



复旦大学数学科学学院 数学综合报告会

报告题目: **On a diffuse interface model for an incompressible two-phase flow with different densities**

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报告时间: 2016-03-01 星期二 13:30-14:30

报告地点: 光华东主楼 1801

摘要: We discuss a diffuse interface model for the two-phase flow of two immiscible, incompressible fluids in the case when the densities of the fluids are different. Such models were introduced to describe the flow when singularities in the interface, which separates the fluids, (droplet formation/coalescence) occur. The fluids are assumed to be macroscopically immiscible, but a partial mixing in a small interfacial region is assumed. We will present recent results on existence of weak solutions for Newtonian and non-Newtonian fluids.

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