

数学与系统科学研究院
计算数学所网络学术报告

报告人: 阴小波 教授

(华中师范大学)

报告题目:

**A Conforming DG Method for
Linear Nonlocal Models with
Integrable Kernels**

邀请人: 谢和虎 研究员

报告时间: 2020 年 12 月 4 日 (周五)

上午 10:00-11:00

报告工具: 腾讯会议 (ID: 174 558 384)

Abstract:

The numerical solution of nonlocal constrained value problems with integrable kernels is considered in this talk. These nonlocal problems arise in nonlocal mechanics and nonlocal diffusion. The structure of the true solution to the problem is analyzed first. The analysis leads naturally to a new kind of discontinuous Galerkin method that can more efficiently solve the problem numerically. The new method is shown to be asymptotically compatible. Moreover, it has optimal convergence rate for any dimensional case under mild assumptions.

欢迎大家参加！