

数学与系统科学研究院

计算数学所学术报告

报告人: 郑晖 博士

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报告题目:

弹性波方程和 Biot 方程的多尺度模拟

邀请人: 张硕 副研究员

报告时间: 2019 年 1 月 11 日 (周五)

上午 10:00-11:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

We propose a multiscale simulation method for the elastic wave equation and Biot equation in the heterogeneous media. This method firstly computes the local basic functions on the fine mesh by the multiscale finite element methods, then computes on the coarse mesh through these local basic functions by a method like the stagger grid method. The numerical results show that the multiscale method proposed can both catch the information on the fine scale and save the cost of computations.

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