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Stability for KdV solitons in weighted Sobolev spaces.

This talk will focus on the asymptotic stability of KdV solitons in the energy space and in Sobolev spaces of lower regularity. We will discuss an attempt to adapt the approach of Pego and Weinstein to prove asymptotic stability of solitons in fractional Sobolev spaces. This is joint work with Sarah Raynor. (Received September 09, 2019)