

# SPA

2023



43<sup>rd</sup> Conference on Stochastic Processes and their Applications

july 24-28<sup>th</sup>

LISBOA PORTUGAL

Faculty of Sciences of the University of Lisbon

CONFERENCE  
PROGRAMME

[www.spa2023.org](http://www.spa2023.org)

Organized by



**Bernoulli Society**  
for Mathematical Statistics  
and Probability

**U LISBOA**

UNIVERSIDADE  
DE LISBOA



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## PRACTICAL INFORMATION

### Venue

#### FACULTY OF SCIENCES OF THE UNIVERSITY OF LISBON

Address: Campo Grande 016,1749-016 Lisbon

**How to get there:** Getting to the Faculty of Sciences of the University of Lisbon is easy and quick, by bus, metro/subway (*Cidade Universitária station* (yellow line) and *Campo Grande station* (yellow and green lines)), Train (*Entrecampos Station*), car or even bicycle (*cycle lanes*). For more information, please refer to the conference website.

### Emergency at the Venue

FCUL has an internal emergency plan, including first aid with AED and fire intervention.

More information on <https://ciencias.ulisboa.pt/en/emergency> and <https://ciencias.ulisboa.pt/en/safety-plans>

**Emergency contacts at FCUL:** Phone: (+ 351) 217 500 600 (use only for emergencies)

### Internet

At FCUL the EDUROAM network is available. To use WiFi you need to be affiliated with an EDUROAM institution and have your laptop prepared for the EDUROAM network. EDUROAM is an international collaboration between educational institutions all over the world and provides secure and encrypted wireless access. EDUROAM requires modifications in your computer settings. Further information can be found at the website [www.eduroam.org](http://www.eduroam.org)

### Welcome Desk – located in Building C3

OPENING HOURS				
Monday, 24 <sup>th</sup> July	Tuesday, 25 <sup>th</sup> July	Wednesday, 26 <sup>th</sup> July	Thursday, 27 <sup>th</sup> July	Friday, 28 <sup>th</sup> July
08:00 – 18:00	08:00 – 18:00	08:30 – 13:00	08:30 – 13:00	08:30 – 13:00

### Lunches and coffee-breaks

Coffee-breaks will take place at the FCUL Campus at Building C3 - on Monday to Friday at 10:20-10:50 and on Monday, Tuesday and Thursday at 15:45-16:15.

On Monday, Tuesday and Thursday – lunch box will be provided at Building C3 at 12:30

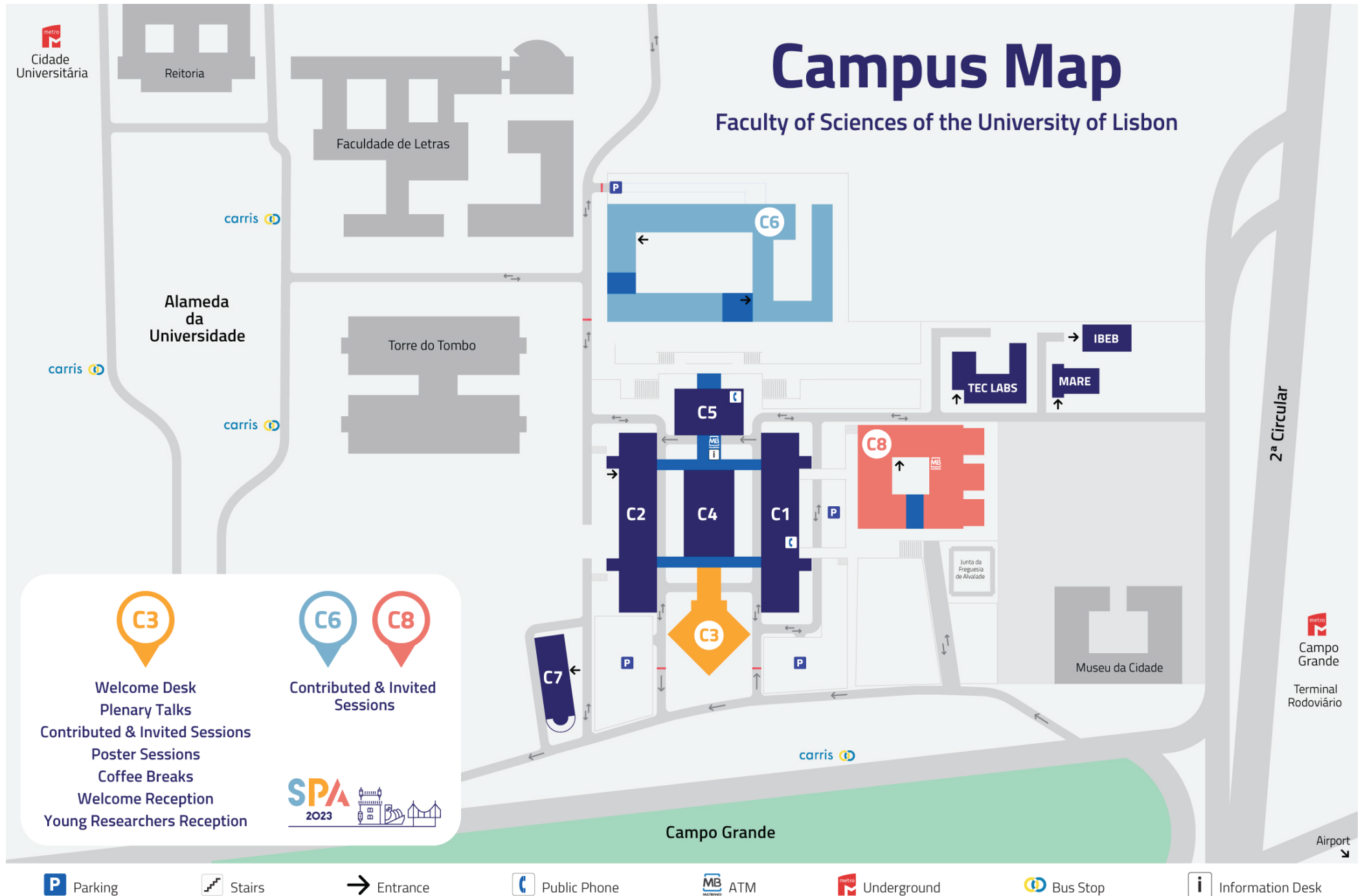
There are a number of restaurants located on the campus area. Below you can find some suggestions.

### Inside the Campus

- Bar – Building C6, level 1
- Bar (ATFCUL) – Building C2, level 1
- Bar and Esplanade – Building C5, level 2
- Bar (Students Association) – Building C7, level 2
- Bar and Cafeteria (ATFCUL) – Building C7, level 2
- Convenience Store – Building C7, level 1
- Bar (ATFCUL) – Building C8, level 2

### Outside the Campus

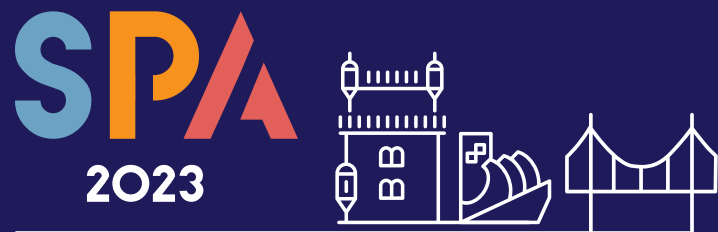
- Tutti a Tavola – Italian food – Address: Jardim Mário Soares, 1700-097 Lisboa
- Caso do Lago – Portuguese food – Address: Campo Grande 294, 1700-097 Lisboa
- Jockey Restaurante – Portuguese food – Address: Sociedade Hípica Portuguesa - Hipódromo do Campo Grande, 1600-008 Lisboa
- BarNeário Gastrobar – Address: Casa Raul Lino, Jardim do Campo Grande Sul, 1700-094 Lisboa – Note: Monday and Tuesday closed
- Capas Negras - O Sportinguista – Portuguese food – Address: Rua Dr. João Soares 2B, 1600-060 Lisboa
- Restaurante Borges – Portuguese food – Address: Rua Dr. João Soares 6, 1600-067 Lisboa
- Quiosque Pimenta – Address: Campo Grande 245, 1700-091 Lisboa
- 100 Montaditos - Tapas Bar – Address: Campo Grande C7, Lisboa
- Uspot Campo Grande 115 – Address: Campo Grande 115B, 1700-089 Lisboa
- Macdonald's Campo Grande – Address: Jardim do Campo Grande, 1700-090 Lisboa



# PROGRAMME OVERVIEW

Monday, 24 <sup>th</sup> JULY		Tuesday, 25 <sup>th</sup> JULY		Wednesday, 26 <sup>th</sup> JULY		Thursday, 27 <sup>th</sup> JULY		Friday, 28 <sup>th</sup> JULY	
B.F.R 3.2.14	09:00-09:30 Opening Ceremony	B.F.R 3.2.14	09:30-10:20 <b>Medallion lectures:</b> Sylvia Serfaty (NYU) <i>Coulomb gases: dynamics and statistical equilibrium</i>	B.F.R 3.2.14	09:30-10:20 <b>Doob lecture:</b> René Carmona (Princeton Univ, APP) <i>Optimal control of conditional processes</i>	B.F.R 3.2.14	09:30-10:20 <b>Medallion lecture:</b> Richard Kenyon (Yale University) <i>Dimers and tensor networks</i>	B.F.R 3.2.14	09:30-10:20 <b>Doebelin prize lecture:</b> Yinon Spinka (University of British Columbia) – <i>Characterizing (non)amenability through stochastic domination and finitary codings</i>
Bldg. C3	10:20-10:50 <b>Coffee break and Poster Sessions</b>	Bldg. C3	10:20-10:50 <b>Coffee break and Poster Sessions</b>	Bldg. C3	10:20-10:50 <b>Coffee break</b>	Bldg. C3	10:20-10:50 <b>Coffee break and Poster Sessions</b>	Bldg. C3	10:20-10:50 <b>Coffee break</b>
B.F.R 3.2.14	10:50-11:40 <b>Plenary lecture:</b> Gesine Reinert (University of Oxford) <i>Stein's method for network distributions</i>	B.F.R 3.2.14	10:50-11:40 <b>Plenary lecture:</b> Riddhipratim Basu (Tata Institute) <i>Large scale geometry of two dimensional KPZ models</i>	B.F.R 3.2.14	10:50-12:30 <b>Contributed &amp; Invited Sessions 5:</b> IS3 - Stochastic models in epidemiology and evolution IS4 - Interacting particle systems IS7 - Random dynamics systems IS18 - Quantitative homogenization IS19 - Recent advances in stochastic fluid dynamics CS6 - On analytical methods for stochastic PDEs CS16 - Qualitative analysis of solutions to (S)PDEs CS30 - Lévy-based spatio-temporal processes: inference and forecast CS31 - Geometry of spherical random fields CS33 - Genealogies of branching processes CS38 - Recent advances in exact simulation CS45 - Statistics for high-dimensional stochastic processes	B.F.R 3.2.14	10:50-11:40 <b>Plenary lecture:</b> Makiko Sasada (Tokyo University) <i>Probabilistic approaches to discrete integrable systems</i>	B.F.R 3.2.14	10:50-11:40 <b>Plenary lecture:</b> Martina Hofmanová (Bielefeld University) <i>Anomalous and total dissipation due to advection by Navier-Stokes equations</i>
B.F.R 3.2.14	11:40-12:30 <b>Schramm lecture:</b> Louigi Addario-Berry (McGill University) <i>Some recent results in probability</i>	B.F.R 3.2.14	11:40-12:30 <b>Itô prize lecture:</b> Andrey Pilipenko (National Academy of Sciences of Ukraine) and Oleksandr Iksanov (University of Kyiv) <i>On a skew stable Lévy process</i>	B.F.R 3.2.14	11:40-12:30 <b>Contributed &amp; Invited Sessions 6:</b> IS1 - Integrable probability IS6 - Mixing times, cutoff and limit profiles IS16 - Interacting random walks IS25 - Combinatorial probability IS26 - Machine learning and probability CS5 - Recent development of Gaussian approximation CS11 - Statistical mechanics and stochastic PDEs CS19 - Probabilistic methods for Stefan-type equations CS34 - Numerical analysis for solutions to penalized BSDE, McKean-Vlasov equation and path-dependent McKean-Vlasov equation CS35 - Dependence and limit theorems I CS37 - Wiener chaos, orthogonal polynomials, and intertwinings CS40 - Recent progresses on random dynamical systems	B.F.R 3.2.14	11:40-12:30 <b>Plenary lecture:</b> Jean-Dominique Deuschel (Berlin University) <i>An isomorphism theorem for anharmonic fields and scaling limits</i>	B.F.R 3.2.14	11:40-12:30 <b>Medallion lecture:</b> Massimiliano Gubinelli (Oxford University) <i>Stochastic equations for Euclidean fields</i>
Bldg. C3	12:30-14:00 <b>Lunch break</b> (with lunch box)	Bldg. C3	12:30-14:00 <b>Lunch break</b> (with lunch box)	Bldg. C3	12:30-14:00 <b>Lunch break</b> (with lunch box)	Bldg. C3	12:30-14:00 <b>Lunch break</b> (with lunch box)	Bldg. C3	12:30-13:00 <b>Closing Ceremony</b>
B.F.R 3.2.14	14:00-15:45 <b>Contributed &amp; Invited Sessions 1:</b> IS8 - Entropy and geometry in stochastic analysis IS20 - Non-equilibrium statistical mechanics IS24 - Mean field games IS28 - Numerical methods for stochastic differential equations: standard, mean-field and forward-backward CS7 - Asymptotic methods in stochastic models CS8 - From nonlinear PDEs to singular McKean-Vlasov SDEs and nonlinear Markov processes CS13 - Stochastic fluid-dynamics CS15 - Jump diffusion models CS18 - Stochastic processes resulting from dynamics of cancer growth and genomic analyses CS20 - Interacting Markov processes related to random matrices CS41 - Constrained and interacting stochastic dynamics I CS43 - Branching processes	B.F.R 3.2.15	14:00-15:45 <b>Contributed &amp; Invited Sessions 3:</b> IS5 - Convex hulls of random walks on a skew stable Lévy process IS10 - Stochastic optimal transportation IS11 - Stochastic calculus on manifolds IS22 - KPZ universality class IS27 - Stochastic geometric mechanics and fluid dynamics CS9 - Regularisation by noise CS10 - Perturbed ODEs: stochastic oscillations, small noise limit and critical fluctuations CS22 - Limit theorems and local times for Markov processes: Part I CS26 - Scaling limits in stochastic non-Markovian epidemic models CS39 - Infinite dimensional stochastic calculus and applications CS44 - Boundary crossing problems for diffusion processes CS51 - Dependent limit theorems	B.F.R 3.2.14	14:00-15:45 <b>Contributed &amp; Invited Sessions 7:</b> IS9 - Stein method IS12 - Singular SPDEs IS13 - Random planar metric spaces IS17 - Random walks in random environments CS21 - Recent progress in random fields and SPDEs CS24 - Topics in integrable probability CS36 - Dependence and limit theorems II CS46 - Gradient flows and mean-field optimization CS47 - Applications in finance and insurance: Regime switching processes and term structure of interest rates CS48 - Advances in branching processes with applications in biology CS50 - Stochastic modelling and its applications	B.F.R 3.2.14	14:00-15:45 <b>Contributed &amp; Invited Sessions 6:</b> IS1 - Integrable probability IS6 - Mixing times, cutoff and limit profiles IS16 - Interacting random walks IS25 - Combinatorial probability IS26 - Machine learning and probability CS5 - Recent development of Gaussian approximation CS11 - Statistical mechanics and stochastic PDEs CS19 - Probabilistic methods for Stefan-type equations CS34 - Numerical analysis for solutions to penalized BSDE, McKean-Vlasov equation and path-dependent McKean-Vlasov equation CS35 - Dependence and limit theorems I CS37 - Wiener chaos, orthogonal polynomials, and intertwinings CS40 - Recent progresses on random dynamical systems	B.F.R 3.2.14	14:00-15:45 <b>Contributed &amp; Invited Sessions 7:</b> IS9 - Stein method IS12 - Singular SPDEs IS13 - Random planar metric spaces IS17 - Random walks in random environments CS21 - Recent progress in random fields and SPDEs CS24 - Topics in integrable probability CS36 - Dependence and limit theorems II CS46 - Gradient flows and mean-field optimization CS47 - Applications in finance and insurance: Regime switching processes and term structure of interest rates CS48 - Advances in branching processes with applications in biology CS50 - Stochastic modelling and its applications
Bldg. C3	15:45-16:15 <b>Coffee break and Poster Sessions</b>	Bldg. C3	15:45-16:15 <b>Coffee break and Poster Sessions</b>	Bldg. C3	15:45-16:15 <b>Coffee break and Poster Sessions</b>	Bldg. C3	15:45-16:15 <b>Coffee break and Poster Sessions</b>	Bldg. C3	15:45-16:15 <b>Coffee break and Poster Sessions</b>
B.F.R 3.2.14	16:15-18:00 <b>Contributed &amp; Invited Sessions 2:</b> IS2 - Random matrices and number theory IS19 - Graphons and their applications to biological networks IS29 - Financial mathematics IS30 - Statistical extreme value theory CS1 - Recent trends in stochastic partial differential equations CS3 - Various aspects of determinantal point processes CS12 - Stochastic geometric mechanics and non-equilibrium thermodynamics CS14 - Branching processes with dependencies CS17 - Non-linear heat equations perturbed by multiplicative fractional noises CS29 - Boundary driven exclusion processes CS32 - Recent advances in Lévy processes CS42 - Constrained and interacting stochastic dynamics II	B.F.R 3.2.14	16:15-18:00 <b>Contributed &amp; Invited Sessions 4:</b> IS14 - Statistical mechanical models IS15 - Random conformal geometries and field theories IS21 - Persistence probabilities IS23 - Optimal transport and stochastic dynamics CS2 - Inference for stochastic processes CS23 - Limit theorems and local times for Markov processes: Part II CS25 - Copulae and stochastic processes CS27 - Topics in population genetics CS28 - Stochastic processes for manifold estimation CS49 - Interacting systems and KPZ universality	B.F.R 3.2.14	16:15-18:00 <b>Contributed &amp; Invited Sessions 7:</b> IS9 - Stein method IS12 - Singular SPDEs IS13 - Random planar metric spaces IS17 - Random walks in random environments CS21 - Recent progress in random fields and SPDEs CS24 - Topics in integrable probability CS36 - Dependence and limit theorems II CS46 - Gradient flows and mean-field optimization CS47 - Applications in finance and insurance: Regime switching processes and term structure of interest rates CS48 - Advances in branching processes with applications in biology CS50 - Stochastic modelling and its applications	B.F.R 3.2.14	16:15-18:00 <b>Contributed &amp; Invited Sessions 7:</b> IS9 - Stein method IS12 - Singular SPDEs IS13 - Random planar metric spaces IS17 - Random walks in random environments CS21 - Recent progress in random fields and SPDEs CS24 - Topics in integrable probability CS36 - Dependence and limit theorems II CS46 - Gradient flows and mean-field optimization CS47 - Applications in finance and insurance: Regime switching processes and term structure of interest rates CS48 - Advances in branching processes with applications in biology CS50 - Stochastic modelling and its applications		
Bldg. C3	18:15-20:00 <b>Welcome Reception</b>	Bldg. C3	18:15-19:15 <b>Young Researchers Reception</b>	Bldg. C3	18:15-19:15 <b>Young Researchers Reception</b>	Bldg. C3	18:15-19:00 <b>Public Lecture*:</b> Persi Diaconis (Stanford University) <i>The mathematics of solitaire</i> <small>*(this session is open to all and it is not part of the conference programme)</small>	Bldg. C3	18:15-19:00 <b>Public Lecture*:</b> Persi Diaconis (Stanford University) <i>The mathematics of solitaire</i> <small>*(this session is open to all and it is not part of the conference programme)</small>
							20:00 <b>Conference Dinner</b>		

**Glossary**  
Bldg. = Building  
B.F.R = Bldg.Floor.Room = 0.0.00



43<sup>rd</sup> Conference on Stochastic Processes and their Applications

## CONFERENCE PROGRAMME

### Monday, 24<sup>th</sup> JULY

09:00-09:30	<b>Opening Ceremony</b>
09:30-10:20	<b>Lévy lecture:</b> Horng-Tzer Yau (Harvard University) <i>Spectral statistics of random matrices and random graphs</i>
10:20-10:50	<b>Coffee break and Poster Sessions</b>
10:50-11:40	<b>Plenary lecture:</b> Gesine Reinert (University of Oxford) <i>Stein's method for network distributions</i>
11:40-12:30	<b>Schramm lecture:</b> Louigi Addario-Berry (McGill University) <i>Some recent results in probability</i>
12:30-14:00	<b>Lunch break</b> (with lunch box)
14:00-15:45	<b>Contributed &amp; Invited Sessions 1</b>

- IS8 ENTROPY AND GEOMETRY IN STOCHASTIC ANALYSIS**  
Organizer: Xiang-Dong Li, Chinese Academy of Sciences
- The Littlewood-Paley-Stein inequality for Dirichlet space tamed by distributional curvature lower bounds**  
Kazuhiro Kuwae<sup>1</sup>  
1 - Department of Applied Mathematics, Fukuoka University
- On the W-entropy and NFW formula on Riemannian manifolds and Ricci flow**  
Xiang-Dong Li<sup>1</sup>  
1 - Academy of Mathematics and Systems Science, Chinese Academy of Sciences
- Differential Harnack inequalities on general path spaces**  
Bo Wu<sup>1</sup>  
1 - Fudan University
- IS20 NON-EQUILIBRIUM STATISTICAL MECHANICS**  
Organizer: Marielle Simon, Université Lyon 1
- Fluctuations in WASEP on a ring subject to an atypical current**  
Benoît Dagallier<sup>1</sup>  
1 - University of Cambridge
- Localization and delocalization for a class of degenerate convex gradient interface model**  
Paul Dario<sup>1</sup>  
1 - Université Paris Est Créteil
- Spectral gap for long-range interactions in harmonic chain of oscillator**  
Angeliki Menegaki<sup>1</sup>  
1 - IHES Paris
- IS24 MEAN FIELD GAMES**  
Organizer: François Delarue, University of Nice
- Master equations for extended MFG and MFG with a major player**  
Chenchen Mou<sup>1</sup>  
1 - City University of Hong Kong
- The Convergence rate of vanishing viscosity approximations for mean field games**  
Wenpin Tang<sup>1</sup>  
1 - Columbia University
- On the long time behavior of mean field control problems**  
Alekos Cecchin<sup>1</sup>  
1 - Università di Padova

**IS28 NUMERICAL METHODS FOR STOCHASTIC DIFFERENTIAL EQUATIONS: STANDARD, MEAN-FIELD AND FORWARD-BACKWARD**Organizer: **Gonçalo Dos Reis**, The University of EdinburghNumerical approximation of McKean-Vlasov SDEs via SGDGonçalo Dos Reis<sup>1</sup>  
1 - *The University of Edinburgh, UK*A posteriori error estimates for fully coupled McKean-Vlasov forward-backward SDEsWolfgang Stockinger<sup>1</sup>  
1 - *Imperial College London, UK*High order splitting methods for SDEs satisfying a commutativity conditionJames Foster<sup>1</sup>  
1 - *The University of Bath, UK***CS7 ASYMPTOTIC METHODS IN STOCHASTIC MODELS**Organizer: **Yan Dolinsky**, The Hebrew University of JerusalemAn approximation of populations on a habitat with large carrying capacityNaor Bauman<sup>1</sup>, Pavel Chigansky<sup>2</sup>, Fima Klebaner<sup>2</sup>  
1 - *The Hebrew University of Jerusalem, Israel*; 2 - *Monash University, Australia*A stochastic energy-balance model with moving ice lineIlya Pavlyukevich<sup>1</sup>  
1 - *Friedrich Schiller University Jena, Germany*Utility indifference pricing with high risk aversion and small linear price impactYan Dolinsky<sup>1</sup>  
1 - *The Hebrew University of Jerusalem, Israel***CS8 FROM NONLINEAR PDES TO SINGULAR MCKEAN-VLASOV SDEs AND NONLINEAR MARKOV PROCESSES**Organizer: **Marco Rehmeier**, Scuola Normale Superiore PisaEntropy estimate between diffusion processes and application to McKean-Vlasov SDEsPanpan Ren<sup>1</sup>  
1 - *City University of Hong Kong*;Nonlinear Fokker-Planck equations with fractional Laplacian and McKean-Vlasov SDEs with Lévy-NoiseMichael Röckner<sup>1</sup>  
1 - *Fakultät für Mathematik, Universität Bielefeld and Academy of Mathematics and Systems Science, CAS, Beijing*On nonlinear Markov processes in the sense of McKeanMarco Rehmeier<sup>1</sup>  
1 - *Scuola Normale Superiore Pisa***CS13 STOCHASTIC FLUID-DYNAMICS**Organizer: **Margherita Zanella**, Politecnico di MilanoNo blow-up by nonlinear Itô noise for Euler equationsMarco Bagnara<sup>1</sup>  
1 - *Scuola Normale Superiore*Distributional solutions for Euler equations with Kraichnan noiseMichele Coghi<sup>1</sup>  
1 - *Università degli Studi di Trento*A Stochastic Particle Approximation Approach of the 2D Navier-Stokes Equations with Vorticity GenerationEliseo Luongo<sup>1</sup>  
1 - *Scuola Normale Superiore***CS15 JUMP DIFFUSION MODELS**Organizer: **Markus Riedle**, King's College London; **Anita Behme**, TU DresdenGradient formula for transition semigroup corresponding to stochastic equation driven by a system of independent Lévy processesSzymon Peszat<sup>1</sup>  
1 - *Institute of Mathematics, Jagiellonian University*Certain jump diffusion models and their inferenceJan Rosinski<sup>1</sup>  
1 - *University of Tennessee, Knoxville, USA*Concentration analysis of multivariate elliptic diffusionsLukas Trottnner<sup>1</sup>  
1 - *Aarhus University***CS18 STOCHASTIC PROCESSES RESULTING FROM DYNAMICS OF CANCER GROWTH AND GENOMIC ANALYSES**Organizer: **Marek Kimmel**, Rice UniversityMutation accumulation in growing cell populationsTibor Antal<sup>1</sup>  
1 - *School of Mathematics, University of Edinburgh*Probabilistic analysis of partial sequence reads in the genomeBrandon Legried<sup>1</sup>  
1 - *Georgia Institute of Technology, School of Mathematics*Analysis of a countable-type branching process model for the tug-of-war cancer cell dynamicsRen-Yi Wang<sup>1</sup>  
1 - *Rice University***CS20 INTERACTING MARKOV PROCESSES RELATED TO RANDOM MATRICES**Organizer: **Elia Bisi**, Universität WienOn some interacting particle systems related to random matricesTheodoros Assiotis<sup>1</sup>  
1 - *University of Edinburgh*Probabilistic methods in the asymptotic analysis of Fredholm PfaffiansWill Fitzgerald<sup>1</sup>  
1 - *University of Manchester*Matrix Whittaker processesJonas Arista<sup>1</sup>  
1 - *Bielefeld University***CS41 CONSTRAINED AND INTERACTING STOCHASTIC DYNAMICS**Organizer: **Nicholas Georgiou**, Durham UniversityDeposition, diffusion, and nucleation on an intervalNicholas Georgiou<sup>1</sup>  
1 - *Durham University*Loop-erased random walk and scaling limits of uniform spanning treesEleanor Archer<sup>1</sup>  
1 - *University Paris-Nanterre*Brownian motion drifted by random vector fieldsIsao Sauzedde<sup>1</sup>  
1 - *University of Warwick***CS43 RANCHING PROCESSES**Organizer: **Mine Caglar**, Koc UniversityGeneralized Hawkes shot-noise processesMine Caglar<sup>1</sup>  
1 - *Koc University*The total mass of branching Brownian motion among random obstaclesMehmet Öz<sup>1</sup>  
1 - *Özyeğin University*The edge-reinforced branching random walk on the triangleGiordano Giambartolomei<sup>1</sup>  
1 - *King's College London*

15:45-16:15 Coffee break and Poster Sessions

16:15-18:00 Contributed &amp; Invited Sessions 2

**IS2 RANDOM MATRICES AND NUMBER THEORY**

Organizer: Paul Bourgade, NYU

**On consecutive values of random completely multiplicative functions**Joseph Najnudel<sup>1</sup>  
1 - *University of Bristol***On the large deviations of Selberg's central limit theorem**Emma Bailey<sup>1</sup>  
1 - *City University of New York***The Fyodorov-Hiary-Keating conjecture**Paul Bourgade<sup>1</sup>  
1 - *NYU***IS19 GRAPHONS AND THEIR APPLICATIONS TO BIOLOGICAL NETWORKS**

Organizer: Viet Chi Tran, Université Gustave Eiffel

**Multivariate Hawkes processes on inhomogeneous random graph and long-term stability**Zoé Agathe-Nerine  
1 - *Université Paris Cité***Individual based infection models on (not so) dense large random networks**Aurélien Velleret<sup>1</sup>  
1 - *MaIAGE, Inrae, Jouy-en-Josas***Dense multigraphon-valued stochastic processes and edge-changing dynamics in the configuration model**Zhuosong Zhang<sup>1</sup>  
1 - *Southern University of Science and Technology***IS29 FINANCIAL MATHEMATICS**

Organizer: Carlos Oliveira, Norwegian University of Science and Technology

**A new algorithm to compute HMM parameters**Diogo Pereira<sup>1</sup>; Cláudia Nunes<sup>1</sup>  
1 - *CEMAT and Instituto Superior Técnico***VIX pricing in generalized rough Bergomi models**Henrique Guerreiro<sup>1</sup>  
1 - *ISEG-School of Economics and Management, Universidade de Lisboa; REM - Research in Economics and Mathematics, CEMAPRE***Perpetual American standard and lookback options with event risk and asymmetric information**Pavel Gapeev<sup>1</sup>  
1 - *The London School of Economics and Political Sciences***IS30 STATISTICAL EXTREME VALUE THEORY**

Organizer: Marta Ferreira, University of Minho

**An integer-valued M4 process**Ana Paula Martins<sup>1</sup>  
1 - *Universidade da Beira Interior, Departamento de Matemática, Centro de Matemática e Aplicações, Covilhã***Comparison of parameters' estimation methods in EVT**Dora Gomes<sup>1</sup>  
1 - *Faculdade de Ciências e Tecnologia and CMA/FCT, Universidade Nova de Lisboa***On the estimation of the extreme value index with probability weighted moments**Frederico Caeiro<sup>1</sup>; M. Ivette Gomes<sup>2</sup>  
1 - *Centro de Matemática e Aplicações (CMA), Universidade Nova de Lisboa; 2 - CEaUL, Universidade de Lisboa***CS1 RECENT TRENDS IN STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS**

Organizer: Dirk Blömker, Universität Augsburg; Jonas Tölle, Aalto University

**Stochastic evolution equations on networks**Luigi Amedeo Bianchi<sup>1</sup>  
1 - *University of Trento***Cellular automata in self-organized criticality and their continuum limits**Benjamin Gess<sup>1</sup>  
1 - *Bielefeld University and MPI MIS Leipzig***Bifurcation theory for SPDEs: finite-time Lyapunov exponents and amplitude equations**Alexandra Neamtu<sup>1</sup>  
1 - *University of Konstanz***CS3 VARIOUS ASPECTS OF DETERMINANTAL POINT PROCESSES**

Organizer: Alessandra Occelli, Université d'Angers; Ofer Busani, University of Bonn

**Determinantal point processes via Riemann-Hilbert problems**Sofia Tarricone<sup>1</sup>  
1 - *IPhT CEA Paris-Saclay***Determinantal point processes and combinatorial problems on symmetric groups**Harriet Walsh<sup>1</sup>  
1 - *LAREMA, Université d'Angers***Determinantal point processes and orthogonal polynomials**Daniel Ofner<sup>1</sup>  
1 - *Hebrew University of Jerusalem***CS12 STOCHASTIC GEOMETRIC MECHANICS AND NONEQUILIBRIUM THERMODYNAMICS**

Organizer: Qiao Huang, Nanyang Technological University

**Schrödinger meets Onsager**Qiao Huang<sup>1</sup>  
1 - *Nanyang Technological University***The Hamilton-Jacobi theory for stochastic contact Hamiltonian systems**Pingyuan Wei<sup>1</sup>  
1 - *Beijing International Center for Mathematical Research, Peking University***A stochastic fractional Schrödinger equation with multiplicative noise**Ao Zhang<sup>1</sup>  
1 - *Central South University***CS14 BRANCHING PROCESSES WITH DEPENDENCIES**

Organizer: Sophie Hautphenne, The University of Melbourne

**Scaling limits of critical controlled multitype branching processes**Miguel González<sup>1</sup>  
1 - *University of Extremadura. Department of Mathematics.***A branching process with oscillations to model predator-prey systems**Cristina Gutiérrez<sup>1</sup>; Carmen Minuesa<sup>2</sup>  
1 - *Faculty of Business, Finance and Tourism; University of Extremadura; 2 - Faculty of Sciences; University of Extremadura***Population-dependent two-sex processes with random mating and overlapping generations**Manuel Molina<sup>1</sup>; Manuel Mota<sup>1</sup>  
1 - *Department of Mathematics. University of Extremadura*

**CS17 NON-LINEAR HEAT EQUATIONS PERTURBED BY MULTIPLICATIVE FRACTIONAL NOISES**

Organizer: José Alfredo López-Mimbela, Centro de Investigación en Matemáticas, A.C.

**Estimates of blowup times of a semilinear stochastic parabolic equation with a gradient dependent noise**Ekaterina Kolkovska<sup>1</sup><sup>1</sup> - Centro de Investigación en Matemáticas, A.C.**Blowup probability of semilinear SPDEs driven by a rough Gaussian noise**Gerardo Pérez-Suárez<sup>1</sup><sup>1</sup> - Centro de Investigación en Matemáticas, A.C.**Estimates for the distribution function of exponential functionals of real-valued continuous Gaussian processes**José Alfredo López-Mimbela<sup>1</sup><sup>1</sup> - Centro de Investigación en Matemáticas, A.C.**CS29 BOUNDARY DRIVEN EXCLUSION PROCESSES**

Organizer: Simone Floreani, University of Oxford

**Universal properties of non-equilibrium steady states of boundary driven symmetric systems**Simone Floreani<sup>1</sup><sup>1</sup> - University of Oxford**Mixing times for exclusion processes with open boundary**Nina Gantert<sup>1</sup><sup>1</sup> - Technical University of Munich**A reverse duality for the ASEP with open boundaries**Gunter Schütz<sup>1</sup><sup>1</sup> - Department of Mathematics, Instituto Superior Técnico, Universidade de Lisboa**CS32 RECENT ADVANCES IN LÉVY PROCESSES**

Organizer: David Kramer-Bang, University of Warwick

**Markov additive friendships**Lukas Trottner<sup>1</sup><sup>1</sup> - Aarhus University**When and how is the convex hull of a Lévy path smooth?**Jorge González Cázares<sup>1,2</sup>; David Kramer-Bang<sup>1</sup>; Aleksandar Mijatovic<sup>1,2</sup><sup>1</sup> - University of Warwick; <sup>2</sup> - The Alan Turing Institute**Coupling of multidimensional Lévy processes and Wasserstein bounds in the small-time stable domain of attraction**Aleksandar Mijatović<sup>1</sup><sup>1</sup> - University of Warwick & The Alan Turing Institute, UK**CS42 CONSTRAINED AND INTERACTING STOCHASTIC DYNAMICS II**

Organizer: Miha Bresar, University of Warwick; Conrado Da Costa, Durham University

**Lower bounds on the rate of convergence to the invariant measure of continuous Markov processes, with applications to reflecting diffusions**Miha Bresar<sup>1</sup><sup>1</sup> - University of Warwick**Stochastic billiards with Markovian re-reflection in generalized parabolic domains**Conrado Da Costa<sup>1</sup><sup>1</sup> - Durham University**Weakly self-avoiding random walk in a random potential**Renato Santos<sup>1</sup><sup>1</sup> - Federal University of Minas Gerais

18:15-20:00 Welcome Reception

**Tuesday, 25<sup>th</sup> JULY**

09:30-10:20	<b>Medallion lecture:</b> Sylvia Serfaty (NYU) <i>Coulomb gases: dynamics and statistical equilibrium</i>
10:20-10:50	Coffee break and Poster Sessions
10:50-11:40	<b>Plenary lecture:</b> Riddhipratim Basu (Tata Institute) <i>Large scale geometry of two dimensional KPZ models</i>
11:40-12:30	<b>Itô prize lecture:</b> Andrey Pilipenko (National Academy of Sciences of Ukraine) and Oleksandr Iksanov (University of Kyiv) <i>On a skew stable Lévy process</i>
12:30-14:00	Lunch break (with lunch box)
14:00-15:45	Contributed & Invited Sessions 3

**IS5 CONVEX HULLS OF RANDOM WALKS AND LÉVY PROCESSES**

Organizer: Dmitry Zaporozhets, University St.Petersburg

**The isoperimetric problem for convex hulls and the large deviations rate functions of random walks**Vladislav Vyotsky<sup>1</sup><sup>1</sup> - University of Sussex**Two problems with extrema of Brownian motion and random walks**Julien Randon-Furling<sup>1</sup><sup>1</sup> - Centre Borelli (UMR9010), École normale supérieure Paris-Saclay, Université Paris-Saclay**Statistics of the maximum and the convex hull of a Brownian motion in confined geometries**Schehr Grégory<sup>1</sup><sup>1</sup> - CNRS-Sorbonne Université**IS10 STOCHASTIC OPTIMAL TRANSPORTATION**

Organizer: Toshio Mikami, Tsuda University

**A multi-scale Hamilton-Jacobi theory in  $P_2(\mathbb{R}^d)$ , in the context of hydrodynamic limit for action minimizing dynamics**Jin Feng<sup>1</sup><sup>1</sup> - University of Kansas**A glance at entropic optimal transport**Christian Léonard<sup>1</sup><sup>1</sup> - Université Paris Nanterre**Beyond optimal transport**Dan Mikulincer<sup>1</sup><sup>1</sup> - Massachusetts Institute of Technology**IS11 STOCHASTIC CALCULUS ON MANIFOLDS**

Organizer: Karl-Theodor Sturm, Bonn University

**Curvature bound of Dyson Brownian motion**Kohei Suzuki<sup>1</sup><sup>1</sup> - Durham University**A nonsmooth approach to Einstein's theory of gravity**Mathias Braun<sup>1</sup><sup>1</sup> - University of Toronto**Generalized stochastic areas, Winding numbers, and hyperbolic Stiefel fibrations**Fabrice Baudoin<sup>1</sup><sup>1</sup> - University of Connecticut



**IS22 KPZ UNIVERSALITY CLASS**Organizer: **Daniel Remenik**, Universidad de Chile**Stationary measures for the open KPZ equation**Guillaume Barraquand<sup>1</sup>

1 - CNRS and École Normale Supérieure

**Scaling limit of multi-type stationary measures in the KPZ class**Ofer Busani<sup>1</sup>

1 - University of Bonn

**From ABC to KPZ**Alessandra Occeili<sup>1</sup>

1 - Université d'Angers

**IS27 STOCHASTIC GEOMETRIC MECHANICS AND FLUID DYNAMICS**Organizer: **Dan Crisan**, Imperial College**Noise calibration for a stochastic rotating shallow water model**Dan Crisan<sup>1</sup>

1 - Imperial College London

**Variational integrators for stochastic Hamiltonian uid dynamics**François Gay-Balmaz<sup>1</sup>; Meng Wu<sup>1</sup>

1 - CNRS &amp; Ecole Normale Supérieure

**Stochastic models in geophysical fluid dynamics**Erwin Luesink<sup>1</sup>; Sagy Ephrati<sup>1</sup>; Arnout Franken<sup>1</sup>; Bernard Geurts<sup>1,2</sup>

1 - University of Twente; 2 - Technical University of Eindhoven

**CS9 REGULARISATION BY NOISE**Organizer: **Mate Gerencser**, TU Wien; **Chengcheng Ling**, TU Wien**Stochastic equations with singular drift driven by fractional Brownian motion**Oleg Butkovsky<sup>1</sup>

1 - Weierstrass Institute

**Non-linear Young equations in the plane and path-wise regularization by noise for the stochastic wave equation**Florian Bechtold<sup>1</sup>; Fabian Harang<sup>1</sup>; Nimit Rana<sup>1</sup>

1 - Universität Bielefeld

**McKean SDEs with singular coefficients**Elena Issoglio<sup>1</sup>

1 - University of Torino

**CS10 PERTURBED ODEs: STOCHASTIC OSCILLATIONS, SMALL NOISE LIMIT AND CRITICAL FLUCTUATIONS**Organizer: **Michele Aleandri**, La Sapienza University of Rome**Long time fluctuations at critical parameter of Hopf bifurcation**Michele Aleandri<sup>1</sup>; Paolo Dai Pra<sup>2</sup>

1 - La Sapienza University of Rome; 2 - University of Verona

**The asymptotic frequency of stochastic oscillators**Zachary Adams<sup>1</sup>

1 - Max Planck Institute for Mathematics in the Sciences

**Sharp convergence for degenerate Langevin dynamics**Gerardo Barrera Vargas<sup>1</sup>

1 - University of Helsinki

**CS22 LIMIT THEOREMS AND LOCAL TIMES FOR MARKOV PROCESSES: Part I**Organizer: **Juan Carlos Pardo Millan**, Centro de Investigación en Matemáticas**Strong noise limit of stochastic differential equations**Joseph Najnudel<sup>1</sup>

1 - University of Bristol

**Mathematical analysis of automated market makers**Joseph Najnudel<sup>1</sup>; Ju-Yi Yen<sup>2</sup>

1 - School of Mathematics, University of Bristol; 2 - Department of Mathematical Sciences, University of Cincinnati

**Recurrent extensions and stochastic differential equations**Victor Rivero<sup>1</sup>

1 - Centro de Investigación en Matemáticas

**CS26 SCALING LIMITS IN STOCHASTIC NON-MARKOVIAN EPIDEMIC MODELS**Organizer: **Guodong Pang**, Rice University; **Etienne Pardoux**, Aix-Marseille University**Local weak convergence for a general stochastic SIR model**Jean-Jil Duchamps<sup>1</sup>

1 - Université de Franche-Comté

**Crump-Mode-Jagers with interactions as epidemic models: Law of large numbers and central limit theorem**Felix Foutel-Rodier<sup>1</sup>

1 - University of Oxford

**A stochastic epidemic model with varying infectivity and waning immunity**Arsene Brice Zotsa-Ngoufack<sup>1</sup>

1 - Aix-Marseille University

**CS39 INFINITE DIMENSIONAL STOCHASTIC CALCULUS AND APPLICATIONS**Organizer: **Ryoichi Suzuki**, Ritsumeikan University**A numerical scheme for solving stochastic control problems via stochastic hamiltonian systems**Riki Kitano<sup>1</sup>

1 - Department of Mathematical Sciences, Ritsumeikan University

**A certain representation of martingales and its associated infinite dimensional moment problem**

Yuma Tamura

1 - Ritsumeikan University Graduate School

**Randomized positive-definite fourier estimator**Natsuki Toda<sup>1</sup>

1 - Department of Mathematical Sciences, Ritsumeikan University

**CS44 BOUNDARY CROSSING PROBLEMS FOR DIFFUSION PROCESSES**Organizer: **Cristina Zucca**, University of Torino; **Samuel Herrmann**, University of Burgundy**First passage problems in neuronal modelling**Laura Sacerdote<sup>1</sup>

1 - Department of Mathematics - University of Torino

**The inverse first-passage time problem for general stochastic processes including Lévy processes and diffusions**Alexander Klump<sup>1</sup>; Mladen Savov<sup>1</sup>

1 - Bulgarian Academy of Sciences

**Polynomial approximation of the first passage time density of diffusion processes**Giuseppe D'onofo<sup>1</sup>

1 - Dipartimento di Scienze Matematiche, Politecnico di Torino

**CS51 DEPENDENT LIMIT THEOREMS**Organizer: **Adam Jakubowski**, Nicolaus Copernicus University**Laws of large numbers for non-stationary sequences without rate assumptions**Zbigniew S. Szewczak<sup>1</sup>

1 - Nicolaus Copernicus University, Faculty of Mathematics and Computer Science

**Functional convergence of maxima of linear processes with heavy-tailed innovations and random coefficients**Danijel Krizmanic<sup>1</sup>

1 - Faculty of Mathematics, University of Rijeka

**Multivariate phantom distributions**Adam Jakubowski<sup>1</sup>

1 - Nicolaus Copernicus University

15:45-16:15 Coffee break and Poster Sessions

16:15-18:00 Contributed &amp; Invited Sessions 4

**IS14 STATISTICAL MECHANICAL MODELS**Organizer: **Christophe Garban**, Lyon**Recent results on lattice gauge theories with a finite gauge group**Malin Palö Forsström<sup>1</sup><sup>1</sup> - *University of Gothenburg, Mathematical Sciences***Bijectioning the BKT transition**

Piet Lammers

<sup>1</sup> - *Institut des Hautes Études Scientifiques***One-endedness of the uniform spanning tree and Harnack inequalities on stationary random graphs**Diederik Van Engelenburg<sup>1</sup><sup>1</sup> - *Universität Wien, Fakultät für Mathematik***IS15 RANDOM CONFORMAL GEOMETRIES AND FIELD THEORIES**Organizer: **Juhan Aru**, EPFL**A probabilistic construction of Liouville conformal blocks**

Guillaume Baverez

<sup>1</sup> - *Humboldt-Universität zu Berlin***On the geometry of uniform meandric systems**

Jacopo Borga

<sup>1</sup> - *Stanford University***Crossing exponent and conformally invariant field in the 2D Brownian loop soup**Antoine Jego<sup>1</sup><sup>1</sup> - *EPFL***IS21 PERSISTENCE PROBABILITIES**Organizer: **Naomi Feldheim**, Bar-Ilan University**Persistence and ball events for Gaussian stationary functions**Ohad Noy Feldheim<sup>1</sup><sup>1</sup> - *The Hebrew University of Jerusalem***A Sharp transition in zero count of stationary Gaussian processes**Naomi Feldheim<sup>1</sup><sup>1</sup> - *Columbia University***Persistence exponent for some Pfaffian point processes**Grégory Schehr<sup>1</sup><sup>1</sup> - *Bar-Ilan University***IS23 OPTIMAL TRANSPORT AND STOCHASTIC DYNAMICS**Organizer: **Jan Maas**, IST Austria**Transport-Entropy forms of Santaló type inequalities for volume product**Nathael Gozlan<sup>1</sup><sup>1</sup> - *Université Paris Cité***On the convergence rate of sinkhorn's algorithm**Marcel Nutz<sup>1</sup><sup>1</sup> - *Columbia University***The emergence of clusters in self-attention dynamics**Philippe Rigollet<sup>1</sup><sup>1</sup> - *MIT***CS2 INFERENCE FOR STOCHASTIC PROCESSES**Organizer: **Ciprian Tudor**, University of Lille**Stochastic PDE's driven by the Rosenblatt process**Bohdan Maslowski<sup>1</sup><sup>1</sup> - *Charles University, Prague***Statistics for stochastic PDE's based on discrete observation in arbitrary dimensions**Mathias Trabs<sup>1</sup><sup>1</sup> - *Karlsruhe Institute Technology***Exact variation and drift parameter estimation for the nonlinear fractional stochastic heat equation**Ciprian Tudor<sup>1</sup><sup>1</sup> - *University of Lille***CS23 LIMIT THEOREMS AND LOCAL TIMES FOR MARKOV PROCESSES: Part II**Organizer: **Joseph Najnudel**, University of Bristol; **Ju-Yi Yen**, University of Cincinnati**Limit theorems for occupation times of symmetric Markov processes**Juan Carlos Pardo<sup>1</sup><sup>1</sup> - *Centro de Investigación en Matemáticas***Limit theorems for local times and applications to SDEs with jumps**Aleksandar Mijatović<sup>1</sup><sup>1</sup> - *University of Warwick & The Alan Turing Institute, UK***A limit theorem for local times of branching processes**Gerónimo Uribe Bravo<sup>1</sup><sup>1</sup> - *Universidad Nacional Autónoma de México***CS25 COPULAE AND STOCHASTIC PROCESSES**Organizer: **Tomasz Bielecki**, Illinois Institute of Technology; **Mariusz Niewegłowski**, Warsaw University of Technology**Functional data analysis with copulas**Dennis Schroers<sup>1</sup><sup>1</sup> - *University of Bonn, Institute of Finance and Statistics***Indifference pricing of credit default swaps in a multi-period model**Xiaosong Qian<sup>1</sup><sup>1</sup> - *Center for Financial Engineering, Soochow University***Structured dependence between stochastic processes**Mariusz Niewegłowski<sup>1</sup><sup>1</sup> - *Warsaw University of Technology, Faculty of Mathematics and Information Science***CS27 TOPICS IN POPULATION GENETICS**Organizer: **Apolline Louvet**, University of Bath**A diploid population model for the copy number variation of genetic elements**Anton Wakolbinger<sup>1</sup><sup>1</sup> - *Goethe-University Frankfurt am Main***Muller's ratchet with tournament selection: near-criticality and links to the classical ratchet**Jan Lukas Igelbrink<sup>1,2</sup><sup>1</sup> - *Goethe Universität Frankfurt am Main, FB 12, Institut für Mathematik*; <sup>2</sup> - *Institut für Mathematik, Johannes Gutenberg-Universität Mainz***Stochastic measure-valued processes for populations expanding in a spatial continuum**Apolline Louvet<sup>1</sup><sup>1</sup> - *University of Bath*

**CS28 STOCHASTIC PROCESSES FOR MANIFOLD ESTIMATION**Organizer: **Hélène Guérin**, Université du Québec à Montréal; **Viet Chi Tran**, Université Gustave Eiffel**Limit theorems in Wasserstein distance for empirical measures of diffusion processes on Riemannian manifolds**Jie-Xiang Zhu<sup>1</sup>

1 - Center for Applied Mathematics, Tianjin University

**Convergence of occupation measure for diffusion processes on manifolds: An improved rate with convolution smoothing**Dinh-Toàn Nguyen<sup>1,2</sup>

1 - Université du Québec à Montréal (UQAM); 2 - Université Gustave Eiffel, Université Paris Est Creteil

**Adaptive estimation in manifold inference**Vincent Divo<sup>1</sup>

1 - Université Paris Dauphine – PSL

**CS49 INTERACTING SYSTEMS AND KPZ UNIVERSALITY**Organizer: **Bálint Vető**, Budapest University of Technology and Economics**Derivation of the fractional porous medium equation from a microscopic dynamics**Pedro Cardoso<sup>1</sup>

1 - Bonn University

**KPZ models in half space and Pfaffian point processes**Takashi Imamura<sup>1</sup>

1 - Chiba University

**The geometry of coalescing random walks, the Brownian web distance and KPZ universality**Bálint Vető<sup>1</sup>

1 - Budapest University of Technology and Economics

18:15-19:15 Young Reserchers Reception

**Wednesday, 26<sup>th</sup> JULY**09:30-10:20 **Doob lecture:** René Carmona (Princeton Univ., APP)  
*Optimal control of conditional processes*10:20-10:50 **Coffee break**10:50-12:30 **Contributed & Invited Sessions 5****IS3 STOCHASTIC MODELS IN EPIDEMIOLOGY AND EVOLUTION**Organizer: **Vincent Bansaye**, École Polytechnique**Convergence to the canonical equation of adaptive dynamics when mutations are small but frequent**Nicolas Champagnat<sup>1</sup>

1 - Inria Nancy - Grand Est

**Gaussian waves in BBM with mean-dependent branching**Sarah Penington<sup>1</sup>

1 - University of Bath

**Epidemics on spatial random graphs**Michele Salvi<sup>1</sup>

1 - University of Rome Tor Vergata

**IS4 INTERACTING PARTICLE SYSTEMS**Organizer: **Alessandra Faggionato**, University La Sapienza**Kinetically constrained models out of equilibrium**Ivailo Hartarsky<sup>1</sup>

1 - TU Wien

**Voter model on random directed graphs**Matteo Quattropani<sup>1</sup>

1 - Sapienza Università di Roma

**Exact large deviations for a model of "KMP-type"**Frank Redig<sup>1</sup>

1 - Delft University of Technology

**IS7 RANDOM DYNAMICS SYSTEMS**Organizer: **Jacob Bedrossian**, University Maryland**Exponential mixing for random flows**Rishabh Gvalani<sup>1</sup>

1 - Max-Planck-Institut für Mathematik in den Naturwissenschaften

**Shear-induced chaos via stochastic forcing: a tale of finding positive Lyapunov exponents**Maximilian Engel<sup>1</sup>

1 - Free University of Berlin

**Lyapunov exponents and synchronization by noise for systems of SPDEs**Benjamin Gess<sup>1</sup>

1 - Bielefeld University and MPI MIS Leipzig

**IS18 QUANTITATIVE HOMOGENIZATION**Organizer: **Scott Armstrong**, NYUQuantitative homogenization of the invariant measure for nondivergence form elliptic equationsJessica Lin<sup>1</sup>1 - *McGill University*Rigidity of harmonic functions on the supercritical percolation clusterAhmed Bou-Rabee<sup>1</sup>1 - *Cornell University*Massless phases for the Villain model in  $d \geq 3$ Wei Wu<sup>1</sup>1 - *NYU Shanghai***CS4 RECENT ADVANCES IN STOCHASTIC FLUID DYNAMICS**Organizer: **Lucio Galeati**, EPFLLocal and global existence for SPDEs with applications to stochastic fluid dynamicsOana Lang<sup>1</sup>1 - *Imperial College London*Global existence and non-uniqueness-in-law for 3D Euler equations with transport noiseTheresa Lange<sup>1</sup>1 - *Bielefeld University*Some recent results on stochastic fluid PDEs: pseudo-differential noise, blow-up/global regularity and stabilityHao Tang<sup>1</sup>1 - *University of Oslo***CS6 ON ANALYTICAL METHODS FOR STOCHASTIC PDES**Organizer: **Yassine Tahaoui**, NOVA University of LisbonConservation laws with noise: Well-posedness of entropy solutionsNeeraj Bhauryal<sup>1</sup>1 - *Grupo de Física Matemática da Universidade de Lisboa*Renormalized solutions for stochastic  $p$ -Laplace equations with  $L^1$ -initial data: The case of multiplicative noiseNiklas Sapountzoglou<sup>1</sup>1 - *Institute of Mathematics, Technical University of Clausthal*On time-dependent Stochastic PDEs with constraintsYassine Tahaoui<sup>1</sup>1 - *Center for Mathematics and Applications (NovaMath), Nova SST, Portugal***CS16 QUALITATIVE ANALYSIS OF SOLUTIONS TO (S)PDES**Organizer: **Michele Coghi**, Università degli Studi di TrentoStatistical stationary solutions of a nonlinear Schrödinger equationBenedetta Ferrario<sup>1</sup>1 - *Università di Pavia*An application of macroscopic fluctuation theory to reaction-diffusion equationsStefano Bonaccorsi<sup>1</sup>1 - *Università degli Studi di Trento*Ergodic results for the stochastic nonlinear Schrödinger equation with large dampingMargherita Zanella<sup>1</sup>1 - *Politecnico di Milano***CS30 LÉVY-BASED SPATIO-TEMPORAL PROCESSES: INFERENCE AND FORECAST**Organizer: **Imma Valentina Curato**, TU ChemnitzEstimation and Inference for Multivariate Continuous-time AutoRegressive ProcessesLorenzo Lucchese<sup>1</sup>1 - *Imperial College London*Parameter inference and forecasting for trawl processes and simple ambit fieldsDan Leonte<sup>1</sup>1 - *Imperial College London*Mixed moving average field guided learning for spatio-temporal dataImma Valentina Curato<sup>1</sup>1 - *TU Chemnitz***CS31 GEOMETRY OF SPHERICAL RANDOM FIELDS**Organizer: **Valentina Cammarota**, Sapienza University of Rome; **Anna Paola Todino**, Sapienza University of RomeOn critical points of random spherical harmonics and isotropic stationary Gaussian fieldsValentina Cammarota<sup>1</sup>1 - *Department of Statistical Sciences, Sapienza University of Rome*Spherical poisson wavesAnna Paola Todino<sup>1</sup>1 - *Sapienza University of Rome*The scaling limits of Gaussian spin fieldsMichele Stecconi<sup>1</sup>1 - *University of Luxembourg***CS33 GENEALOGIES OF BRANCHING PROCESSES**Organizer: **Alice Callegaro**, University of Munich; **Emma Horton**, INRIA Bordeaux Sud-OuestAncestral reproductive bias in branching processesSamuel G. G. Johnston<sup>1</sup>1 - *King's College London*Asymptotics for the site frequency spectrum associated with the genealogy of a birth and death processJason Schweinsberg<sup>1</sup>1 - *University of California San Diego*A branching particle system as a model of pushed frontsJulie Tourniaire<sup>1</sup>1 - *IST Austria***CS38 RECENT ADVANCES IN EXACT SIMULATION**Organizer: **Giuseppe D'onofrio**, Politecnico di Torino; **Pierre Patie**, Cornell UniversityGateway and interweaving relations as exact simulation algorithm for non-colliding particle systemsRohan Sarkar<sup>1</sup>; Yuxuan Liu<sup>2</sup>; Pierre Patie<sup>2</sup>; **Andrew Chee**<sup>2</sup>1 - *University of Connecticut*; 2 - *Cornell University*Exact methods for the simulation of first exit times for diffusion processesCristina Zucca<sup>1</sup>1 - *University of Torino*Exact simulation of the first time a stochastic process overcomes a given thresholdSamuel Herrmann<sup>1</sup>1 - *University of Burgundy***CS45 STATISTICS FOR HIGH-DIMENSIONAL STOCHASTIC PROCESSES**Organizer: **Lukas Trottner**, Aarhus UniversityOn lasso and slope drift estimators for Lévy-driven ornstein-uhlenbeck processesNiklas Dexheimer<sup>1</sup>1 - *Aarhus University*A Gaussian approximation of multivariate Lévy processesDavid Kramer-Bang<sup>1</sup>1 - *University of Warwick, Department of Statistics*Asymptotic expansions for high-frequency option dataCarsten Chong<sup>1</sup>1 - *Hong Kong University of Science and Technology*

## Thursday, 27<sup>th</sup> JULY

09:30-10:20	<b>Medallion lecture:</b> Richard Kenyon (Yale University) <i>Dimers and tensor networks</i>
10:20-10:50	<b>Coffee break and Poster Sessions</b>
10:50-11:40	<b>Plenary lecture:</b> Makiko Sasada (Tokyo University) <i>Probabilistic approaches to discrete integrable systems</i>
11:40-12:30	<b>Plenary lecture:</b> Jean-Dominique Deuschel (Berlin University) <i>An isomorphism theorem for anharmonic fields and scaling limits</i>
12:30-14:00	<b>Lunch break</b> (with lunch box)
14:00-15:45	<b>Contributed &amp; Invited Sessions 6</b>

### IS1 INTEGRABLE PROBABILITY

Organizer: **Alisa Knizel**, Chicago University

Interacting particle systems and random walks on Hecke algebra

Alexey Bufetov<sup>1</sup>  
1 - Leipzig University

Dunkl theory at large  $N$

Colin McSwiggen<sup>1</sup>  
1 - Courant Institute of Mathematical Sciences, New York University

Markov processes related to steady states of the KPZ equation on an interval

Włodzimierz Bryc<sup>1</sup>  
1 - University of Cincinnati

### IS6 MIXING TIMES, CUTOFF AND LIMIT PROFILES

Organizer: **Evita Nestoridi**, Princeton University

Random walks on finite fields with deterministic jumps

Jimmy He<sup>1</sup>  
1 - MIT

Last passage percolation and random young tableaux

Peter Nejjar<sup>1</sup>  
1 - Potsdam University

Mixing times for exclusion processes with open and periodic boundaries

Dominik Schmid<sup>1</sup>  
1 - University of Bonn

### IS16 INTERACTING RANDOM WALKS

Organizer: **David Croydon**, Kyoto University

Frogs playing table tennis to stay awake: on the phase transition of activated random walks

Nicolas Forien<sup>1</sup>  
1 - Università Roma 1 La Sapienza

Convergence and non-convergence of some self-interacting random walks to a perturbed Brownian motion

Elena Kosygina<sup>1</sup>  
1 - Baruch College and the CUNY Graduate Center

**\*-Reinforced Random Walks, Bayesian Statistics and Statistical Physics**

Pierre Tarrès<sup>1</sup>  
1 - CNRS, Sorbonne Université and NYU Shanghai

### IS25 COMBINATORIAL PROBABILITY

Organizer: **Valentin Féray**, University de Lorraine

Enumerative theory for the Tsetlin library

Persi Diaconis<sup>1</sup>  
1 - Department of Mathematics and Statistics, Stanford University

Scaling limit of critical random trees in random environment

Cécile Mailler<sup>1</sup>  
1 - University of Bath

Components of meandric systems and the infinite noodle

Paul Thévenin<sup>1</sup>  
1 - University of Vienna

### IS26 MACHINE LEARNING AND PROBABILITY

Organizer: **Andrea Montanari**, Stanford University

Algorithmic decorrelation and planted clique in dependent random graphs

Guy Bresler<sup>1</sup>  
1 - MIT

On orthogonally-invariant spin glasses and linear models with invariant designs

Zhou Fan<sup>1</sup>  
1 - Yale University

Detection of dense subhypergraphs by low-degree polynomials

Alex Wein<sup>1</sup>  
1 - University of California, Davis

### CS5 RECENT DEVELOPMENT OF GAUSSIAN APPROXIMATION

Organizer: **Xiao Fang**, The Chinese University of Hong Kong

Edgeworth expansion by Stein's method

Xiao Fang<sup>1</sup>  
1 - The Chinese University of Hong Kong

From  $L^2$ -Wasserstein bounds to moderate deviations

Yuta Koike<sup>1</sup>  
1 - Graduate School of Mathematical Sciences, The University of Tokyo

Generalization of the fourth moment theorem

Nobuaki Naganuma<sup>1</sup>  
1 - Kumamoto University

### CS11 STATISTICAL MECHANICS AND STOCHASTIC PDES

Organizer: **Francesco Caravenna**, Università di Milano-Bicocca

High moments of the 2D polymer partition function

Clément Cosco<sup>1</sup>  
1 - Université Paris-Dauphine

Directed polymers and the stochastic heat equation with Lévy noise

Quentin Berger<sup>1</sup>  
1 - Sorbonne Université and École Normale Supérieure

Fluctuations for the directed polymer model in weak disorder without  $L^2$ -boundedness

Stefan Junk<sup>1</sup>  
1 - AIMR, Tohoku University

**CS19 PROBABILISTIC METHODS FOR STEFAN-TYPE EQUATIONS**Organizer: **Sergey Nadtochiy**, Illinois Tech**Particle systems, Stefan problems and systemic risk**Adair Petronilia<sup>1</sup><sup>1</sup> - *University of Oxford***On blow-ups in a stochastic Stefan problem for the freezing of a supercooled liquid**Andreas Søjmark<sup>1</sup><sup>1</sup> - *London School of Economics***Hopf bifurcation in a mean field model of integrate and fire neurons**Quentin Cormier<sup>1</sup><sup>1</sup> - *Inria Saclay***CS34 NUMERICAL ANALYSIS FOR SOLUTIONS TO PENALIZED BSDE, McKEAN-VLASOV EQUATION AND PATH-DEPENDENT McKEAN-VLASOV EQUATION**Organizer: **Yating Liu**, Paris Dauphine University**Error analysis of implicit scheme by Empirical Regression of Monte-Carlo method for penalized BSDE**Wanqing Wang<sup>1</sup><sup>1</sup> - *CMAP, École Polytechnique, Institut Polytechnique de Paris***A statistical approach for simulating the density solution of a McKean-Vlasov equation**Yating Liu<sup>1</sup><sup>1</sup> - *CEREMADE, University Paris-Dauphine PSL***Numerical analysis of McKean-Vlasov equations**Armand Bernou<sup>1</sup><sup>1</sup> - *Dipartimento di Matematica, Università di Roma La Sapienza***CS35 DEPENDENCE AND LIMIT THEOREMS 1**Organizer: **Marie Kratz**, ESSEC Business School**General bootstrap random walks**Kais Hamza<sup>1</sup><sup>1</sup> - *Monash University***Stochastic processes with random harmonics, distributional and ergodic properties**Krzysztof Podgórski<sup>1</sup><sup>1</sup> - *Department of Statistics Lund University***Mixing of fast random walks on dynamic random permutations**Oliver Nagy<sup>1</sup><sup>1</sup> - *Mathematical Institute, Leiden University***CS37 WIENER CHAOS, ORTHOGONAL POLYNOMIALS, AND INTERTWININGS**Organizer: **Simone Floreani**, University of Oxford; **Dario Spanò**, University of Warwick**Intertwining relations and beyond: What for?**Pierre Patie<sup>1</sup><sup>1</sup> - *Cornell University***De Jong Theorem, functional convergence and sparsity**Giovanni Peccati<sup>1</sup><sup>1</sup> - *University of Luxembourg***Infinite particle systems in non-discrete spaces: orthogonal intertwiners**Stefan Wagner<sup>1,2</sup><sup>1</sup> - *Mathematisches Institut, Ludwig-Maximilians-Universität and Munich Center for Quantum Science and Technology (MCQST)***CS40 RECENT PROGRESSES ON RANDOM DYNAMICAL SYSTEMS**Organizer: **Hiroki Takahasi**, Keio University**Limit theorems for (random) non-hyperbolic dynamics**Yushi Nakano<sup>1</sup><sup>1</sup> - *Tokai University, Department of Mathematics***An explicit formula for invariant densities of random piecewise linear maps**Shintaro Suzuki<sup>1</sup><sup>1</sup> - *Tokyo Gakugei University***Finitude of physical measures for random maps**Hisayoshi Toyokawa<sup>1</sup><sup>1</sup> - *Kitami Institute of Technology*

15:45-16:15 Coffee break and Poster Sessions

16:15-18:00 Contributed &amp; Invited Sessions 7

**IS9 STEIN METHOD**Organizer: **Giovanni Peccati**, University Luxembourg**Poisson cylinder sets for modelling mobile telecommunication networks**Hanna Döring<sup>1</sup><sup>1</sup> - *University Osnabrück***How good is your Laplace approximation of the Bayesian posterior? Finite-sample computable error bounds for a variety of useful divergences**Mikołaj Kasprzak<sup>1</sup><sup>1</sup> - *University of Luxembourg***Wasserstein bounds through Stein's method with bespoke derivatives**Yvik Swan<sup>1</sup><sup>1</sup> - *Université Libre de Bruxelles***IS12 SINGULAR SPDES**Organizer: **Hendrik Weber**, University of Münster**Multiscale coupling for the  $\Phi_4^2$  field**Michael Hofstetter<sup>1</sup><sup>1</sup> - *Weizmann Institute of Science***Some recent progress on quasilinear SPDEs**Markus Tempelmayr<sup>1</sup><sup>1</sup> - *WWU Münster***Invariant Gibbs measures in nonlinear dispersive equations**Yu Deng<sup>1</sup><sup>1</sup> - *University of Southern California***IS13 RANDOM PLANAR METRIC SPACES**Organizer: **Jian Ding**, Peking University**Metric growth dynamics in Liouville quantum gravity**Hugo Falconet<sup>1</sup><sup>1</sup> - *Courant Institute, New York University***Geodesics in Brownian surfaces**Wei Qian<sup>1</sup><sup>1</sup> - *City University of Hong Kong***Geodesic local time in the directed landscape**Lingfu Zhang<sup>1</sup><sup>1</sup> - *University of California, Berkeley*

**IS17 RANDOM WALKS IN RANDOM ENVIRONMENTS**Organizer: **Ryoki Fukushima**, Tsukuba University**Hölder regularity and local limit theorem for random conductance models with long-range jumps**Sebastian Andres<sup>1</sup>1 - *University of Manchester***RWRE as rough paths**

Tal Orenshtein

1 - *Università degli Studi Milano - Bicocca***Scaling limit for the simple random walk on long range percolation clusters**Tal Peretz<sup>1</sup>1 - *Technion - Israel Institute of Technology***CS21 RECENT PROGRESS IN RANDOM FIELDS AND SPDES**Organizer: **Yimin Xiao**, Michigan State University**Hitting probabilities of Gaussian random fields and SPDEs in critical dimensions**Cheuk Yin Lee<sup>1</sup>1 - *National Tsinghua University, Taiwan***Spatial averages for the Parabolic Anderson model driven by rough noise**Xiaoming Song<sup>1</sup>1 - *Drexel University***Fractal and intersection properties of Gaussian random fields**Yimin Xiao<sup>1</sup>1 - *Michigan State University***CS24 TOPICS IN INTEGRABLE PROBABILITY**Organizer: **Alisa Knizel**, University of Chicago**Randomized Yang-Baxter equation and its applications to particle systems**Leonid Petrov<sup>1</sup>1 - *University of Virginia***The lower tail of  $q$ -pushTASEP**Milind Hegde<sup>1</sup>1 - *Columbia University***Stochastic six-vertex model and Hall-Littlewood positivity**Konstantin Matveev<sup>1</sup>1 - *Rutgers University***CS36 DEPENDENCE AND LIMIT THEOREMS 2**Organizer: **Kais Hamza**, Monash University**Joint asymptotics for the sample quantile and measures of dispersion for functionals of mixing processes**Marie Kratz<sup>1</sup>1 - *ESSEC Business School, CREAR risk research center***Local Asymptotic Normality of the mixed fractional Brownian motion**Pavel Chigansky<sup>1</sup>; Marina Kleptsyna<sup>2</sup>1 - *The Hebrew University of Jerusalem*; 2 - *Le Mans University***Functional central limit theorems for Wigner matrices**Jana Reker<sup>1</sup>1 - *IST Austria***CS46 GRADIENT FLOWS AND MEAN-FIELD OPTIMIZATION**Organizer: **Mateusz B. Majka**, Heriot-Watt University**Polyak-Łojasiewicz inequality on the space of measures and convergence of mean-field birth-death processes**Mateusz B. Majka<sup>1</sup>1 - *Heriot-Watt University***Gradient and mirror descent for stochastic control problems**

David Šiška

1 - *School of Mathematics, University of Edinburgh***Solving min-max mean-field games via fictitious play and birth-death dynamics**Razvan-Andrei Lascu<sup>1</sup>1 - *Maxwell Institute for Mathematical Sciences, Department of Mathematics, Heriot-Watt University***CS47 APPLICATIONS IN FINANCE AND INSURANCE: REGIME SWITCHING PROCESSES AND TERM STRUCTURE OF INTEREST RATES**Organizer: **Manuel Esquivel**, New University of Lisbon**Regime switching continuous time Markov chains**Manuel L. Esquivel<sup>1</sup>1 - *Nova SST and CMA, New University of Lisbon***On the biases of the unbiased expectation hypothesis**Renato França<sup>1</sup>; Raquel M. Gaspar1 - *ISEG and REM/Cemapre, Universidade de Lisboa, Portugal*; 2 - *Towers Watson, Portugal***On coupled pairs of regime switching diffusions**Pedro P. Mota<sup>1</sup>1 - *Nova SST and CMA, New University of Lisbon***CS48 ADVANCES IN BRANCHING PROCESSES WITH APPLICATIONS IN BIOLOGY**Organizer: **Sophie Hautphenne**, The University of Melbourne**Linking Population-size-dependent and controlled branching processes**Sophie Hautphenne<sup>1</sup>1 - *The University of Melbourne***A branching process approach to the survival of populations: skeleton process and stochastic introgression**Maria Conceição Serra<sup>1</sup>1 - *Center of Mathematics, University of Minho***Consistent least squares estimation for population-size-dependent branching processes**Carmen Minuesa Abril<sup>1</sup>1 - *University of Extremadura***CS50 STOCHASTIC MODELLING AND ITS APPLICATIONS**Organizer: **Nadarajah Ramesh**, University of Greenwich**Linear spread and explosion for a continuous-time frog model**Viktor Bezborodov<sup>1</sup>1 - *The University of Goettingen, Institute for Mathematical Stochastics***A time-dependent non-homogeneous stochastic epidemic model**Giulia Binotto<sup>1</sup>1 - *Universitat Autònoma de Barcelona***A doubly stochastic state-dependent exponential pulse model for rainfall**Nadarajah Ramesh<sup>1</sup>1 - *University of Greenwich*

18:15-19:00

18:15-19:00

**Public Lecture\*** (this session is open to all and it is not part of the conference programme)  
***The mathematics of solitaire***: Persi Diaconis (Stanford University)

20:00

Conference Dinner

Friday, 28<sup>th</sup> JULY

09:30-10:20	<b>Doeblin prize lecture:</b> Yinon Spinka (University of British Columbia) <i>Characterizing (non)amenability through stochastic domination and finitary codings</i>
10:20-10:50	Coffee break
10:50-11:40	<b>Plenary lecture:</b> Martina Hofmanová (Bielefeld University) <i>Anomalous and total dissipation due to advection by Navier-Stokes equations</i>
11:40-12:30	<b>Medallion lecture:</b> Massimiliano Gubinelli (Oxford University) <i>Stochastic equations for Euclidean fields</i>
12:30-13:00	Closing Ceremony

## POSTERS

Monday, 24<sup>th</sup> JULY

Coffee-break times (morning and afternoon)

- P001** PORTFOLIO OPTIMIZATION WITH ALLOCATION CONSTRAINTS AND STOCHASTIC FACTOR MARKET DYNAMICS  
Marcos Escobar-Anabel<sup>1</sup>; Michel Kschronnek<sup>2</sup>; Rudi Zagst<sup>2</sup>  
1 - Western University, Department of Statistical & Actuarial Sciences; 2 - Technical University of Munich, Chair of Mathematical Finance
- P002** ON A DISCRETE-TIME PARETO-TYPE PROCESS  
Marta Ferreira<sup>1</sup>  
1 - Centro de Matemática, Universidade do Minho
- P003** PROBABILITY AND STATISTICS OF MULTI-PARAMETER RANDOM COMPLEXES  
Tadas Temčinas<sup>1</sup>; Vidit Nanda<sup>2</sup>; Gesine Reinert<sup>1</sup>  
1 - Department of Statistics, University of Oxford; 2 - Mathematical Institute, University of Oxford
- P004** SCHEDULING IN THE HIGH UNCERTAINTY HEAVY TRAFFIC REGIME  
Yonatan Shadmi<sup>1</sup>  
1 - Technion - Israel Institute of Technology
- P005** NEW PROBABILISTIC METHOD FOR TRANSIENT ANALYSIS OF M/G/1 SYSTEMS WITH VACATIONS  
Revaz Kakubava<sup>1</sup>; Nino Svanidze<sup>2</sup>  
1 - Georgian Technical University, Tbilisi, Georgia; 2 - Shota Rustaveli Batumi State University, Batumi, Georgia
- P006** SIMULATING CONTINUOUS-TIME AUTOREGRESSIVE MOVING AVERAGE PROCESSES DRIVEN BY TEMPERED STABLE LÉVY PROCESSES  
Till Massing<sup>1</sup>  
1 - Universität Duisburg-Essen
- P007** SCALING LIMITS FOR PARKING ON FROZEN ERDŐS–RÉNYI CAYLEY TREES WITH HEAVY TAILS  
Andrej Srakar<sup>1</sup>  
1 - Institute for Economic Research (IER) and University of Ljubljana
- P009** ON THE EXISTENCE OF  $H^1$ -WEAK SOLUTION FOR 3D-STOCHASTIC THIRD GRADE FLUID EQUATIONS  
Raya Nouira<sup>1</sup>  
1 - FCT, NOVA University of Lisbon
- P011** QUENCHED FUNCTIONAL CLT FOR RANDOM WALKS IN DEGENERATE DOUBLY STOCHASTIC RANDOM ENVIRONMENTS  
Weile Weng<sup>1</sup>  
1 - Technical University of Berlin
- P012** A BREAK TEST FOR THE TAIL-EVENT CORRELATION MATRIX BASED ON THE SELF-NORMALIZATION MET  
Ji-Eun Choi<sup>1</sup>; Dong Wan Shin<sup>2</sup>  
1 - Department of Statistics, Ewha University; 2 - Department of Statistics, Pukyong National University
- P013** NEAR-LINEAR MIXING ON THE CYCLE BY BOUNDED STRUCTURAL PERTURBATION  
Balázs Gerencsér<sup>1</sup>  
1 - Alfréd Rényi Institute of Mathematics, Budapest, Hungary; ELTE Eötvös Loránd University, Budapest, Hungary
- P014** FUNCTIONAL PERIODIC ARMA PROCESSES  
Sebastian Kühnert<sup>1</sup>  
1 - University of California, Davis, Department of Statistics



- PO15** **OPTIMAL CONSUMPTION AND INVESTMENT IN GENERAL AFFINE GARCH MODELS**  
 Marcos Escobar-Anel<sup>1</sup>; Ben Spies<sup>2</sup>; Rudi Zagst<sup>2</sup>  
 1 - Department of Statistical and Actuarial Sciences, University of Western Ontario, Canada; 2 - Department of Mathematics, Technical University of Munich, Germany
- PO16** **EXISTENCE OF DENSITY FOR THE SOLUTION OF STOCHASTIC DELAY DIFFERENTIAL EQUATIONS WITH REFLECTION DRIVEN BY A FRACTIONAL BROWNIAN MOTION**  
 Mireia Besalú<sup>1</sup>; David Márques-Carreras<sup>1</sup>; Carles Rovira<sup>1</sup>  
 1 - Universitat de Barcelona
- PO17** **EXACT AND EFFICIENT MULTIVARIATE TWO-SAMPLE TESTS THROUGH GENERALIZED LINEAR RANK STATISTICS**  
 Dan Daniel Erdmann-Pham<sup>1</sup>  
 1 - Stanford University
- PO18** **WEAK APPROXIMATION FOR MARCUS SDEs**  
 Sooppawat Thipyarat<sup>1</sup>  
 1 - Friedrich-Schiller-Universität Jena
- PO19** **DYNAMICAL ANALYSIS OF A STOCHASTIC DELAYED EPIDEMIC MODEL WITH LÉVY JUMPS AND REGIME SWITCHING**  
 Bojana Jovanović<sup>1</sup>  
 1 - Faculty of Sciences and Mathematics, University of Niš, Serbia
- PO20** **PARRONDO EFFECT IN CONTINUOUS-TIME RANDOM WALKS WITH PERIODICALLY ALTERNATING JUMPS**  
 Jiyeon Lee<sup>1</sup>  
 1 - Yeungnam University
- PO21** **ASYMPTOTIC CONVERGENCE OF THE CUCKER-SMALE MODEL VIA A PROBABILISTIC METHOD**  
 Adrien Cotil<sup>1</sup>  
 1 - UMR MISTEA, Univ. Montpellier, INRAE, Institut Agro
- PO22** **A NOTE ON THE EXISTENCE OF GIBBS MARKED POINT PROCESSES WITH APPLICATIONS IN STOCHASTIC GEOMETRY**  
 Martina Petráková<sup>1</sup>  
 1 - Department of Probability and Mathematical Statistics, Faculty of Mathematics and Physics, Charles University
- PO23** **GRAPHON MEAN FIELD GAMES WITH JUMPS AND THEIR APPROXIMATE EQUILIBRIA**  
 Zhongyuan Cao<sup>3</sup>  
 1 - INRIA Paris and Université Paris Dauphine
- PO26** **NONPARAMETRIC STATISTICAL MONITORING OF HIGH-DIMENSIONAL PRODUCTION PROCESSES**  
 Amitava Mukherjee<sup>1</sup>; Marco Marozzi<sup>2</sup>  
 1 - XLRI-Xavier School of Management, Jamshedpur, India; 2 - Ca' Foscari University of Venice, Italy
- PO27** **ON THE QUENCHED FUNCTIONAL CENTRAL LIMIT THEOREM FOR STATIONARY RANDOM FIELDS UNDER PROJECTIVE CRITERIA**  
 Lucas Reding<sup>1</sup>  
 1 - Univ. Polytechnique Hauts-de-France, INSA Hauts-de-France, CERAMATHS
- PO58** **THE HEAT FLOW OF RANDOM POLYNOMIALS AND THE GAF**  
 Jonas Jalowy<sup>1</sup>  
 1 - Münster University, Institute of Stochastics

Tuesday, 25<sup>th</sup> JULY

Coffee-break times (morning and afternoon)

- PO28** **CONTROLLED SUPERPROCESSES AND HJB EQUATION IN THE SPACE OF FINITE MEASURES**  
 Antonio Ocello<sup>1</sup>  
 1 - LPSM, UMR CNRS 8001, Sorbonne Université and Université Paris Cité
- PO29** **ON THE LIMITING SPECTRAL DISTRIBUTIONS OF STOCHASTIC BLOCK MODELS**  
 May-Ru Chen<sup>1</sup>; Giap Van Su<sup>1,2</sup>  
 1 - National Sun Yat-sen University; 2 - Thai Nguyen University of Education
- PO30** **SPACE-TIME INTEGER ARMA MODELS: AN INTRODUCTION**  
 Ana Martins<sup>1</sup>; Manuel G. Scotto<sup>3</sup>; Christian H. Weiss<sup>4</sup>; Sónia Gouveia<sup>1,2</sup>  
 1 - IEETA and DETI, University of Aveiro, Portugal; 2 - Intelligent Systems Associate Laboratory (IASI), University of Aveiro, Portugal; 3 - CEMAT, Department of Mathematics, IST, University of Lisbon, Portugal; 4 - Department of Mathematics and Statistics, Helmut Schmidt University, Hamburg, Germany
- PO31** **MONOTONE DUALITY OF INTERACTING PARTICLE SYSTEMS**  
 Jan Niklas Latz<sup>1</sup>  
 1 - Czech Academy of Sciences & Charles University
- PO32** **BAYESIAN SEMIPARAMETRIC VARIABLE SELECTION WITH SHRINKAGE PRIOR**  
 Mingan Yang<sup>1</sup>  
 1 - University of New Mexico
- PO33** **STEIN'S METHOD FOR ERDŐS-RÉNYI MIXTURE GRAPH MODELS**  
 Anum Fatima<sup>1</sup>; Gesine Reinert<sup>2</sup>  
 1 - University of Oxford, U.K. & Lahore College for Women University, Pakistan; 2 - University of Oxford, U.K. & The Alan Turing Institute, London, UK
- PO35** **RANDOM MODELS OF BINARY SEARCH TREES**  
 Benoît Corsini<sup>1</sup>  
 1 - Eindhoven University of Technology
- PO36** **STOCHASTIC MODELS FOR BACTERIOPHAGE SYSTEMS**  
 Xavier Bardina<sup>1</sup>  
 1 - Universitat Autònoma de Barcelona
- PO37** **CONVERGENCE OF PROCESSES TIME-CHANGED BY GMC**  
 Takumu Ooi<sup>1</sup>  
 1 - Research Institute for Mathematical Sciences, Kyoto University
- PO38** **NOISE-INDUCED PERIODICITY IN A FRUSTRATED NETWORK OF INTERACTING DIFFUSIONS**  
 Elisa Marini<sup>1</sup>  
 1 - Department of Mathematics Tullio Levi-Civita, University of Padova
- PO39** **RANDOM ALGEBRAIC GRAPHS AND THEIR CONVERGENCE TO ERDŐS-RÉNYI**  
 Kiril Bangachev<sup>1</sup>  
 1 - MIT, Department of EECS
- PO40** **USING ASYMPTOTIC PSEUDOTRAJECTORIES TO EVALUATE THE TYPICAL EVOLUTION OF MASS, WITHIN A STRUCTURED INDIVIDUAL-BASED MODEL WITH AN ALLOMETRIC FRAMEWORK**  
 Virgile Brodu<sup>1</sup>  
 1 - IECL, Université de Lorraine – Inria Nancy Grand-Est
- PO41** **OPTIMAL BAILOUT IN A MEAN-FIELD SYSTEMIC RISK MODEL WITH CONTAGIOUS DEFAULTS**  
 Ben Hambly<sup>1</sup>; Philipp Jettkant<sup>1</sup>  
 1 - University of Oxford

- P042 HEAVY-TAILED DISTRIBUTIONS IN A STOCHASTIC GENE AUTOREGULATION MODEL**  
Pavol Bokes<sup>1</sup>  
1 - Comenius University Bratislava
- P043 CONVERGENCE OF FINITE SPATIAL RANDOM GRAPHS W.R.T. AN ASSIGNMENT BASED METRIC**  
Leoni Carla Wirth<sup>1</sup>  
1 - Institute for Mathematical Stochastics, University of Göttingen
- P044 BIVARIATE BERNSTEIN-GAMMA FUNCTIONS AND ASYMPTOTIC BEHAVIOUR OF EXPONENTIAL FUNCTIONALS ON DETERMINISTIC HORIZON**  
Martin Minchev<sup>1</sup>; Mladen Savov<sup>1,2</sup>  
1 - Sofia University; 2 - Bulgarian Academy of Sciences
- P045 REPLICATOR-MEAN-FIELD LIMIT OF CONTINUOUS-TIME FRAGMENTATION-INTERACTION-AGGREGATION PROCESSES**  
Michel Davydov<sup>1</sup>  
1 - INRIA, Paris, France and Département d'informatique de l'ENS, ENS, CNRS, PSL University, Paris
- P046 STRONG SOLUTIONS TO MCKEAN-VLASOV SDES WITH COEFFICIENTS OF NEMYTSKII-TYPE**  
Sebastian Grube<sup>1</sup>  
1 - Bielefeld University
- P047 STABLE MOTION AND RIESZ CAPACITY**  
John P. Nolan<sup>1</sup>; Debra J. Audus<sup>2</sup>; Jack F. Douglas<sup>2</sup>  
1 - American University; 2 - National Institute of Standards and Technology
- P048 BROWNIAN MOTION WITH LIMITED OCCUPATION TIME**  
Dominic T. Schickentanz<sup>1</sup>  
1 - Technical University of Darmstadt
- P049 ASYMPTOTICS OF LONGEST INCREASING SUBSEQUENCES IN PERMUTON-SAMPLED RANDOM PERMUTATIONS**  
Victor Dubach<sup>1</sup>  
1 - Institut Elie Cartan de Lorraine
- P051 NONLINEAR SEMIGROUPS AND LIMIT THEOREMS FOR CONVEX EXPECTATIONS**  
Jonas Blessing<sup>1</sup>; Michael Kupper<sup>1</sup>  
1 - University of Konstanz
- P052 CONSTRUCTION OF SOLUTIONS TO MODELS OF SYSTEMIC RISK WITH ENDOGENOUS CONTAGION THROUGH SMOOTHED APPROXIMATIONS**  
Aldair A. F. M. Petronilia<sup>1</sup>  
1 - University of Oxford
- P053 LARGE DEVIATION FOR COX-INGERSOLL-ROSS PROCESSES WITH STATE-DEPENDENT FAST SWITCHING**  
Yanyan Hu<sup>1</sup>  
1 - Delft Institute of Applied Mathematics, Delft University of Technology
- P054 FORTET-MOURIER AND DUDLEY DISTANCES TO WEIGHTED SUMS OF DIRAC MEASURES**  
Esmée Theewis<sup>1</sup>  
1 - Delft Institute of Applied Mathematics, TU Delft

Thursday, 27<sup>th</sup> JULY

Coffee-break times (morning and afternoon)

- P055 PARAMETER ESTIMATION FOR  $mmf\mathbb{B}_m$  AND  $mmfOU$  PROCESSES**  
Hamidreza Maleki Almani<sup>1</sup>; Tommi Sottinen<sup>1</sup>  
1 - University of Vaasa, School of Technology and Innovations
- P056 NEUTRAL EVOLUTION IN THE PRESENCE OF LARGE BUT FINITE OFFSPRING FLUCTUATIONS: INSIGHTS FROM DISORDERED SYSTEMS**  
Ethan Levien<sup>1</sup>  
1 - Dartmouth College, Department of Mathematics
- P059 STICKY COUPLING AS A CONTROL VARIATE FOR SENSITIVITY ANALYSIS**  
Shiva Darshan<sup>1,2</sup>; Andreas Eberle<sup>3</sup>; Gabriel Stoltz<sup>1,2</sup>  
1 - CERMICS École des Ponts; 2 - Materials Inria Paris; 3 - Institute for Applied Mathematics University of Bonn
- P060 GENEALOGY OF RECORDS OF SKIP-FREE RANDOM WALKS AS UNIMODULAR TREES**  
Bharath Roy Choudhury<sup>1</sup>  
1 - INRIA, Paris, France and Département d'informatique de l'ENS, ENS, CNRS, PSL University
- P061 OPTIMIZATION OF LIPASE PRODUCTION USING OIL AND SEEDS OF PASSIFLORA EDULIS**  
Anne B.S. Bardelli<sup>1</sup>; Maria V. C. F. Vieira<sup>1</sup>; Rúbia M. Suzuki<sup>1</sup>; Milena M. Andrade<sup>1</sup>  
1 - Federal University of Technology - Paraná
- P062 CBI-TIME-CHANGED LÉVY PROCESSES**  
Guillaume Szulda<sup>1</sup>  
1 - CERMICS - École Nationale des Ponts et Chaussées
- P063 LOGARITHMIC DERIVATIVES AND CLOSABILITY OF POINT PROCESSES ON  $\mathbb{R}^d$**   
Shota Osada<sup>1</sup>  
1 - Faculty of Education, Kagoshima University
- P064 EDGE EIGENVALUES AND EIGENVECTOR LOCALIZATION IN ERDŐS-RÉNYI GRAPHS WITH CONSTANT AVERAGE DEGREE**  
Ella Hiesmayr<sup>1</sup>; Theo Mckenzie<sup>2</sup>  
1 - University of California, Berkeley; 2 - Harvard University
- P065 THE BERNSTEIN FAMILY OF GRADIENT MODELS**  
Gabriel S. Nahum<sup>1</sup>  
1 - Center for Mathematical Analysis, Geometry and Dynamical Systems, Instituto Superior Técnico, Universidade de Lisboa
- P066 CHARACTERIZATION OF QUASI-STATIONARY DISTRIBUTIONS**  
Iddo Ben-Ari<sup>1</sup>  
1 - University of Connecticut, USA
- P067 ATLAS MODEL WITH INHOMOGENEOUS STATIONARY PROFILES**  
Peter Rudzis<sup>1</sup>  
1 - University of North Carolina - Chapel Hill
- P068 REGULARISING EFFECT OF THE BROWNIAN SHEET PATHS**  
Moustapha Dieye<sup>1</sup>  
1 - École Polytechnique de Thies
- P069 CONSENSUS-BASED OPTIMIZATION: AN INTERACTING MULTI-PARTICLE SYSTEM FOR GLOBAL NONCONVEX OPTIMIZATION**  
Konstantin Ried<sup>1,2</sup>  
1 - Technical University of Munich; 2 - Munich Center of Machine Learning

**P070 POLYNOMIAL INTERACTING PARTICLE SYSTEMS AND NON- LINEAR SPDES FOR MODELING CAPITALIZATION CURVES**

Florian Huber<sup>1</sup>  
1 - University of Vienna

**P071 PATH INDEPENDENCE OF THE ADDITIVE FUNCTIONALS FOR STOCHASTIC VOLTERRA EQUATIONS WITH SINGULAR KERNELS AND HÖLDER CONTINUOUS COEFFICIENTS**

Huijie Qiao<sup>1</sup>  
1 - Southeast University

**P072 APPROACHING THE TRIPLE POINT IN THE ASEP WITH GROWING SIZE**

Jacek Wesolowski<sup>1</sup>  
1 - Politechnika Warszawska, Warsaw

**P074 ON HOMOGENIZATION OF A MULTIDIMENSIONAL DIFFUSION WITH SEMIPERMEABLE REFLECTING INTERFACES**

Olga Ariasova<sup>1</sup>  
1 - Institute of Geophysics, National Academy of Sciences of Ukraine, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" and Institute of Mathematics, Friedrich Schiller University Jena

**P075 STOCHASTIC PREDICTABILITY AND APPLICATIONS ON STOCHASTIC DIFFERENTIAL EQUATIONS AND DEFAULT RISK MODELING**

Ana Merkle<sup>1</sup>  
1 - University of Belgrade, Faculty of Mathematics, Serbia

**P076 GAUSSIAN STRUCTURE IN COALESCING STOCHASTIC FLOWS**

Kateryna Hlyniiana<sup>1</sup>; Andrey Dorogovtsev<sup>2</sup>  
1 - School of Mathematics, Jilin University, Changchun, China; 2 - Institute of Mathematics, National Academy of Science of Ukraine, Kyiv, Ukraine

**P077 NORMAL APPROXIMATION OF COMPOUND HAWKES FUNCTIONAL**

Mahmoud Khabou<sup>1</sup>  
1 - Institut de Mathématiques de Toulouse, Institut Élie Cartan de Lorraine

**P079 THE KPZ EQUATION LIMIT OF STICKY BROWNIAN MOTION**

Hindy Drillick<sup>1</sup>  
1 - Columbia University

**P080 KPZ MODELS IN HALF SPACE AND PFAFFIAN POINT PROCESSES**

Takashi Imamura<sup>1</sup>; Matteo Mucciconi<sup>2</sup>; Tomohiro Sasamoto<sup>3</sup>  
1 - Department of Mathematics and Informatics, Chiba University, Japan; 2 - Department of Mathematics, University of Warwick, UK; 3 - Department of Physics, Tokyo Institute of Technology, Japan

**LIST OF PARTICIPANTS****A**

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## SOCIAL EVENTS

### Welcome Reception

Welcome reception will be held at the FCUL Campus, Building C3, on Monday, July 24<sup>th</sup> from 18:15 to 20:00. Drinks and snacks will be served.

### Young Researchers Reception

A reception for Young Researchers will be held at the FCUL Campus, Building C3, on Tuesday, July 25<sup>th</sup> from 18:15 to 19:15.

### Conference Dinner

If you have purchased a ticket for the Conference Dinner, please note that it will take place at the *Zambeze Restaurant*, close to S. Jorge Castle, on Thursday, 27<sup>th</sup> July from 20:00 to 23:00.

The use of the badge is required for admission.

**Location:** The venue is located on a rooftop with a view of downtown of Lisbon. It can be windy in the late afternoon and evening, so a sweater or a light jacket is advisable.

**Transportation:** Recommendation is to go by taxi or uber. *Transport by bus will not be provided from the conference venue to the restaurant.*

**By metro:** The restaurant is within a 10-minute walking distance from *Baixa-Chiado metro station*, served by the blue and green lines. Access to the restaurant can be done with the elevator "Elevador Castelo" that connects downtown area with the uphill area (Rua dos Fanqueiros to Rua da Madalena).

Be aware of pickpockets in the area particularly in the lift Elevador do Castelo.

To access the google maps – please click [here](#)



### Contact us

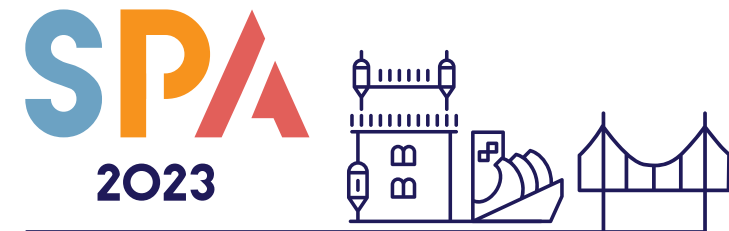
For administration and general information on the logistics of SPA Conference, please contact:



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43<sup>rd</sup> Conference on Stochastic Processes and their Applications

Thank you for your participation!

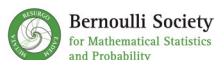
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