1067-35-1778   **Alex A. Himonas*** (`himonas.1@nd.edu`), Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556. *On the well-posedness of Camassa-Holm type equations.*

We shall discuss the well-posedness in Sobolev spaces for a class of weakly dispersive nonlinear evolution equations including the Camassa-Holm and the Degasperis Procesi equations. This talk is based on work in collaboration with Carlos Kenig, Gerard Misiolek, and Curtis Holliman. (Received September 21, 2010)