

SCMS Seminar



NEW CALCULATIONS IN CURVE COUNTING THEORY FOR CALABI-YAU 3-FOLDS

Dr. Junliang Shen

ETH Zurich

Time: 14:00-15:00, Monday, July 31, 2017

Venue: Room 2201, East Main Guanghua Tower, Handan Campus

Abstract: We will discuss recent progress of calculating curve counting invariants in higher genus for several compact Calabi-Yau 3-folds and its connection to modular forms. We mainly focus on the case where the Calabi-Yau geometry is related to elliptic fibrations or K3 surfaces. Structures in both Gromov-Witten theory and Donaldson-Thomas theory play essential roles in the calculations. Based on joint work with Georg Oberdieck.