上海数学中心
SHANGHAI CENTER FOR
MATHEMATICAL SCIENCES

SIMIS

ENUMERATIVE GEOMETRY SEMINAR

Speaker: Todor Milanov
Kavli IPMU

Time: Wed. Sep 10th, 14:00 - 16:00
Venue: SIMIS Room 1210

Reflection vectors in quantum cohomology

Abstract: Smooth projective varieties with semi-simple quantum cohomology is a very interesting class of varieties from the point of view of mirror symmetry and integrable systems. The goal in the first part of my talk is twofold. I would like to explain an approach to integrability in Gromov-Witten theory based on vertex algebras and more generally Borcherd's products. This is based on an old joint work with Bojko Bakalov. As a byproduct of our construction, we will see that there is a certain system of vectors, called reflection vectors, that plays a key role in our project. The second goal of my talk is to explain the relation between reflection vectors and the refined Dubrovin conjecture. This part is based on a recent joint work with John Alexander Cruz Morales.