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Topological strings and modularity

We will review some aspects of topological strings and recent work on its relation to modular forms. Topological string theory provides us with a sequence of functions which are expected to be automorphic in a particular sense. In a certain limit, the Fourier coefficients are related to Gromov-Witten invariants of Calabi-Yau threefolds. For specially chosen threefolds, these functions are ordinary modular forms.