

MATH-IMS Joint Colloquium Series
The Chinese University of Hong Kong

This MATH-IMS Joint Colloquium Series in pure mathematics is organized by the Department of Mathematics and the Institute of Mathematical Sciences (IMS) at the Chinese University of Hong Kong. The series focus on all areas of pure mathematics together with theoretical developments and applications.

Date: February 4, 2021 (Thursday)

Time: 4pm – 5pm (Hong Kong Time)

Zoom Link: <https://cuhk.zoom.us/j/98846779826>

Kahler manifolds with positive orthogonal
Ricci curvature

Speaker: Professor Fangyang Zheng
Chongqing Normal University

Abstract: The orthogonal Ricci curvature of a tangent direction in a Kahler manifold is the difference between the Ricci and the holomorphic sectional curvature of that direction. This curvature notion is closely related to Ricci and holomorphic sectional curvature. We are interested in understanding the class of compact Kahler manifolds with everywhere positive orthogonal Ricci curvature. In this talk, I will report on some recent progress on the topic.

Bio: Professor Fangyang Zheng obtained his Ph.D. at Harvard University in 1989 under the supervision of Prof. Shing-Tung Yau. After that, he has been a Moore Instructor at MIT, an Assistant Professor at Duke University, and in 2001 became a full professor at Ohio State University. Prof. Zheng is a leading expert in complex differential geometry, and he has been members of prestigious research institutes such as the Institute for Advanced Study at Princeton and the Mathematical Sciences Research Institute at Berkeley. In recognition of his fundamental contributions to complex geometry and submanifold theory, Prof. Zheng was awarded the Sloan Fellow in 1995 and NSA Young Investigator in 1998.