## Nonlinear Sciences > Pattern Formation and Solitons

# Wave patterns within the generalized convection-reaction-diffusion equation

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A set of travelling wave solutions to a hyperbolic generalization of the convection-reaction-diffusion is studied by the methods of local nonlinear alnalysis and numerical simulation. Special attention is paid to displaying appearance of the compactly supported solutions, shock fronts, soliton-like solutions and peakons

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