

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## **GEOMETRY SEMINAR**

# **Relative Noether inequality on fibered surfaces**

**Dr. Tong ZHANG**

University of Alberta, Canada

Date: May 27, 2014 (Tuesday)

Time: 4:00 – 5:00pm

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

### **Abstract**

In the talk, I will discuss a relative version of the classical Noether inequality on algebraic surfaces. As an application, I will talk about a new proof of the slope inequality for fibered surfaces. I will also talk about how to apply this relative Noether inequality to study the geography of surfaces in positive characteristic. This is a joint work with Xinyi Yuan.

*All are welcome*