

# Conformal field theory 3 ways: integrable, probabilistic, and supersymmetric



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## Introduction to Liouville field theory

*Tuesday 23 January 2024 09:00 (1 hour)*

In the the first lecture I will outline the main mathematical features of the bootstrap approach to Liouville conformal field theory, assembling the Liouville correlation function from holomorphic functions called conformal blocks. The most important properties of the conformal blocks will be described. The second lecture will review a construction of the conformal blocks using an analytic version of the free field representation. If time permits, we will outline how the free field representation can be used to derive the braid relations, which can serve as a key ingredient in the bootstrap approach.

**Presenter:** TESCHNER, Joerg (DESY)