

## 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.

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