

Imaginary Liouville conformal field theory

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Conformal field theory in dim 2 allows to describe scaling limits of many statistical physics models, such as Ising model and its variants. CFT are parametrized by their central charge and conformal weights. We construct using probability (and in particular the compactified boson) a whole family of conformal field theories with central charge $c < 1$ and discrete spectrum, which sets to be a good candidate to describe scaling limits of many statistical physics models, including non-unitary and logarithmic CFT, loop models. Joint work with Kupiainen and Rhodes.

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