BULLETIN ISSN 0004-9727

of the

AUSTRALIAN MATHEMATICAL SOCIETY

Volume 35 Number 3				J	une 1707
Bifurcating attractors and Galerkin approximates					
by R. Wells and J. A. Dutton				2000	321
Extreme positive linear maps between Jordan Banach a	lgebra	as			
by Cho-Ho Chu and Nigel P. H. Jefferies				12/49	349
On projective resolution of identity on the duals of Ban	ach sp	aces			
by M. Fabian	2/4	4.6	474	* *	363
The minimal faithful degree of a fundamental inverse se	emigre	oup			
by D. Easdown	* *	(* *)	***		373
On essential extensions of rings					020
by E. R. Puczylowski	-/-				379
On certain inequalities for some regular functions defin	ed on	the un	it disc		
by Ming-Po Chen and Ih-Ren Lan			414		387
Semigroups of composition operators in Bergman space	es				
by Aristomenis G. Siskakis	* * :		* (*)	•.(•)	397
Lattice coverings and the diagonal group					
by G. Ramharter		***		:::	407
Asymptotic equivalence of ordinary and operator-differ	rentia	equati	ons		Wen in
by P. S. Simeonov and D. D. Bainov			4.4	2.2	415
Homomorphisms of distributive p-algebras with counta	bly ma	any mir	imal p	rime io	ieals
by M. E. Adams, V. Koubek and J. Sichler			14141	* *	427
On the area of planar convex sets containing many lat	tice po	oints			
by P. R. Scott	24.4	*14		* *	441
Extensions of continuous functions: reflective functors					
by W. N. Hunsaker and S. A. Naimpally	5878	* * *	* . *	2.7	455
A note on the space Hp,a of holomorphic functions					,
by H. O. Kim, S. M. Kim and E. G. Kwon	+ 3	3.5	6.6	2.41	471

BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY

Editors: Sheila Oates-Williams Deputy Editor: A. S. Jones

Honorary Editor: B. H. Neumann

Associate Editors

Robert S. Anderssen	P. Donovan	D. C. Hunt	Ross Street
Alan L. Andrew	B. J. Gardner	B. D. Jones	G. Szekeres
E. J. Billington	J. R. Giles	P. E. Kloeden	D. G. Tacon
B. D. Craven	J. R. J. Groves	G. B. Preston	
Brian A. Davey	J. A. Hempel	J. H. Rubinstein	E. U. Tarafdar
Peter G. Dodds	D. A. Holton		Colin J. Thompson
i eter G. Dodds	D. A. Hollon	Leon Simon	A. J. van der Poorten

N. C. Weber

Assistant Editors

K. G. Smith G. A. Chandler

INFORMATION FOR AUTHORS

The BULLETIN of the Australian Mathematical Society aims at quick publication of original research in all branches of mathematics. Timely expository articles are also welcomed.

To ensure speedy publication, editorial decisions on acceptance or otherwise are taken quickly, normally within a month of receipt of the paper. Papers are accepted only after a careful evaluation by the Editor and an Associate Editor or other expert in the field.

As even minor revisions are generally not permitted, authors should read carefully all the details listed below and on the inside back cover.

For a paper to be acceptable for publication, not only should it contain new and interesting results but also

- (i) the exposition should be clear and attractive, and
- (ii) the manuscript should be in publishable form, without revision.

Nevertheless some meritorious papers will have to be rejected because speed of publication involves space limitations.

Authors should submit THREE clean, high quality copies to

The Editor, Bulletin of the Australian Mathematical Society,

Department of Mathematics, University of Queensland,

St. Lucia, Queensland, 4067, Australia

but should not send the original typescript of their papers, as material submitted to the BULLETIN will usually not be returned. Authors should note that each paper submitted must include an abstract and one or more classification numbers following the 1980 Mathematics Subject Classification. (1985 Revision).

Abstracts of PhD Theses

The BULLETIN endeavours to publish abstracts of all accepted Australasian PhD theses in mathematics. One restriction, however, is that the abstract must be received by the Editor within 6 months of the degree being approved.

©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 uses 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., c/- Department of Mathematics, University of Queensland, St. Lucia, Qld., 4067, Australia. Serial-fee code. 0004-9727/87 \$A2.00 + 0.00.

Continued Inside Back Cover

BULLETIN

of the

Australian Mathematical Society

Editor: Sheila Oates-Williams

Deputy Editor: A. S. Jones Honorary Editor: B. H. Neumann

Associate Editors

Robert S. Anderssen	P. Donovan	D. C. Hunt	Ross Street		
Alan L. Andrew	B. J. Gardner	B. D. Jones	G. Szekeres		
E. J. Billington	J. R. Giles	P. E. Kloeden	D. G. Tacon		
B. D. Craven	J. R. J. Groves	G. B. Preston	E. U. Tarafdar		
Brian A. Davey	J. A. Hempel	J. H. Rubinstein	Colin J. Thompson		
Peter G. Dodds	D. A. Holton	Leon Simon	A. J. van der Poorten		
N. C. Weber					

Assistant Editors

K. G. Smith G. A. Chandler

VOLUME 35 (1987)

The University of Queensland Press St Lucia, Queensland, 4067, Australia

Contents

M. E. ADAMS, V. KOUBEK and J. SICHLER, Homomorphisms of distributive p-alg	ebras	with co	ountab	ly
many minimal prime ideals				427
ABDUL AZIZ, Growth of polynomials whose zeros are within or outside a circle D. D. BAINOV, see P. S. SIMEONOV	••	••	• •	247
GERALD BEER, Metric spaces with nice closed balls and distance functions for cl	osed s	sets		81
ALTHA BLANCHET, see HENRY HEATHERLY				
IGOR BRAY, The gravitational lens effect of galaxies and black holes [A]				317
BANG-YEN CHEN and PAOLO PICCINNI, Submanifolds with finite type Gauss ma	p.			161
MING-PO CHEN and IH-REN LAN, On certain inequalities for some regular function	-			
disc				387
SHAOZHU CHEN, Asymptotic linearity of solutions of nonlinear differential equa				257
CHO-HO CHU and NIGEL P. H. JEFFERIES, Extreme positive linear maps bet			Banao	ch
algebras				349
JOHN COSSEY, Finite soluble groups have large centralisers				291
A. G. Das see S. De Sarkar				
S. De Sarkar and A. G. Das, Riemann derivatives and general integrals				187
PHIL DIAMOND, Nonlinear integral operators and chaos in Banach spaces.		••		275
S. J. Dilworth, Isometric results on a measure of non-compactness for operat				
J. A. DUTTON see R. WELLS			spac	
A. G. EARNEST, Exponents of the class groups of imaginary Abelian number fie	elds			231
D. EASDOWN, The minimal faithful degree of a fundamental inverse semigroup				373
M. FABIAN, On projective resolution of identity on the duals of Banach spaces				363
HENRY HEATHERLY and Altha Blanchet, N-th root rings			••	111
W. N. HUNSAKER and Naimpally, Extensions of continuous functions: reflecti				455
NIGEL P. H. JEFFERIES, see CHO-HO CHU		0.015	•	10.
GARY R. JENSEN, MARCO RIGOLI and KICHOON YANG, Holomorphic curves in	the co	molex	anadri	c. 125
V. JEYAKUMAR, Nondifferentiable programming and duality with modified con				309
Bernard John Kachoyan, Stability in finite containers [A]			• •	319
H. S. Kasana, Existence theorem for proximate type of entire functions with in				35
H. O. Kim, S. M. Kim and E. G. Kwon, A note on the space H ^{p,a} of holomorp	_			471
S. M. Kim, see H. O. Kim	ine iu	netions		47
V. Koubek, see M. E. Adams				
E. G. KWON, see H. O. KIM				
I. G. RWON, see M. G. RIM IH-Ren Lan, see Ming-Po Chen				
•	ahe wi	th oum		
MARTIN W. LIEBECK, CHERYL E. PRAEGER and JAN SAXL, Distance transitive gra alternate automorphism group				
5 · · ·	••	••	••	15:
, , , , , , , , , , , , , , , , , , , ,	 a firma	··	••	
RAYMOND MORTINI, Closed and prime ideals in the algebra of bounded analyti				213
BALIGANAHALLI RAJA IYENGAR NAGARAJ, Micro-local analysis of operators				
characteristics [A]	••	••	• •	149
S. A. NAIMPALLY, see W. N. HUNSAKER				
PAOLO PICCINNI, see BANG-YEN CHEN				4.
RENFREY B. POTTS, Weierstrass elliptic difference equations	••	• •	• •	43
CHERYL E. PRAEGER, see MARTIN W. LIEBECK				
E. R. Puczyt owski, On essential extensions of rings	••	• •	••	379
G. RAMHARTER, Lattice coverings and the diagonal group	• •	• •	• •	40
M. RIGOLI, see GARY R. JENSEN				
Jan Saxl, see Martin W. Liebeck				
P. R. Scott, On the area of planar convex sets containing many lattice points	• •			44
J. Sichler see M. E. Adams				

iv Contents

P. S. SIMEONOV and D. D. BAINOV, Asymptotic equivalence of ordinary and oper	ator-d	lifferer	ıtial	
equations				415
ARISTOMENIS G. SISKAKIS, Semigroups of composition operators in Bergman spaces				397
ALICIA STERNA-KARWAT, A note on convex cones in topological vector spaces				97
CHOON PENG TAN, Lower bounds for tau coefficients and operator norms using co	mpos	ite ma	trix	
norms				49
V. THARMARATNAM, Regular topological distributively generated near-rings				59
V. THARMARATNAM, Division of distributively generated near-rings II				73
NEIL S. TRUDINGER, On degenerate fully nonlinear elliptic equations in balls				299
F. VIERA, The generation of water waves by travelling pressure disturbances [A].				315
R. Wells and J. A. Dutton, Bifurcating attractors and Galerkin approximates.				321
J. H. M. WHITFIELD and V. ZIZLER, Mazur's intersection property of balls for compa	act cor	ivex se	ets	267
GEOFFREY P. WHITTLE, Some aspects of the critical problem for matroids [A]				153
DAVID CHARLES WILSON, Structure and existence of Sidon sets on compact groups [A	\]			159
KICHOON YANG, see GARY R. JENSEN				
V 7171EB SOOI H M WHITEIGID				

^{*[}A] Abstract of Ph.D. thesis.