Glasgow Mathematical Journal

Volume 64 Part 1 January 2022



Glasgow Mathematical Journal

EDITOR-IN-CHIEF:	Dr. B. Owens, School of Mathematics and Statistics, University of Glasgow, UK
SUBJECT EDITORS: Algebra	Dr. J. Grabowski, Department of Mathematics & Statistics, Lancaster University, UK
Algebra	Professor V. Mazorchuk, Department of Mathematics, University of Uppsala, Sweden
Algebra	Professor I. Chatterji, Laboratoire de Mathématiques J.A. Dieudonné, University of Nice, France
Algebra	Professor C. M. Roney-Dougal, School of Mathematics and Statistics, University of St. Andrews, UK
Algebraic Geometry	Professor G. Brown, School of Mathematics, University of Warwick, UK
Algebraic Topology	Dr. A. J. Baker, School of Mathematics & Statistics, University of Glasgow, UK
Analysis	Professor A. Skalski, Polish Academy of Science, Poland
Analysis	Professor V. Moroz, Department of Mathematics, University of Swansea, UK
Analysis	Professor N. Bez, Department of Mathematics, Saitama University, Japan
Differential Geometry	Professor J. Fine, Université Libre de Bruxelles, Belgium
Geometric Topology	Professor S. Friedl, University of Regensburg, Germany
Mathematical Physics	Dr. O. Chalykh, Department of Applied Mathematics, University of Leeds, UK
Number Theory	Professor A. Bartel, University of Glasgow, UK
Topology	Dr. Constanze Roitzheim, University of Kent, UK

SUBSCRIPTIONS

Glasgow Mathematical Journal (ISSN 0017–0895) is published in January, May and September. Three parts form a volume. The subscription price of volume 64 (2022) (which includes electronic access and postage) is \pounds 327 net (USA, Canada and Mexico US\$555). The electronic-only price available to institutional subscribers is \pounds 248 (US\$444 in the USA, Canada and Mexico). Single parts cost \pounds 121 (USA, Canada and Mexico US\$213) 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, Journals Fulfillment Department, University Printing House, Shaftesbury Road, Cambridge CB2 8BS, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA. 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 cambridge.org/journals.