

Statistical Mechanics and Singular SPDEs

Minicourse & Student Presentations

(18–20 May 2026)



ORGANIZING COMMITTEE

Francesco Caravenna
University of Milano-Bicocca

Rongfeng Sun
National University of Singapore

Nikos Zygouras
University of Warwick



Venue

18 May 2026

LT34

19–20 May 2026

IMS Executive Seminar Room

Bock S17, Level 3

10 Lower Kent Ridge Rd Singapore 119076

Minicourse on Statistical Mechanics and Singular SPDEs

(18–20 May 2026)

Monday, 18 May 2026

Venue: LT 34

Time	Title	Speaker
0900–0925	Registration	
0930–1030	Sewing and Reconstruction, from Deterministic to Stochastic (Part 1)	Lorenzo Zambotti <i>Sorbonne Université, France</i>
1030–1100	<i>Coffee break</i>	
1100–1200	Sewing and Reconstruction, from Deterministic to Stochastic (Part 2)	Lorenzo Zambotti <i>Sorbonne Université, France</i>
1200–1330	<i>Lunch break</i>	
1330–1430	Low-temperature Expansion for the Magnetization of the 3D Classical Heisenberg Model (Part 1)	Alessandro Giuliani <i>Università Roma Tre, Italy</i>
1430–1500	<i>Coffee break</i>	
1500–1600	Low-temperature Expansion for the Magnetization of the 3D Classical Heisenberg Model (Part 2)	Alessandro Giuliani <i>Università Roma Tre, Italy</i>
1600–1615	<i>Short break</i>	
Student Presentations		
1620–1635	Wick Renormalized Parabolic Stochastic Quantization Equations on Rough Metric Measure Spaces	Hongyi Chen <i>Aarhus University, Denmark</i>
1640–1655	A Statistical Analogue of Soliton Resolution for the Focusing Schrödinger Equation	Fabian Hofer <i>University of Münster, Germany</i>
1700–1715	Moment Bounds of Partition Functions of Polymer Models and Asymptotic Independence of Pairwise Local Times	Ziyang Liu <i>University of Warwick, UK</i>
1720–1735	Noise Sensitivity and Directed Polymers	Anna Donadini <i>University of Milano-Bicocca, Italy</i>
1735–1750	Weak Universality of KPZ with General Nonlinearity and Poisson Noise	Fanhao Kong <i>Peking University, China</i>

Tuesday, 19 May 2026

Time	Title	Speaker
0915–0930	Registration	
0930–1030	Massive Scaling Limits in 2D Statistical Mechanics (Part 1)	Nathanael Berestycki <i>University of Vienna, Austria</i>

Tuesday, 19 May 2026		
Time	Title	Speaker
1030–1100	<i>Coffee break</i>	
1100–1200	Massive Scaling Limits in 2D Statistical Mechanics (Part 2)	Nathanael Berestycki <i>University of Vienna, Austria</i>
1200–1330	<i>Lunch break</i>	
1330–1430	Sewing and Reconstruction, from Deterministic to Stochastic (Part 3)	Lorenzo Zambotti <i>Sorbonne Université, France</i>
1430–1500	<i>Coffee break</i>	
1500–1600	Sewing and Reconstruction, from Deterministic to Stochastic (Part 4)	Lorenzo Zambotti <i>Sorbonne Université, France</i>
1600–1615	<i>Short break</i>	
Student Presentations		
1620–1635	Polynomial Chaos with Respect to a Lévy White Noise: Moments and Convergence	Gaspard Gomez <i>École Normale Supérieure, France</i>
1640–1655	An FBSDE for the Sine Gordon EQFT in Higher Regions	Sarah-Jean Meyer <i>University of Oxford, UK</i>
1700–1715	Critical Last Passage Percolation	Victor Ginsburg <i>UC, Berkeley, USA</i>
1720–1735	On the Maximum of Gaussian Fields: from Loglog to Log Correlation	Zuodi Xie <i>University of Warwick, UK</i>
1800	<i>Conference Dinner (by invitation only)</i> <i>Sponsored by the Department of Mathematics</i> Location: Putien Geneo 1B Science Park Drive, #B1-33, Singapore 119315	
Wednesday, 20 May 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1030	Low-temperature Expansion for the Magnetization of the 3D Classical Heisenberg Model (Part 3)	Alessandro Giuliani <i>Università Roma Tre, Italy</i>
1030–1100	<i>Coffee break</i>	
1100–1200	Low-temperature Expansion for the Magnetization of the 3D Classical Heisenberg Model (Part 4)	Alessandro Giuliani <i>Università Roma Tre, Italy</i>
1200–1330	<i>Lunch break</i>	
1330–1430	Massive Scaling Limits in 2D Statistical Mechanics (Part 3)	Nathanael Berestycki <i>University of Vienna, Austria</i>
1430–1500	<i>Coffee break</i>	

Wednesday, 20 May 2026		
Time	Title	Speaker
1500–1600	Massive Scaling Limits in 2D Statistical Mechanics (Part 4)	Nathanael Berestycki <i>University of Vienna, Austria</i>

This schedule is accurate as of 18 May 2026 and is subjected to changes.