

ISSN: 0025-5793 (print) 2041-7942 (online)

Mathematika

VOLUME 58 PART 1 JANUARY 2012



LONDON
MATHEMATICAL
SOCIETY



UCL

Mathematika

A JOURNAL OF PURE AND APPLIED MATHEMATICS

Editorial Board

Managing Editor

ALEX SOBOLEV, University College London
Analysis, spectral theory, PDEs

KEITH BALL, University of Warwick
Discrete geometry, functional analysis,
information theory

IMRE BÁRÁNY, University College London
Convex geometry with applications

ANTHONY CARBERY, The University of Edinburgh
Classical harmonic analysis

TIMOTHY GOWERS, University of Cambridge
Analysis, combinatorics

FRANCIS JOHNSON, University College London
Algebra, geometric group theory and topology

MINHYONG KIM, University College London
Number theory, algebraic geometry

YAROSLAV KURYLEV, University College London
Inverse problems

IMRE LEADER, University of Cambridge
Combinatorics, graphs

ASSAF NAOR,
New York University/Courant Institute
Analysis, geometry

FRANK SMITH, University College London
Industrial and biomedical modelling

JEAN-MARC VANDEN-BROECK,
University College London
Fluid mechanics, free boundary problems,
scientific computing and asymptotics

ROBERT VAUGHAN, Pennsylvania State University
Analytic number theory

GÜNTER ZIEGLER, Technische Universität Berlin
Discrete geometry, polytopes, topological methods

Subscriptions

Mathematika is published in two issues in 2012. Subscription prices for 2012 are £126 (\$201 in USA, Canada and Mexico) which includes print and electronic access. The electronic-only access price for 2012 is £114 (\$183 in USA, Canada and Mexico). Single parts cost £63 (\$101 in USA, Canada and Mexico). Prices include delivery by air where appropriate. EU subscribers who are not registered for VAT should add VAT at their country's rate. VAT-registered subscribers should provide their VAT registration number.

Orders, which must be accompanied by payment, should be sent to a subscription agent, book-seller, or direct to the publishers: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK or, in the USA, Canada and Mexico, Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, NY 10994-2133. Japanese prices are available from Kinokuniya Company Ltd, PO Box 55, Chitose, Tokyo 156, Japan. Periodicals postage is paid at New York, NY and additional mailing offices. POSTMASTER: send address changes in the USA, Canada and Mexico to *Mathematika*, Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, NY 10994-2133.

This journal is included in the Cambridge Journals Online service. Further information, and online access for subscribers, is available at <http://journals.cambridge.org/mtk>.

© University College London, 2012