Glasgow Mathematical Journal

Volume 52 Part 3 September 2010

CAMBRIDGEUNIVERSITY PRESS

Glasgow Mathematical Journal

EDITOR-IN-CHIEF: Dr. I. A. B. Strachan, Department of Mathematics, University of Glasgow

SUBJECT EDITORS:

AlgebraProfessor R. Marsh, Department of Pure Mathematics, University of LeedsAlgebraProfessor S. J. Pride, Department of Mathematics, University of Glasgow

Algebraic GeometryDr A. Craw, Department of Mathematics, University of GlasgowAlgebraic TopologyDr A. J. Baker, Department of Mathematics, University of GlasgowAnalysisDr. J. Bennett, School of Mathematics, University of BirminghamAnalysisDr S. Pott, Department of Mathematics, University of Glasgow

Analysis Dr. E. Shargorodsky, Department of Mathematics, Kings College, London

Differential Geometry Professor R. Bielawski, Department of Pure Mathematics, University of Leeds

Mathematical Physics Dr. O. Chalykh, Department of Applied Mathematics, University of Leeds

Number Theory Dr. J. Manoharmayum, Department of Pure Mathematics, University of Sheffield

INTERNATIONAL EDITORS:

Professor T. Bridgeland, School of Mathematics and Statistics, University of Sheffield, UK.

Professor G. Brown, Vice-Chancellor and Principal, The University of Sydney, Australia

Professor W. G. Dwyer, Department of Mathematics, University of Notre Dame, USA Professor M. A. Efendiev, Center of Mathematical Sciences, Technical University of Munich, Germany

Professor K. R. Goodearl, Department of Mathematics, University of California, USA

Professor B. J. Green, Department of Pure Mathematics and Mathematical Statistics, University of Cambridge,

Professor H. W. Lenstra, jr., Mathematisch Instituut, Universiteit Leiden, The Netherlands

Professor A. Lubotzky, Institute of Mathematics and Computer Science, The Hebrew University of Jerusalem, Israel

Professor L. E. Payne, Department of Mathematics, Cornell University, USA

Professor H. Pedersen, Department of Mathematics and Computer Science, University of Southern Denmark,

Professor T. Schlumprecht, Department of Mathematics, Texas A & M University, USA

BUSINESS MANAGER: Dr. C. Athorne

SUBSCRIPTIONS

Glasgow Mathematical Journal (ISSN 0017–0895) is published in January, May and September. Three parts form a volume. The subscription price of volume 52 (2010) (which includes electronic access and postage) is £176 net (USA, Canada and Mexico US\$315). The electronic-only price available to institutional subscribers is £148 (US\$269 in the USA, Canada and Mexico). Single parts cost £61 (USA, Canada and Mexico US\$113) plus postage. Prices include delivery by air where appropriate.

Orders, which must be accompanied by payment, may be sent to any bookseller, subscription agent or direct to the publisher: 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, New York 10994–2133. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Application to mail at Periodicals Postage Rates is pending at New York, NY.

COPYING

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA (www.copyright.com). Organizations in the USA who are also registered with CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC. This consent does not extend to multiple copying for promotional or commercial purposes.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only.

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 University Press.

For further information on other Press titles access journals.cambridge.org.