

## Joint IAS-PU Symplectic Geometry Seminar

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Gromov-Witten Theory and Cycle-Valued Modular Forms

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**Date & Time:** Fri, 11/30/2012 - 13:30 - 14:30

**Location:** Fine Hall 401

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.

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terms:

- [School of Mathematics](#)