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Liouville quantum gravity with central charge in (1,25)

Tuesday, July 29, 2025 9:20 AM (1 hour)

I will give an overview of several recent results concerning Liouville quantum gravity in the supercritical (a.k.a. strongly coupled) phase, which corresponds to central charge $c \in (1, 25)$, or equivalently coupling constant $\gamma \in \mathbb{C}$ with $|\gamma| = 2$. Such results include the existence of a metric, the non-existence of an area measure, a coupling with CLE_4, and connections to random planar maps.
Based on joint works with Morris Ang, Manan Bhatia, Jian Ding, and Jinwoo Sung.

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