

THE ASYMPTOTIC BEHAVIOUR OF SOLUTIONS FOR A CLASS OF QUASILINEAR WAVE EQUATIONS WITH CUBIC NONLINEARITY IN TWO SPACE DIMENSIONS

尹会成

收稿日期 修回日期 网络版发布日期 接受日期

摘要 For a class of quasilinear wave equations with small initial data, first we give the lower bound of lifespan of classical solutions, then we discuss the long time asymptotic behaviour of solutions away from the blowup time.

关键词 [Quasilinear wave equation, lif](#)

分类号

THE ASYMPTOTIC BEHAVIOUR OF SOLUTIONS FOR A CLASS OF QUASILINEAR WAVE EQUATIONS WITH CUBIC NONLINEARITY IN TWO SPACE DIMENSIONS

YIN HUICHENG

Department of Mathematics, Naming University, Nabbing 210093, China

Abstract For a class of quasilinear wave equations with small initial data, first we give the lower bound of lifespan of classical solutions, then we discuss the long time asymptotic behaviour of solutions away from the blowup time.

Key words [Quasilinear wave equation](#) [lifespan](#) [nonlinear geometric optics](#)

DOI:

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ 本刊中 包含 "[Quasilinear wave equation, lif](#)"的 相关文章
- ▶ 本文作者相关文章
- [尹会成](#)