

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**A diffuse domain method for solving
PDEs in complex geometries**

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报告时间: 2021 年 4 月 1 日 (周四)

上午 10:30-11:30

报告地点: 科技综合楼

301 教室

Abstract:

We will present a diffuse domain approach for solving PDEs in complex, involving domain. The approach extends the original complex domain into a larger and regular domain, where the original PDEs are extended and solved. The original boundary conditions are absorbed as a source term into the reformulated equations. Several numerical examples including multiphase flows, the epitaxial growth of two-dimensional material with anisotropy are shown to illustrate the approach.

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