



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](mailto: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)

## *Lecture Series on Geometric Analysis: Geometric flows on open manifolds*

*Dr. Luke Peachey*  
*The Chinese University of Hong Kong*

### *Abstract*

Second talk: The evolution of open curves under curve shortening flow.

Despite the technicalities of the two flows differing vastly, mean curvature flow and Ricci flow exhibit similar behaviour, and as such, we may ask questions about the curve shortening flow analogous to the ones discussed last week. After first finishing our discussion of Ricci flow and Ricci flow spacetimes from last week, we will formulate a uniqueness conjecture for the evolution of properly embedded curves within the plane, and show how such a conjecture breaks inside general ambient surfaces.

Date: November 30, 2023 (Thursday)

Time: 10:30am-noon

Venue: AB1 G03

*All are Welcome*