

Structure theorems for Gromov-Witten invariants

Eleny Ionel (Stanford)

Abstract:

In this talk, based on joint work with Thomas Parker, we discuss the structure of Gromov-Witten invariants of certain types of symplectic manifolds. In some cases, one can express the Gromov-Witten invariants in terms of a (virtual) count of embedded elementary curves, which takes integer values, and the contribution of their multiple covers. A special case consists of all Calabi-Yau 3-folds, which was conjectured earlier based on string theory and mirror symmetry considerations.