DESY THEORY WORKSHOP

Quantum field theory meets gravity

HELMHOLTZ
RESEARCH FOR GRAND CHALLENGES

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Modularity from Monodromy

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We discuss the relation between certain auto-equivalences of the category of B-branes on elliptic Calabi-Yau threefolds and modular properties of the corresponding topological string partition function.
This suggests a geometric explanation and generalization of recent conjectures on the appearance of lattice Jacobi forms.
In particular, we will shed light on the special case where the fibration does not have a section but only multi-sections.

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