



中央研究院數學研究所
Institute of Mathematics
Academia Sinica

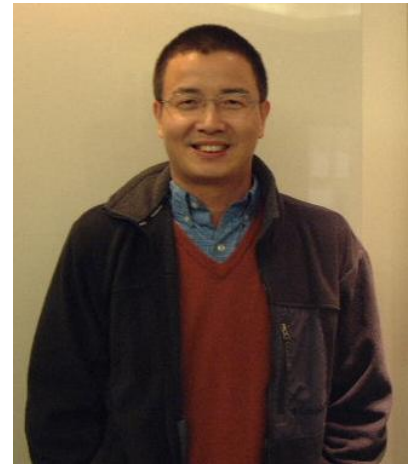
國立台灣大學數學系
Department of Mathematics
National Taiwan University



Lakeside Lecture Series

Speaker: 王偉強教授

Professor Weiqiang Wang
(University of Virginia)



Title: Symmetric groups,
Hecke algebras, and geometry.

Abstract:

The symmetric groups have classical connections with combinatorics and algebraic geometry (known as Schubert calculus). In this lecture, I will describe some algebraic structures of the centers of the group algebras of symmetric groups and its more recent connection to algebraic geometry (cohomology rings of Hilbert schemes of points on the affine plane). The symmetric group side of the story can be q -deformed to Hecke algebras, and this generalization reveals some remarkable integrality/positivity and calls for a geometric interpretation.

Date: March 4th, 2013

Time: 14:00-15:00

Venue: Room 202, 2/F, Astro-Math. Building

Refreshment: 13:30-14:00

Organizers: Yi-Chiuan Chen, Kin-Ming Hui, Jenn-Nan Wang, Jeremy Wong

