

数学与系统科学研究院

计算数学所学术报告

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报告题目:

On one-dimension semi-linear wave equations with null conditions

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下午 16:00-17:00

报告地点: 科技综合楼三层

301 报告厅

Abstract:

It is well-known that in space-dimensions at least three semilinear wave equations with null conditions admit global solutions for small initial data. It is also known that in space-dimension two such result still holds for a certain class of quasi-linear wave equations with null conditions. The proofs are based on the decay mechanism of linear waves. However, in one space-dimension, waves do not decay. Nevertheless, we will prove that small data still lead to global solutions if the null condition is satisfied.

欢迎大家参加！