

# *Breaking water waves and geometric integration*

## References

- [1] T.B. BENJAMIN & P.J. OLVER. *Hamiltonian structure, symmetries and conservation laws for water waves*, J. Fluid Mech. **125**, 137–185 (1982).
- [2] T.B. BENJAMIN & T.J. BRIDGES. *Reappraisal of the Kelvin-Helmholtz problem. Part 1. Hamiltonian structure*, J. Fluid Mech. **333**, 301–325 (1997).
- [3] F. DIAS & T.J. BRIDGES. *The numerical computation of freely propagating time-dependent irrotational water waves*, Fluid Dyn. Research (to appear, 2005).
- [4] A.I. DYACHENKO, E.A. KUZNETSOV, M.D. SPECTOR & V.E. ZAKHAROV. *Analytical description of the free surface dynamics of an ideal fluid (canonical formalism and conformal mapping)*, Phys. Lett. A **221**, 73–79 (1996).
- [5] D.R. FUHRMAN, P.A. MADSEN & H.B. BINGHAM. *A numerical study of crescent waves*, J. Fluid Mech. **513**, 309–341 (2004).
- [6] T.Y. HOU, J.S. LOWENGRUB & M.J. SHELLEY. *Removing the stiffness from interfacial flows with surface tension*, J. Comp. Phys. **114** 312–338 (1994).
- [7] A.K. WHITNEY. *The numerical solution of unsteady free surface flows by conformal mapping*, In Proc. Second Inter. Conf. on Numer. Fluid Dynamics (ed. M. HOLT), Springer-Verlag, 458–462 (1971).
- [8] V.E. ZAKHAROV. *Stability of periodic waves of finite amplitude on the surface of a deep fluid*, Zh. Prikl. Mekh. Tekh. Fiz. **9**, 86–94 (1968) (Transl. in J. Appl. Mech. Tech. Phys. **9**, 190–194, 1968).