



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 Lectures

Speaker: Yujiro Kawamata

(University of Tokyo)



Title: Derived category of toric varieties

Abstract:

The method of toric varieties provides a powerful tool for the construction of many interesting algebraic varieties. Difficult equations are reduced to easy combinatorics. Many interesting examples are constructed by this method. It is also very useful for explicitly calculating difficult invariants such as Gromov-Witten invariants. Toroidal varieties appear everywhere. I will explain how the derived categories of toric varieties behave nicely under birational transformations in the minimal model program. As an application, I will explain McKay correspondence for finite abelian groups.

Date: Sep. 29th (Mon), 2014

Time: 14:00-15:00

Venue: Room 202, Astro-Math Building

Refreshment: 13:30-14:00

Organizers: Chen-Yu Chi, Chin-Yu Hsiao, Mao-Pei Tsui, Fu-Tsun Wei

