



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)

Optimal volume bound and volume growth for manifolds with nonnegative Ricci curvature and positive bi-Ricci curvature

*Prof. Jintian, Zhu
Westlake University*

Abstract

In this talk, we will first review Gromov's volume bound conjecture and its variant, the volume growth conjecture, for manifolds with nonnegative Ricci curvature and positive scalar curvature. As natural generalisations we show how to prove analogies of these conjecture for with nonnegative Ricci curvature and positive bi-Ricci curvature when the dimension is less than eight. This is a joint work with Prof. Jie Zhou from Capital Normal University.

Date: 18 July 2024 (Thursday)
Time: 10:30 am-11:30 am
Venue: Room 501a, AB1

All are Welcome