

# *Ergodic theory and dynamical systems*

VOLUME 3 PART 2 JUNE 1983

## EXECUTIVE EDITORS

M. R. Herman, Centre de Mathématiques de l'École Polytechnique,  
91128 Palaiseau Cedex, France.

A. B. Katok, Department of Mathematics, University of Maryland,  
College Park, Maryland 20742, USA.

K. Schmidt, Mathematics Institute, University of Warwick,  
Coventry CV4 7AL, England.

P. Walters, Mathematics Institute, University of Warwick,  
Coventry CV4 7AL, England.

CAMBRIDGE UNIVERSITY PRESS

# *Ergodic theory and dynamical systems*

## EDITORS

Michel Herman   Anatole Katok   Klaus Schmidt   Peter Walters

## EDITORIAL BOARD

- |  |   |
|--|---|
| C. C. Conley (University of Wisconsin)   | M. Misiurewicz (Warsaw University)                                |
| A. Connes (IHES)                         | S. E. Newhouse (University of North Carolina)                     |
| R. L. Dobrushin (USSR Acad. of Sciences) | D. S. Ornstein (Stanford University)                              |
| D. B. A. Epstein (University of Warwick) | J. Palis (IMPA)   |
| J. Feldman (University of California)    | W. Parry (University of Warwick)                                  |
| J. Franks (Northwestern University)      | D. Ruelle (IHES)  |
| H. Furstenberg (Hebrew University)       | Ya. G. Sinai (L. D. Landau Inst. for Theoretical Physics, Moscow) |
| K. Jacobs (University of Erlangen)       | S. Smale (University of California)                               |
| H. Kesten (Cornell University)           | J. P. Thouvenot (University of Paris 6)                           |
| U. Krengel (University of Gottingen)     | W. A. Veech (Rice University)                                     |
| W. Krieger (University of Heidelberg)    | B. Weiss (Hebrew University)                                      |
| G. A. Margulis (USSR Acad. of Sciences)  |   |
| J. N. Mather (Princeton University)      |   |
| R. Zimmer (University of Chicago)        |   |

*Ergodic Theory and Dynamical Systems* provides a focus for this important and rapidly developing area of mathematics and an opportunity to bring together many major contributions in the field which are, at the moment, scattered over a large number of non-specialist periodicals.

The ideas of dynamics have proved of great importance not only in areas of mathematics like harmonic analysis, geometry, topology and number theory, but also in physics and other allied subjects. The papers accepted for publication will reflect this diversity.

Expository articles and conference proceedings will be included from time to time and reviews of relevant books will also be published.

**Copying:** This journal is registered with the Copyright Clearance Center, 21 Congress St, Salem, Mass. 01970. Organizations in the USA who are also registered with CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC of the per-copy fee of \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0143-3857/82/0000-0001 \$05.00.

For all other use, permission should be sought from the Cambridge or New York offices of Cambridge University Press.

**Subscriptions:** *Ergodic Theory and Dynamical Systems* (ISSN 0143-3857) is published quarterly in March, June, September and December. The subscription price (which includes postage) of volume 3, 1983 is £55.00 (US \$150.00 in USA and Canada). Single parts cost £15.00 net (US \$44.00 in USA and Canada) plus postage. Four parts form a volume. Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publishers: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU or, in the USA and Canada, Cambridge University Press, 32 East 57th Street, New York, NY 10022. Second class postage paid at New York, NY and additional mailing offices. Postmaster: send address changes in USA and Canada to *Ergodic Theory and Dynamical Systems*, Cambridge University Press, 32 East 57th Street, New York, NY 10022.