CAMBRIDGE

Great Titles *from* Cambridge University Press!



Camil Muscalu and Wilhelm Schlag

Cambridge Studies in Advanced Mathematics

This two-volume text in harmonic analysis introduces a wealth of analytical results and techniques. It is largely self-contained and will be useful to graduate students and researchers in both pure and applied analysis. Numerous exercises and problems make the text suitable for self-study and the classroom alike. This first volume starts with classical

one-dimensional topics: Fourier series; harmonic functions; Hilbert transform. Then the higher-dimensional Calderón-Zygmund and Littlewood-Paley

theories are developed. Probabilistic methods and their applications are discussed, as are applications of harmonic analysis to partial differential equations. The volume concludes with an introduction to the Weyl calculus. The second volume goes beyond the classical to the highly contemporary and focuses on multilinear aspects of harmonic analysis: the bilinear Hilbert transform; Coifman–Meyer theory; Carleson's resolution of the Lusin conjecture; Calderón's commutators and the Cauchy integral on Lipschitz curves. The material in this volume has not previously appeared together in book form.

Volume 1: \$75.00: Hardback: 978-0-521-88245-3: 387 pp. Volume 2: \$75.00: Hardback: 978-1-107-03182-1: 339 pp.

Spectral Theory and its Applications

Bernard Helffer

Introduces the basic tools in spectral analysis using numerous examples from the Schrödinger operator theory and various branches of physics.

Cambridge Studies in Advanced Mathematics \$65.00: Hardback: 978-1-107-03230-9: 260 pp.

Prices subject to change.

Quasiconformal Surgery in Holomorphic Dynamics

Classical and Multilinear

Multilinear Harmonic Analysis

Bodil Branner and Núria Fagella

A comprehensive introduction to quasiconformal surgery in holomorphic dynamics.

Contains a wide variety of applications and illustrations.

Cambridge Studies in Advanced Mathematics \$99.00: Hardback: 978-1-107-04291-9: 416 pp.

www.cambridge.org/mathematics 800.872.7423 @cambUP_maths



Consequentiation and an advantation of the second s

E-books Available for most

titlesi

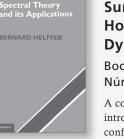
CAMIL MUSCALU WILHELM SCHLAG

nbridge studies in advanced mathematics

Holomorphic Dynamics

BODIL BRANNER NÚRIA FAGELLA

https://doi.org/10.1017/etds.2012.185 Published online by Cambridge University Press



JOURNALS

Journal of the Australian Mathematical Society

Published for The Australian Mathematical Society

Editors-in-Chief

Jonathan Borwein, University of Newcastle, Australia George Willis, University of Newcastle, Australia

The Journal of the Australian Mathematical Society is the oldest journal of the Society, and is well established in its coverage of all areas of pure mathematics and mathematical statistics. It seeks to publish original highquality articles of moderate length that will attract wide interest. Papers are carefully reviewed, and those with good introductions explaining the meaning and value of the results are preferred.

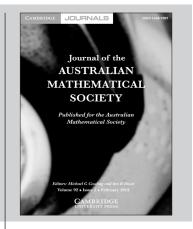
Price information

is available at: http://journals.cambridge.org/jaz

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/jaz-alerts

For free online content visit: http://journals.cambridge.org/jaz



Journal of the Australian Mathematical Society is available online at: http://journals.cambridge.org/jaz

To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org



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 LATEX using the ETDS LATEX class file. Papers that use this class file will be processed more efficiently. A LATEX2e 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 acceptance of a paper, authors should upload the LATEX 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 TEX 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 \Box may be used.

Footnotes should be avoided.

Figures

Graphics should be prepared to professional standards, preferably using Postscript or LAT_EX 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.

© Cambridge University Press 2013

Ergodic theory and dynamical systems

VOLUME 33 PART 6 DECEMBER 2013

CONTENTS

Aaronson, J. Rational weak mixing in infinite measure spaces	1611
Arbieto, A. and Catalan, T. Hyperbolicity in the volume-preserving scenario	1644
<i>Austin, T.</i> Equidistribution of joinings under off-diagonal polynomial flows of nilpotent Lie groups	1667
<i>Bessa, M. and Rocha, J.</i> Contributions to the geometric and ergodic theory of conservative flows	1709
Calcut, J. S. and Gompf, R. E. Orbit spaces of gradient vector fields	1732
<i>Chen, J., Hu, H. and Pesin, Y.</i> A volume preserving flow with essential coexistence of zero and non-zero Lyapunov exponents	1748
<i>Dirbák, M., Snoha, L. and Špitalský, V.</i> Minimality, transitivity, mixing and topological entropy on spaces with a free interval	1786
Lopez, LM. and Narbel, P. Lamination languages	1813
Maruhashi, H. Parameter rigid actions of simply connected nilpotent Lie groups	1864
<i>Pinto-de-Carvalho, S. and Ramírez-Ros, R.</i> Non-persistence of resonant caustics in perturbed elliptic billiards	1876
Stanley, B. Bounded density shifts	1891

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



MIX Paper from responsible sources FSC[®] C007785

