Periodic peakons to a generalized $\mu\textsc{-}\mbox{Camassa-Holm-Novikov}$ equation

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Abstract

In this paper, we study the existence of periodic peaked solitons to a generalized μ -Camassa-Holm-Novikov equation with nonlocal cubic and quadratic nonlinearities. The equation is a μ -version of a linear combination of the Camassa-Holm, modified Camassa-Holm, and Novikov equations. It is shown that the proposed equation admits a sigle peakons. It is natural extension of the previous results obtained in (missing citation); (missing citation); (missing citation) for the μ -Camassa-Holm, modified μ -Camassa-Holm, and μ -Novikov equations, respectively.

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References

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