



偏微分方程及其应用中心 学术报告

报告题目: **Discontinuous waves of hyperbolic systems, a frontier in nonlinear wave stability**

报告人: **Prof. L. Miguel Rodrigues (Rennes, France)**

时间: **2023年10月25日(星期三) 9:00 am**

地点: **数学院南楼 613**

摘要: The talk will begin with a gentle introduction to some of the current frontiers of our understanding of nonlinear stability of traveling waves of partial differential equations, especially on how spectral stability implies nonlinear stability and which kind of dynamics may be expected.

In a second part, it will focus on a specific part of the frontier, the stability of discontinuous waves of hyperbolic systems, and show a few significant steps obtained by the author with respectively Vincent Duchêne (Rennes), Gregory Faye (Toulouse) and Louis Garénaux (Karlsruhe).