



偏微分方程及其应用中心

学术报告

报告题目: The dissipative structure for general systems of hyperbolic-parabolic systems with Korteweg-type dispersion

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时间: 2023年6月12日(星期一)
上午 10:00-11:00

地点: 数学院南楼 613

摘要: The talk is concerned with generally symmetric hyperbolic-parabolic systems with Korteweg-type dispersion. Referring to those classical efforts, we formulate a new structural condition for the Korteweg-type dispersion and develop the dissipative mechanism of “regularity-gain type”. As an application, it is checked that several concrete model systems (e.g., the compressible Navier-Stokes(-Fourier)-Korteweg equations) satisfy the general structural conditions. This is a joint work with Professors Shuichi Kawashima and Yoshihiro Shibata.