

Intertwining between Probability, Analysis and Statistical Physics (05 Aug 2024–15 Aug 2024)

List of Speakers & Talks' Title(s) & Slides

Name & Affiliation	Talk Title
Marc Arnaudon Université of Bordeaux, France	Couplings of Brownian Motions with Set-Valued Dual Processes on Riemannian Manifolds (Slides)
Theo Assiotis University of Edinburgh, UK	Interacting particle systems, conditioned random walks and the Aztec diamond
Guillaume Barraquand Centre National de la Recherche Scientifique (CNRS), France	Last passage percolation in a strip (Slides)
Andrew Chee Cornell University, USA	Canonical Lifting of Intertwining to Higher Dimensions and Applications
Reda Chhaibi Université Toulouse III, France	A one-parameter family of intertwining using curvature, and Pitman's celebrated 2M-X theorem
Michael Choi National University of Singapore, Singapore	A rate-distortion framework for MCMC algorithms: geometry and factorization of multivariate Markov chains
Kolehe Coulibaly-Pasquier Université de Lorraine, France	On the separation cut-off phenomenon for Brownian motions on high dimensional rotationally symmetric compact manifolds (Slides)
Persi Diaconis Stanford University, USA	<i>IMS Distinguished Visitor Lecture Series</i> An Introduction to Intertwining via Strong Stationary Duality (Video1) (Video2) (Video3) (Video4)
Cristian Giardinà Università degli Studi di Modena e Reggio Emilia, Italy	<i>Mini Course</i> Duality of Markov Processes: a Lie Algebraic Approach
Sabine Jansen Ludwig-Maximilians-Universität München, Germany	Intertwining for interacting particle systems in the continuum (Slides1) (Slides2)
Aldéric Joulin University of Toulouse, France	On the intertwining approach for proving Poincaré type functional inequalities (Slides)

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Laurent Miclo Centre National de la Recherche Scientifique (CNRS), France	Mini Course On Set-Valued Intertwining Duality for Diffusion Processes (Slides1) (Slides2) (Slides3) (Slides4) On finite interweaving relations (Slides)
Neil O'Connell University College Dublin, Ireland	Discrete Whittaker processes (Slides)
Rohan Sarkar Cornell University, USA	Intertwining of some Markov semigroups on Carnot groups of step 2
Federico Sau University of Trieste, Italy	Mixing & scaling limits of the averaging process (Slides)
Mladen Savov Institute of Mathematics and Informatics, Bulgaria	Intertwining of non-self-adjoint Markov semigroups
Dario Spano University of Warwick, UK	Dualities and intertwining in population genetics diffusions and beyond
Filip Stojanovic Cornell University, USA	An algebraic perspective for scaling limits of non-self adjoint operators
Jan Swart Czech Academy of Sciences, Czech Republic	A numerical search for intertwining relations (Slides)
Matthias Winkel Oxford University, UK	Projections of the Aldous chain on binary trees: Intertwining and consistency
Ali Zahra Instituto Superior Técnico, Portugal	Single impurity in a step initial profile of the Totally Asymmetric Simple Exclusion Process (Slides)