



复旦大学数学科学学院 数学综合报告会

报告题目: Uniqueness for solutions to degenerate
Monge-ampere equation

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报告摘要:

UNIQUENESS FOR SOLUTIONS TO DEGENERATE MONGE-AMPERE EQUATION

ABSTRACT. In this talk, we mainly talk about the uniqueness of convex solutions to the following Monge-Ampere equation

$$\begin{cases} \det(D^2u) = f(-u), & \text{in } \Omega \\ u = 0 & \text{on } \partial\Omega. \end{cases}$$

Under some restriction on the term f and assumption on the domain Ω , we show the uniqueness property of the convex solutions.

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