

Peer Review

Review of: "Multidimensional Soliton Systems: an Update"

Sudhir Singh¹

1. GITAM Deemed to be University, Bengaluru, India, GITAM Deemed to be University, Visakhapatnam, India

This is a commentary on the authors' recent review work on "*Multidimensional Soliton Systems*." The authors identify two particularly promising research directions. The first concerns multidimensional solitons in optical media with fractional diffraction, modeled using the Riesz derivative, a direction in which the author has produced several outstanding and influential contributions. The second involves the application of physics-informed neural networks (PINNs) to two-dimensional necklace-shaped soliton chains. Clearly, these two themes emerge as central directions for the development of multidimensional soliton systems. The commentary provides a clear and timely update on recent progress in this area.

Declarations

Potential competing interests: No potential competing interests to declare.