

# On the relation between the Liouville and Teichmüller (quantum)theories

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Liouville theory is a two dimensional conformal field theory appearing in the AGT-correspondence, while Teichmüller spaces are the universal coverings of the moduli spaces of Riemann surfaces. The latter can be viewed as a finite dimensional subspace of the infinite dimensional phase space of Liouville theory. Therefore the two are closely related both on the classical as well as on the quantum level. I will give a short introduction to classical Liouville theory and Teichmüller spaces and show how they are related. Then I will speak a few words on the quantization of these and how this relation shows up on the quantum level.