

# JOURNAL of the AUSTRALIAN MATHEMATICAL SOCIETY

Volume 77 Part 3  
DECEMBER 2004

ENRICO JABARA	<i>Fixed point free actions of groups of exponent 5</i>	297
GREG MARTIN	<i>The unreasonable effectualness of continued function expansions</i> .....	305
J. H. MEYER	<i>Two-sided ideals in group near-rings</i> .....	321
JONATHAN A. HILLMAN	<i>Homomorphisms of nonzero degree between <math>PD_n</math>-groups</i> .....	335
CIPRIAN FOIAŞ, IL BONG JUNG, EUNGIL KO and CARL PEARCY	<i>On quasinilpotent operators, II</i> .....	349
PETAR S. KENDEROV and WARREN B. MOORS	<i>A dual differentiation space without an equivalent locally uniformly rotund norm</i> .....	357
J. DIESTEL and W. J. RICKER	<i>The strong closure of Boolean algebras of projections in Banach spaces</i> .....	365
LÉONARD GALLARDO and KHALIFA TRIMÈCHE	<i>An <math>L^p</math> version of Hardy's theorem for the Dunkl transform</i> .....	371
ANTONIO BELTRÁN and MARÍA JOSÉ FELIPE	<i>Certain relations between <math>p</math>-regular class sizes and the <math>p</math>-structure of <math>p</math>-solvable groups</i> .....	387
R. M. BRYANT	<i>Modular Lie representations of finite groups</i> ...	401
ÉTIENNE FOUVRY, PHILIPPE MICHEL, JOËL RIVAT and ANDRÁS SÁRKÖZY	<i>On the pseudorandomness of the signs of Kloosterman sums</i> .....	425

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

Two volumes of three parts each are planned for 2005. These are Volume 78 and Volume 79. The annual subscription price to non-members for 2005:

	Electronic only	Print only	Electronic and print
Australia (GST incl.)	A\$ 421.30	A\$ 468.60	A\$ 515.90
Overseas	US\$ 302	US\$ 347	US\$ 381

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 under the condition that the paper has not been published and is not being considered for publication anywhere else.

The Journal is seeking articles of more general interest and of moderate length, preferring papers with a good introduction explaining the meaning and value of results. In view of the pressure on space, only papers highly rated by assessors can be accepted.

Papers can be submitted to the Journal Editorial Office either electronically by e-mailing a pdf file to [jams@ms.unimelb.edu.au](mailto:jams@ms.unimelb.edu.au) or by mailing two hard copies to the address below; or they can be submitted by the same process to an appropriate Associate Editor (see the back cover or the Journal website <http://www.ms.unimelb.edu.au/~jams>).

#### *PREPARATION OF MANUSCRIPTS*

1. Hard copy manuscripts should be printed on one side only, with double spacing and with a generous margin. Submitted manuscripts will not be returned.

2. Authors are encouraged to prepare their papers in  $\text{\LaTeX}$ ; a style file can be downloaded by following links given at the Journal website. Other forms of electronic source may be useful.

3. Each manuscript should include an abstract of no more than 150 words, preferably containing no formulae, a 2000 Mathematics subject classification, and a short title of no more than 40 characters.

4. For the style of references consult recent issues of the Journal. The current usage is either the number referencing [1], [2], [3], or the letter referencing, such as [DS1], [DS2], [DS3] if the authors are N. Dunford and J. T. Schwartz, and the reference is to the 3 volumes of their monograph. In either style, references should be ordered alphabetically by the first author's name. Abbreviations of journal names should follow Mathematical Reviews.

5. If not using  $\text{\LaTeX}$ , specify the symbols to be set in special typefaces (bold, fraktur, script, etc.).

6. Avoid abbreviation such as Thm., Prop., Eq., Ex., iff. In the text do not use the symbols  $\forall$ ,  $\exists$ ,  $\implies$  and  $\iff$ .

7. Graphics should be prepared to professional standards, preferably using Postscript or  $\text{\LaTeX}$  drawing facilities. Charges may apply if the typesetters have to recreate a graphics file because the original is not suitable for printing.

*Journal of the Australian Mathematical Society* is published bimonthly by the Australian Mathematical Society, c/- Department of Mathematics, ANU, Canberra ACT 0200, Australia.

*Subscription and change of address:* Dr A. Howe, Australian Mathematical Society, c/- Department of Mathematics, ANU, Canberra ACT 0200, Australia.

*Editorial Office:* Journal of the Australian Mathematical Society, Department of Mathematics and Statistics, The University of Melbourne, VIC 3010, Australia.

*Journal website:* <http://www.ms.unimelb.edu.au/~jams>

*Journal e-mail:* [jams@ms.unimelb.edu.au](mailto:jams@ms.unimelb.edu.au)