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Alex A Himonas* (himonas.1@nd.edu), Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556-5683. *On the well-posedness of an integrable evolution equation.*

We shall present a method for constructing high frequency periodic solutions to an integrable evolution equation and use them to prove that the related solution map is not uniformly continuous on bounded sets in Sobolev spaces. (This is work in collaboration with Gerard Misiolek.) (Received September 01, 2005)