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Travelling waves in the Rosenau–KdV equation

Abstract

In the general context of singularly perturbed conservation laws, we consider the existence of monotone travelling waves in the Rosenau-KdV equation, which exhibits phenomena that cannot be seen in the well-known Burgers-KdV equation. Many problems are still open.

This is joint work with N. Bedjaoui, G. Maypaokha (UPJV) and J. A. C. Weideman (Stellenbosch).