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2:45 PM
258 Hurley Hall

Title: Modeling of water waves: KdV, BBM and Whitham

Abstract:

We give a short introduction to the theory of linear water waves, followed by a review of some model properties of the KdV, BBM and Whitham equations. Periodic traveling-wave solutions of the Whitham equation are discussed from a theoretical (existence) and a numerical point of view. Time permitting, we present some reflections on the properties of the BBM and KdV equations from the viewpoint of initial-value problems.