

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Virtual neighborhood techniques in Gromov-Witten theory

Professor Bai-Ling Wang
Australian National University

Date: January 2, 2014 (Thursday)

Time: 4:30 – 5:30pm

Venue: Room 210, Run Run Shaw Bldg., HKU

Abstract

In this talk, I will report my recent joint work with Bohui Chen and Anmin Li on the foundation of Gromov-Witten theory. We will address how to resolve several technical issues arising from the definition of Gromov-Witten invariants, such as the stratified Fredholm systems and non-smooth action of reparametrization groups. The basic tool will be the notion of virtual manifold and virtual orbifold proposed by Bohui Chen and Gang Tian.

All are welcome