## Organizing Committee

## Co-chairs

Michael Choi
National University of Singapore
Pierre Patie Cornell University

Laurent Miclo Toulouse School of Economics and CNRS


Venue
IMS Auditorium
Institute for Mathematical Sciences
3 Prince George's Park Singapore 118402

## Workshop

## 12-15 August 2024

| Monday, 12 Aug 2024 |  |  |  |
| :--- | :--- | :--- | :--- |
| Time | Title | Speaker |  |
| $0900-0930$ | Registration |  |  |
| $0930-1030$ | Several interacting particle systems on lattices have <br> duality functions that are products of single-site <br> duality functions (Part I) | Sabine Jansen <br> Mathematisches Institut der <br> Universität München, Germany |  |
| $1030-1100$ | Coffee Break | Sabine Jansen <br> Mathematisches Institut der <br> Universität München, Germany |  |
| $1100-1200$ | Several interacting particle systems on lattices have <br> duality functions that are products of single-site <br> duality functions (Part II) | San |  |
| $1200-1400$ | Lunch Break | Marc Arnaudon <br> Université of Bordeaux, France |  |
| $1400-1500$ | Couplings of Brownian Motions with Set-Valued Dual <br> Processes on Riemannian Manifolds |  |  |
| $1500-1530$ | Coffee Break | On the separation cut-off phenomenon for Brownian <br> motions on high dimensional rotationally symmetric <br> compact manifolds | Kolehe Coulibaly-Pasquier <br> Université de Lorraine, France |
| $1530-1630$ | Interacting particle systems, conditioned random <br> walks and the Aztec diamond | Theo Assiotis <br> University of Edinburgh, UK |  |
| $1630-1730$ |  |  |  |


| Tuesday, 13 Aug 2024 | Speaker |  |  |
| :--- | :--- | :--- | :---: |
| Time | Title |  |  |
| $0915-0930$ | Registration | Jan Swart <br> Czech Academy of Sciences, Czech <br> Republic |  |
| $0930-1030$ | A numerical search for intertwining relations |  |  |
| $1030-1100$ | Coffee Break | Neil O'Connell <br> University College Dublin, Ireland |  |
| $1100-1200$ | Discrete Whittaker processes |  |  |
| $1200-1400$ | Group Photo \& Lunch Reception at IMS | Matthias Winkel <br> Oxford University, UK |  |
| $1400-1500$ | Projections of the Aldous chain on binary trees: <br> Intertwining and consistency |  |  |
| $1500-1530$ | Coffee Break |  |  |

Tuesday, 13 Aug 2024

| Time | Title | Speaker |
| :--- | :--- | :--- |
| 1530 Ý630 | Single impurity in a step initial profile of the Totally <br> Asymmetric Simple Exclusion Process | Ali Zahra <br> Instituto Superior Técnico, <br> Portugal |
| $1630-1730$ | An algebraic perspective for scaling limits of non-self- <br> adjoint operators | Filip Stojanovic <br> Cornell University, USA |


| Wednesday, 14 Aug 2024 |  |  |
| :---: | :---: | :---: |
| Time | Title | Speaker |
| 0915-0930 | Registration |  |
| 0930-1030 | On the intertwining approach for proving Poincare type functional inequalities | Aldéric Joulin Institut de Mathématiques de Toulouse, France |
| 1030-1100 | Coffee Break |  |
| 1100-1200 | Mixing \& scaling limits of the averaging process | Federico Sau University of Trieste, Italy |
| 1200-1400 | Lunch Break |  |
| 1400-1500 | Intertwining of some Markov semigroups on Carnot groups of step 2 | Rohan Sarkar Cornell University, USA |
| 1500-1530 | Coffee Break |  |
| 1530-1630 |  | Andrew Chee Cornell University, USA |
| 1630-1700 | Coffee Break |  |
| 1700 | Conference Dinner <br> 1-way transfer provided to Vivocity Dinner at Crystal Jade Pavilion |  |


| Thursday, 15 Aug 2024 |  |  | Speaker |
| :--- | :--- | :--- | :--- |
| Time | Title |  |  |
| $0915-0930$ | Registration | Laurent Miclo <br> Toulouse School of Economics and <br> CNRS, France |  |
| $0930-1030$ | On finite interweaving relations |  |  |
| $1030-1100$ | Coffee Break | Mladen Savov <br> Sofia University and Bulgarian <br> Academy of Sciences, Bulgari |  |
| $1100-1200$ |  |  |  |
| $1200-1400$ | Intertwining of non-self-adjoint Markov semigroups |  |  |

Workshop

| Thursday, 15 Aug 2024 | 12-15 August 2024 |  |  |
| :--- | :--- | :--- | :---: |
| Time | Title | Speaker |  |
| $1400-1500$ |  | Guillaume Barraquand <br> CNRS, France |  |
| $1500-1530$ | Coffee Break | Dario Spano <br> Warwick University, UK |  |
| $1530-1630$ |  | Michael Choi <br> National University of Singapore, <br> Singapore |  |
| $1630-1730$ |  |  |  |

This schedule is accurate as of 04 Jul 2024 and is subjected to changes.

