# MATHEMATICAL PROCEEDINGS

(formerly Proceedings)

of the Cambridge Philosophical Society

VOLUME 153





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 C/Orense, 4, planta 13, 28020 Madrid, Spain Lower Ground Floor, Nautica Building, The Water Club, Beach Road, Granger Bay, Cape Town 8005, South Africa

© Cambridge Philosophical Society 2012

Printed in the United Kingdom by MPG Books Ltd

## **INDEX FOR VOLUME 153**

Barden, D. & Kang, H. Isospectral surfaces of genus two and three
Bahri, A. Bendersky, M., Cohen, F. R. & Gitler, S. Cup-products for the polyhedral product functor 457
<ul> <li>Bell, J. P., Burris, S. N. &amp; Yeats, K. On the set of zero coefficients of a function satisfying a linear differential equation</li></ul>
Bennett, M. A., Bugeaud, Y. & Mignotte, M. Perfect powers with few binary digits and related Diophantine problems, II.       525
Berndt, B. C., Chan, H. H. & Tanigawa, Y. Two Dirichlet series evaluations found on page 196 of Ramanujan's Lost Notebook
Bowman, C. Brauer algebras of type C are cellularly stratified
Bonet, J. & Domański, P. Hypercyclic composition operators on spaces of real analytic functions 489
<b>Broderick, R., Fishman, L., Kleinbock, D., Reich, A. &amp; Weiss, B.</b> The set of badly approximable vectors is strongly $C^1$ incompressible
Bryant, R. M. & Johnson, M. A modular version of Klyachko's theorem on Lie representations of the general linear group
Camargo, F., Caminha, A., De Lima, H. & Parente, U. Generalized maximum principles and the rigidity of complete spacelike hypersurfaces 541
<b>Chan, H. H. &amp; Cooper, S.</b> Rational analogues of Ramanujan's series for $1/\pi$
Choe, I. & Hitching, G. H. Lagrangian subbundles of symplectic bundles over a curve 193
Clark, L. O. & Huef, A. A. The representation theory of C*-algebras associated to groupoids . 167
Dimca, A. & Sticlaru, G. Chebyshev curves, free resolutions and rational curve arrangements . 385
Geiges, H. & Zehmisch, K. Symplectic cobordisms and the strong Weinstein conjecture 261
Gutiérrez, J. J. Cellularization of structures in stable homotopy categories
Hernández–Corbato, L., Ortega, R. & Ruiz del Portal, F. R. Attractors with irrational rotation number
Hofmann, K. H. & Russo, F. G. The probability that x and y commute in a compact group 557
Huggett, S., Moffatt, I. & Virdee, N. On the Seifert graphs of a link diagram and its parallels . 123
Humphries, S. P. & Rode, E. L. Weak Cayley tables and generalized centralizer rings of finite groups
<b>Hytönen, T., Yang, D. &amp; Yang, D.</b> The Hardy space $H^1$ on non-homogeneous metric spaces 9
Lamzouri, Y. Large deviations of the limiting distribution in the Shanks–Rényi prime number race 147
Le, H. Killed Brownian motion and the BrunnMinkowski inequalities
Le Boudec, P. Manin's conjecture for a cubic surface with $2A_2 + A_1$ singularity type 419
Mandouvalos, N. Heat kernel bounds for complex time and Schrödinger Kernel on hyperbolic spaces and Kleinian groups
Müller P. F. X. Two remarks on primary spaces
Naboko, S. & Simonov, S. Zeroes of the spectral density of the periodic Schrödinger operator with           Wigner-von Neumann potential         33
Peres, Y. & Sousi, P. Brownian motion with variable drift: 0-1 laws, hitting probabilities and Hausdorff dimension.
Ward, T. Congruences for convolutions of Hilbert modular forms

#### INSTRUCTIONS TO AUTHORS

#### 1. Preparation of Manuscripts

A paper should be submitted electronically to mpeditor@hermes.cam.ac.uk in pdf form only. Authors are encouraged to prepare their manuscripts in LaTeX 2e using the PSP class file. The class file, together with a guide, PSP2egui.tex, and sample pages, PSP2esam.tex, can be downloaded from ftp://ftp.cambridge.org/pub/texarchive/journals/latex/psp-cls in either packed or unpacked form. These files will be updated periodically: please ensure that you have the latest version.

A cover page should give the title, the author's name and institution, with the address to which mail should be sent.

The title, while brief, must be informative (e.g. A new proof of the prime-number theorem, whereas, Some applications of a theorem of G. H. Hardy would be useless).

Authors are asked to provide an abstract as a basis for search on the Web. This may be an explicit abstract at the start of the paper. Otherwise the first paragraph or two should form a summary of the main theme of the paper, providing an abstract intelligible to mathematicians. Please note that the abstract should be able to be read independently of the main text. References should therefore not be included in the abstract.

Authors are encouraged to check that where references are given, they are used in the text. Experience has shown that unused references have a habit of surviving into the final version of the manuscript.

For a typescript to be accepted for publication, it must accord with the standard requirements of publishers, and be presented in a form in which the author's intentions regarding symbols etc. are clear to a printer (who is not a mathematician). Please also check the Cambridge University Press website for information about the style in which the paper should be submitted.

#### 2. Notation

Notation should be chosen carefully so that mathematical operations are expressed with all possible neatness, to lighten the task of the compositor and to reduce the chance of error. For instance  $n \ \text{sub} \ k$  is common usage, but avoid if possible using  $c \ \text{sub} \ n \ \text{sub} \ k$ . Fractions are generally best expressed by a solidus. Complicated exponentials 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)'.

The author must enable the printer (if necessary by pencilled notes in the margin) to distinguish between similar symbols such as  $o, O, o, 0, 0; x, X, x; \phi, \Phi, \emptyset; l, 1; e, k, \kappa, k$ .

Footnotes should be avoided.

Please use typewriter font for all addresses and email addresses.

Omit  $\Box$  from the end of proofs.

In listing assertions, conclusions, etc. do not use a vertical column of dots and do not follow (a) or (i) by a capital letter (eg. (i) the absolute value  $\ldots$ )

In making references precise use [3, theorem 5.1]

#### 3. Diagrams

Diagrams should be in black ink or from a high-quality laser printer and should not be larger than 30 cm by 45 cm. Lettering to be inserted by the printer should be shown clearly on copies of the figures rather than on the original drawings. Please note that a charge may be made if hand-drawn diagrams need to be re-drawn for publication.

#### Figure 1 here

A typed list of captions may be provided at the end of the manuscript in the following format:

#### Figure 1. A basis for .

Note that there is no point at the end of the heading. All headings should be centred.

#### 4. Tables

Tables should be numbered (above the table) and set out on separate sheets. Indicate the position of each in the text as for figures:

#### Table 3 here

Heading for tables should be shown in the following way:

Table 1.A basis for . . .

Note that there is no point at the end of the heading. All headings should be centred over columns.

#### 5. References

References should be collected at the end of the paper numbered in alphabetical order of the authors' names. Where references are given, they should be used in the text. Titles of journals should be abbreviated as in *Mathematical Reviews*. The following examples show the preferred style for references to a paper in a journal, a paper in a proceedings volume, a book and an unpublished dissertation:

[1] J. F. ADAMS. On the non-existence of elements of Hopf invariant one. Ann of Math. (2) 72 (1960), 20-104.

[2] M. P. FOURAM and D. S. SCOTT. Sheaves and logic. In Applications of Sheaves Lecture Notes in Math. vol. 753 (Springer-Verlag, 1979), pp. 302-401.

[3] P. T. JOHNSTONE. Stone Spaces. Cambridge Studies in Advanced Math. no. 3 (Cambridge University Press, 1982).

[4] F. W. LAWVERE. Functional semantics of algebraic theories. PhD. thesis. Columbia University (1963).

#### 6. Submission of papers accepted for publication

When a paper has been accepted for publication the relevant TeX files of the final version, accompanied by a pdf file, should be sent to the Editor by e-mail.

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

# MATHEMATICAL PROCEEDINGS

# of the

Cambridge Philosophical Society

VOLUME 153 PART 3, pages 385–571, November 2012

### CONTENTS

DIMCA, A. & STICLARU, G. Chebyshev curves, free resolutions and rational curve
arrangements
GUTIÉRREZ, J. J. Cellularization of structures in stable homotopy categories
LE BOUDEC, P. Manin's conjecture for a cubic surface with $2A_2 + A_1$ singularity
type
BAHRI, A., BENDERSKY, M., COHEN, F. R. & GITLER, S. Cup-products for the
polyhedral product functor
WARD, T. Congruences for convolutions of Hilbert modular forms
BONET, J. & DOMAŃSKI, P. Hypercyclic composition operators on spaces of real
analytic functions
Müller, P. F. X. Two remarks on primary spaces
BENNETT, M. A., BUGEAUD, Y. & MIGNOTTE, M. Perfect powers with few binary
digits and related Diophantine problems, II
CAMARGO, F., CAMINHA, A., DE LIMA, H. & PARENTE, U. Generalized maximum
principles and the rigidity of complete spacelike hypersurfaces
HOFMANN, K. H. & RUSSO, F. G. The probability that x and y commute in a
compact group

© The Cambridge Philosophical Society 2012

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



MIX Paper from responsible sources FSC<sup>®</sup> C018575

