

Gromov-Witten theory and the Abel-Jacobi map

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Abstract

I will discuss joint work with Rahul Pandharipande in which we study two questions about genus 0 Gromov-Witten theory on the cubic threefold. One is to understand the invariants which involve the middle cohomology group. The second is to understand the quantum deformation of the ring structure on the Chow ring. These problems are related in that they both involve the geometry of the intermediate Jacobian and the Abel-Jacobi map.