

Peer Review

Review of: "Multidimensional Soliton Systems: an Update"

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This manuscript provides a concise update on the recently published review of multidimensional (2D and 3D) solitons in nonlinear optics and atomic Bose–Einstein condensates (BECs). It focuses notably on the newest experimental findings, including the creation of multiple quantum droplets in prolate BECs and the observation of expanding toroidal light structures in linear optics, as well as advancements in the theoretical examination of 2D solitons in the optical system with quadratic nonlinearity and fractional diffraction, and stable 3D vortex solitons in various BEC schemes with long-range interactions. This paper holds significant value for researchers in the fields of optics, quantum matter, and condensed matter. The content of the update is rich, and the paper is well organized. Therefore, I suggest that this manuscript be accepted formally.

Declarations

Potential competing interests: No potential competing interests to declare.