

Publications and Preprints

Nikos I. Karachalios in [\[AMS-Mathematical Reviews, ZbMath, Scopus, Web of Science\]*](#), [Google Scholar](#)
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*(for subscribers)

Book (edited) R. Carretero-González, J. Cuevas, D. J. Frantzeskakis, N. I. Karachalios, P. G. Kevrekidis, F. Palmero. (eds.) *Localized Excitations in Nonlinear Complex Systems: Current State of the Art and Future Perspectives*. [Nonlinear Systems and Complexity](#) 7, Springer, 2014

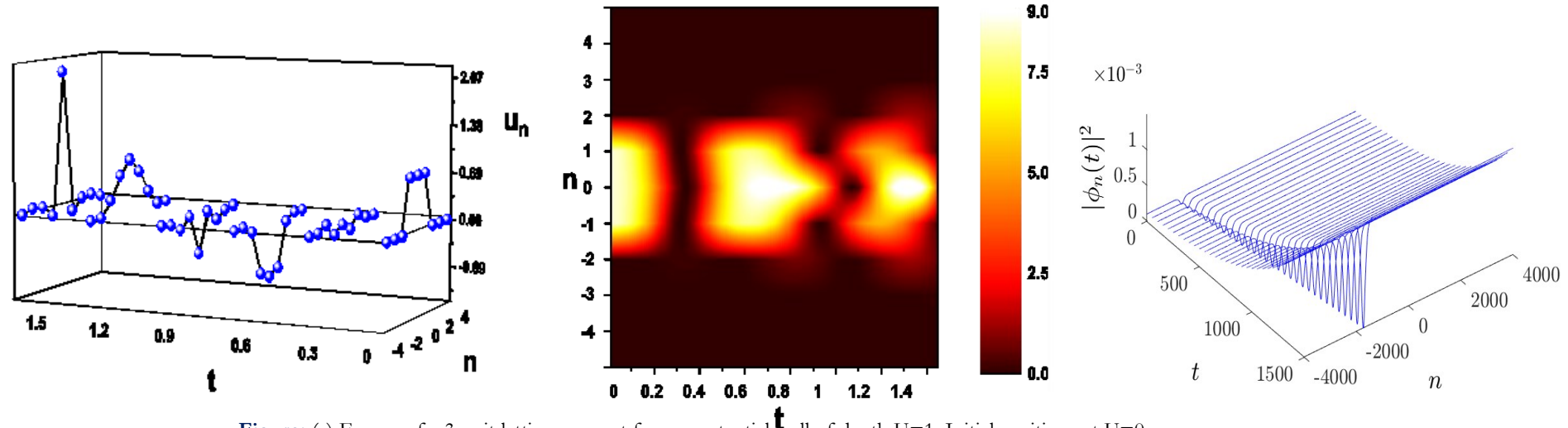
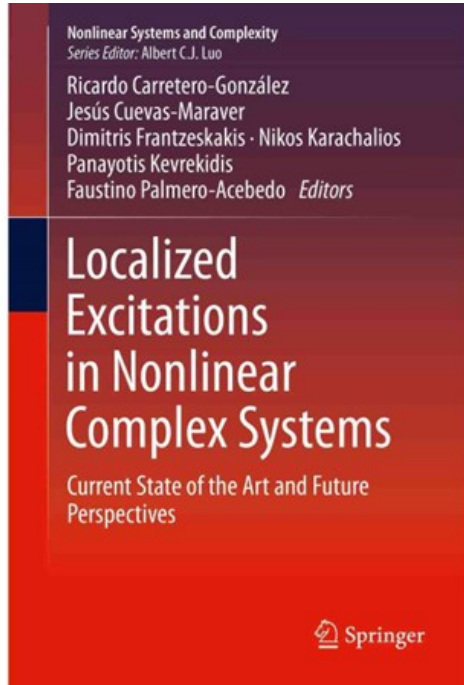


Figure: (a) Escape of a 3-unit lattice segment from a potential well of depth $U=1$. Initial positions at $U=0$

(b) Progressive energy localization on the 3-unit segment. The figures are from [28]. (c) A dissipative dark soliton. The figure is from [54].

Referred articles

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53. Dirk Hennig and Nikos I. Karachalios. Existence of exponentially and superexponentially spatially localised breather solutions for nonlinear Klein-Gordon lattices in \mathbb{Z}^d , $d \geq 1$. [Proceedings of the Edinburgh Mathematical Society](#) **65** (2022), no. 2, 480–499. [Link](#). [Preprint](#).

52. Dirk Hennig, Nikos I. Karachalios and Jesús Cuevas-Maraver. The closeness of localised structures between the Ablowitz-Ladik lattice and Discrete Nonlinear Schrödinger equations: Generalised AL and DNLS systems. [Journal of Mathematical Physics](#) **63**, no.4 (2022), 042701, 18pp. [Link](#). [Preprint](#).

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[Journal of Differential Equations](#) **316** (2022) 346–363. [Link](#). Preprint: <https://arxiv.org/abs/2102.05332>

50. Dirk Hennig and Nikos I. Karachalios. Note added to proof and corrigendum to "Dynamics of nonlocal and local discrete Ginzburg-Landau equations: global attractors and their congruence" [Nonlinear Anal. 215 (2022), Paper No. 112647]. [Nonlinear Analysis](#) **218** (2022), Paper No. 112808, 4 pp., [Link](#). [With a new result for the critical damping case of the nonlocal discrete Ginzburg-Landau equation of paper 49 and a correction for the small damping case.]

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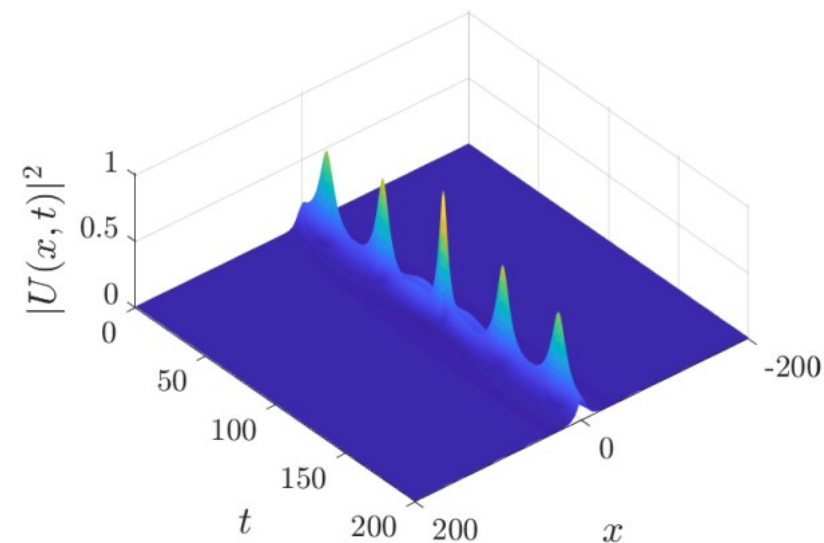
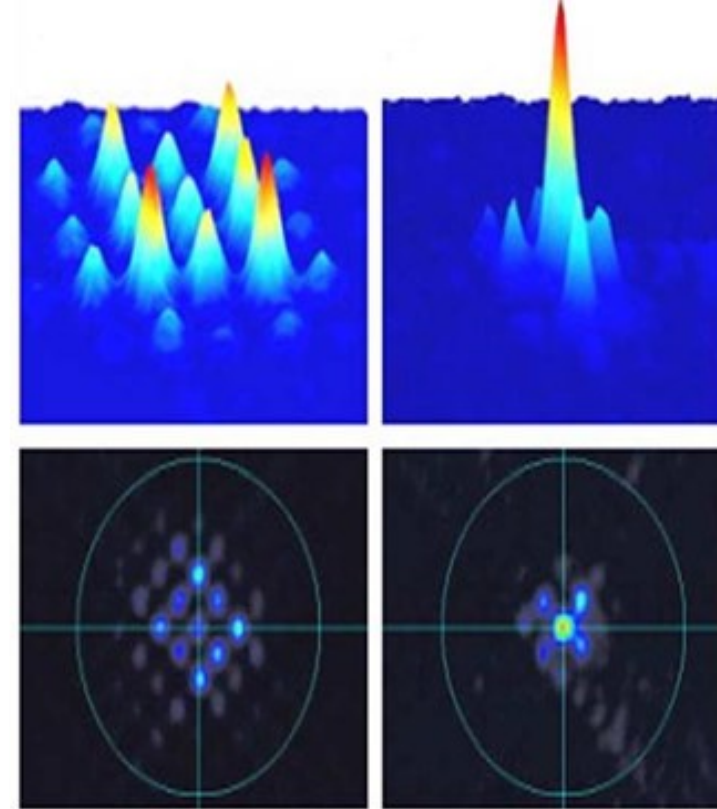
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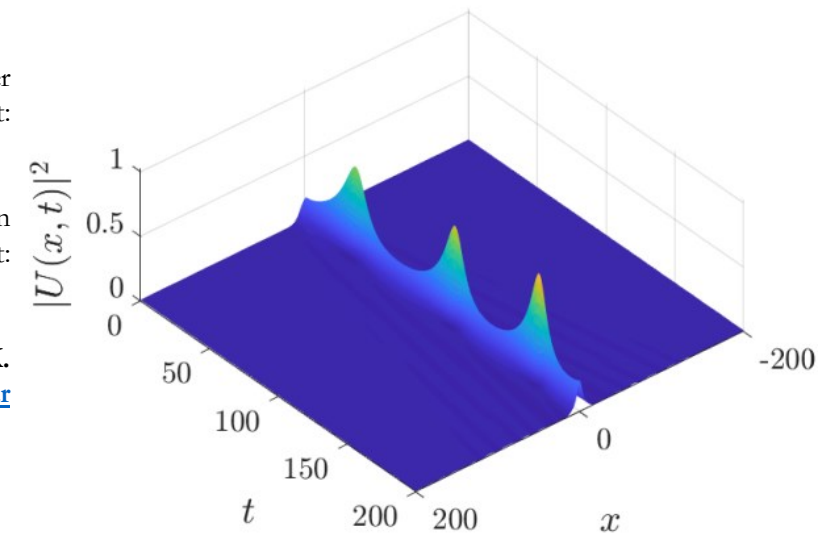
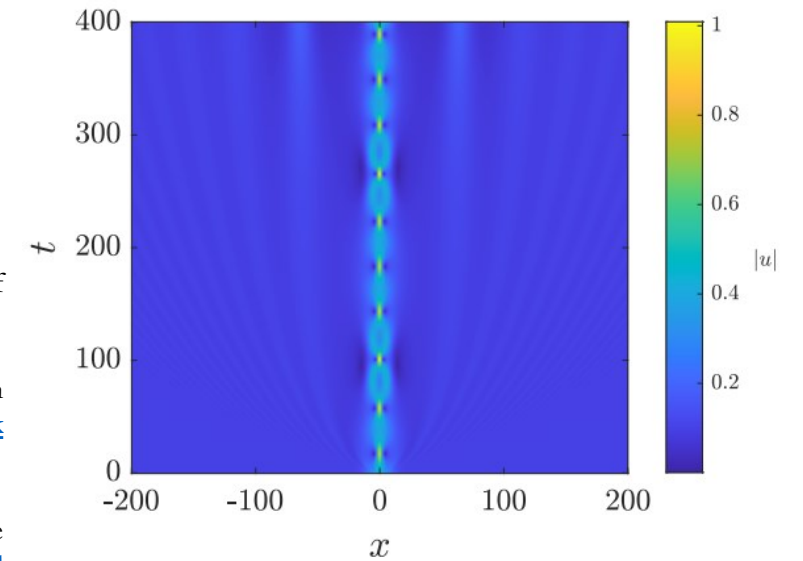
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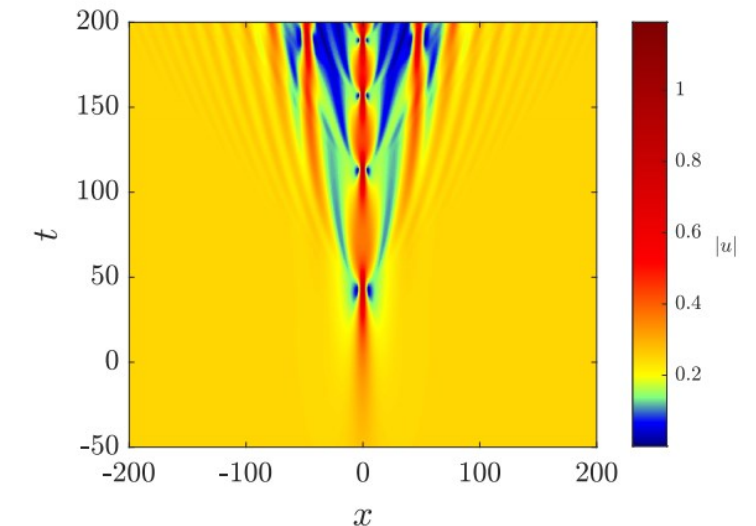
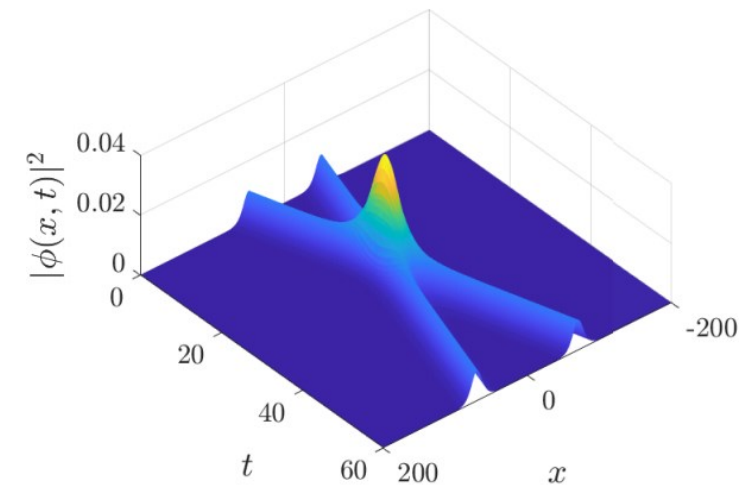
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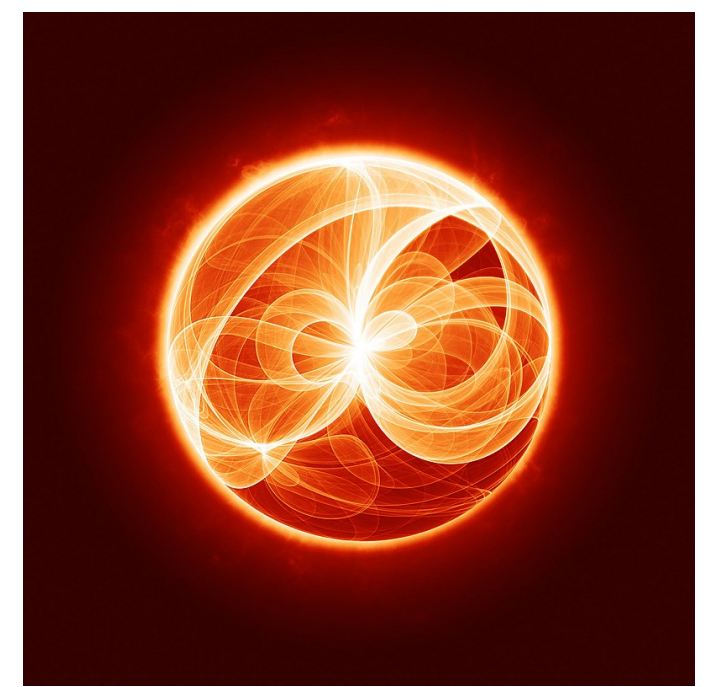
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(If you like posters, see [one](#) on Discrete Solitons, created and presented by Jesús Cuevas in "SOLIQANTUM 2006" meeting, Cuenca, Spain, 27-30 September 2006.)

