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Extremes for the two dimensional Liouville model

Tuesday, May 20, 2025 9:20 AM (1 hour)

We establish a strong coupling between the Liouville model and the Gaussian free field on the two dimensional torus, which bounds the difference of the two fields uniformly by a random constant. As an application we show that the maximum of the Liouville field converges in distribution to a randomly shifted Gumbel distribution.

Joint work with Michael Hofstteter.

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