

abstract

Joint IAS-PU Symplectic Geometry Seminar
Topic:

Speaker:

Affiliation:

Date:

Time/Room:

A remarkable phenomenon in Gromov-Witten theory is the appearance of (quasi)-modular forms. For example, Gromov-Witten generating functions for elliptic curve, local \mathbb{P}^2 , elliptic orbifold \mathbb{P}^1 are all (quasi)-modular forms. In this talk, we will discuss modularity property of the Gromov-Witten cycles of elliptic orbifold \mathbb{P}^1 . Since Gromov-Witten cycles live in the cohomology space of moduli of pointed curves, our result gives a geometric realization of a collection of vector-valued (quasi)-modularity forms via Gromov-Witten theory. This work is joint with Todor Milanov and Yongbin Ruan.