

Peer Review

Review of: "Multidimensional Soliton Systems: an Update"

Muhammad Zafarullah Baber¹

1. Shanghai University, China

Review Report

Title: Multidimensional Soliton Systems: an Update

A briefly formulated update of the recently published review [1] on the topic of multidimensional solitons (chiefly, in nonlinear optics and atomic Bose-Einstein condensates (BECs)) is presented.

The paper should undergo minor revision before it can be considered for publication.

Comment 1. Check the whole manuscript for grammatical errors.

Comment 2. More literature about soliton theory needs to be addressed.

Comment 3. The introduction should also include recent analytical and computational methods (2023–2025) used for solving nonlinear wave equations to contextualize the choice of the Sardar sub-equation method. Mention and briefly discuss methods such as: 10.1007/s11071-025-11585-3, s41598-025-97781-y and etc.

Comment 4. The literature review about the model and method is not enough.

Comment 5. The novelty and originality of the work are not clear; they need to be defined at the end of the introduction with motivation as well.

Comment 6. Several figures lack axis titles, parameter values, and scale labels. Add these to improve clarity.

Declarations

Potential competing interests: No potential competing interests to declare.