

PROCEEDINGS
OF THE
EDINBURGH MATHEMATICAL SOCIETY

PROCEEDINGS
OF THE
EDINBURGH MATHEMATICAL SOCIETY

EDITED BY

T.S. BLYTH
T. A. GILLESPIE
C.J. SHADDOCK

C. M. CAMPBELL
J. R. HUBBUCK
B. D. SLEEMAN

VOLUME 29 (SERIES II)
1986

SCOTTISH ACADEMIC PRESS

COPYRIGHT © 1986 THE EDINBURGH MATHEMATICAL SOCIETY

**Printed in Great Britain by
Bell and Bain Ltd., Glasgow**

CONTENTS

| | PAGE |
|--|---------------|
| ADAMS, M. E. Maximal subalgebras of Heyting algebras | 359 |
| AHNER, J. F. Some spectral properties of an integral operator in potential theory | 405 |
| ALBERT, M. H. AND LAWRENCE, J. The descending chain condition on solution sets for systems of equations in groups | 69 |
| ARCHBOLD, R. J. AND KUMJIAN, A. Nuclear subalgebras of UHF C^* -algebras | 97 |
| ARMITAGE, D. H. A weighted hyperplane mean associated with harmonic majorization in half-spaces | 75 |
| BOOK REVIEWS | 141, 283, 423 |
| BROWNE, P. J. AND SLEEMAN, B. D. Inverse multiparameter eigenvalue problems for matrices II | 343 |
| BRUCE, J. W. On transversality | 115 |
| CALL, F. W. Epimorphic flat maps | 57 |
| CAMPBELL, C. M. AND THOMAS, R. M. On infinite groups of Fibonacci type | 225 |
| CONSTANDA, C. Existence and uniqueness in the theory of bending of elastic plates | 47 |
| CRABB, M. C. AND SUTHERLAND, W. A. The space of sections of a sphere-bundle I | 383 |
| DE BLASI, F. S. AND MYJAK, J. On the structure of the set of solutions of the Darboux problem for hyperbolic equations | 7 |
| DODSON, M. M., SILVA, A. M. AND SOUCEK, V. A note on Whittaker's cardinal series in harmonic analysis | 349 |
| EDGE, W. L. An aspect of the invariant of degree 4 of the binary quintic | 133 |
| EDJVET, M. On the "largeness" of one-relator groups | 263 |
| FONG, C. K. Diagonals of nilpotent operators | 221 |
| HEGENBARTH, F. The computation of the Hodgkin–Snaith operation in $K_*(Z \times BU, Z/p)$ | 41 |
| HINTON, D. B., MINGARELLI, A. B., READ, T. T. AND SHAW, J. K. On the number of eigenvalues in the spectral gap of a Dirac system | 367 |
| HIREMATH, V. A. Co-absolutely co-pure modules | 289 |
| HONGAN, M. Note on strongly regular near-rings | 379 |
| JÓDAR, L. Boundary problems for Riccati and Lyapunov equations | 15 |
| KHAN, M. S., MORRIS, S. A. AND NICKOLAS, P. Local invariance of free topological groups | 1 |
| KISSIN, E. V. On normed Lie algebras with sufficiently many subalgebras of codimension one | 199 |
| KUMJIAN, A., see ARCHBOLD, R. J. | |

| | |
|--|-----|
| LAMB, W. Fourier multipliers on spaces of distributions | 309 |
| LAWRENCE, J., see ALBERT, M. H. | |
| LIGHT, W. A. A note on proximality in $C(S \times T)$ with the L_1 -norm | 335 |
| LUECKING, D. H. Multipliers of Bergman spaces into Lebesgue spaces | 125 |
| MICALI, A. AND REVOY, P. Sur les algèbres gamétiques | 187 |
| MINGARELLI, A. B., see HINTON, D. B. | |
| MOHAMMED, S. E. A., Stability of linear delay equations under a small noise | 233 |
| MORRIS, S. A., see KHAN, M. S. | |
| MYJAK, J., see DE BLASI, F. S. | |
| NICKOLAS, P., see KHAN, M. S. | |
| OKA, S., Homotopy of the exceptional Lie group G_2 | 145 |
| PILIPOVIĆ, S. An inversion theorem for the Stieltjes transform of distributions | 171 |
| POLYRAKIS, I. A., Strongly exposed points in bases for the positive cone of ordered Banach spaces and characterizations of $l_1(\Gamma)$ | 271 |
| POTTER, A. J. B. Approximation methods and the generalised Fuller index for semi-flows in Banach spaces | 299 |
| RAY, N. On a construction in bordism theory | 413 |
| READ, T. T., see HINTON, D. B. | |
| REVOY, P., see MICALI, A. | |
| SCHMIDT, K. D. Decompositions of vector measures in Riesz spaces and Banach lattices | 23 |
| SHAW, J. K., see HINTON, D. B. | |
| SILVA, A. M., see DODSON, M. M. | |
| SLEEMAN, B. D., see BROWNE, P. J. | |
| SOUCEK, V., see DODSON, M. M. | |
| STADJE, W. On functions with derivative of bounded variation: An analogue of Banach's indicatrix theorem | 61 |
| SUTHERLAND, W. A., see CRABB, M. C. | |
| THOMAS, R. M., see CAMPBELL, C. M. | |
| WALTER, W. On the strong maximum principle for parabolic differential equations | 93 |
| WEHRFRITZ, B. A. F., Locally nilpotent skew linear groups | 101 |
| P. WOJTASZCZYK, P. Two remarks on the Franklin system | 329 |
| WU, P. Y. Approximation by partial isometries | 255 |