Department of Mathematics

The Institute of Mathematical Sciences

The Chinese University of Hong Kong

數學系

數學科學研究所

香港中文大學

Phone: (852) 3943 7988 ● Fax: (852) 2603 5154 ● Email: dept@math.cuhk.edu.hk (Math. Dept.)
Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Joint Geometric Analysis Seminar

(Part of MIST program)

Lelong Numbers of m-Subharmonic Functions Along Submanifolds

Prof. Nicholas McCleerey
University of Michigan

Abstract

We study the possible singularities of an m-subharmonic function φ along a complex submanifold V of a compact Kähler manifold, finding a maximal rate of growth for φ which depends only on m and k, the codimension of V. When $k < m$, we show that φ has at worst log poles along V, and that the strength of these poles is moreover constant along V. This can be thought of as an analogue of Siu's theorem. This is joint work with Jianchun Chu.

Date: April 20, 2022 (Wednesday)

Time: 11:00am – 12:00pm (Hong Kong time)

ZOOM link: https://cuhk.zoom.us/j/91805734715

All are Welcome