

BULLETIN

OF THE

AUSTRALIAN MATHEMATICAL SOCIETY

**Volume 67, Number 3
June, 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	N.C. Weber
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	N.C. Weber
B.D. Craven	B.D. Jones	J.H. Rubinstein	

VOLUME 67 (2003)

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

Contents

ALIREZA ABDOLLAHI, Certain locally nilpotent varieties of groups	115
RAVI P. AGARWAL, YEOL JE CHO AND DONAL O'REGAN, Homotopy invariant results on complete gauge spaces	241
YOUNG-HO AHN, Coboundary equations of eventually expanding transformations	39
MEHDI ALAEIYAN, Improvement on the bounds of permutation groups with bounded movement	249
JONGSIG BAE AND SUNGYEUN KIM, The uniform law of large numbers for the Kaplan-Meier integral process	459
JONGSIG BAE AND SUNGYEUN KIM, The uniform central limit theorem for the Kaplan-Meier integral process	467
ADRIAN GERARD BARNETT, On the use of the bispectrum to detect and model non-linearity [A]	527
ANTONIO BELTRÁN AND MARÍA JOSÉ FELIPE, Finite groups with two p -regular conjugacy class lengths	163
L. BERNAL-GONZÁLEZ AND M.C. CALDERÓN-MORENO, Erratum: Two hyperbolic Schwarz lemmas	521
J. BONET AND W.J. RICKER, Boolean algebras of projections in (DF)- and (LF)-spaces	297
M.C. CALDERÓN-MORENO <i>see</i> L. BERNAL-GONZÁLEZ	
GEORGE CHAILOS, Structure of the kernels associated with invariant subspaces of the Bergman shift	445
YEOL JE CHO <i>see</i> RAVI P. AGARWAL	
LUIS COLADAS <i>see</i> HONG-BIN DONG	
THOMAS C. CRAVEN AND TARA L. SMITH, Semiororderings and Witt rings	329
TIM DALBY, The effect of the dual on a Banach space and the weak fixed point property	177
S. DHOMPONGSA, P. PIRAISANGJUN AND S. SAEJUNG, Generalised Jordan-von Neumann constants and uniform normal structure	225
HONG-BIN DONG, XUN-HUA GONG, SHOU-YANG WANG AND LUIS COLADAS, S -strictly quasi-concave vector maximisation	429
WEI DONG AND YIHONG DU, Unbounded principal eigenfunctions and the logistic equation on R^N	413
S.S. DRAGOMIR, Sharp bounds of Čebyšev functional for Stieltjes integrals and applications	257
YIHONG DU <i>see</i> WEI DONG	
XUAN THINH DUONG AND LIXIN YAN, Commutators of BMO functions and singular integral operators with non-smooth kernels	187
MINKING EIE AND YAO LIN ONG, On sums of certain trigonometric series	103
MARÍA JOSÉ FELIPE <i>see</i> ANTONIO BELTRÁN	
SERGE GAUTIER AND KARINE PICHARD, On metric regularity in metric spaces	317
XUN-HUA GONG <i>see</i> HONG-BIN DONG	
HUI GUO, Geodesic uniqueness and derivatives of Bers projections	145
WENJING GUO, FANPING ZENG AND QIYING HU, Pointwise chain recurrent maps of the space Y	79
GERD HERZOG AND ROLAND LEMMERT, One-sided estimates for quasimonotone increasing functions	383
MAHMOUD HESAARAKI AND ABBAS MOAMENI, Global existence and comparison theorem for a nonlinear parabolic equation	481
QIYING HU <i>see</i> WENJING GUO	
GERALD L. ITZKOWITZ, SIDNEY A. MORRIS AND VLADIMIR V. TKACHUK, Cardinalities of locally compact groups and their Stone-Čech compactifications	353
A.V. KELAREV, On incidence rings of group automata	407

M.S. KHAN <i>see</i> H.K. PATHAK	
HONG OH KIM, RAE YOUNG KIM AND JAE KUN LIM, Local analysis of frame multiresolution analysis with a general dilation matrix	285
JEONG-SIK KIM <i>see</i> MUKUT MANI TRIPATHI	
RAE YOUNG KIM <i>see</i> HONG OH KIM	
SUNGYEUN KIM <i>see</i> JONGSIG BAE	
KEONHEE LEE, Continuous inverse shadowing and hyperbolicity	15
ROLAND LEMMERT <i>see</i> GERD HERZOG	
YUANLIN LI, On the normaliser problem for G -adapted group rings of torsion groups	171
JAE KUN LIM <i>see</i> HONG OH KIM	
BOJAN MAGAJNA AND ALEKSEJ TURNŠEK, On the norm of symmetrised two-sided multiplications	27
R. MCVINISH, Stochastic analysis and approximation of fractional diffusion [A]	523
ABBAS MOAMENI <i>see</i> MAHMOUD HESAARAKI	
SIDNEY A. MORRIS <i>see</i> GERALD L. ITZKOWITZ	
S. MOUTON, A spectral problem in ordered Banach algebras	131
MURSALEEN, Some geometric properties of a sequence space related to ℓ_p	343
YAO LIN ONG <i>see</i> MINKING EIE	
DONAL O'REGAN <i>see</i> RAVI P. AGARWAL	
CIHAN ÖZGÜR, Submanifolds satisfying curvature conditions imposed on the Weyl tensor	95
H.K. PATHAK AND M.S. KHAN, On D-KKM theorem and its applications	67
JEAN-PAUL PENOT, Autoconjugate functions and representations of monotone operators	277
DOMENICO PERRONE, Harmonic characteristic vector fields on contact metric three-manifolds	305
KARINE PICHARD <i>see</i> SERGE GAUTIER	
FRIEDRICH PILLICHSHAMMER, Weighted discrepancy of Faure-Niederreiter nets for a certain sequence of weights	377
P. PIRAISANGJUN <i>see</i> S. DHOMPONGSA	
ANDREW DANIEL RECHNITZER, Some problems in the counting of lattice animals, polyominoes, polygons and walks [A]	349
SIMEON REICH AND HONG-KUN XU, A Banach space property of Trubnikov	503
W.J. RICKER <i>see</i> J. BONET	
DEREK W. ROBINSON <i>see</i> A.F.M. TER ELST	
S. ROMAGUERA, E.A. SÁNCHEZ PÉREZ AND O. VALERO, Dominated extensions of functionals and V -convex functions on cancellative cones	87
S. SAEJUNG <i>see</i> S. DHOMPONGSA	
E.A. SÁNCHEZ PÉREZ <i>see</i> S. ROMAGUERA	
P. SCHULTZ, A. SEBELDIN AND A.L. SYLLA, Determination of torsion Abelian groups by their automorphism groups	511
A. SEBELDIN <i>see</i> P. SCHULTZ	
GAURAV SINGH, Scheduling with precedence constraints: Worst case analysis of priority algorithms [A]	351
TARA L. SMITH <i>see</i> THOMAS C. CRAVEN	
YOUNG JIN SUH, Real hypersurfaces in complex two-plane Grassmannians with parallel shape operator	493
WENYU SUN <i>see</i> HOCHUN ZHOU	
MASAAKI SUZUKI, Irreducible decomposition of the Magnus representation of the Torelli group	1
A.L. SYLLA <i>see</i> P. SCHULTZ	
A.F.M. TER ELST AND DEREK W. ROBINSON, Gaussian bounds for complex subelliptic operators on Lie groups of polynomial growth	201
A.F.M. TER ELST, Derivatives of kernels associated to complex subelliptic operators	393
VLADIMIR V. TKACHUK <i>see</i> GERALD L. ITZKOWITZ	

MUKUT MANI TRIPATHI AND JEONG-SIK KIM, C -totally real submanifolds in (κ, μ) -contact space forms	51
ALEKSEJ TURNŠEK <i>see</i> BOJAN MAGAJNA	
O. VALERO <i>see</i> S. ROMAGUERA	
SHOU-YANG WANG <i>see</i> HONG-BIN DONG	
C.J.T. WETHERELL, The Wielandt series of metabilian groups	267
K.J. WIRTHS AND J. XIAO, Extreme points in spaces between Dirichlet and VMO	365
J. XIAO <i>see</i> K.J. WIRTHS	
HONG-KUN XU <i>see</i> SIMEON REICH	
LIXIN YAN <i>see</i> XUAN THINH DUONG	
FANPING ZENG <i>see</i> WENJING GUO	
HOUCHUN ZHOU AND WENYU SUN, Optimality and duality without a constraint qualification for minimax programming	121
BIN ZHU, Relative approximations and Maschke functors	219

[A] Abstracts of Australasian Ph.D. theses