

Ownership and Publication of *Mathematika*

Mathematika was founded in the early 1950s by Harold Davenport and is owned by University College London. Since 2010, the journal has been published on behalf of its owner by the London Mathematical Society (LMS). The LMS celebrated its 150th anniversary in 2015; it is the major British learned Society for mathematics and publishes twelve other journals, five of which are in collaboration with other learned societies. Cambridge University Press prints and distributes *Mathematika* under agreement with the London Mathematical Society.

All articles are available electronically via Cambridge Core.

Aims and Scope

Mathematika publishes both pure and applied mathematical articles of the highest quality. The traditional emphasis has been towards the purer side of mathematics but applied mathematics and articles addressing both aspects are equally welcome.

Submission of Manuscripts

Authors wishing to submit a paper for publication should follow the guidelines available via the webpage www.lms.ac.uk/publications.

Authors will be asked to assign copyright to University College London prior to publication.

No paper should have been published or be under consideration for publication elsewhere. Nor may the paper be submitted elsewhere while it remains under consideration by *Mathematika*.

Offprints

A URL giving free access to the final published article will be provided free of charge. Offprints can be ordered on the form which will accompany the page proofs.

Printed back numbers

Orders for volume 56 (2010) onwards should be sent to Cambridge University Press. Printed copies of volume 55 (2009) and earlier volumes are available from the Department of Mathematics, University College London. Please contact mathematika@math.ucl.ac.uk.

Copying

This journal is registered with the Copyright Clearance Centre, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA that are registered with the CCC may therefore copy material beyond the limits permitted by sections 107 and 108 of US copyright law subject to payment to CCC of the per-copy fee. This consent does not extend to multiple copying for promotional and commercial purposes. Code 0025-5793/2017.

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.

Published by the London Mathematical Society on behalf of University College London.

This journal has been printed on FSC-certified paper and cover board. See www.fsc.org.

Typeset by Sunrise Setting Ltd, Brixham, UK.

Printed in the UK by Bell and Bain Ltd.

Mathematika

VOLUME 63 PART 2 2017

Shaoming Guo and Christoph Thiele Hilbert transforms along Lipschitz direction fields: a lacunary model	351–363
Loïc Grenié, Giuseppe Molteni and Alberto Perelli Primes and prime ideals in short intervals	364–371
Konstantin Tikhomirov Illumination of convex bodies with many symmetries	372–382
A. Cabot, A. Jourani and L. Thibault Envelopes for sets and functions: regularization and generalized conjugacy	383–432
Adam Osękowski Weighted inequalities for martingale transforms and stochastic integrals	433–450
J. D. P. Evans Stably free modules over $\mathbf{Z}[(C_p \rtimes C_q) \times C_\infty^n]$ are free	451–461
B. Rubin On the determination of star bodies from their half-sections	462–468
M. van den Berg and K. Gittins Minimizing Dirichlet eigenvalues on cuboids of unit measure	469–482
R. M. Nunes On the least squarefree number in an arithmetic progression	483–498
J. J. Remez An explicit diagonal resolution for a non-abelian metacyclic group	499–517
Luis Barreira and Claudia Valls Non-uniform trichotomies and arbitrary growth rates	518–537
Marek Cúth, Ondřej F. K. Kalenda and Petr Kaplický Isometric representation of Lipschitz-free spaces over convex domains in finite-dimensional spaces	538–552
Ilya D. Shkredov and Igor E. Shparlinski On some multiple character sums	553–560
Wouter Castryck A lower bound for the gonality conjecture	561–563
Youness Lamzouri Large moments and extreme values of class numbers of indefinite binary quadratic forms	564–586
Paloma Bengoechea, Nikolay Moshchevitin and Natalia Stepanova A note on badly approximable linear forms on manifolds	587–601
Nathan McNew Random multiplicative walks on the residues modulo n	602–621
Ofir Gorodetsky A polynomial analogue of Landau's theorem and related problems	622–665
Sarah Reitzes, Polina Vulakh and Matthew P. Young Zeros of certain combinations of Eisenstein series	666–695
Márton Naszódi, János Pach and Konrad Swanepoel Arrangements of homothets of a convex body	696–710

Cambridge Core

For further information about this journal
please go to the journal web site at:

cambridge.org/mtk

CAMBRIDGE
UNIVERSITY PRESS