

“Summer School on Probabilistic methods in quantum field theory”

May 12 - 16, 2025

organized by

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Time measurement: CEST

• Monday, May 12

08:30 - 09:00	<i>Arrival and Registration</i>
09:00 - 09:05	<i>Welcome by HIM Director Karl-Theodor Sturm</i>
09:05 - 10:00	Malin Palö Forrström <i>An introduction to lattice gauge theories</i>
10:00 - 10:30	<i>Coffee break</i>
10:30 - 11:30	Malin Palö Forrström <i>An introduction to lattice gauge theories</i>
11:30 - 12:00	Liam Hughes <i>Embeddability of Liouville quantum gravity metrics</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 16:00	Antti Kupiainen <i>Probabilistic Conformal Field Theory</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	Antti Kupiainen <i>Probabilistic Conformal Field Theory</i>
afterwards	<i>Get-Together</i>

• Tuesday, May 13

09:00 - 10:00	Morris Ang <i>Solvability of Schramm-Loewner Evolution via Liouville Quantum Gravity</i>
10:00 - 10:30	<i>Group Photo and Coffee break</i>

10:30 - 11:30	Morris Ang <i>Solvability of Schramm-Loewner Evolution via Liouville Quantum Gravity</i>
11:30 - 12:00	Philémon Bordereau <i>SLE and its partition function in multiply connected domains</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 16:00	Christophe Garban <i>The Berezinskii-Kosterlitz-Thouless (BKT) phase transition</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	Christophe Garban <i>The Berezinskii-Kosterlitz-Thouless (BKT) phase transition</i>

• **Wednesday, May 14**

09:00 - 10:00	Antti Kupiainen <i>Probabilistic Conformal Field Theory</i>
10:00 - 10:30	<i>Coffee break</i>
10:30 - 11:30	Antti Kupiainen <i>Probabilistic Conformal Field Theory</i>
11:30 - 12:00	Harini Desiraju <i>Exploring Probability and CFT via Integrable Structures</i>
12:00 - 15:00	<i>Lunch</i>

• **Thursday, May 15**

09:00 - 10:00	Christophe Garban <i>The Berezinskii-Kosterlitz-Thouless (BKT) phase transition</i>
10:00 - 10:30	<i>Coffee break</i>
10:30 - 11:30	Christophe Garban <i>The Berezinskii-Kosterlitz-Thouless (BKT) phase transition</i>
11:30 - 12:00	Aleksandra Korzhenkova <i>Entropic Repulsion of Gaussian Free Field by an Interval</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 16:00	Malin Palö Forrström <i>An introduction to lattice gauge theories</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	Malin Palö Forrström <i>An introduction to lattice gauge theories</i>

• **Friday, May 16**

09:00 - 10:00	Morris Ang <i>Solvability of Schramm-Loewner Evolution via Liouville Quantum Gravity</i>
10:00 - 10:30	<i>Coffee break</i>
10:30 - 11:30	Morris Ang <i>Solvability of Schramm-Loewner Evolution via Liouville Quantum Gravity</i>
11:30 - 12:00	Baojun Wu <i>Integrability of Conformal Loop Ensemble: Imaginary DOZZ Formula and Beyond</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 15:30	Irene Ayuso Ventura <i>The random cluster model on trees and tree recursions</i>
15:30 - 16:00	Levi Haunschmid-Sibitz <i>Near-critical dimers and massive SLE_2</i>
16:00 - 16:30	<i>Coffee</i>