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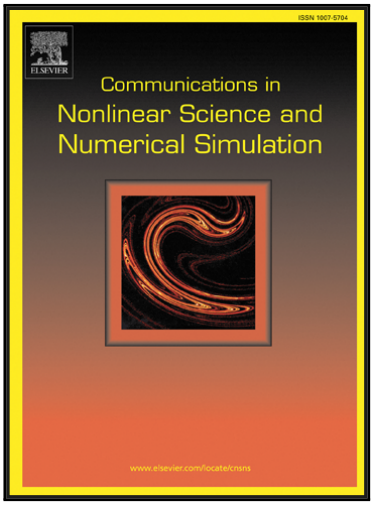

Behaviour of the extended modified Volterra lattice – reductions to generalised mKdV and NLS equations

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Highlights

- we analyse the behaviour of solutions of the extended modified Volterra lattice
- we derive PDEs which are asymptotic approximations of the lattice
- we find similarity solutions of these limiting PDEs
- we show that in certain cases the PDEs can be transformed to mKdV or NLS

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