

Programme

Monday 20 June 2022 – All times are BST

09.10- 9.30 (BST)	Registration with coffee
09:30 -09.45 (BST)	Introductions
09:45-10:30 (BST)	Röckner, Michael (University of Bielefeld, Germany) <i>Title: On A Longstanding Open Problem In The Theory Of Markov Processes.</i>
10.30-11.00	Coffee/Tea
11.00-11.45 (BST)	Dong, Hongjie (Brown University, USA) <i>Title: Sobolev estimates for degenerate Kolmogorov equations</i>
11.55-12.20 (BST)	Gerencsér, Máté (TU Wien, Austria) <i>Title: Regularisation by noise with subcritical drifts or multiplicative noise</i>
12.20-14.00	Lunch
14.00-14.45 (BST)	Tolomeo, Leonardo (Hausdorff Center for Mathematics) <i>Title: Phase transitions of the focusing Φ^p_1 measures</i>
14.55-15.40 (BST)	Bringmann, Bjoern (Institute for Advanced Study/Princeton University, USA) <i>Title: Invariant Gibbs measures for the three-dimensional cubic nonlinear wave equation.</i>
15.40-16.05	Coffee/Tea
16.05-16.30 (BST)	Robert, Tristan (Université de Lorraine, France) <i>Title: Variational methods for some singular stochastic elliptic PDEs</i>
17.00 – 18.30 (BST)	Informal Welcome Reception with Posters <ul style="list-style-type: none"> • Dietze, Charlotte (LMU Munich) <i>Dispersive Estimates for Nonlinear Schrödinger Equations with External Potentials.</i> • Cornalba, Federico, (Institute of Science and Technology Austria (ISTA)) <i>On discretisations of Dean-Kawasaki models.</i> • Lee, Jinyeop (LMU Munich) <i>On the time dependence of the rate of convergence towards Hartree dynamics for interacting Bosons.</i> • Woo, Kwan (Korea University) <i>Sobolev and trace embeddings via mollifications.</i> • Zheng, Guangqu (University of Edinburgh) <i>Pathwise well-posedness of stochastic nonlinear Schrödinger equations with multiplicative noises.</i> • Zine, Younes (University of Edinburgh) <i>Convergence problems for singular stochastic dynamics.</i> • Wu, Sizhou (Nanyang Technological University) <i>Multilevel Picard Approximation Scheme for Semilinear Parabolic Partial Integro-differential Equations.</i> • Germ, Fabian (University of Edinburgh) <i>Nonlinear filtering for partially observed jump diffusions.</i>

Harmonic Analysis, Stochastics and PDEs in Honour of the 80th Birthday of Nicolai Krylov

ICMS, Edinburgh 20 – 24 June 2022

Tuesday 21 June 2022

09.30-10.15 (BST)	Kim, Kyeong-Hun (Korea University, Korea) <i>Title: Sobolev regularity for PDEs with fractional Laplacian on C^1 open sets.</i>
10.15-10.45	Coffee/Tea
10.45-11.30 (BST)	Safonov, Mikhail (University of Minnesota, USA) <i>Title: On the boundary estimates for solution to second order elliptic and parabolic equations</i>
11.40-12.25 (BST)	Peszat, Szymon (Jagiellonian University, Poland) <i>Title: Heat equation with Dirichlet white noise boundary conditions.</i>
12.25 -14.00	Lunch
14.00-14.25 (BST)	Maurelli, Mario (Università degli Studi di Milano, Italy) (ONLINE) <i>Title: Non-explosion by Stratonovich noise for ODEs</i>
14.35-15.00 (BST)	Hoshino, Masato (Osaka University, Japan) <i>Title: Paracontrolled calculus and regularity structures.</i>
15.10-15.35 (BST)	Dareiotis, Konstantinos (University of Leeds, UK) <i>Title: Approximation of stochastic differential equations with irregular drifts</i>
15.35-16.05	Coffee/Tea
16.05-16.30 (BST)	Sun, Chenmin (Universtité Paris-Est Créteil, France) <i>Title: Weak Universality for a class of nonlinear wave equatoins</i>
17.30	Doors open for Public Lecture
18.00-19.00 (BST)	Public Lecture Chevryrev, Ilya (University of Edinburgh, UK) <i>Title: The rough journey of Brownian motion: from pollen particles, to Avogadro number, to stock markets.</i>

Wednesday 22 June 2022

09.30-10.15 (BST)	Weis, Lutz (Karlsruhe Institute for Technology, Germany) <i>Title: A stochastic maximal function and regularity estimates for parabolic stochastic evolution equations.</i>
10.25-11.10 (BST)	Veraar, Mark (Delft University of Technology, Netherland) <i>Title: SPDE in critical spaces.</i>
11.10-11.40	Coffee/Tea
11.40-12.25 (BST)	Lee, Kijung (Ajou University, Korea) <i>Title: Stochastic parabolic equation and Dirichlet boundary condition.</i>
	Half Day – Please note no lunch will be served

Harmonic Analysis, Stochastics and PDEs in Honour of the 80th Birthday of Nicolai Krylov
 ICMS, Edinburgh 20 – 24 June 2022

Thursday 23 June 2022

09.30-10.15 (BST)	Trudinger, Neil (Australian National University, Australia) (ONLINE) <i>Title: Classical solvability of generated Jacobian equations.</i> BC
10.15-10.45	Coffee/Tea
10.45-11.30 (BST)	Da Prato, Giuseppe (Scuola Normale Superiore, Pisa) (ONLINE) <i>Title: Existence of the gradient for solutions of some Hypoelliptic Dirichlet problems</i>
11.40-12.25 (BST)	Priola, Enrico (University of Pavia, Italy) (ONLINE) <i>Title: Poisson process and sharp constants in L^p and Schauder estimates for a class of degenerate Kolmogorov operators.</i>
12.25-14.00	Lunch
14.00-14.45 (BST)	Pardoux, Etienne (Aix-Marseille Université, France) (ONLINE) <i>Title: Uniqueness of the filtering equations in the space of measures</i>
14.55-15.40 (BST)	Freidlin, Mark (University of Maryland, USA) (ONLINE) <i>Title: Long-time Influence of Small perturbations.</i>
15.40-16.05	Coffee/Tea
16.05-16.30 (BST)	Wang, Yuzhao (University of Birmingham) <i>Title: Stochastic quantization of Liouville conformal field theory</i>
18.00	Pre-dinner drinks
19.00	Conference Dinner

Friday 24 June 2022

09.30-09.55 (BST)	Li, Guopeng (University of Edinburgh) <i>Title: Convergence on the finite-depth fluid equation in the shallow water surface and infinitely deep water limits</i>
10.05-10.30 (BST)	Forlano, Justin (UCLA, USA) (ONLINE) <i>Title: Global well-posedness and quasi-invariance of Gaussian measures for fractional nonlinear Schrödinger equations</i>
10.30-11.00	Coffee/Tea
11.00-11.45 (BST)	Kim, Doyoon (Korea University, Korea) <i>Title: L_p theory for parabolic equations with local and non-local time derivatives.</i>
11.55-12.40 (BST)	Veretennikov, Alexander (University of Leeds) <i>Title: On ergodic properties of a diffusion with switching.</i>
	Half Day – Please note no lunch will be served
	Workshop Close