

Peer Review

Review of: "Multidimensional Soliton Systems: an Update"

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This paper presents the latest developments in multidimensional soliton systems within the realms of nonlinear optics and atomic Bose-Einstein condensates. It reviews the most recent experimental and theoretical findings in these areas.

Notably, the discussion includes new theoretical concepts such as 2D solitons featuring quadratic nonlinearity and fractional derivatives. Additionally, there are significant new results regarding 2D and 3D matter-wave solutions of the Gross-Pitaevskii equations for various cases of atomic Bose-Einstein condensates.

The author has demonstrated a thorough understanding of the current advancements in this actively developing field, in which he is also contributing. I am confident that this work will be valuable to researchers in the field, which is why I strongly recommend its publication.

Declarations

Potential competing interests: No potential competing interests to declare.