数学与系统科学研究院 计算数学所学术报告

<u>报告人</u>: Dr. Jia Zhao

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报告题目:

ModelingandNumericalApproximationsofDissipativeSystems with Applications

邀请人: 许现民 副研究员

<u>报告时间</u>: 2018 年 7 月 16 日(周一) 上午 10:00-11:00

报告地点: 科技综合楼三层

301 报告厅

Abstract:

In this talk, I will first discuss the generalized Onsager principle for deriving hydrodynamic theories (equations) for multiphase complex fluids. The generalized Onsager principle combined with variational principle would give a dissipative system that the total energy is decreasing in time. Then I will introduce the newly proposed energy quadratization approach to develop efficient, accurate and energy stable numerical approximations for dissipative systems. In the end, a few applications would be discussed to demonstrate the effectiveness of the modeling and numerical tools.

欢迎大家参加!