



北京理工大学

数学与统计学院学术报告

Pattern formations of coupled PDEs with transparent boundary conditions and applications

报告人: 刘宏宇 香港城市大学

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报告人简介: Hongyu Liu is a Chair Professor of Applied Mathematics at City University of Hong Kong. His research focuses on the analysis, computation and applications of inverse problems and imaging, wave propagation, partial differential equations, mathematical materials science, scattering theory and spectral theory, game theory and mathematical biology.

摘要: In this talk, I will discuss our study on a class of coupled PDEs with transparent boundary conditions that arises in a variety of cutting-edge applications including inverse boundary problems, spectral geometry of invisibility, and super-resolution imaging. I shall report several peculiar local and global pattern formations of these PDEs. Several novel applications will also be discussed.