

VOLUME 30 PART 2 APRIL 2010

Ergodic theory and dynamical systems

MANAGING EDITORS

M. Pollicott and S. van Strien, Mathematics Institute, University of Warwick,
Coventry CV4 7AL, UK

EXECUTIVE EDITORS

M. Boyle, University of Maryland
F. Ledrappier, Université Paris VI
M. Viana, IMPA, Rio de Janeiro

SURVEY EDITOR

A. B. Katok, The Pennsylvania State University, University Park

CAMBRIDGE
UNIVERSITY PRESS

Ergodic theory and dynamical systems

MANAGING EDITORS

M. Pollicott S. van Strien
etds@maths.warwick.ac.uk

EXECUTIVE EDITORS

M. Viana
viana@impa.br

F. Ledrappier
ledrappier.1@nd.edu

M. Boyle
mmb@math.umd.edu

SURVEY EDITOR

A. B. Katok
katok_a@math.psu.edu

EDITORIAL BOARD

A. Avila (C.N.R.S, Jussieu)
D. Dolgopyat (University of Maryland)
J. Franks (Northwestern University)
H. Furstenberg (Hebrew University of Jerusalem)
V. Kaloshin (University of Maryland)
D. Kleinbock (Brandeis University)
E. Lindenstrauss (Princeton University)
C. Liverani (University of Rome II)
S. Mozes (Hebrew University of Jerusalem)

Ya. B. Pesin (Pennsylvania State University)
D. J. Rudolph (Colorado State University)
D. Ruelle (IHES, Bures-sur-Yvette)
N. Simányi (University of Alabama, Birmingham)
M. Tsujii (Kyushu University)
A. M. Vershik (Steklov Mathematical Institute,
St. Petersburg)
A. Wilkinson (Northwestern University)
J.-C. Yoccoz (Collège de France)

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 contributors in the field which are, at the moment, scattered over a large number of non-specialist periodicals.

Dynamical methods have proved to be a powerful unifying force in mathematics in recent decades, and they are now beginning to be felt in allied subjects such as physics and biology. *Ergodic Theory and Dynamical Systems* acts as a forum for central problems of differential geometry, number theory, operator algebras, topological, differential and symbolic dynamics, and celestial and statistical mechanics.

Expository survey 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, 222 Rosewood Drive, Danvers, MA 01923, USA (www.copyright.com). 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. This consent does not extend to multiple copying for promotional or commercial purposes.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge or the American branch of Cambridge University Press.

Internet Access: This journal is included in the Cambridge Journals Online service which can be found at <http://journals.cambridge.org>. For further information on other Press titles access <http://www.cambridge.org>.

Subscriptions: *Ergodic Theory and Dynamical Systems* (ISSN 0143-3857) is published six times a year in February, April, June, August, October and December by Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK/Cambridge

University Press, 32 Avenue of the Americas, New York, N.Y. 10013-2473. The subscription price (excluding VAT) of volume 30, 2010 which includes print and electronic access, is £755.00 (US\$1400.00 in USA, Canada and Mexico). The electronic-only price available to institutional subscribers is £680.00 (US\$1265.00 in USA, Canada and Mexico). Single parts cost £135.00 net (US\$250.00 in USA, Canada and Mexico). Prices include delivery by air where appropriate. Members of the London Mathematical Society and American Mathematical Society may subscribe for £205.00 (US\$360.00). Six parts form a volume. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Orders, which must be accompanied by payment, may be sent to a book-seller, subscription agent or direct to the publishers: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU or, in the USA, Canada and Mexico, Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Periodicals postage is paid at New York, NY and additional mailing offices. POSTMASTER: send address changes in USA, Canada and Mexico to *Ergodic Theory and Dynamical Systems*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Printed in the United Kingdom at the University Press, Cambridge
© Cambridge University Press 2010
PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, United Kingdom
CAMBRIDGE UNIVERSITY PRESS
The Edinburgh Building, Cambridge CB2 8RU, United Kingdom
32 Avenue of the Americas, New York, NY 10013-2473, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa