For favour of Posting

THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Entire minimal graphs from an evolving-plane ansatz

by

Dr. Jingbo WAN

Sorbonne University, Paris

Abstract

We introduce an evolving-plane ansatz to construct entire minimal graphs of odd dimension n ≥ 3 and codimension m ≥ 2. By allowing the slope of an (n-1)-plane to evolve over time, the minimality condition reduces the problem to a geodesic equation on the Grassmannian of (n-1)-planes in affine coordinates. This approach produces a large family of explicit entire minimal graphs. Additionally, the conormal bundle of each graph gives rise to an entire special Lagrangian graph in C^{n+m}. This work is joint with Chung-Jun Tsai, Mao-Pei Tsui and Mu-Tao Wang.

.

Date : 12 February 2026 (Thursday)
Time : 4:00p.m.-5:00p.m.
Venue : Room 3598 (Lift 27/28)

All are Welcome!