



复旦大学数学科学学院 数学综合报告会

报告题目：**Separation Models: Theoretical Analysis and Numerical Simulations**

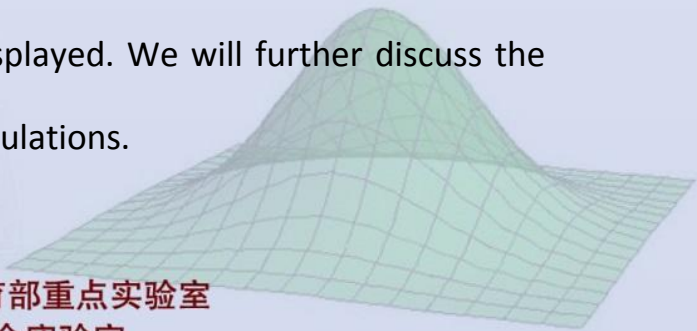
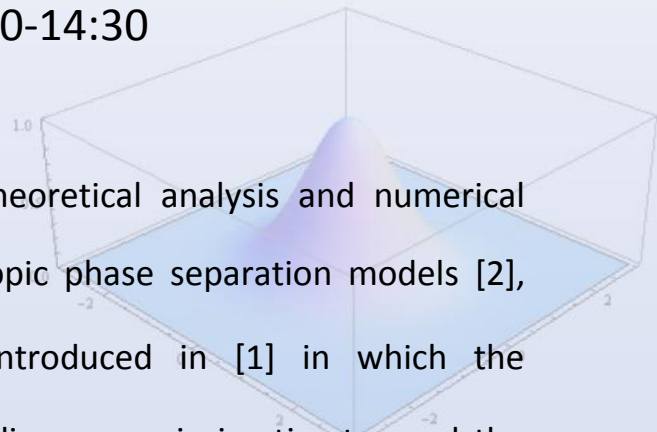
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报告时间：2018-01-15 星期一 13:30-14:30

报告地点：光华东主楼 1704

摘要：The aim of this talk is to present theoretical analysis and numerical simulations on higher-order (in space) anisotropic phase separation models [2], corresponding to a modified free energy introduced in [1] in which the temperature is omitted. In particular, we will discuss a priori estimates and the well-posedness results, also the dissipativity of semigroup, as well as the existence of the global attractor. Moreover, for the Allen-Cahn models with periodic boundary conditions, numerical simulations which illustrate the effects of the higher-order terms and the anisotropy, are displayed. We will further discuss the Cahn-Hilliard cases and show the numerical simulations.



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