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Modularity of open Gromov-Witten potentials of elliptic orbifolds. (English) Zbl 1347.81068
Commun. Number Theory Phys. 9, No. 2, 345-385 (2015).

Summary: We study the modularity of the genus zero open Gromov-Witten potentials and its generating matrix factorizations for elliptic orbifolds. These objects constructed by Lagrangian Floer theory are a priori well-defined only around the large volume limit. It follows from modularity that they can be analytically continued over the global Kähler moduli space.

MSC:

- [81T30](#) String and superstring theories; other extended objects (e.g., branes) in quantum field theory
- [14N35](#) Gromov-Witten invariants, quantum cohomology, Gopakumar-Vafa invariants, Donaldson-Thomas invariants (algebraic-geometric aspects)
- [57R58](#) Floer homology
- [57R18](#) Topology and geometry of orbifolds
- [14N10](#) Enumerative problems (combinatorial problems) in algebraic geometry
- [14D21](#) Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)
- [08B10](#) Congruence modularity, congruence distributivity

Cited in **1** Review
Cited in **5** Documents

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