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Solitonic excitations and interactions in the three-spine α -helical protein with inhomogeneity. (English) [Zbl 1232.35159](#)
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MSC:

35Q55 NLS equations (nonlinear Schrödinger equations)
35Q51 Soliton equations
37J35 Completely integrable finite-dimensional Hamiltonian systems, integration methods, integrability tests
68W30 Symbolic computation and algebraic computation
92B05 General biology and biomathematics

Keywords:

α -helical protein; three-coupled perturbed nonlinear Schrödinger equations; soliton; symbolic computation

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