

Papers to appear in forthcoming issues

- | | |
|--|---|
| Aliste-Prieto, J. and Coronel, D. | Tower systems for linearly repetitive Delone sets |
| Amroun, A. | Equidistribution results for geodesic flows |
| Antonevich, A. B., Bakhtin, V. I. and Lebedev, A. V. | T -entropy and variational principle for the spectral radius of transfer and weighted shift operators |
| Araújo, V. and Bufetov, A. I. | A large deviations bound for the Teichmüller flow on the moduli space of abelian differentials |
| Barge, M. and Martensen, B. F. | Classification of expansive attractors on surfaces |
| Barnsley, M. F. and Vince, A. | The chaos game on a general iterated function system |
| Barral, J. and Bhouri, I. | Multifractal analysis for projections of Gibbs and related measures |
| Barreira, L. and Gelfert, K. | Dimension estimates in smooth dynamics: a survey of recent results |
| Bartoszek, W. and Erkurşun, N. | On quasi-compact Markov nets |
| Bekka, B. and Heu, J.-R. | Random products of automorphisms of Heisenberg nilmanifolds and Weil's representation |
| Bonatti, C. | Towards a global view of dynamical systems, for the C^1 -topology |
| Bounemoura, A. | Generic super-exponential stability of invariant tori in Hamiltonian systems |
| Bousch, T. | La distance de réarrangement, duale de la fonctionnelle de Bowen |
| Bowen, L. | Entropy for expansive algebraic actions of residually finite groups |
| Broderick, R., Fishman, L. and Kleinbock, D. | Schmidt's game, fractals, and orbits of toral endomorphisms |
| Brown, A. W. | Constraints on dynamics preserving certain hyperbolic sets |
| Brownlowe, N., an Huef, A., Laca, M. and Raeburn, I. | Boundary quotients of the Toeplitz algebra of the affine semigroup over the natural numbers |
| Bundfuss, S., Krüger, T. and Troubetzkoy, S. | Topological and symbolic dynamics for hyperbolic systems with holes |
| Carvalho, A. N. and Cholewa, J. W. | Exponential global attractors for semigroups in metric spaces with applications to differential equations |
| Ceccherini-Silberstein, T. and Coornaert, M. | A Garden of Eden theorem for linear subshifts |
| Chavaudret, C. | Reducibility of quasiperiodic cocycles in linear Lie groups |
| Chazottes, J.-R., Gambaudo, J.-M. and Ugalde E. | Zero-temperature limit of one-dimensional Gibbs states via renormalization: the case of locally constant potentials |
| Chu, Q. | Multiple recurrence for two commuting transformations |

- Climenhaga, V. Bowen's equation in the non-uniform setting
- Comman, H. and Rivera-Letelier, J. Large deviation principles for non-uniformly hyperbolic rational maps
- Cornulier, Y. and Tessera, R. A characterization of relative Kazhdan property T for semidirect products with abelian groups
- Coronel, A. D. Cohomological equation on dynamical systems arising from Delone sets
- Dal'Bo, F., Peigné, M., Picaud, J.-C. and Sambusetti, A. On the growth of quotients of Kleinian groups
- Danilenko, A. I. New spectral multiplicities for mixing transformations
- Danilenko, A. I. and Ryzhikov, V. V. Mixing constructions with infinite invariant measure and spectral multiplicities
- de la Llave, R. and Windsor, A. Avoiding early closing: 'Livšic theorems for non-commutative groups including diffeomorphism groups and results on the existence of conformal structures for Anosov systems' – CORRIGENDUM
- DeMarco, L. and Hruska, S. L. Axiom A polynomial skew products of \mathbb{C}^2 and their postcritical sets – ERRATUM
- de Melo, W., Salomão, P. A. S. and Vargas, E. A full family of multimodal maps on the circle
- Downarowicz, T. and Lacroix, Y. The law of series
- Eynard, H. A connectedness result for commuting diffeomorphisms of the interval
- Falconer, K. and Samuel, T. Dixmier traces and coarse multifractal analysis
- Fan, S., Liu, Q.-H. and Wen Z.-Y. Gibbs-like measure for spectrum of a class of quasi-crystals
- Gaidashev, D. and Koch, H. Period doubling in area-preserving maps: an associated one-dimensional problem
- Gupta, C., Holland, M. and Nicol, M. Extreme value theory and return time statistics for dispersing billiard maps and flows, Lozi maps and Lorenz-like maps
- Gutman, Y. Embedding \mathbb{Z}^k -actions in cubical shifts and \mathbb{Z}^k -symbolic extensions
- Hazard, P. E. Hénon-like maps with arbitrary stationary combinatorics
- Hochman, M. On notions of determinism in topological dynamics
- Hong, S. The zeta functions of renewal systems
- Kadyrov, S. Positive entropy invariant measures on the space of lattices with escape of mass
- Kaloshin, V. and Kozlovski, O. S. A C^r unimodal map with an arbitrary fast growth of the number of periodic points
- Kamae, T. Uniform sets and super-stationary sets over general alphabets
- Kamae, T. and Salimov, P. V. On maximal pattern complexity of some automatic words
- Kosloff, Z. On a type III₁ Bernoulli shift
- Kunze, M. and Ortega, R. Complete orbits for twist maps on the plane: the case of small twist
- Kwapisz, J. Rigidity and mapping class group for abstract tiling spaces

- Kwiatkowska, A. and Solecki, S. Spatial models of Boolean actions and groups of isometries
- Ledrappier, F. and Xie, J.-S. Vanishing transverse entropy in smooth ergodic theory
- Leplaideur, R. Thermodynamic formalism for a family of non-uniformly hyperbolic horseshoes and the unstable Jacobian
- Le Roux, F. There is no minimal action of \mathbb{Z}^2 on the plane
- Levine, L. Parallel chip-firing on the complete graph: Devil's staircase and Poincaré rotation number
- Lim, S. and Oh, H. On the distribution of orbits of geometrically finite hyperbolic groups on the boundary
- Lima, Y. \mathbb{Z}^d -actions with prescribed topological and ergodic properties
- Lindenstrauss, E. and Shapira, U. Homogeneous orbit closures and applications
- López-Hernanz, L. Summable formal invariant curves of diffeomorphisms
- Lozano-Rojo, Á. An example of a non-uniquely ergodic lamination
- Matsumoto, K. A class of simple C^* -algebras arising from certain nonsofic subshifts
- Melbourne, I., Niţică, V. and Török, A. Transitivity of Heisenberg group extensions of hyperbolic systems
- Mihailescu, E. Asymptotic distributions of preimages for endomorphisms
- Mihailescu, E. On a class of stable conditional measures
- Mohammadi, A. A special case of effective equidistribution with explicit constants
- Mora, L. and Ruiz, B. Diffeomorphisms with infinitely many irrational invariant curves
- Pavlov, R. Perturbations of multidimensional shifts of finite type
- Pelayo, A. and Tolman, S. Fixed points of symplectic periodic flows
- Peterson, J. and Sinclair, T. On cocycle superrigidity for Gaussian actions
- Polo, F. Equidistribution of singular measures on nilmanifolds and skew products
- Rebelo, J. C. On transverse rigidity for singular foliations in $(\mathbb{C}^2, 0)$
- Rørdam, M. and Sierakowski, A. Purely infinite C^* -algebras arising from crossed products
- Sadun, L. Exact regularity and the cohomology of tiling spaces
- Schweitzer, S. J. P. A. Normal subgroups of diffeomorphism and homeomorphism groups of R^n and other open manifolds
- Skalski, A. On automorphisms of C^* -algebras whose Voiculescu entropy is genuinely non-commutative
- Stoyanov, L. Non-integrability of open billiard flows and Dolgopyat type estimates
- Tapie, S. A variation formula for the topological entropy of convex-cocompact manifolds
- Thompson, D. A thermodynamic definition of topological pressure for non-compact sets
- Timár, Á. Invariant colorings of random planar maps
- Tokman, C. G., Hunt, B. R. and Wright, P. Approximating invariant densities of metastable systems

- Turaev, D. Diffeomorphisms which cannot be topologically conjugate to diffeomorphisms of a higher smoothness
- Worm, D. T. H. and Hille, S. C. Ergodic decompositions associated with regular Markov operators on Polish spaces
- Xu, J. and Jiang, S. Reducibility for a class of nonlinear quasi-periodic differential equations with degenerate equilibrium point under small perturbation
- Xue, Y.-M. and Kamae, T. Partitions by congruent sets and optimal positions
- Yang, J. Newhouse phenomenon and homoclinic classes
- Yarmola, T. An example of a pathological random perturbation of the Cat Map
- Yayama, Y. Existence of a measurable saturated compensation function between subshifts and its applications
- Yoo, J. Measures of maximal relative entropy with full support

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 to an executive or managing editor whose interest is closest to the material of their article. In case of doubt authors may send manuscripts to the Managing Editors at the University of Warwick. Manuscripts may be submitted electronically in pdf or ps form as an attachment to an email, i.e. not in the body of an email. Please also send the \TeX file. If you are unable to do this, please submit the manuscript in printed form. The editor in charge of the paper will acknowledge receipt of the paper. **It is important that authors inform the editor of any changes of postal and/or e-mail address while their paper is under consideration.**

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 \LaTeX using the ETDS \LaTeX class file. Papers that use this class file will be processed more efficiently. A $\text{\LaTeX}2\epsilon$ 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` or the Journal editorial office at `etds@maths.warwick.ac.uk`. Alternatively, authors may use 'article' style.

On final acceptance of a paper, authors should send the \LaTeX source code via e-mail including the figures (line figures only) and all author-defined macro and style files, to the Managing Editors, together with a pdf produced using the same file. The publisher reserves the right to typeset any article by conventional means if the author's \TeX code presents problems in production.

Manuscript

Papers should be typed, double-spaced, 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 \LaTeX 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 for information.

Ergodic theory and dynamical systems

VOLUME 31 PART 1 FEBRUARY 2011

CONTENTS

<i>Barbot, T. and Maquera, C.</i> Transitivity of codimension-one Anosov actions of \mathbb{R}^k on closed manifolds	1
<i>Fletcher, A. N. and Nicks, D. A.</i> Quasiregular dynamics on the n -sphere	23
<i>Gavish, M.</i> Measures with uniform scaling scenery	33
<i>Glasner, E., Lemańczyk, M. and Weiss, B.</i> A topological lens for a measure-preserving system	49
<i>Harvey, N. and Peres, Y.</i> An invariant of finitary codes with finite expected square root coding length	77
<i>Hochman, M.</i> Non-expansive directions for \mathbb{Z}^2 actions	91
<i>Host, B. and Kra, B.</i> Nil-Bohr sets of integers	113
<i>Jordan, T. and Rams, M.</i> Multifractal analysis of weak Gibbs measures for non-uniformly expanding C^1 maps	143
<i>Kočan, Z., Kornecká-Kurková, V. and Málek, M.</i> Entropy, horseshoes and homoclinic trajectories on trees, graphs and dendrites	165
<i>Kočan, Z., Kornecká-Kurková, V. and Málek, M.</i> Entropy, horseshoes and homoclinic trajectories on trees, graphs and dendrites – ERRATUM	177
<i>Leplaideur, R., Oliveira, K. and Rios, I.</i> Equilibrium states for partially hyperbolic horseshoes	179
<i>Levin, G.</i> Multipliers of periodic orbits in spaces of rational maps	197
<i>Llibre, J. and Valls, C.</i> Analytic integrability of quadratic-linear polynomial differential systems	245
<i>Neishtadt, A. and Treschev, D.</i> Polymorphisms and adiabatic chaos	259
<i>Robinson Jr, E. A. and Şahin, A. A.</i> Rank-one \mathbb{Z}^d actions and directional entropy	285
<i>Zhao, X.</i> Non-singular Smale flows on three-dimensional manifolds and Whitehead torsion	301
Papers to appear in forthcoming issues	317

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



Mixed Sources
Product group from well-managed
forests and other controlled sources
www.fsc.org Cert no. SA-COC-1527
© 1996 Forest Stewardship Council

CAMBRIDGE
UNIVERSITY PRESS