 *Iain Raeburn* (Wollongong)  
The Toeplitz algebra of an  $ax + b$  semigroup

## FRIDAY, July 25

- 09.30 - 10.30 Chair: Dana Williams  
*Sergei Silvestrov* (Lund)  
Dynamical systems, actions and representations of generalized crossed product algebras – a fruitful interplay
- 10.30 - 11.00 Break
- 11.00 - 11.30 *Christian Svensson* (Leiden/Lund)  
Ideal intersection properties of commutative subalgebras of  $C^*$ -crossed products
- 11.30 - 11.45 Break
- 11.45 - 12.15 *Marten Wortel* (Leiden)  
Crossed products associated with Banach algebra dynamical systems
- 12.15 - 13.15 Lunch
- 13.15 - 14.15 Chair: Marcel de Jeu  
*Kenneth R. Davidson* (Waterloo)  
A survey of semi-crossed product operator algebras
- 14.15 Closing