

1020-76-146

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Numerical investigation of three-dimensional water waves. Preliminary report.

In this talk, the three-dimensional water waves will be studied by numerically simulating the solution of a Boussinesq system. An efficient and accurate numerical scheme is used on the Boussinesq system with physically relevant boundary conditions. Several physical relevant simulations will be performed and the result will be analyzed. (Received August 25, 2006)