

数学与系统科学研究院

计算数学所学术报告

报告人: Prof. Jack Xin

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报告题目:

Front speeds of non-coercive
Hamilton–Jacobi equation in multi-
scale media

邀请人: 周爱辉研究员

报告时间:

2009年8月5日(周三)

上午 10:00—11:00

报告地点: 科技综合楼三层 311

计算数学所报告厅

Abstract:

Front speeds in multiscale media are related to homogenization of Hamilton–Jacobi (HJ) equations. We show several models in applications where the Hamiltonian functions are non–coercive, violating a standard assumption in HJ homogenization. We illustrate new phenomena of front speedup and slowdown in these models, including the well–known G–equation in turbulent combustion, by obtaining asymptotic speed bounds.

欢迎大家参加！