

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : Dr. Hiep Dang

(National Center for Theoretical Sciences)

Title : *Quantum cohomology of the Lagrangian Grassmannian*

Abstract :

The Lagrangian Grassmannian, denoted by $LG(n)$, is a homogeneous space of Lagrangian subspaces of a complex symplectic vector space of dimension $2n$. This talk is devoted to the small quantum cohomology ring of $LG(n)$. More concretely, we shall focus on the quantum structure constants and explain how to compute them. Geometrically, these are 3-point, genus 0 Gromov-Witten invariants of $LG(n)$ which count the number of rational curves contained in $LG(n)$ intersecting with three Schubert varieties in general position. By the quantum-classical principle of Buch-Kresch-Tamvakis, we show that the quantum structure constants can be computed as intersection numbers on the usual Grassmannian.

Time : 11:00 – 12:30, Wednesday, Sep. 20, 2017

Venue : Room 638, Astro-Math. Buidling (NTU Campus)

Organizer : Chih-Wei Chen (NCTS), Jyun-Ao Lin (Academia Sinica)

Refreshment : 10:30

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