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WDVV-type relations for disk Gromov-Witten invariants in dimension 6. (English)
Zbl 1490.53103

This paper establishes WDVV-type relations for genus-0 open Gromov-Witten invariants attached to “real” symplectic manifolds of dimension 6. This subsumes and generalizes previous results by the authors, earlier results by Solomon, and also makes contact with recent work on relative quantum cohomology by Solomon and Tukachinsky. The present paper follows the algebraic route, incorporates symmetries (other than the real structure), and shows the effectiveness of the WDVV-type relations by evaluating the invariants for projective space.

Reviewer: Johannes Walcher (Montréal)

MSC:
53D45 Gromov-Witten invariants, quantum cohomology, Frobenius manifolds
14N35 Gromov-Witten invariants, quantum cohomology, Gopakumar-Vafa invariants, Donaldson-Thomas invariants (algebro-geometric aspects)

Keywords:
Gromov-Witten theory; real enumerative geometry; WDVV equations

Full Text: DOI arXiv

References:

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