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Motion picture index

Various films about solitons have been made. Some 16 mm ones, which may be loaned or bought, are listed below. It is very instructive to see, in particular, computer-made animations of solitons and their interactions.

- Eilbeck, J. C. (F1973). *Solitons and Bions in Non-linear Optics*. Sound, colour, 6 min.
 Eilbeck, J. C. (F1975). *Numerical Solutions of the Regularized Long-Wave Equation*. Silent, colour, 3 min.
 Eilbeck, J. C. (F1977a). *Boomerons*. Silent, colour, 6 min.
 Eilbeck, J. C. (F1977b). *Zoomerons*. Silent, colour, 6 min.
 Eilbeck, J. C. (F1978). *Two-dimensional Solitons*. Silent, colour, 4 min.
 Eilbeck, J. C. (F1981). *Non-linear Evolution Equations*. Sound, colour, 12 min. [17]
 Eilbeck, J. C. (F1982). *Kink Interactions in the ϕ^4 Model*. Silent, colour, 6 min.
 Eilbeck, J. C. & Lomdahl, P. S. (F1982). *Sine-Gordon Solitons*. Sound, colour, 14 min.

The above films are also available on video. Enquiries about hiring or buying any of these should be made to Professor J. C. Eilbeck, Department of Mathematics, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, U.K.

- Zabusky, N. J., Kruskal, M. D. & Deem, G. S. (F1965). *Formation, Propagation and Interaction of Solitons (Numerical Solutions of Differential Equations Describing Wave Motions in Nonlinear Dispersive Media)*. Silent, b/w, 35 min. [17]

The above film may be loaned from Bell Telephone Laboratories, Inc. Film Library, Murray Hill, New Jersey 07971, U.S.A.

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