

Partition functions from quantum curves

Monday 10 June 2019 11:00 (30 minutes)

In joint work with I. Coman and E. Pomoni we had recently proposed a definition of the topological string partition functions for the local Calabi-Yau manifolds used in the geometric engineering of $N=2$, $d=4$ class S field theories. The main goal of my talk will be to review this proposal, and to explain how the exact WKB method provides a crucial ingredient. We thereby arrive at a fully non-perturbative construction of the partition functions from the classical curves describing the relevant B-model backgrounds.

Presenter: TESCHNER, Joerg (DESY)