

BULLETIN

OF THE

AUSTRALIAN MATHEMATICAL SOCIETY

Volume 68, Number 3
December, 2003

The Australian Mathematical Publishing Assoc. Inc.
Australian National University, ACT 0200, Australia
Printed in Australia by Instant Colour Press
Print Post approved - PP229219/00095

ISSN 0004-9727

THE AUSTRALIAN MATHEMATICAL SOCIETY

President: A.J. Guttman
Department of Mathematics and Statistics,
The University of Melbourne,
Parkville Vic 3010, Australia.

Secretary: E.J. Billington
Department of Mathematics,
The University of Queensland,
Queensland 4072, Australia.

Treasurer: A. Howe
Department of Mathematics,
The Australian National University,
Canberra ACT 0200, Australia

Membership and correspondence.

Applications for membership, notices of change of address or title or position, members' subscriptions and correspondence related to accounts should be sent to the Treasurer. Correspondence about the distribution of the Society's BULLETIN, GAZETTE, and JOURNALS, and orders for back numbers should be sent to the Treasurer. All other correspondence should be sent to the Secretary.

The Bulletin.

The Bulletin of the Australian Mathematical Society began publication in 1969. Normally two volumes of three numbers are published annually. The BULLETIN is published for the Australian Mathematical Society by the Australian Mathematical Publishing Association Inc.

Editor: Alan S. Jones
Deputy Editor: Graeme A. Chandler
Department of Mathematics,
The University of Queensland,
Queensland 4072, Australia.

ASSOCIATE EDITORS

Robert S. Anderssen	Brian A. Davey	N. Joshi	Brailey Sims
R. Bartnik	P. Donovan	G.I. Lehrer	Ross Street
Elizabeth J. Billington	J.R. Giles	K.L. McAvaney	R.P. Sullivan
G. Cairns	J.A. Hempel	A.G.R. McIntosh	H.B. Thompson
J. Clark	B.D. Hughes	Terry Mills	N.S. Trudinger
G.L. Cohen	G. Ivanov	Sidney A. Morris	A.J. van der Poorten
John Cossey	B.R.F. Jefferies	M. Murray	
B.D. Craven	B.D. Jones	J.H. Rubinstein	

©Copyright Statement Where necessary, permission to photocopy for internal or personal use or the internal or personal use of specific clients is granted by the Treasurer, Australian Mathematical Publishing Association, Inc., for libraries and other users registered with the Copyright Clearance Center (CCC), provided that the base fee of \$A2.00 per copy of article is paid directly to CCC, 21 Congress Street, Salem, MA 01970, U.S.A. Special requests should be addressed to the Treasurer, Australian Mathematical Publishing Association, Inc., School of Mathematical Sciences, ANU, Canberra ACT 0200 Australia. Serial-fee code: 0004-9727/03 \$A2.00 + 0.00.

ISSN 0004-9727

BULLETIN

of the

AUSTRALIAN MATHEMATICAL SOCIETY

Editor: Alan S. Jones

Deputy Editor: Graeme A. Chandler

Associate Editors

Robert S. Anderssen	Brian A. Davey	N. Joshi	Brailey Sims
R. Bartnik	P. Donovan	G.I. Lehrer	Ross Street
Elizabeth J. Billington	J.R. Giles	K.L. McAvaney	R.P. Sullivan
G. Cairns	J.A. Hempel	A.G.R. McIntosh	H.B. Thompson
J. Clark	B.D. Hughes	Terry Mills	N.S. Trudinger
G.L. Cohen	G. Ivanov	Sidney A. Morris	A.J. van der Poorten
John Cossey	B.R.F. Jefferies	M. Murray	
B.D. Craven	B.D. Jones	J.H. Rubinstein	

VOLUME 68 (2003)

The Australian Mathematical Publishing Assoc. Inc.
Department of Mathematics, ANU, ACT 0200 Australia

Contents

A. AIZPURU, A. GUTIÉRREZ-DÁVILA AND A. SALA, A Riemann type theorem for series of operators on Banach spaces	13
MAXIM ALSHANSKY, Differential equations in spaces of Hilbert space valued distributions	491
PUDJI ASTUTI AND HARALD K. WIMMER, Stacked submodules of torsion modules over discrete valuation domains	439
ZBIGNIEW BŁOCKI, Interior regularity of the degenerate Monge-Ampère equation	81
A. BALLESTER-BOLINCHES AND TATIANA PEDRAZA, A local approach to a class of locally finite groups	45
A. BALLESTER-BOLINCHES, CLARA CALVO AND R. ESTEBAN-ROMERO, A question from the Kourouka notebook on formation products	461
J.C. BEIDLEMAN AND H. HEINEKEN, On the fitting core of a formation	107
CRINA BOBOC <i>see</i> R. KHAZAL	
MARCIN BORKOWSKI, DARIUSZ BUGAJEWSKI AND HUBERT PRZYBYCIEŃ, Hyperconvex spaces revisited	191
DARIUSZ BUGAJEWSKI <i>see</i> MARCIN BORKOWSKI	
CLARA CALVO <i>see</i> A. BALLESTER-BOLINCHES	
HANLEY CHIANG AND CHI-KWONG LI, Linear maps leaving invariant subsets of nonnegative symmetric matrices	221
ALEKSANDRA ČIŽMEŠIJA, JOSIP PEČARIĆ AND LARS-ERIK PERSSON, On strengthened weighted Carleman's inequality	481
S. DĂSCĂLESCU <i>see</i> R. KHAZAL	
R. ESTEBAN-ROMERO <i>see</i> A. BALLESTER-BOLINCHES	
HAMID-REZA FANAĪ, Sur un type particulier de valeur propre des solvariétés d'Einstein	39
D.G. FITZGERALD, A presentation for the monoid of uniform block permutations	317
M.Z. GARAEV, A note on the least quadratic non-residue of the integer-sequences	1
A. GUTIÉRREZ-DÁVILA <i>see</i> A. AIZPURU	
NGUYEN XUAN HA AND DO VAN LUU, Sufficient conditions for invexity	113
H. HEINEKEN <i>see</i> J.C. BEIDLEMAN	
TAKASHI INABA, Open Engel manifolds admitting compact characteristic leaves	213
CHUN-GANG JI, Sums of three integral squares in cyclotomic fields	101
U. KAUFMAN, Some results on principal eigenvalues for periodic parabolic problems with weight	177
ABDUL KHALIQ AND SONAM KRISHAN, Vector quasi-equilibrium problems	295
AKHTAR A. KHAN AND FABIO RACITI, A multiplier rule in set-valued optimisation	93
R. KHAZAL, CRINA BOBOC AND S. DĂSCĂLESCU, Group gradings of $M_2(K)$	285
SUNG GUEN KIM, Best approximation by polynomials	267
SONAM KRISHAN <i>see</i> ABDUL KHALIQ	
REKHA P. KULKARNI, A superconvergence result for solutions of compact operator equations	517
SANG BUM LEE, n -Prüfer domains	423
GRZEGORZ LEWICKI AND GIULIO TROMBETTA, Almost contractive retractions in Orlicz spaces	353
CHI-KWONG LI <i>see</i> HANLEY CHIANG	
PENGTONG LI AND FANGYAN LU, Elementary operators on I -subspace lattice algebras	395
XIAOLEI LIU <i>see</i> HUAQUAN WEI	
ZENGJIAN LOU, Hardy spaces of exact forms on domains $[A]$	351
ZENGJIAN LOU AND HASI WULAN, Characterisations of Bloch functions in the unit ball of C^n, I	205
JOHN LOXTON <i>see</i> MOHAMAD RUSHDAN MD SAID	
FANGYAN LU <i>see</i> PENGTONG LI	

DO VAN LUU <i>see</i> NGUYEN XUAN HA	
MARTIN MATHIEU, Spectrally bounded traces on C^* -algebras	169
ION MIHAI AND YOSHIHIKO TAZAWA, On 3-dimensional contact slant submanifolds in Sasakian space forms	275
NEŽA MRAMOR-KOSTA AND EVA TRENKLEROVÁ, On basic embeddings of compacta into the plane	471
R. NAIR, On uniformly distributed sequences of integers and Poincaré recurrence III	345
E. NEUMAN, C.E.M. PEARCE, J. PEČARIĆ AND V. ŠIMIĆ, The generalised Hadamard inequality, g convexity and functional Stolarsky means	303
PETER NICKOLAS AND MIKHAIL TKACHENKO, Local compactness in free topological groups	243
DONAL O'REGAN AND NASEER SHAHZAD, Approximation and fixed point theorems for countable condensing composite maps	161
C.E.M. PEARCE <i>see</i> E. NEUMAN	
J. PEČARIĆ <i>see</i> E. NEUMAN	
JOSIP PEČARIĆ <i>see</i> ALEKSANDRA ČIŽMEŠIJA	
TATIANA PEDRAZA <i>see</i> A. BALLESTER-BOLINCHES	
JIANWEN PENG, System of generalised set-valued quasi-variational-like inequalities	501
LARS-ERIK PERSSON <i>see</i> ALEKSANDRA ČIŽMEŠIJA	
W.H. PREVITS AND T.S. WU, Dense orbits and compactness of groups	155
HUBERT PRZYBYCIEŃ <i>see</i> MARCIN BORKOWSKI	
SYLVIA PULMANNOVÁ, Tensor products of divisible effect algebras	127
S.J. QUINN, Directed graphs and combinatorial properties of groups and semigroups [A]	175
FABIO RACITI <i>see</i> AKHTAR A. KHAN	
J. RÄTTYÄ, n -th derivative characterisations, mean growth of derivatives and $F(p, q, s)$	405
VOLKER RUNDE, Connes-amenability and normal, virtual diagonals for measure algebras, II	325
MOHAMAD RUSHDAN MD SAID AND JOHN LOXTON, A cubic analogue of the RSA cryptosystem	21
TAKIS SAKKALIS, Polynomial remainders and plane automorphisms	73
A. SALA <i>see</i> A. AIZPURU	
NASEER SHAHZAD <i>see</i> DONAL O'REGAN	
WEIMIN SHENG AND NEIL S. TRUDINGER, On the affine diameter of closed convex hypersurfaces	431
V. ŠIMIĆ <i>see</i> E. NEUMAN	
S.E. STONEHEWER AND G. ZACHER, Some finite solvable groups with non-trivial lattice endomorphisms	141
YOUNG JIN SUH, Real hypersurfaces in complex two-plane Grassmannians with commuting shape operator	379
R.P. SULLIVAN AND RACHEL THOMAS, Products of three idempotent transformations	57
YOSHIHIKO TAZAWA <i>see</i> ION MIHAI	
K.L. TEO <i>see</i> X.M. YANG	
RACHEL THOMAS <i>see</i> R.P. SULLIVAN	
MIKHAIL TKACHENKO <i>see</i> PETER NICKOLAS	
EVA TRENKLEROVÁ <i>see</i> NEŽA MRAMOR-KOSTA	
GIULIO TROMBETTA <i>see</i> GRZEGORZ LEWICKI	
NEIL S. TRUDINGER <i>see</i> WEIMIN SHENG	
YANMING WANG <i>see</i> HUAQUAN WEI	
BEN WARHURST, Contact and quasiconformal mappings on real filiform groups	329
HUAQUAN WEI, YANMING WANG AND XIAOLEI LIU, Some necessary and sufficient conditions for p -nilpotence of finite groups	371
HARALD K. WIMMER <i>see</i> PUDJI ASTUTI	
T.S. WU <i>see</i> W.H. PREVITS	
HASI WULAN <i>see</i> ZENGJIAN LOU	

CHENGJI XIONG, Compact composition operators on Block spaces	185
X.M. YANG, X.Q. YANG AND K.L. TEO, On properties of semipreinvex functions	449
X.Q. YANG <i>see</i> X.M. YANG	
G. ZACHER <i>see</i> S.E. STONEHEWER	
T. ZAIMI, On numbers which are differences of two conjugates over Q of an algebraic integer	233

[A] Abstracts of Australasian Ph.D. theses