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Liouville Conformal Field Theory: A Probabilistic Approach

The course gives an introduction to a probabilistic approach to Liouville Conformal Field Theory developed together with David, Rhodes and Vargas.

Contents:
1. Scaling limits of random surfaces and Liouville model
2. Gaussian Free Field and Multiplicative Chaos
3. Liouville QFT on the 2-Sphere
4. Möbius and Weyl invariance
5. Vertex opeartors and Seiberg bounds
6. Energy-momentum tensor and Conformal Ward Identities
7. Quantum Mechanical Hilbert Space and Virasoro Algebra
8. Spectrum, DOZZ formula and other challenges

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