

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 as not to require 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, as the Editors receive more than three times the material that can be published in the BULLETIN; many meritorious papers can, therefore, not be 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. As even minor revisions are generally not permitted, authors should read carefully all the details listed below. 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;
- (ii) the manuscript should be in publishable form, without revision.

Further information regarding these requirements may be found from The London Mathematical Society and The American Mathematical Society. Authors are asked to avoid, as far as possible, the use of mathematical symbols in the title.

Authors should submit three clean, high quality copies to

The Editorial Office, Bulletin of the Australian Mathematical Society,
Department of Mathematics, The University of Queensland,
Queensland 4072, Australia.

Unless requested at the time, material submitted to the BULLETIN will usually not be returned.

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 photocopy of the title page and relevant sections of the copy that you have used should be included with your submission.

2. Abstracts.

1. Each paper must include an abstract of not more than 200 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. Authors should include in their papers one or more classification numbers, following the 2000 Mathematics Subject Classification. Details of this scheme can be found in each Annual Index of Mathematical Reviews or on the web at <http://www.ams.org/msc>.

4. Abstracts of Ph.D. Theses. The Bulletin endeavours to publish abstracts of all accepted Australasian Ph.D. theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within 6 months of the degree being approved.

5. Electronic Manuscripts. The BULLETIN is produced using $\mathcal{A}\mathcal{M}\mathcal{S}\text{-T}\mathcal{E}\mathcal{X}$. Authors who are able to do so are invited to prepare their manuscripts using $\text{T}\mathcal{E}\mathcal{X}$ (we accept Plain $\text{T}\mathcal{E}\mathcal{X}$, $\mathcal{A}\mathcal{M}\mathcal{S}\text{-T}\mathcal{E}\mathcal{X}$ or $\text{L}^{\text{A}}\text{T}\mathcal{E}\mathcal{X}$) and submit text on an IBM PC compatible diskette or via e-mail to ams@maths.uq.edu.au. [Typed manuscripts are, of course, still acceptable.]

Bulletin of the Australian Mathematical Society

On inequalities of Hilbert's type	
Bing He and Yongjin Li	1
A note on N_K configurations and theorems in projective space	
David G. Glynn	15
Sign-variations of solutions of nonlinear discrete boundary value problems	
Ruyun Ma	33
An analytic extension of a spacelike maximal surface	
Sung-Eun Koh	43
Completely continuous elements of Banach algebras related to locally compact groups	
M.J. Mehdipour and R. Nasr-Isfahani	49
A rank for right congruences on inverse semigroups	
Victoria Gould	55
Characterisation of embeddings in Lorentz spaces	
A. Gogatishvili, M. Johansson, C.A. Okpoti and L.-E. Persson	69
Constructions of general polynomial lattices for multivariate integration	
Peter Kritzer and Friedrich Pillischshammer	93
Finite matrix model of quantum hall fluids on S^2	
Yi-Xin Chen, Mark D. Gould and Yao-Zhong Zhang	111
On the integers represented by $x^4 - y^4$	
Andrzej Dąbrowski	133
A question on McCoy rings	
Zhen Lei, Jianlong Chen and Zhiling Ying	137
Surjectivity of linear operators from a Banach space into itself	
Dimosthenis Drivaliaris and Nikos Yannakakis	143
A note on bounded variation and heat semigroup on Riemannian manifolds	
A. Carbonaro and G. Mauceri	155