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)

Rigidity and stability results involving scalar curvature

Prof. Sven Hirsch
Institute for Advanced Study

Abstract

We present several new stability and rigidity results for scalar curvature. In particular, we prove stability of Llarull's theorem in all dimensions using spin geometry. Additionally, we discuss some related questions which are motivated by General Relativity. This is based upon joined work with Yiyue Zhang.

Date: February 19, 2024 (Monday)
Time: 10:30am-11:30am
Venue: AB1 501a

All are Welcome