

INDEX

ALVES, M. M. S., BATISTA, E., DOKUCHAEV, M. and PAQUES, A.;	1
Globalization of twisted partial Hopf actions	1
BATISTA, E.; see ALVES, M. M. S.	1
COOPER, S. and YE, D.; The level 12 analogue of Ramanujan's function k	29
DENG, Q., DING, Y. and YAO, X.; The L^q estimates of Riesz transforms associated to Schrödinger operators	290
DING, Y.; see DENG, Q.	290
DOKUCHAEV, M.; see ALVES, M. M. S.	1
DU, S. and XU, W.; 2-arc-transitive regular covers of $K_{n,n} - nK_2$ having the covering transformation group \mathbb{Z}_p^3	145
EDMUNDS, C. C.; Interchange rings	310
GHAANI FARASHAHI, A.; Abstract harmonic analysis of relative convolutions over canonical homogeneous spaces of semidirect product groups	171
GIUDICI, M. and KUZMA, B.; Realizability problem for commuting graphs	335
GUPTA, V. P. and LUTHRA, P.; Operator system nuclearity via C^* -envelopes	356
HO, M.-H.; Corrigendum to 'On differential characteristic classes'	54
IOFFE, A. D.; Metric regularity—A survey: Part I. Theory	188
IOFFE, A. D.; Metric regularity—A survey: Part II. Applications	376
KEARNES, K. A., KISS, E. W. and SZENDREI, Á.; Growth rates of algebras, I: pointed cube terms	56
KISS, E. W.; see KEARNES, K. A.	56
KUZMA, B.; see GIUDICI, M.	335
LUTHRA, P.; see GUPTA, V. P.	356
MARCHANT, T. R. and WILLIS, G. A.; Editorial	289
MUĆKA, A. and ROMANOWSKA, A. B.; Duality for quasipolytopes	95
PAQUES, A.; see ALVES, M. M. S.	1
RAMEZAN-NASSAB, M.; Group algebras with Engel unit groups	244
RAMOS, Á. K.; The mean curvature equation on semidirect products $\mathbb{R}^2 \rtimes_a \mathbb{R}$: height estimates and Scherk-like graphs	118
ROMANOWSKA, A. B.; see MUĆKA, A.	95
SABAU, S. V. and SHIBUYA, K.; A variational problem for curves on Finsler surfaces	418
SCHMEDING, A. and WOCKEL, C.; Functorial aspects of the reconstruction of Lie groupoids from their bisections	253
SHIBUYA, K.; see SABAU, S. V.	418
SZENDREI, Á.; see KEARNES, K. A.	56
TIKUISIS, A.; Finite-dimensional ordered vector spaces with Riesz interpolation and Effros–Shen's unimodularity conjecture	277
WILLIS, G. A.; see MARCHANT, T. R.	289
WOCKEL, C.; see SCHMEDING, A.	253
XU, W.; see DU, S.	145
YAO, X.; see DENG, Q.	290
YE, D.; see COOPER, S.	29



Cambridge Core

The new home of
Cambridge Journals

cambridge.org/core

Cambridge **Core**



CAMBRIDGE
UNIVERSITY PRESS

JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY

Submission of research papers in all areas of pure mathematics including theoretical contributions in fields such as probability, mathematical physics and mathematical statistics are 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. Articles below ten pages or much above thirty pages will usually not be accepted. In view of the pressure on space, only papers highly rated by assessors can be accepted.

For information on submission of papers, and to submit a paper, see the journal's submission system: <http://mc.manuscriptcentral.com/jaz>.

PREPARATION OF MANUSCRIPTS

1. Papers should be double spaced and have a generous margin. Authors should keep copies of all files.

2. Files must be prepared using \LaTeX or another variant of \TeX , and must not contain definitions of additional commands. A JAustMS style file can be found at: <https://mc.manuscriptcentral.com/jaz>. In the top right corner click on 'Instructions & Forms'. A ScholarOne Manuscripts box will open. Click on LaTeX Style Files and `jaustms.zip` will be sent to your downloads on your computer.

3. Each manuscript should include an abstract of no more than 150 words, preferably containing no formulae, a list of keywords, a 2010 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. Avoid abbreviations such as Thm., Prop., Eq., Ex., iff. In the text do not use the symbols \forall , \exists , \implies and \iff . For more information about our stylistic requirements, see the Journal website accessible through www.austms.org.au.

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

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are registered with the CCC may therefore copy material beyond the limits permitted by sections 107 and 108 of US copyright law subject to payment to CCC of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional and commercial purposes. Code 1446-7887/2016 \$16.00.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge or the American branch of Cambridge University Press.

Published by Cambridge University Press for the Australian Mathematical Publishing Association Incorporated. Printed in the United Kingdom at Bell & Bain Ltd, Glasgow.

© 2016 Australian Mathematical Publishing Association Inc.



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

Table of Contents

Editorial	
<i>Marchant, T. R. & Willis, G. A.</i>	289
The L^q estimates of Riesz transforms associated to Schrödinger operators	
<i>Deng, Q., Ding, Y. & Yao, X.</i>	290
Interchange rings	
<i>Edmunds, C. C.</i>	310
Realizability problem for commuting graphs	
<i>Giudici, M. & Kuzma, B.</i>	335
Operator system nuclearity via C^*-envelopes	
<i>Gupta, V. P. & Luthra, P.</i>	356
Metric regularity—A survey Part II. Applications	
<i>Ioffe, A. D.</i>	376
A variational problem for curves on Finsler surfaces	
<i>Sabau, S. V. & Shibuya, K.</i>	418
Author index	431