

CAMBRIDGE

JOURNALS

Proceedings of the Royal Society of Edinburgh, Section A: Mathematics

Marketed and Distributed for the Royal Society of Edinburgh

Chairman and Executive Editor

A. A. Ranicki, *University of Edinburgh, UK*

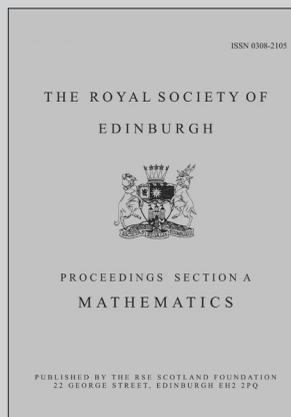
A flagship publication of The Royal Society of Edinburgh, Proceedings A is a prestigious, general mathematics journal publishing peer-reviewed papers of international standard across the whole spectrum of mathematics, but with the emphasis on applied analysis and differential equations. An international journal, publishing six issues per year, Proceedings A has been publishing the highest-quality mathematical research for nearly 70 years. Recent issues have included a wealth of key contributors and considered research papers.

Price information

is available at: <http://journals.cambridge.org/prm>

Free email alerts

Keep up-to-date with new material – sign up at
<http://journals.cambridge.org/prm-alerts>



*Proceedings of the Royal Society of
Edinburgh, Section A: Mathematics*

is available online at:
<http://journals.cambridge.org/prm>

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
Email
subscriptions_newyork@cambridge.org

For free online content visit:
<http://journals.cambridge.org/prm>



CAMBRIDGE
UNIVERSITY PRESS

INFORMATION FOR AUTHORS

The *Bulletin of the Australian Mathematical Society* aims at quick publication of original research in all branches of mathematics. To ensure speedy publication, only articles which are sufficiently well presented, able to be published without revision, and which are judged by the Editor (often in consultation with an Associate Editor) to be competitive are refereed. This policy is in the interests of authors, as a quick rejection is better than a slow rejection. The *Bulletin* receives more than five times the material that can be published, therefore there are many commendable papers not accepted. Editorial decisions on acceptance or otherwise are taken quickly, normally within a month of receipt of the paper. Papers are accepted only after peer review.

Manuscripts are accepted for review with the understanding that the same work is not concurrently submitted elsewhere. For a paper to be acceptable for publication, not only should it contain new and interesting results, but also

- (i) the exposition should be clear and attractive, and
- (ii) the manuscript should be in publishable form, without revision.

Further information regarding these requirements may be found through our website www.austms.org.au/Bulletin. Authors are asked to avoid, as far as possible, the use of mathematical symbols in the title.

Articles should be prepared in \LaTeX using $\mathcal{A}\mathcal{M}\mathcal{S}$ - \LaTeX packages and submitted as a PDF file via our journal management system, at www.austms.org.au/Publications/Submissions/BAustMS. This permits authors to track their papers through the editorial process. Recent versions of \TeX are able to produce PDF files directly. A \LaTeX class file for the *Bulletin* can be downloaded from the website. Authors who need assistance may email the secretary of the *Bulletin* at editor@bulletin.austms.org.au.

Authors are advised to keep copies of all files of the submitted article; the *Bulletin* will not accept responsibility for any loss.

EDITORIAL POLICY

1. References. Arrange references alphabetically (by surname of the first author) and cite them numerically in the text. Ensure the accuracy of the references: authors' names should appear as in the work quoted. Include in the list of references only those works cited, and avoid citing works which are in preparation or submitted. Where the work cited is not readily accessible (for example, a preprint) a copy of the article should be included with your submission.

2. Abstracts.

1. Each paper must include an abstract of not more than 150 words, which should contain a brief but informative summary of the contents of the paper, but no inessential details.
2. The abstract should be self-contained, but may refer to the title.
3. Specific references (by number) to a section, proposition, equation or bibliographical item should be avoided.

3. Subject Classification and Key Words. Authors should include a few key words and phrases and one or more classification numbers, following the American Mathematical Society 2010 Mathematics Subject Classification for all codes. Details of this scheme can be found on the web at www.ams.org/msc.

4. Abstracts of PhD Theses. The *Bulletin* endeavours to publish abstracts of all accepted Australasian PhD theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within six months of the degree being approved.



MIX
Paper from
responsible sources
FSC® C007785

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organisation established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Table of Contents

On γ-vectors and the derivatives of the tangent and secant functions <i>Ma, S.-M.</i>	177
On deficient-perfect numbers <i>Tang, M. & Feng, M.</i>	186
The minimal growth of a k-regular sequence <i>Bell, J. P., Coons, M. & Hare, K. G.</i>	195
Generalisation of Keith's conjecture on 9-regular partitions and 3-cores <i>Lin, B. L. S. & Wang, A. Y. Z.</i>	204
A note on interpolation of permutations of a subset of a finite field <i>Castillo, C., Coulter, R. S. & Smith, S.</i>	213
On a class of supersoluble groups <i>Ballester-Bolínches, A., Beidleman, J. C., Esteban-Romero, R. & Ragland, M. F.</i>	220
On noninner 2-automorphisms of finite 2-groups <i>Abdollahi, A. & Ghoraishi, S. M.</i>	227
Noninner automorphisms of order p in finite p-groups of coclass 2, when $p > 2$ <i>Fouladi, S. & Ofi, R.</i>	232
On a problem of P. Hall for Engel words II <i>Russo, F. G.</i>	237
On solubility of groups with few normalisers <i>Žarvin, M.</i>	247
Solvability of finite groups with four conjugacy class sizes of certain elements <i>Jiang, Q. & Shao, C.</i>	250
Bornologies and locally Lipschitz functions <i>Beer, G. & Garrido, M. I.</i>	257
Some results on comparing two integral means for absolutely continuous functions and applications <i>Hwang, D.-Y. & Dragomir, S. S.</i>	264
Characterisations of Hardy growth spaces with doubling weights <i>Doubtsov, E.</i>	275
Carleman estimate and unique continuation property for the linear stochastic Korteweg–de Vries equation <i>Gao, P.</i>	283
Barrelled spaces with(out) separable quotients <i>Kizkol, J., Saxon, S. A. & Todd, A. R.</i>	295
A further property of spherical isometries <i>Tanaka, R.</i>	304
Domination by positive weak* Dunford–Pettis operators on Banach lattices <i>Chen, J. X., Chen, Z. L. & Ji, G. X.</i>	311
An existence result for a variational-like inequality <i>Inoan, D.</i>	319
Statistical causality and martingale representation property with application to stochastic differential equations <i>Petrović, Lj. & Valjarević, D.</i>	327
Determinacy and indeterminacy of games played on complete metric spaces <i>Fishman, L., Ly, T. & Simmons, D.</i>	339