

## INSTRUCTIONS FOR CONTRIBUTORS

### *Editorial Policy*

The journal welcomes high quality contributions on topics closely related to dynamical systems and ergodic theory. Submissions in the field of differential geometry, number theory, operator algebra, differential, topological, symbolic, measurable dynamics and celestial and statistical mechanics are especially welcome. Expository survey papers and reviews of relevant books will be published from time to time.

### *Submission of manuscripts*

Manuscripts should be submitted via the website: <http://mc.manuscriptcentral.com/etds>.

Submission of a paper is taken to imply that it has not been previously published and that it is not being considered for publication elsewhere. Authors of articles published in the journal assign copyright to Cambridge University Press (with certain rights reserved) and you will receive a copyright assignment form for signature on acceptance of your paper.

The journal strongly recommends submission of accepted papers in L<sup>A</sup>T<sub>E</sub>X using the ETDS L<sup>A</sup>T<sub>E</sub>X class file. Papers that use this class file will be processed more efficiently. A L<sup>A</sup>T<sub>E</sub>X2e file `etds.cls` is available via anonymous ftp from the Cambridge University Press site at <ftp.cup.cam.ac.uk> in the directory `/pub/texarchive/journals/latex/etds-cls/`. In case of difficulties with these files, please contact [etds@sunrise-setting.co.uk](mailto:etds@sunrise-setting.co.uk) or the Journal editorial office at [etds@maths.warwick.ac.uk](mailto:etds@maths.warwick.ac.uk). Alternatively, authors may use 'article' style.

On acceptance of a paper, authors should upload the L<sup>A</sup>T<sub>E</sub>X source code including the figures (line figures only) and all author-defined macro and style files, together with a pdf produced using the same file, via the submission site <http://mc.manuscriptcentral.com/etds>.

The publisher reserves the right to typeset any article by conventional means if the author's T<sub>E</sub>X code presents problems in production.

### *Manuscript*

Papers should be typed with generous margins. The pages must be numbered.

The first page should give the title, the author's name and institution, and a short abstract intelligible to mathematicians.

The title, while brief, must be informative (e.g. 'A new proof of the ergodic theorem', whereas 'Some applications of a theorem of Birkhoff' would be useless).

### *Notation*

Avoid abbreviations such as Thm, Prop., Eq., iff. In the text do not use symbols  $\forall$ ,  $\exists$ ,  $\Rightarrow$  and  $\Leftrightarrow$ . Fractions are generally best expressed by a solidus. Complicated exponents like  $\exp\{z^2 \sin \theta / (1 + y^2)\}$  should be shown in this and no other way.

It helps if displayed equations or statements which will be quoted later are numbered in order on the right of their line. They can then be referred to by, for example, 'from (7)'.

If an author wishes to mark the end of the proof of a theorem, the sign  $\square$  may be used.

Footnotes should be avoided.

### *Figures*

Graphics should be prepared to professional standards, preferably using Postscript or L<sup>A</sup>T<sub>E</sub>X drawing facilities. Each text figure must be numbered as Figure 1, Figure 2, ... and its intended position clearly indicated in the manuscript. Figures should be used sparingly and only when they greatly clarify the exposition. The preferred resolutions for submission of electronic artwork are: halftone images 300 dpi; line tone 600 dpi; bitmap 1200 dpi.

### *Tables*

Tables should be numbered (above the table) as Table 1, Table 2, .... Indicate the position of each in the text as for figures.

### *References*

References should be collected at the end of the paper numbered in alphabetical order of the author's names or by order of citation. Include in the list of references only those works that are cited. For the style of references please consult recent issues of the journal. A reference to a book should give the title, in italics, and then in roman type the publisher's name and the place and year of publication:

[4] N. Dunford and J. T. Schwartz. *Linear Operators*. Part I. Wiley, New York, 1958.

A reference to a paper should give in italics the title of the periodical, the number of the volume and year, and the beginning and end pages of the paper. Journal titles should be abbreviated as in *Mathematical Reviews*:

[6] J. E. Littlewood. The 'pits effect' for functions in the unit circle. *J. Analyse Math.* **23** (1970), 236–268.

### *Proofs*

Authors receive one pdf proof for correction. Typographical and minor corrections only are permitted at this stage. For papers with more than one author the proofs are sent to the first named author unless the editor receives other instructions. It is important that proofs are corrected and returned promptly.

### *Offprints*

No paper offprints are provided, but the corresponding author will be sent the pdf of the published article. Print offprints may be purchased at extra cost at proof stage.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see [www.fsc.org](http://www.fsc.org) for information.

# *Ergodic theory and dynamical systems*

VOLUME 35 PART 1 FEBRUARY 2015

## CONTENTS

<i>Addas-Zanata, S.</i> Area-preserving diffeomorphisms of the torus whose rotation sets have non-empty interior	1
<i>Alsedà, Ll., Juher, D. and Mañosas, F.</i> Topological and algebraic reducibility for patterns on trees	34
<i>Calegari, D. and Maher, J.</i> Statistics and compression of scl	64
<i>Combot, T. and Waters, T.</i> Integrability conditions of geodesic flow on homogeneous Monge manifolds	111
<i>Janvresse, É., Prikhod'ko, A. A., de la Rue, T. and Ryzhikov, V. V.</i> Weak limits of powers of Chacon's automorphism	128
<i>Kanae, T. Widmer, S. and Zamboni, L. Q.</i> Abelian maximal pattern complexity of words	142
<i>Kaschner, S. R. and Roeder, R. K. W.</i> Superstable manifolds of invariant circles and codimension-one Böttcher functions	152
<i>Leibman, A.</i> Nilsequences, null-sequences, and multiple correlation sequences	176
<i>Mann, K.</i> Homomorphisms between diffeomorphism groups	192
<i>Mramor, B. and Rink, B.</i> A dichotomy theorem for minimizers of monotone recurrence relations	215
<i>Petkov, V. and Stoyanov, L.</i> Sharp large deviations for some hyperbolic systems	249
<i>Rousseau, C.</i> Analytic moduli for unfoldings of germs of generic analytic diffeomorphisms with a codimension $k$ parabolic point	274
<i>Tucker-Drob, R. D.</i> Weak equivalence and non-classifiability of measure preserving actions	293

Cambridge Journals Online  
For further information about this journal  
please go to the journal website at:  
[journals.cambridge.org/ets](http://journals.cambridge.org/ets)



MIX  
Paper from  
responsible sources  
FSC® C007785

**CAMBRIDGE**  
UNIVERSITY PRESS