

## 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](http://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](http://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](mailto: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](http://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](http://www.fsc.org) for information.

## Table of Contents

<b>Quadratic nonresidues and nonprimitive roots satisfying a coprimality condition</b> <i>Chattopadhyay, J., Roy, B., Sarkar, S. &amp; Thangadurai, R.</i>	177
<b>The maximum size of <math>(k, l)</math>-sum-free sets in cyclic groups</b> <i>Bajnok, B. &amp; Matzke, R.</i>	184
<b>On maximally Frobenius destabilised vector bundles</b> <i>Li, L.</i>	195
<b>On the second-largest Sylow subgroup of a finite simple group of Lie type</b> <i>Glasby, S. P., Niemeyer, A. C. &amp; Popiel, T.</i>	203
<b>Groups satisfying the double chain condition on abelian subgroups</b> <i>Brescia, M. &amp; Russo, A.</i>	212
<b>The unique continuation property of <math>p</math>-harmonic functions on the Heisenberg group</b> <i>Liu, H., Liu, F. &amp; Wu, H.</i>	219
<b>An improved result on ground state solutions of quasilinear Schrödinger equations with super-linear nonlinearities</b> <i>Chen, S. T. &amp; Gao, Z.</i>	231
<b>Existence and blow-up of solutions to a parabolic equation with nonstandard growth conditions</b> <i>Liu, Y.</i>	242
<b>Quantitative properties of meromorphic solutions to some differential-difference equations</b> <i>Wang, Q., Han, Q. &amp; Hu, P.</i>	250
<b>Geometric and fixed point properties in products of normed spaces</b> <i>Veena Sangeetha, M.</i>	262
<b>On the decomposition of operators with several almost-invariant subspaces</b> <i>Assadi, A., Farzaneh, M. A. &amp; Mohammadinejad, H. M.</i>	274
<b>Amenable semigroups of nonlinear operators in uniformly convex Banach spaces</b> <i>Salame, K.</i>	284
<b>Positive centre sets of convex curves and a Bonnesen type inequality</b> <i>Yang, Y. L.</i>	293
<b>On generalised metrisability and cardinal invariants in quasitopological groups</b> <i>Tang, Z. &amp; Lin, S.</i>	302
<b>Differential forms on stratified spaces II</b> <i>Gürer, S. &amp; Iglesias-Zemmour, P.</i>	311
<b>An exact entangling gate using Fibonacci anyons</b> <i>Bigelow, S. &amp; Leuallant, C.</i>	319
<b>The domination game on split graphs</b> <i>James, T., Klavžar, S. &amp; Vijayakumar, A.</i>	327
<b>Abstracts of PhD Theses</b>	
<b>Algebraic models of large scale genome rearrangement events</b> <i>Bhatia, S.</i>	338
<b>Metrics and special Kähler geometry on the moduli spaces of Higgs bundles and Hitchin systems</b> <i>Huang, Z.</i>	340
<b>Positive scalar curvature and Callias-type index theorems for proper actions</b> <i>Guo, H.</i>	342
<b>Stochastic Navier–Stokes equations on 2D rotating spheres with stable Lévy noise</b> <i>Dong, L.</i>	344
<b>Parameter estimation for stage-duration models</b> <i>Pham, H. T. T.</i>	346
<b>Joint models for nonlinear longitudinal and time-to-event data using penalised splines</b> <i>Pham, H. T. T.</i>	349