

Special Issue

Nonlinear Waves and Patterns in Optics, Quantum Matter, and Elsewhere—Devoted to Prof. Boris Malomed’s 70th Birthday and Prof. Alexander Nepomnyashchy’s 75th Birthday

Message from the Guest Editors

This Festschrift is dedicated to celebrating the 70th birthday of Prof. Boris Malomed. It focuses on waves and patterns supported by the interplay of linear and nonlinear effects—a ubiquitous subject in physics and applied mathematics—and aims to compile original and review articles representing various facets of this vast research area. Topics include optics and photonics in conservative and dissipative media, Bose-Einstein condensates and other forms of quantum matter, dynamical lattices, hydrodynamics, plasmas, and magnetism. Also included are related topics from applied mathematics dealing with the analytical and numerical methods necessary for the study of integrable and non-integrable nonlinear systems. Subjects presented may include bright and dark solitons, kinks, shock and rogue waves, vortices and complex topological modes, bound states (“soliton molecules”), periodic and disordered waves, and phase transitions in continuous and discrete settings. The collection features original works and newly presented summaries of results recently reported by authors. Both brief and full-length contributions are acceptable.

Guest Editors

Prof. Dr. Dimitrios J. Frantzeskakis

Prof. Dr. Michael Tribelsky

Prof. Dr. Yudong Cui

Prof. Dr. Qin Zhou

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Physics plays a crucial role in our understanding of the world and is of huge significance for the development of other sciences. This ensures that physics is always attracting heightened attention and is at the center of human interest. *Physics* is devoted to all aspects of physics and looks into news and progress of modern physics, seeking new horizons and future discoveries. The journal aims to provide an advanced forum for discussion of contemporary problems in physics and its development.

Editor-in-Chief

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