

偏微分方程及其应用中心系列专题报告

- 報告題月, Introduction to energy methods for non-linear PDEs
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- 地 点, 数学院南楼 613
- In this short course, taking several examples of one-dimensional nonlinear PDEs which often appear in the field of fluid dynamics, we introduce several elementary energy methods which provide "a priori" estimates for the global existence in time and asymptotic behavior of solutions.

Lecture I, Generalized Burgers equation I 2024年10月22日(周二), 14:00-16:00 Asymptotic stability of constant states

Lecture II, Generalized Burgers equation II 2024年10月24日(周四), 14:00-16:00 Asymptotic stability of viscous shock and rarefaction waves

Lecture III, Viscous p-system 2024年10月29日(周二), 14:00-16:00 Asymptotic stability of constant states Comments on general cases

Lecture IV, p-system with linear damping 2024年10月31日(周四), 14:00-16:00 Asymptotic behaviors of solutions