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Liouville quantum gravity and SLE

vendredi 27 septembre 2024 14:00 (1 heure)

There has been tremendous progress in the mathematical study of two dimensional statistical mechanics models at criticality in the last 25 years. This was initially catalyzed by the discovery of the Schramm-Loewner evolution (SLE; the canonical model for a conformally invariant random planar curve) and later by the mathematical formulation of Liouville quantum gravity (LQG; the canonical model for a random two-dimensional Riemannian manifold). We will discuss the history and recent developments in the study of SLE and LQG, the deep connections between them as well as their discrete and combinatorial counterparts.

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