Statistical Mechanics and Singular SPDEs
(04 May 2026–22 May 2026)

List of Speakers and Talks' Title

Name & Affiliation	Talk Title
Mini Course	
Nathanael Berestycki University of Vienna, Austria	Massive Scaling Limits in 2D Statistical Mechanics
Alessandro Giuliani University of Roma Tre, Italy	Low-temperature Expansion for the Magnetization of the 3D Classical Heisenberg Model Part 1 & 2 Part 3 & 4
Lorenzo Zambotti Sorbonne University, France	Sewing and Reconstruction, from Deterministic to Stochastic
Research Talk	
Scott Armstrong Sorbonne Université, France	Anomalous Superdiffusion of Brownian Motion in Random Incompressible Flows
Quentin Berger Université Paris 13, France	An Introduction to the Stochastic Heat Flow
Bjoern Bringmann Princeton University, USA	Construction of the 2D Yang-Mills-Higgs Measure I
Yvain Bruned Université de Lorraine, France	A General Paracontrolled Ansatz for Singular SPDEs
Giuseppe Cannizzaro University of Warwick, UK	A Stochastic Homogeneization Approach to Supercritical SPDEs
Sky Cao Massachusetts Institute of Technology, USA	Construction of the 2D Yang-Mills-Higgs Measure II
Ajay Chandra Imperial College London, UK	Non-commutative Singular SPDE
Yu-Ting Chen University of Victoria, Canada	Martingale Description of the Two-dimensional Stochastic Heat Equation
Jeremy Clark University of Mississippi, USA	Gaussian Multiplicative Chaos Structure within the Polymer Measures Corresponding to the Critical 2d Stochastic Heat Flow

Name & Affiliation	Talk Title
Clément Cosco Université Paris Dauphine, France	The Maximum of 2d Directed Polymers
Alexander Dunlap Duke University, USA	Stationary Measure for the Open KPZ Equation: an Analytic Viewpoint
Simon Gabriel University of California, Berkeley, USA	Fluctuations in the Weakly Coupled 4D Anderson Hamiltonian
Masato Hoshino Institute of Science Tokyo, Japan	Fernique-type Bounds for BPHZ Models and their Applications
Stefan Junk Gakushuin University, Japan	Estimates for the Free Energy of Directed Polymers in d>=3
Hubert Lacoin Instituto Nacional de Matemática Pura e Aplicada, Brazil	Two Classical Diffusivity Results for Directed Polymers in the Weak Disorder Phase
Shuta Nakajima Meiji University, Japan	Equivalence of Fluctuations between SHE and KPZ in Subcritical Weak Disorder Regime
Makoto Nakashima Nagoya University, Japan	Regularity and Positivity of the Critical 2d Stochastic Heat Flow
Kyeongsik Nam KAIST, South Korea	Moments of Critical 2D Stochastic Heat Flow
Alejandro Ramirez NYU Shanghai, China	A Universality Property of the One-sided Ballistic Deposition Model near the Time Axis
Tommaso Rosati University of Warwick, UK	Global well posdeness for Exp(Phi)
Hao Shen University of Wisconsin-Madison, USA	A New Approach to Loop Equations and Gauge-string Duality for Abelian Lattice Gauge Theories
Fabio Toninelli TU Vienna, Austria	Disorder Relevance and Infinite-order Phase Transition for a Dimer Model with Random Weights
Nicola Turchi University of Milano-Bicocca, Italy	Strong-disorder Asymptotics for Two-dimensional Directed Polymers and Stochastic Heat Flow
Te-Chun Wang École Polytechnique Fédérale de Lausanne, Switzerland	Moments of a Long-range Correlated 2d Stochastic Heat Equation at Criticality

Name & Affiliation	Talk Title
Hendrik Weber University of Muenster, Germany	Scaling Limit of a Weakly Asymmetric Simple Exclusion Process in the Framework of Regularity Structures
Weijun Xu Westlake University, China	Periodic Homogenisation for Singular Stochastic PDEs
Lorenzo Zambotti Sorbonne University, France	From Skew to Reflected Stochastic PDEs via Stochastic Sewing
Rongchan Zhu Beijing Institute of Technology, China	Derivation of the Full Focusing Φ^6_1 Measure from Many-body Quantum Gibbs States
Xiangchan Zhu Chinese Academy of Science, China	Defocusing Gibbs Measure from Quantum Gibbs States
Student Presentation	
Hongyi Chen University of Illinois-Chicago, USA	Wick Renormalized Parabolic Stochastic Quantization Equations on Rough Metric Measure Spaces
Anna Donadini University of Milano-Bicocca, Italy	Noise Sensitivity and Directed Polymers
Victor Ginsburg University of California, Berkeley, USA	Critical Last Passage Percolation
Gaspard Gomez École Normale Supérieure, France	Polynomial Chaos with Respect to a Lévy White Noise: Moments and Convergence
Fabian Hofer University of Münster, Germany	A Statistical Analogue of Soliton Resolution for the Focusing Schrödinger Equation
Fanhao Kong Peking University, China	Weak Universality of KPZ with General Nonlinearity and Poisson Noise
Ziyang Liu University of Warwick, UK	Moment Bounds of Partition Functions of Polymer Models and Asymptotic Independence of Pairwise Local Times
Sarah-Jean Meyer University of Oxford, UK	An FBSDE for the Sine Gordon EQFT in Higher Regions
Zuodi Xie University of Warwick, UK	On the Maximum of Gaussian Fields: from Loglog to Log Correlation