



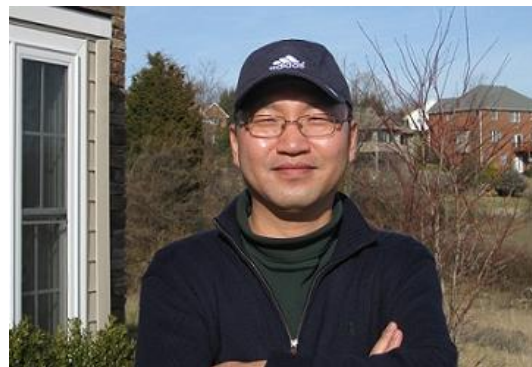
中央研究院數學研究所  
Institute of Mathematics  
Academia Sinica

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



# Lakeside Lecture Series

Speaker: Professor Ki-Ahm Lee  
(Seoul National University)



Title: Fully Nonlinear Curvature Flows  
with general introductions

Abstract:

In this talk, we are going to discuss nonlinear curvature flows with applications. Curvature flow is the deformations of surfaces in the inward normal direction with a speed proportional to a curvature for example mean curvature, and gauss curvature. We will focus on the gauss curvature flows and scalar curvature flows. One of the main question is the regularity of the solutions depending on the geometric shape of the surface. Different geometric condition will change the class of nonlinear equation even though it follows the same kind of curvature flow and it will requires different approach to get the optimal regularity. The other interesting question is the geometric shape of the solution as it blows up. We will discuss a couple of different methods to achieve the results.

Date: Dec. 3<sup>rd</sup>, 2012

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, Jeremy Wong, Jeng-Daw Yu

