数学与系统科学研究院

计算数学所网络学术报告

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报告题目：

A C^0 interior penalty method for the Monge-Ampere equation

邀请人： 龚伟 副研究员

报告时间：2020 年 10 月 28 日（周三）

上午 9:00-10:00

报告工具：腾讯会议（ID: 207 157 841）

会议链接：

https://meeting.tencent.com/s/BAAKpjwVrTdZ

Abstract：

We design and analyze a C^0 interior penalty method for the approximation of classical solutions of the Dirichlet boundary value problem of the Monge-Ampere equation on convex polygonal domains. The method is based on an enhanced cubic Lagrange finite element that enables the enforcement of the convexity of the approximate solutions. Numerical results that corroborate the a priori and a posteriori error estimates are presented, which indicate that this method can also capture certain weak solutions.

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