

Quantum intersection numbers on the moduli space of curves and the Gromov-Witten invariants of the projective line

Wednesday, June 5, 2024 9:10 AM (50 minutes)

I will talk about our recent joint work with Xavier Blot, where we related the quantum intersection numbers on the moduli space of curves to the stationary relative Gromov-Witten invariants of the projective line with an insertion of a Hodge class.

As a corollary, this gives a new geometric interpretation of the standard intersection numbers of psi-classes on the moduli space of curves. We also give a new, much shorter proof, of an explicit formula for the “purely quantum” intersection numbers, which was obtained before by Xavier Blot, and which relates these numbers of the one-part double Hurwitz numbers.

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