



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PDE

Minimal submanifolds with stratified branching sets

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Abstract

Multi-valued harmonic functions arise naturally in several different contexts, including in the description of higher codimension minimal submanifolds. Using some insights that emerged originally in gauge theory I will describe some new ways to construct minimal submanifolds with intricate branching sets. This is joint work with Federico Francheschini and Paul Minter. More broadly, I will also discuss some of the emerging theory of multivalued harmonic functions, as developed by a number of researchers.

Date: 27 February 2026 (Friday)

Time: 9:30am

Zoom Meeting: <https://hkust.zoom.us/j/97586747895> (Passcode: 331444)

All are Welcome!