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The resurgent structure of topological strings

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In recent years, the ideas of resurgence have been applied to many theories arising in physics. Perhaps the clearest success story has been topological string theory. The so-called free energy of topological strings on a Calabi-Yau threefold is given by a factorially divergent series, and there is by now a partially conjectural but complete description of its full set of Borel singularities, Stokes constants and Stokes automorphisms. In particular, Stokes constants are conjecturally given by the Donaldson-Thomas invariants of the Calabi-Yau. I will present the results obtained so far and discuss some open problems.

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