

## DELTA-WAVE IN A SIMPLE 1-D $\mathbb{R}^2$ HYPERBOLIC PROBLEM

收稿日期 1996-9-27 修回日期 网络版发布日期 接受日期

摘要

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## DELTA-WAVE IN A SIMPLE 1-D $\mathbb{R}^2$ HYPERBOLIC PROBLEM

S.L. Yang

Institute of Applied Mathematics, Chinese Academy of Sciences, Beijing, China

**Abstract** A simple one-dimensional  $\mathbb{R}^2$  hyperbolic system is considered in the paper. The model contains a linear hyperbolic equation, as well as a hyperbolic equation of which the coefficients are about the solution of the linear one.

The exact solution is presented and discussed, then numerical experiments are given by TVD (or MmB) type schemes for Riemann problems. From the results, we know that the solutions do have  $\delta$ -waves for some suitable initial data.

### Key words

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