



Seminar of the Work Group
Nonlinear Partial Differential Equations
WS 23/24

January 30th, 2024, 11:30 - 12:30
Seminar room: SR 3.061

Stability of Propagated Fronts in Scalar Balance Laws

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Abstract

Scalar balance laws are advection-reaction equations, that appear either in biology or physics when one measures the variation of a quantity over time. In this presentation, we will focus on special solutions of these equations, namely propagated waves that connect two distinct constant states. A large variety of such waves can be constructed, and we will discuss the stability of some of them. This is joint work with L. M. Rodrigues.