

Enumerative Geometry on Moduli Spaces

Wei-Ping Li

Abstract Enumerative geometry studies the counting of algebraic geometry objects such as how many lines in the plane passing through two given points. The set of objects is called a moduli space. In most of the cases, an enumerative geometric problem is formulated as an intersection theoretic problem on the moduli space. I will present the topic of the counting of curves on Calabi-Yau threefolds, which is related to theoretical physics.