

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Bochner-Kodaira techniques on Kähler Finsler manifolds

Professor Chunhui Qiu
Xiamen University, China

Abstract

A horizontal Hodge Laplacian operator $\square_{\mathcal{H}}$ is defined for holomorphic vector bundles over PTM on Kähler Finsler manifolds, and the expression of $\square_{\mathcal{H}}$ is obtained explicitly in terms of horizontal covariant derivatives of the Chern-Finsler connection. The vanishing theorem is obtained by using the $\partial_{\mathcal{H}}\bar{\partial}_{\mathcal{H}}$ -method.

Date: March 26, 2012 (Monday)

Time: 4:00 - 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome