

Shen, Yefeng; Zhou, Jie**LG/CY correspondence for elliptic orbifold curves via modularity.** (English) Zbl 1443.14060
J. Differ. Geom. 109, No. 2, 291-336 (2018).

Summary: We prove the Landau-Ginzburg/Calabi-Yau correspondence between the Gromov-Witten theory of each elliptic orbifold curve and its Fan-Jarvis-Ruan-Witten theory counterpart via modularity. We show that the correlation functions in these two enumerative theories are different representations of the same set of quasi-modular forms, expanded around different points on the upper-half plane. We relate these two representations by the Cayley transform.

MSC:

- 14N35** Gromov-Witten invariants, quantum cohomology, Gopakumar-Vafa invariants, Donaldson-Thomas invariants (algebraic aspects)
57R18 Topology and geometry of orbifolds
14J32 Calabi-Yau manifolds (algebraic aspects)

Cited in **3** Documents**Full Text:** [DOI](#) [Euclid](#)