

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 eleven 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 0025-5793/2018.

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 64 PART 1 2018

Mohammad N. Ivaki A local uniqueness theorem for minimizers of Petty's conjectured projection inequality	1–19
Joni Teräväinen The Goldbach problem for primes that are sums of two squares plus one	20–70
Péter Komjáth Set mappings with free sets which are arithmetic progressions	71–76
L. Olsen On the Π_γ^0 -completeness and Σ_γ^0 -completeness of multifractal decomposition sets	77–114
Caïus Wojcik and Luca Q. Zamboni Monochromatic factorizations of words and periodicity	115–123
Daniel Hug and Zakhar Kabluchko An inclusion–exclusion identity for normal cones of polyhedral sets	124–136
J. C. Andrade, S. M. Gonek and J. P. Keating Truncated product representations for L -functions in the hyperelliptic ensemble	137–158
András Biró Local average of the hyperbolic circle problem for Fuchsian groups	159–183
Hayato Kohama and Yoshinori Mizuno Kernel functions of the twisted symmetric square of elliptic modular forms	184–210
Rafał Łatała and Marta Strzelecka Comparison of weak and strong moments for vectors with independent coordinates	211–229
Aled Walker The primes are not metric Poissonian	230–236
Xianchang Meng Large bias for integers with prime factors in arithmetic progressions	237–252
R. Lutowski, N. Petrosyan and A. Szczepański Classification of spin structures on four-dimensional almost-flat manifolds	253–266
Dong Han Kim, Michał Rams and Baowei Wang Hausdorff dimension of the set approximated by irrational rotations	267–283
Tuomas Hytönen and Emil Vuorinen A two-weight inequality between $L^p(\ell^2)$ and L^p	284–302

Cambridge Core

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

cambridge.org/mtk

CAMBRIDGE
UNIVERSITY PRESS