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Generalized & Quantum SLE Multifractality

mercredi 10 juin 2015 17:15 (45 minutes)

We describe some recent advances in the multifractality of the Schramm-Loewner evolution. This includes a generalized notion of integral means spectrum for unbounded whole-plane SLE, depending on two moments, with a phase transition between a new spectrum and the usual spectrum, originally obtained via quantum gravity. Conversely, we show that any such multifractal spectrum in the plane has a universal analogue in Liouville quantum gravity, with specific applications to SLE.

Based on joint works with H. Ho, B. Le & M. Zinsmeister ; and G. Borot & J. Miller.

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