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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