BOSTON UNIVERSITY SPECIAL GEOMETRY SEMINAR

OPEN GLOBAL MIRROR SYMMETRY

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January 10, 2018, 4:00 – 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:30pm in Room 144

Abstract: Mirror symmetry first garnered attention by using a duality from string theory to predict the number of rational curves on the quintic threefold by encapsulating them via period integrals on another threefold, known as the mirror quintic. Global mirror symmetry uses various deformations of the same mirror space to predict the number of higher genus curves on a Calabi-Yau variety. This approach immediately requires new technology, spurring the study of enumerative geometry for Landau-Ginzburg models. In this talk, we will explore a new approach to compute enumerative geometry for Landau-Ginzburg models by establishing mirror symmetry for open enumerative invariants for them in low dimensions. We will focus on constructing a mirror for open r-spin theory. This work is joint with Mark Gross and Ran Tessler.

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