

# JOURNAL of the AUSTRALIAN MATHEMATICAL SOCIETY

Volume 74 Part 3  
JUNE 2003

R. G. BURNS and YURI MEDVEDEV	<i>Group laws implying virtual nilpotence</i> .....	295
DONALD W. BARNES and DANIEL GROVES	<i>The Wielandt subalgebra of a Lie algebra</i> .....	313
N. RANDRIANANTOANINA	<i>Embeddings of <math>\ell_p</math> into non-commutative spaces</i> ...	331
CHRISTIAN LE MERDY	<i>Two results about <math>H^\infty</math> functional calculus on analytic UMD Banach spaces</i> .....	351
VAHAGN H. MIKAEKIAN	<i>An embedding construction for ordered groups</i> ....	379
B. A. DAVEY and M. HAVIAR	<i>Transferring optimal dualities: theory and practice</i>	393
S. T. CHAPMAN and J. C. ROSALES	<i>On the asymptotic values of length functions in Krull and finitely generated commutative monoids</i> ....	421

Formerly  
Journal of the Australian Mathematical Society  
(Series A — Pure Mathematics and Statistics)

---

Set by TeXAdel, Adelaide, Australia.

JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY

Two volumes of three parts each are planned for 2003. These are Volume 74 and Volume 75. The annual subscription price to non-members for 2003:

	Electronic only	Print only	Electronic and print
Australia (GST incl.)	A\$398.20	A\$442.20	A\$486.20
Overseas	US\$282.00	US\$324.00	US\$355.00

Information about other publications of the Australian Mathematical Society may be found on the inside back cover.

Submission of research papers in pure mathematics and statistics is invited. Intending authors should prepare the manuscript following the instructions below and send two hard copies to the Editor or an appropriate Associate Editor (see back cover); alternatively e-mail a pdf file (only) to an appropriate Associate Editor (for e-mail addresses see <http://www.ms.unimelb.edu.au/~jams>).

*Manuscripts submitted to this journal will be considered for publication with the understanding that the same work has not been published and is not under consideration for publication elsewhere.*

PREPARATION OF MANUSCRIPTS

1. The article should be typed, printed or photocopied on high quality bond paper of either A4, quarto or US letter size, on one side only, with double spacing, and with a generous margin (at least 3cm) all around.

2. The author should keep a complete copy of the submitted article as well as any electronic source; the Society will not accept responsibility for any loss.

3. Authors are encouraged to prepare their papers in  $\text{\LaTeX}$ ; further information on preparation of manuscripts is available on the Journal's web page at <http://www.ms.unimelb.edu.au/~jams>. Other forms of electronic source will usually also be useful.

4. Each manuscript should include (i) an abstract of not more than 150 words, preferably containing no formulae, and certainly containing no complicated formulae and no references, (ii) a 2000 Mathematics subject classification, (iii) if the title is long, a shortened form of it, no more than forty characters in length, including spaces.

5. Two alternative styles for references and quotations are described below. Authors are requested to use one and only one style consistently throughout their manuscript.

STYLE 1. A typical reference in the list of references would be

[3] T. M. Cherry, 'Infinite linear systems with homogeneous kernel of degree  $-1$ ', *J. Austral. Math. Soc.* **5** (1965), 129–168.

A corresponding reference in the text would be: Cherry [3]; or ([3,4,9]); or Cherry [3, Theorem 1].

STYLE 2. A typical reference in the list of references would be

[GBP] G. B. Preston, 'Monogenic inverse semigroups', *J. Austral. Math. Soc.* **40** (1986), 321–342.

A corresponding reference in the text would be: Preston [GBP]; or ([GBP, KG, GHL]); or Preston [GBP, Proposition 1].

In either style, the list of references should be in alphabetical order of surnames of first authors. Abbreviations for journal names should follow the practice of Mathematical Reviews.

6. Explain clearly what symbols are to be set in special typefaces (such as cursive, fraktur, script, bold) where this is not clear from the manuscript or electronic source.

7. Avoid abbreviations, such as Thm., Prop., Ex., iff, i.e., e.g.,  $\forall$ ,  $\exists$ ,  $\Rightarrow$ , and  $\Leftrightarrow$ .

8. Authors should provide diagrams drawn to professional standards. Diagrams in the form of encapsulated Postscript files, or similar, may be acceptable; the quality, however, should be similar to that obtained by a professional artist.

*Journal of the Australian Mathematical Society*, is published bimonthly by the Australian Mathematical Society, c/- Mathematics Department, Australian National University, Canberra, ACT 0200, Australia. Send address change notices to Dr A. Howe, Australian Mathematical Society, c/- Mathematics Department, Australian National University, Canberra, ACT 0200, Australia.