数学与系统科学研究院学术报告

报告题目：Recent Progress on Nonhomogeneous Boundary Value Problems of the Korteweg-de Vries Equation

报 告 人：Bingyu Zhang, University of Cincinnati

时间地点：8:50-9:50AM, 24 May, 2012, Room 405, Siyuan Building

摘要：

Over the last two decades the field of dispersive wave equations has experienced a striking evolution. A number of new ideas and techniques emerged, spurring progress on problems which until quite recently seemed intractable. In this talk we will discuss various nonhomogeneous boundaryvalue problems of the Korteweg-de Vries (KdV) equation, a classical representation of dispersive wave equations, for its well-posedness. In particular, we will demonstrate how the harmonic analysis based techniques developed by Bourgain, Kernig, Ponce and Vegas as well as many others play important roles in studying the well-poshness of nonhomogeneous boundary-value problems of the equation. An overall review of recent progress on this subject will be provided. Some open questions will be also discussed if time permitted.

报告人简介：

PhD in mathematics, 1990, University of Wisconsin-Madison

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