Erratum

Periodic Nonlinear Waves on a Half-Line

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Harvey Segur and David Campbell have informed me that the idea of considering breather-like solutions of nonlinear Klein-Gordon equations as homoclinic orbits for a dynamical system in the x -variable was already introduced by Eleonskii, Kulagin, Novozhilova, and Silin. (See [2] and still earlier references cited therein.) I apologize to those authors for neglecting to refer to their work.

Chris Jones and Howard Levine have pointed out that the stable manifold theorem of Henry requires a hypothesis (sectoriality of the generator of the linearized flow) which is not satisfied for the nonlinear Klein-Gordon equation to which I applied it. A stable manifold theorem which suffices for our application may be found in [1] or the preprints [3] and [4].

References

1. Ball, J.M.: Saddle point analysis for an ordinary differential equation in a Banach space, and an application to dynamic buckling of a beam, Symposium on Nonlinear Elasticity, R.W. Dickey (ed.), New York: Academic Press, 1973, pp. 93–160
2. Eleonskii, V.M., Kulagin, N.E., Novozhilova, N.S., Silin, V.P.: Asymptotic expansions and qualitative analysis of finite-dimensional models in nonlinear field theory. *Teor. Mat. Fiz.* **60**, no. 3, 395–403 (1984)
3. Bates, P.W., Jones, C.K.R.T.: Invariant manifolds for semilinear partial differential equations. Preprint, 1985
4. Marsden, J., Scheurle, J.: The construction and smoothness of invariant manifolds by the deformation method. Preprint, 1986

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