22(4)

ERROR BOUNDS FOR GLIMM DIFFERENCE APPROXIMATIONS FOR SCALAR CONSERVATION LAWS WITHOUT CONVEXITY

叶小平，林龙威

广州新港西路135号中山大学计算机科学系

摘要   In last century, D. Hoff and J. Smoller derived the error bounds for the Glimm difference approximations of the solutions to scalar conservation laws with convexity. Our work is to extend the corresponding result of them to the case without convexity.

关键词   error bounds   Glimm's scheme   non-convexity

分类号 35L60

ERROR BOUNDS FOR GLIMM DIFFERENCE APPROXIMATIONS FOR SCALAR CONSERVATION LAWS WITHOUT CONVEXITY

Xiao Ping YE, Long wei LIN

Department of Computer Science, Zhongshan University, Guangzhou, 510275,P.R.China

Abstract In last century, D. Hoff and J. Smoller derived the error bounds for the Glimm difference approximations of the solutions to scalar conservation laws with convexity. Our work is to extend the corresponding result of them to the case without convexity.

Key words   error bounds   Glimm's scheme   non-convexity

通讯作者 叶小平 mcsyxp@zsu.edu.cn