



SPECTRAL THEORY AND THE CAMASSA-HOLM EQUATION

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In much the same way as the one-dimensional Schrödinger equation is associated with the KdV equation there is a spectral problem associated with the Camassa-Holm equation. Unfortunately the inverse spectral and scattering theory for this spectral problem is not nearly as well-developed as for the the Schrödinger equation. I will discuss some results that are nevertheless available.

This is joint work with B.M. Brown and Rudi Weikard.