


复旦大学数学科学学院
数学综合报告会

报告题目：**Force Convergence in a Phase-Field Model**

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报告时间：2016-06-21 星期二 9:40-10:40

报告地点：光华东主楼 1801

摘要：The van der Waals-Cahn-Hilliard functional consists of a gradient-square term and a double-well potential term of an underlying phase-field function. It is a prototype model of a diffuse interface, and is known to Gamma-converge to its sharp-interface limit. In this talk, I will give a definition of the related force, and prove its convergence to the corresponding sharp-interface limit. I will also describe the extension of the result to a phase-field model for molecular solvation. This is joint work with Shibin Dai and Jianfeng Lu.

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