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TO
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PROCEEDINGS

VOLUMES 101 TO 110
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1992

PREFACE

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- DIXON, P.G. Factorization and unbounded approximate identities in Banach algebras. 107 (1990) 557-571
- DODDS, P.G., DODDS, T.K. & DE PAGTER, B. Weakly compact subsets of symmetric operator spaces. 110 (1991) 169-182
- DODDS, T.K., DE PAGTER, B. & DODDS, P.G. Weakly compact subsets of symmetric operator spaces. 110 (1991) 169-182
- DODSON, C.T.J. & DEL RIEGO, L. Sprays, universality and stability. 103 (1988) 515-534
- DODSON, M.M., RYNNNE, B.P. & VICKERS, J.A.G. Metric Diophantine approximation and Hausdorff dimension on manifolds. 105 (1989) 547-558
- DOMINGUEZ, E., QUINTERO, A. & AYALA, R. A theoretical framework for proper homotopy theory. 107 (1990) 475-482
- DONALD, M.J. Further results on the relative entropy. 101 (1987) 363-373
- DONEY, R.A. A large deviation local limit theorem. 105 (1989) 575-577
- DOVERMANN, K.H. Rigid cyclic group actions on cohomology complex projective spaces. 101 (1987) 487-507
- DOW, A. & STEPRANS, J. A model in which countable Fréchet α_1 -spaces are first countable. 105 (1989) 473-480
- DOWNNEY, R.G. & CHONG, C.T. Degrees bounding minimal degrees. 105 (1989) 211-222
- DREWNOWSKI, L. Copies of l_∞ in an operator space. 108 (1990) 523-526
- DRURY, S.W. Estimates for a multilinear form on the sphere. 104 (1988) 533-537
- DRURY, S.W. Degenerate curves and harmonic analysis. 108 (1990) 89-96
- DRURY, S.W. & MARSHALL, B.P. Fourier restriction theorems for degenerate curves. 101 (1987) 541-553
- DRURY, S.W. & GUO, K. Convolution estimates related to surfaces of half the ambient dimension. 110 (1991) 151-159
- DUNCAN, A.J. Infinite coverings of ideals by cosets with applications to regular sequences and balanced big Cohen-Macaulay modules. 107 (1990) 443-460
- EARL, J.P. & HAYMAN, W.K. Smooth majorants for functions of arbitrarily rapid growth. 109 (1991) 565-569
- EASTWOOD, V.R. Some recent developments concerning asymptotic distributions of pontograms. 108 (1990) 559-567
- EDJVET, M. On a certain class of group presentations. 105 (1989) 25-35
- EDWARDS, D.A. A note on stochastic integrators. 107 (1990) 395-400
- EDWARDS, S.A. & WALL, C.T.C. Nets of quadrics and deformations of $\Sigma^{3(3)}$ singularities. 105 (1989) 109-115
- EHRlich, P.E. & BEEM, J.K. Geodesic completeness and stability. 102 (1987) 319-328
- EKHAGUERE, G.O.S. Dirichlet forms on partial *-algebras. 104 (1988) 129-140
- EL-MOSALAMY, M.S. & PRIDE, S.J. On $T(6)$ -groups. 102 (1987) 443-451
- ELLIOT, P.D.T.A. Additive arithmetic functions on intervals. 103 (1988) 163-179
- ELLIS, A.J. Isometries of self-adjoint complex function spaces. 105 (1989) 133-138
- ELMENDORF, A.D. Function spectra. 108 (1990) 31-34
- EMMANUELE, G. On the reciprocal Dunford-Pettis property in projective tensor products. 109 (1991) 161-166
- ERNST, C. & SUMNERS, D.W. The growth of the number of prime knots. 102 (1987) 303-315
- ERNST, C. & SUMNERS, D.W. A calculus for rational tangles: applications to DNA recombination. 108 (1990) 489-515
- ESPUELAS, A. On fixed-point-free elements. 103 (1988) 207-211
- ETAYO, J.J. & MARTINEZ, E. Hyperbolic polygons and NEC groups. 104 (1988) 261-272
- EVANS, S.N. Perturbation of functions by the paths of a Lévy process. 105 (1989) 377-380
- EVEREST, G. A 'Hardy-Littlewood' approach to the norm form equation. 104 (1988) 421-447
- FALCONER, K.J. The Hausdorff dimension of self-affine fractals. 103 (1988) 339-350
- FALCONER, K.J. The horizon problem for random surfaces. 109 (1991) 211-219
- FARKAS, D.R. Birational invariants of crystals and fields with a finite group of operators. 107 (1990) 417-424
- FAWCETT, B. & WOOD, R.J. Constructive complete distributivity. I. 107 (1990) 81-89
- FEGAN, H.D. & STEER, B. On the 'strange formula' of Freudenthal and de Vries. 105 (1989) 249-252

- FEIGIN, P.D. & TWEEDIE, R.L. Linear functionals and Markov chains associated with Dirichlet processes. **105** (1989) 579–585
- FENNESSEY, E.J. & PRIDE, S.J. Equivalences of two-complexes, with applications to NEC-groups. **106** (1989) 215–228
- FERNÁNDEZ-ALCOBER, G.A. & VERA-LÓPEZ, A. On p -groups of maximal class. III. **109** (1991) 489–507
- FERRARIO, N. & KÜNZI, H.-P. Bicompleteness of the fine quasi-uniformity. **109** (1991) 167–186
- FILALI, M. The uniform compactification of a locally compact abelian group. **108** (1990) 527–538
- FISHEL, B. The Fourier-Plancherel transform as a spectral representation of a rigged Hilbert space. **101** (1987) 567–573
- FLACH, M. Periods and special values of the hypergeometric series. **106** (1989) 389–401
- FLEGMAN, A.M. The parallel rank of a submanifold of Euclidean space. **106** (1989) 89–93
- FLYNN, E.V. The Jacobian and formal group of a curve of genus 2 over an arbitrary ground field. **107** (1990) 425–441
- FOOTE, R. & MURTY, V.K. Zeros and poles of Artin L -series. **105** (1989) 5–11
- FOUNTAIN, J. Products of idempotent integer matrices. **110** (1991) 431–441
- FOUNTAIN, J. & PETRICH, M. Completely 0-simple semigroups of quotients III. **105** (1989) 263–275
- FREMLIN, D.H. Large correlated families of positive random variables. **103** (1988) 147–162
- FREMLIN, D.H. & KUNEN, K. Essentially unbounded chains in compact sets. **109** (1991) 149–160
- FRIEDMAN, Y. & RUSSO, B. Affine structure of facially symmetric spaces. **106** (1989) 107–124
- FRÖMAN, N., FRÖMAN, P.O. & LUNDBORG, B. The Stokes constants for a cluster of transition points. **104** (1988) 153–179
- FRÖMAN, N., FRÖMAN, P.O. & LUNDBORG, B. Symmetry relations for connection matrices in the phase-integral method. **104** (1988) 181–191
- FRÖMAN, P.O. & LUNDBORG, B. Improvement of the generalized quantal Bohr-Sommerfeld quantization condition. **104** (1988) 581–601
- FRÖMAN, P.O., LUNDBORG, B. & FRÖMAN, N. The Stokes constants for a cluster of transition points. **104** (1988) 153–179
- FRÖMAN, P.O., LUNDBORG, B. & FRÖMAN, N. Symmetry relations for connection matrices in the phase-integral method. **104** (1988) 181–191
- GABARDO, J.-P. Tempered distributions with spectral gaps. **106** (1989) 143–162
- GAFFNEY, T. & MOND, D.M.Q. Weighted homogeneous maps from the plane to the plane. **109** (1991) 451–470
- GALAMBOS, J. & XU, Y. A new method for generating Bonferroni-type inequalities by iteration. **107** (1990) 601–606
- GAMBAUDO, J.M. Periodic orbits and fixed points of a C^1 orientation-preserving embedding of D^2 . **108** (1990) 307–310
- GARDINER, S.J. Fine limits of superharmonic functions. **108** (1990) 381–394
- GARLING, D.J.H. On martingales with values in a complex Banach space. **104** (1988) 399–406
- GARLING, D.J.H. & TOMCZAK-JAEGERMANN, N. RUC-systems and Besselian systems in Banach spaces. **106** (1989) 163–168
- GÁSPÁR, Zs. & TARNAI, T. Covering a sphere by equal circles, and the rigidity of its graph. **110** (1991) 71–89
- GENCHEV, T.G. A weighted version of the Paley-Wiener theorem. **105** (1989) 389–395
- GERONIMO, J.S., HARDIN, D., SHONKWILER, R. & DELIU, A. Dimensions associated with recurrent self-similar sets. **110** (1991) 327–336
- GILCHRIST, M. Non-commutative Noetherian unique factorization domains often have stable range one. **106** (1989) 229–235
- GITLER, S., MICHA, E., PASTOR, G. & ASTEY, L. Characteristic classes invariant under stable fibre homotopy type. **110** (1991) 257–260
- GLENDINNING, P. Subsidiary bifurcations near bifocal homoclinic orbits. **105** (1989) 597–605
- GLENDINNING, R.H. The growth of the expected number of real zeros of a random polynomial with dependent coefficients. **104** (1988) 547–559
- GLENDINNING, P. Topological conjugation of Lorenz maps by β -transformations. **107** (1990) 401–413
- GLOBEVNIK, J. & ARON, R.M. Interpolation by analytic functions on c_0 . **104** (1988) 295–302

- GLOCKNER, P. Quantum stochastic differential equations on \ast -bialgebras. 109 (1991) 571–595
- GLOVER, J.N., MEES, A.I. & CHAPMAN, P.B. The dynamics of the Rikitake dynamo equations from the stiff limit. 108 (1990) 171–191
- GOLDIE, C.M. Records, permutations and greatest convex minorants. 106 (1989) 169–177
- GOLDSTEIN, S. Conditional expectation and stochastic integrals in non-commutative L^p spaces. 110 (1991) 365–383
- GOMES, G.M.S. & HOWIE, J.M. On the ranks of certain finite semigroups of transformations. 101 (1987) 395–403
- GÓMEZ-LARRAÑAGA, J.C., GONZALEZ-ACUÑA, F. & HOSTE, J. Minimal atlases on 3-manifolds. 109 (1991) 105–115
- GONZÁLEZ, C.M., MARTIN, A.G. & MIRA, J.A.C. Structure theory for L^\ast -algebras. 107 (1990) 361–365
- GONZALEZ, M. & ONIEVA, V.M. Lifting results for sequences in Banach spaces. 105 (1989) 117–121
- GONZALEZ-ACUÑA, F., HOSTE, J. & GÓMEZ-LARRAÑAGA, J.C. Minimal atlases on 3-manifolds. 109 (1991) 105–115
- GOOD, I.J. Corrigenda and Addenda: The fractional dimensional theory of continued fractions. 105 (1989) 607
- GOPALSAMY, K. A simple stability criterion for a linear system of neutral integro-differential equations. 102 (1987) 149–162
- GOPALSAMY, K. Corrigenda: On the global attractivity in a generalized delay-logistic differential equation. 102 (1987) 191
- GOPALSAMY, K. & ZHANG, B.G. Global attractivity in the delay logistic equation with variable parameters. 107 (1990) 579–590
- GORDON, C.M.A. & LUECKE, J. Only integral Dehn surgeries can yield reducible manifolds. 102 (1987) 91–101
- GORDON, T.J. Symmetries of generalized Klein-Gordon (including sine-Gordon) equations in three or more dimensions. 101 (1987) 343–348
- GORDON, T.J. Symmetries of generalized Klein-Gordon (including sine-Gordon) equations in two dimensions. 102 (1987) 573–586
- GOULD, V. Completely right pure monoids on which \mathcal{H} is a right congruence. 107 (1990) 275–285
- GOURDEAU, F. Amenability of Banach algebras. 105 (1989) 351–355
- GOW, R. Schur indices and irreducible character degrees in finite soluble groups. 105 (1989) 237–240
- GRAY, B. & RAY, N. Splitting CP^∞ and $B\mathbb{Z}/p^n$ into Thom spectra. 106 (1989) 263–271
- GREY, D.R. Supercritical branching processes with density independent catastrophes. 104 (1988) 413–416
- GRIFFIN, P.S. & MASON, D.M. On the asymptotic normality of self-normalized sums. 109 (1991) 597–610
- GRIFFIN, P.S. & PRUITT, W.E. The central limit problem for trimmed sums. 102 (1987) 329–349
- GROBLER, J.J. & LABUSCHAGNE, C.C.A. The tensor product of Archimedean ordered vector spaces. 104 (1988) 331–345
- GRONE, R. & BERMAN, A. Bipartite completely positive matrices. 103 (1988) 269–276
- GUCKENHEIMER, J. & HOLMES, P. Structurally stable heteroclinic cycles. 103 (1988) 189–192
- GUDMUNDSSON, S. On the geometry of harmonic morphisms. 108 (1990) 461–466
- GUO, K. On the p -approximate property for hypersurfaces of \mathbb{R}^n . 105 (1989) 503–511
- GUO, K. & DRURY, S.W. Convolution estimates related to surfaces of half the ambient dimension. 110 (1991) 151–159
- HAEUSLER, E. & MASON, D.M. Laws of the iterated logarithm for sums of the middle portion of the sample. 101 (1987) 301–312
- HAEUSLER, E., MASON, D.M. & DEHEUVELS, P. Almost sure convergence of the Hill estimator. 104 (1988) 371–381
- HALL, P. & WELSH, A.H. Influence of design on the rate of convergence to normality in L_1 regression. 106 (1989) 355–368
- HALL, R.R. Uniform upper bounds for the complex divisor function. 108 (1990) 421–427
- HALL, R.R. & TENENBAUM, G. Effective mean value estimates for complex multiplicative functions. 110 (1991) 337–351

- HALL, T. Unremovable periodic orbits of homeomorphisms. **110** (1991) 523–531
- HALLENBECK, D.J. & SAMOTIJ, K. Radial variation of analytic functions with non-tangential boundary limits almost everywhere. **108** (1990) 371–379
- HANNABUSS, K.C. KMS states for reduced groups, theta functions and the Powers-Størmer construction. **105** (1989) 397–410
- HARDIN, D., SHONKWILER, R., DELIU, A. & GERONIMO, J.S. Dimensions associated with recurrent self-similar sets. **110** (1991) 327–336
- HARE, K.E. & KLEMES, I. Properties of Littlewood-Paley sets. **105** (1989) 485–494
- HARMAN, G. Metric Diophantine approximation with two restricted variables. I. Two square-free integers, or integers in arithmetic progressions. **103** (1988) 197–206
- HARMAN, G. Short intervals containing numbers without large prime factors. **109** (1991) 1–5
- HARMAN, G. & BAKER, R.C. Sequences with bounded logarithmic discrepancy. **107** (1990) 213–225
- HARRIS, D. & OSTROWSKA-MACIEJEWSKA, J. Three-dimensional constitutive equations for rigid/perfectly plastic granular materials. **108** (1990) 153–169
- HARRIS, J.C. & KUHN, N.J. Stable decompositions of classifying spaces of finite abelian p -groups. **103** (1988) 427–449
- HARTLEY, B. & TURAU, V. Finite soluble groups admitting an automorphism of prime power order with few fixed points. **102** (1987) 431–441
- HARVEY, W.J. & DÍEZ, G.G. On complete curves in moduli space I. **110** (1991) 461–466
- HARVEY, W.J. & DÍEZ, G.G. On complete curves in moduli space II. **110** (1991) 467–472
- HAUCK, P., BEIDLEMAN, J.C. & BREWSTER, B. Fitting functors in finite soluble groups. II. **101** (1987) 37–55
- HAYMAN, W.K. & EARL, J.P. Smooth majorants for functions of arbitrarily rapid growth. **109** (1991) 565–569
- HEATH, P.R. Lifting amalgams and other colimits of monoids. **108** (1990) 21–29
- HEATH, P.R. & BROWN, R. Lifting amalgamated sums and other colimits of groups and topological groups. **102** (1987) 273–280
- HEATH, P.R. & PARMENTER, M.M. Lifting colimits in various categories. **104** (1988) 193–197
- HEATH-BROWN, D.R. Square-full numbers in short intervals. **110** (1991) 1–3
- HEBDA, J. & MOYLAN, P. A topological criterion for group decompositions. **103** (1988) 285–298
- HEINIG, H.P. Fourier operators on weighted Hardy spaces. **101** (1987) 113–121
- HEMPEL, J. One-relator surface groups. **108** (1990) 467–474
- HENNINGS, M.A. Kasparov's technical lemma for b^* -algebras. **105** (1989) 537–545
- HENNINGS, M.A. Power-bounded elements and tauberian theorems in locally convex algebras. **105** (1989) 147–159
- HENNINGS, M.A. A different approach to unbounded operator algebras. **106** (1989) 125–141
- HENNINGS, M.A. Hopf algebras and regular isotopy invariants for link diagrams. **109** (1991) 59–77
- HENRIKSEN, M., KOPPERMAN, R. & SMITH, F.A. Ordered products of topological groups. **102** (1987) 281–295
- HERFORD, W. & RIBES, L. Subgroups of free pro- p -products. **101** (1987) 197–206
- HERNANDEZ, L.J. & PORTER, T. Proper pointed maps from \mathbb{R}^{n+1} to a σ -compact space. **103** (1988) 457–462
- HERNANDEZ, L.J. & PORTER, T. Global analogues of the Brown-Grossman proper homotopy groups of an end. **104** (1988) 483–496
- HEYFRON, P. Some inequalities concerning immanants. **109** (1991) 15–30
- HIGGINS, P.J. & BROWN, R. Crossed complexes and chain complexes with operators. **107** (1990) 33–57
- HIGGINS, P.J. & BROWN, R. The classifying space of a crossed complex. **110** (1991) 95–120
- HIGGS, R.J. Groups with two projective characters. **103** (1988) 5–14
- HIGGS, R.J. Groups which act transitively on the projective characters of a normal subgroup. **104** (1988) 429–434
- HIGGS, R.J. Groups whose projective characters are Galois conjugate. **106** (1989) 193–197
- HILDEBRAND, A. Multiplicative functions at consecutive integers. II. **103** (1988) 389–398
- HILDEN, H.M., LOZANO, M.T. & MONTESINOS, J.M. Non-simple universal knots. **102** (1987) 87–95

- HILL, R. Path sensitivity of material response at intrinsic eigenstates in classical plasticity. 103 (1988) 371-381
- HILTON, A.J.W. & JOHNSON, P.D. Graphs which are vertex-critical with respect to the edge-chromatic number. 102 (1987) 211-221
- HIRSCH, M.D. The complement of a codimension- k immersion. 107 (1990) 103-107
- HOARE, A.H.M. Prgroups and length functions. 104 (1988) 21-30
- HOFFMAN, K.H., WU, T.S. & YANG, J.S. Equidimensional immersions of locally compact groups. 105 (1989) 253-261
- HOFFMAN, P.N. & HUMPHREYS, J.F. Real projective representations of finite groups. 107 (1990) 27-32
- HOLMES, P. & GUCKENHEIMER, J. Structurally stable heteroclinic cycles. 103 (1988) 189-192
- HORVÁTH, L. Limit laws for averages of exponential random variables. 105 (1989) 381-388
- HORVÁTH, L. & CSÖRGŐ, M. Asymptotic distributions of pontograms. 101 (1987) 131-139
- HOSTE, J., GÓMEZ-LARRAÑAGA, J.C. & GONZALEZ-ACUÑA, F. Minimal atlases on 3-manifolds. 109 (1991) 105-115
- HOSTE, J. & PRZYTYCKI, J. Homotopy skein modules of orientable 3-manifolds. 108 (1990) 475-488
- HOWIE, J. A Magnus theorem for $T(6)$ groups. 103 (1988) 1-3
- HOWIE, J. Nonsingular systems of two length three equations over a group. 110 (1991) 11-24
- HOWIE, J.M. & GOMES, G.M.S. On the ranks of certain finite semigroups of transformations. 101 (1987) 395-403
- HOWIE, J.M. & SELFRIDGE, J.L. A semigroup embedding problem and an arithmetical function. 109 (1991) 277-286
- HU, T.-Y. & LAU, K.-S. The sum of Rademacher functions and Hausdorff dimension. 108 (1990) 97-103
- HUCKABA, S. Reduction numbers for ideals of higher analytic spread. 102 (1987) 49-57
- HUCKABA, S. On complete d -sequences and the defining ideals of Rees algebras. 106 (1989) 445-458
- HUDSON, R.L. & LINDSAY, J.M. On characterizing quantum stochastic evolutions. 102 (1987) 363-369
- HUEBSCHMANN, J. Change of rings and characteristic classes. 106 (1989) 29-56
- HUIJMANS, C.B. & BERNAU, S.J. Almost f -algebras and d -algebras. 107 (1990) 287-308
- HUMPHREYS, J.F. & HOFFMAN, P.N. Real projective representations of finite groups. 107 (1990) 27-32
- HUMPHRIES, S.P. & LONG, D.D. On the Mal'cev quotients of certain hyperbolic link groups. 102 (1987) 475-480
- HUNEKE, C. & KOH, J. Cofiniteness and vanishing of local cohomology modules. 110 (1991) 421-429
- HUNTER, D.B. & MACDONALD, I.G. Some sign properties of symmetric functions. 105 (1989) 193-196
- HUNTON, J. The Morava K -theories of wreath products. 107 (1990) 309-318
- IDER, M. & SIDDIQI, J.A. Characterization of inverse-closed Beurling classes. 105 (1989) 495-501
- IDOWU, A.J. & MORRIS, A.O. Some combinatorial results for Weyl groups. 101 (1987) 405-420
- IMPEY, M.D. & RILEY, D.S. On exchanges between convective modes in a slightly tilted cavity. 110 (1991) 395-416
- IMRICH, W. & TURNER, E.C. Endomorphisms of free groups and their fixed points. 105 (1989) 421-422
- INOUE, A. & ANTOINE, J.-P. Representability of invariant positive sesquilinear forms on partial $*$ -algebras. 108 (1990) 337-353
- IOCHUM, B., LOUPIAS, G. & RODRIGUEZ-PALACIOS, A. Commutativity of C^* -algebras and associativity of JB^* -algebras. 106 (1989) 281-290
- ISERLES, A. & SAFF, E.B. Zeros of expansions in orthogonal polynomials. 105 (1989) 559-573
- ISHIGURO, K. Unstable Adams operations on classifying spaces. 102 (1987) 71-75
- ITOH, T. The maximal C^* -norm and the Haagerup norm. 107 (1990) 109-114
- JAEGER, F., VERTIGAN, D.L. & WELSH, D.J.A. On the computational complexity of the Jones and Tutte polynomials. 108 (1990) 35-53
- JAKOBSCHE, W. & REPOVŠ, D. An exotic factor of $S^3 \times \mathbf{R}$. 107 (1990) 329-344

- JEFFERIES, B. Semigroups and diffusion processes. 102 (1987) 139–148
- JOHNSON, F.E.A. & REES, E.G. Kähler groups and rigidity phenomena. 109 (1991) 31–44
- JOHNSON, K.W. & CAMERON, P.B. An investigation of countable B-groups. 102 (1987) 223–231
- JOHNSON, K.W. On the group determinant. 109 (1991) 299–313
- JOHNSON, P.D. & HILTON, A.J.W. Graphs which are vertex-critical with respect to the edge-chromatic number. 102 (1987) 211–221
- JOHNSTONE, P.T. Fibrewise separation axioms for locales. 108 (1990) 247–256
- JOHNSTONE, P.T. & ROBINSON, E.P. A note on inequivalence of realizability toposes. 105 (1989) 1–3
- JÓZEFIAK, T. Schur Q-functions and cohomology of isotropic Grassmannians. 109 (1991) 471–478
- JÓZEFIAK, T. & WEYMAN, J. Representation-theoretic interpretation of a formula of D.E. Littlewood. 103 (1988) 193–196
- JOYCE, G.S. & ZUCKER, I.J. Special values of the hypergeometric series. 109 (1991) 257–261
- JOYCE, G.S. & ZUCKER, I.J. Corrigendum: Special values of the hypergeometric series. 110 (1991) 599
- JURKAT, W.B. & ZWIESLER, H.J. A reduction theory of second order meromorphic differential equations. I. 101 (1987) 323–342
- KAHANE, J.-P. & BLEI, R.C. A computation of the Littlewood exponent of stochastic processes. 103 (1988) 367–370
- KAMADA, S. Orientable surfaces in the 4-sphere associated with non-orientable knotted surfaces. 108 (1990) 299–306
- KANETA, H. Fourier-Laplace transforms decaying exponentially. 103 (1988) 321–322
- KANETA, H. & MARUTA, T. An elementary proof and an extension of Thas' theorem on k -arcs. 105 (1989) 459–462
- KANETA, H. & MARUTA, T. On the uniqueness of $(q+1)$ -arcs of $PG(5,q)$, $q = 2^h$, $h \geq 4$. 110 (1991) 91–94
- KANIUTH E., CAREY, A.L. & MORAN, W. The Pompeiu problem for groups. 109 (1991) 45–58
- KAROŃSKI, M. & RUCIŃSKI, A. Poisson convergence and semi-induced properties of random graphs. 101 (1987) 291–300
- KASSEM, M.S. & ROWLANDS, K. The quasi-strict topology on the space of quasi-multipliers of a B^* -algebra. 101 (1987) 555–566
- KASSEM, M.S. & ROWLANDS, K. Double multipliers and A^* -algebras of the first kind. 102 (1987) 507–516
- KATZ, D. & RATLIFF JR. L.J. Two notes on ideal-transforms. 102 (1987) 389–397
- KELAREV, A.V. On the Jacobson radical of semigroup rings of commutative semigroups. 108 (1990) 429–433
- KENNEDY, J.E. Noisy fluctuating clocks for Markov chains. 110 (1991) 199–205
- KENNEDY, J. & WILLIAMS, D. Probabilistic factorization of a quadratic matrix polynomial. 107 (1990) 591–600
- KESTENBAND, B.C. Partitioning projective planes into arcs. 104 (1988) 435–440
- KHALIL, R. & DEEB, W. Best approximation in $L(X,Y)$. 104 (1988) 527–531
- KIESEL, R. & STADTMÜLLER, U. Tauberian theorems for general power series methods. 110 (1991) 483–490
- KINGMAN, J.F.C. Random dissections and branching processes. 104 (1988) 147–151
- KIRBY, D. Hilbert functions and the extension functor. 105 (1989) 441–446
- KIRK, P.A. Mutations of homology spheres and Casson's invariant. 105 (1989) 313–318
- KLEIDMAN, P.B. & WILSON, R.A. The maximal subgroups of F_{i22} . 102 (1987) 17–23
- KLEIDMAN, P.B. & WILSON, R.A. Corrigendum: The maximal subgroups of F_{i22} . 103 (1988) 383
- KLEMES, I. & HARE, K.E. Properties of Littlewood-Paley sets. 105 (1989) 485–494
- KNOPS, R.J. & PAYNE, L.E. Improved estimates for continuous data dependence in linear elastodynamics. 103 (1988) 535–559
- KO, K.H. A Seifert-matrix interpretation of Cappell and Shaneson's approach to link cobordisms. 106 (1989) 531–545
- KOBAYASHI, T. A criterion for detecting inequivalent tunnels for a knot. 107 (1990) 483–491
- KOCK, A. A Godement theorem for locales. 105 (1989) 463–471

- KOH, J. & HUNEKE, C. Cofiniteness and vanishing of local cohomology modules. 110 (1991) 421-429
- KOMJATH, P. & MILNER, E.C. On representing sets of an almost disjoint family of sets. 101 (1987) 385-393
- KOPPERMAN, R., SMITH, F.A. & HENRIKSEN, M. Ordered products of topological groups. 102 (1987) 281-295
- KORCHMÁROS, G. & MAZZOCCA, F. On $(q+t)$ -arcs of type $(0,2,t)$ in a desarguesian plane of order q . 108 (1990) 445-453
- KORNHAUSER, D.M. On small solutions of the general nonsingular quadratic Diophantine equation in five or more unknowns. 107 (1990) 197-211
- KOSSOWSKI, M. & THOMPSON, G. Submersive second order ordinary differential equations. 110 (1991) 207-224
- KOZŁOWSKI, A. The total Steenrod operation is induced by an A_∞ ring homomorphism. 101 (1987) 469-476
- KOZŁOWSKI, A. Delooping the total Stiefel-Whitney class. 103 (1988) 83-87
- KOZŁOWSKI, A. Characteristic classes of Galois representations. 108 (1990) 517-522
- KRESS, R., ANGELL, T.S. & COLTON, D.L. Far field patterns and inverse scattering problems for imperfectly conducting obstacles. 106 (1989) 553-568
- KŘIŽ, I. Proving a witness lemma in better-quasiordering theory: the method of 'extensions'. 106 (1989) 253-262
- KROPHOLLER, P.H. A note on centrality in 3-manifold groups. 107 (1990) 261-266
- KUCHARZ, W. Framed cobordisms in real algebraic geometry. 101 (1987) 57-60
- KUCHARZ, W. & BOCHNAK, J. K -theory of real algebraic surfaces and threefolds. 106 (1989) 471-480
- KUHN, N.J. & HARRIS, J.C. Stable decompositions of classifying spaces of finite abelian p -groups. 103 (1988) 427-449
- KUNEN, K. Partitioning Euclidean space. 102 (1987) 379-383
- KUNEN, K. & FREMLIN, D.H. Essentially unbounded chains in compact sets. 109 (1991) 149-160
- KUNG, J.P.S. Matchings and Radon transforms in lattices. II. Concordant sets. 101 (1987) 221-231
- KÜNZI, H.P.A. & BRÜMMER, G.C.L. Sobrification and bicompletion of totally bounded quasi-uniform spaces. 101 (1987) 237-247
- KÜNZI, H.-P. & FERRARIO, N. Bicompleteness of the fine quasi-uniformity. 109 (1991) 167-186
- KUPERSCHMIDT, B.A. An algebraic model of graded calculus of variations. 101 (1987) 151-166
- KUTTNER, B. & PARAMESWARAN, M.R. A Tauberian theorem for Borel summability. 102 (1987) 135-138
- KUTTNER, B. & RHOADES, B.E. Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. 105 (1989) 319-333
- KUZUCUOĞLU, M. & PHILLIPS, R.E. Locally finite minimal non- FC -groups. 105 (1989) 417-420
- KWASIK, S. Low-dimensional concordances, Whitney towers and isotopies. 102 (1987) 103-119
- KWASIK, S. & LEE, K.B. Locally linear functions on 3-manifolds. 104 (1988) 253-260
- KWASIK, S. & SCHULTZ, R. Topological pseudofree actions on spheres. 109 (1991) 433-449
- KWEE, B. On a conjecture on Riemann summability (R, k) . 104 (1988) 277-281
- LABUSCHAGNE, C.C.A. & GROBLER, J.J. The tensor product of Archimedean ordered vector spaces. 104 (1988) 331-345
- LAU, K.-S. & HU, T.-Y. The sum of Rademacher functions and Hausdorff dimension. 108 (1990) 97-103
- LE, H.-L. Explicit formulae for polygonally generated shape-densities in the basic tile. 101 (1987) 313-321
- LE, H.-L. Singularities of convex-polygonally generated shape-densities. 102 (1987) 587-596
- LE, H.-L. A stochastic calculus approach to the shape distribution induced by a complex normal model. 109 (1991) 221-228
- LEARY, I.J. The integral cohomology rings of some p -groups. 110 (1991) 25-32
- LEE, K.B. & KWASIK, S. Locally linear functions on 3-manifolds. 104 (1988) 253-260
- LEWIS, P., ABBOTT, C. & BATOR, E. Strictly singular and strictly cosingular operators on spaces of continuous functions. 110 (1991) 505-521

- LEWIS, P., ABBOT, C., BATOR, E. & BILYEU, R. Weak precompactness, strong boundedness, and weak complete continuity. 108 (1990) 325–335
- LICKORISH, W.B.R. Some link-polynomial relations. 105 (1989) 103–107
- LIEBECK, M.W. The classification of finite simple Moufang loops. 102 (1987) 33–47
- LIN, W.H. Some infinite families in the stable homotopy of spheres. 101 (1987) 477–485
- LINDSAY, J.M. & HUDSON, R.L. On characterising quantum stochastic evolutions. 102 (1987) 363–369
- LIPECKI, Z. & ABRAMOVICH, Y.A. On ideals and sublattices in linear lattices and F -lattices. 108 (1990) 79–87
- LITHERLAND, R.A. The Alexander module of a knotted theta-curve. 106 (1989) 95–106
- LITTLE, G. Asymptotic estimates of the eigenvalues of certain positive Fredholm operators. II. 101 (1987) 575–592
- LLOYD, E.K. De Bruijn enumeration applied to some genetical problems. 103 (1988) 277–284
- LLOYD, N.G. Liénard systems with several limit cycles. 102 (1987) 565–572
- LONG, D.D. & HUMPHRIES, S.P. On the the Mal'cev quotients of certain hyperbolic link groups. 102 (1987) 475–480
- LONGOBARDI, P., MAJ, M. & RHEMTULLA, A. Periodic groups with permutable subgroup products. 106 (1989) 431–437
- LORENZ-PETZOLD, D. Non-singular Bianchi type VII_A solution of no-scale supergravity. 105 (1989) 411–415
- LOUPIAS, G., RODRIGUEZ-PALACIOS, A. & IOCHUM, B. Commutativity of C^* -algebras and associativity of JB^* -algebras. 106 (1989) 281–290
- LOZANO, M.T., MONTESINOS, J.M. & HILDEN, H.M. Non-simple universal knots. 102 (1987) 87–95
- LOZANO, M.T. Constructions of arcobodies. 101 (1987) 79–89
- LU, J.-H. A note on a theorem of Stanton-Weinstein on the L^4 -norm of spherical harmonics. 102 (1987) 561–563
- LUBOTZKY, A. & MANN, A. Residually finite groups of finite rank. 106 (1989) 385–388
- LUCZAK, T. The automorphism group of random graphs with a given number of edges. 104 (1988) 441–449
- LUECKE, J. & GORDON, C. MCA. Only integral Dehn surgeries can yield reducible manifolds. 102 (1987) 91–101
- LUFT, E. & SJERVE, D. A torus reduction theorem for regular coverings of 3-manifolds by homology 3-spheres. 109 (1991) 117–124
- LUKAS, M.A. & COCHRAN, J.A. Differentiable positive definite kernels and Lipschitz continuity. 104 (1988) 361–369
- LUNDBORG, B., FRÖMAN, N. & FRÖMAN, P.O. The Stokes constants for a cluster of transition points. 104 (1988) 153–179
- LUNDBORG, B., FRÖMAN, N. & FRÖMAN, P.O. Symmetry relations for connection matrices in the phase-integral method. 104 (1988) 181–191
- LUNDBORG, B. & FRÖMAN, P.O. Improvement of the generalized quantal Bohr-Sommerfeld quantization condition. 104 (1988) 581–601
- LUPTON, G. & ARKOWITZ, M. Loop-theoretic properties of H -spaces. 110 (1991) 121–136
- LYZZAIK, A. On the valence of some classes of harmonic maps. 110 (1991) 313–325
- LYZZAIK, A. & ABU-MUHANNA, Y. A geometric criterion for decomposition and multivalence. 103 (1988) 487–495
- MACDONALD, I.G. & HUNTER, D.B. Some sign properties of symmetric functions. 105 (1989) 193–196
- MACKAY, R.S. A simple proof of Denjoy's theorem. 103 (1988) 299–303
- MACLACHLAN, C. & REID, A.W. Commensurability classes of arithmetic Kleinian groups and their Fuchsian subgroups. 102 (1987) 251–257
- MACPHERSON, D., MEKLER, A.H. & SHELAH, S. The number of infinite substructures. 109 (1991) 193–209
- MADDOX, I.J. Inclusions between FK spaces and Kuttner's theorem. 101 (1987) 523–527
- MADDOX, I.J. Statistical convergence in a locally convex space. 104 (1988) 141–145
- MADDOX, I.J. A Tauberian theorem for statistical convergence. 106 (1989) 277–280
- MAGID, M.A. & ABE, K. Indefinite rigidity of complex submanifolds and maximal surfaces. 106 (1989) 481–494

- MAJ, M., RHEMTULLA, A. & LONGOBARDI, P. Periodic groups with permutable subgroup products. **106** (1989) 431–437
- MANDOUVALOS, N. Scattering operator and Eisenstein integral for Kleinian groups. **108** (1990) 203–217
- MANN, A. & LUBOTZKY, A. Residually finite groups of finite rank. **106** (1989) 385–388
- MARINOSCI, R.A. Generalized pointwise symmetric Riemannian spaces: a classification. **104** (1988) 505–520
- MÁRKI, L. & ÁNH, P.N. Left orders in regular rings with minimum condition for principal one-sided ideals. **109** (1991) 323–333
- MARSHALL, B.P. & DRURY, S.W. Fourier restriction theorems for degenerate curves. **101** (1987) 541–553
- MARTIN, A.G., MIRA, J.A.C. & GONZÁLEZ, C.M. Structure theory for L^* -algebras. **107** (1990) 361–365
- MARTINEZ, E. & ETAYO, J.J. Hyperbolic polygons and NEC groups. **104** (1988) 261–272
- MARTINEZ, J., RODRIGUEZ, A. & CABRERA, M. A note on real H^* -algebras. **105** (1989) 131–132
- MARTINEZ-MORENO, J., RODRIGUEZ-PALACIOS, A. & CABRERA-GARCIA, M. Mal'cev H^* -algebras. **103** (1988) 463–471
- MARUTA, T. & KANETA, H. An elementary proof and an extension of Thas' theorem on k -arcs. **105** (1989) 459–462
- MARUTA, T. & KANETA, H. On the uniqueness of $(q+1)$ -arcs of $PG(5,q)$, $q = 2^h$, $h \geq 4$. **110** (1991) 91–94
- MARUYAMA, K.-I. Localization of self-homotopy equivalences inducing the identity on homology. **108** (1990) 291–297
- MASON, A.W. Free quotients of congruence subgroups of SL_2 over a Dedekind ring of arithmetic type contained in a function field. **101** (1987) 421–429
- MASON, D.M., DEHEUVELS, P. & HAEUSLER, E. Almost sure convergence of the Hill estimator. **104** (1988) 371–381
- MASON, D.M. & GRIFFIN, P.S. On the asymptotic normality of self-normalized sums. **109** (1991) 597–610
- MASON, D.M. & HAEUSLER, E. Laws of the iterated logarithm for sums of the middle portion of the sample. **101** (1987) 301–312
- MAZZOCCA, F. & KORCHMÁROS, G. On $(q+t)$ -arcs of type $(0,2,t)$ in a desarguesian plane of order q . **108** (1990) 445–453
- MCCOOL, J. A faithful polynomial representation of $\text{Out } F_3$. **106** (1989) 207–213
- MCGILL, P. Some eigenvalue identities for Brownian motion. **105** (1989) 587–596
- MCKAY, B.D. On the shape of a random acyclic digraph. **106** (1989) 459–465
- MCMASTER, T.B.M. A non-causal triangle function. **101** (1987) 287–290
- MEES, A.I., CHAPMAN, P.B. & GLOVER, J.N. The dynamics of the Rikitake dynamo equations from the stiff limit. **108** (1990) 171–191
- MEIR, A. & BORWEIN, D. A Tauberian theorem concerning weighted means and power series. **101** (1987) 283–286
- MEKLER, A.H., SHELAH, S. & MACPHERSON, D. The number of infinite substructures. **109** (1991) 193–209
- MELKERSSON, L. On asymptotic stability for sets of prime ideals connected with the powers of an ideal. **107** (1990) 267–271
- MENAL, P. & VÁMOS, P. Pure ring extensions and self FP-injective rings. **105** (1989) 447–458
- MENASCO, W. & THISTLETHWAITE, M. A geometric proof that alternating knots are non-trivial. **109** (1991) 425–431
- MICHA, E., PASTOR, G., ASTEY, L. & GITLER, S. Characteristic classes invariant under stable fibre homotopy type. **110** (1991) 257–260
- MILLER, J.B. The natural ordering on a strictly real Banach algebra. **107** (1990) 539–556
- MILNER, E.C. & KOMJATH, P. On representing sets of an almost disjoint family of sets. **101** (1987) 385–393
- MINAMI, N. Group homomorphisms inducing an isomorphism of a functor. **104** (1988) 81–93
- MINGO, J.A. Completely positive maps which are compact from L^∞ to L^1 . **106** (1989) 313–323
- MIO, W. On boundary link cobordism. **101** (1987) 259–266

- MIRA, J.A.C., GONZÁLEZ, C.M. & MARTIN, A.G. Structure theory for L^* -algebras. 107 (1990) 361-365
- MITCHELL, S.A. & CRABB, M.C. The loops on $U(n)/O(n)$ and $U(2n)/Sp(n)$. 104 (1988) 95-103
- MITCHELL, W.J.R., AYALA, R. & QUINTERO, A. Triangulating and recognising PL homology manifolds. 104 (1988) 497-504
- MOERDIJK, I. Morita equivalence for continuous groups. 103 (1988) 97-115
- MOND, D.M.Q. & GAFFNEY, T. Weighted homogeneous maps from the plane to the plane. 109 (1991) 451-470
- MONTESINOS, J.M., HILDEN, H.M. & LOZANO, M.T. Non-simple universal knots. 102 (1987) 87-95
- MORAN, S. Some free groups of matrices and the Burau representation of B_4 . 110 (1991) 225-228
- MORAN, W., PEARCE, C.E.M. & BROWN, G. Riesz products, Hausdorff dimension and normal numbers. 101 (1987) 529-540
- MORAN, W., KANIUTH, E. & CAREY, A.L. The Pompeiu problem for groups. 109 (1991) 45-58
- MORESCO, R. & ARTICO, G. On the structure of fuzzes. 104 (1988) 235-251
- MÓRICZ, F. & RHOADES, B.E. Almost convergence of double sequences and strong regularity of summability matrices. 104 (1988) 283-294
- MORGAN, J.W., SHALEN, P.B. & BAUMSLAG, G. Generalized triangle groups. 102 (1987) 25-31
- MORITA, S. Families of Jacobian manifolds and characteristic classes of surface bundles. II. 105 (1989) 79-101
- MOROSAWA, S. Limit points for infinitely generated Fuchsian groups. 104 (1988) 539-545
- MORRIS, A.O. & IDOWU, A.J. Some combinatorial results for Weyl groups. 101 (1987) 405-420
- MORRIS, A.O. & SULTANA, N. Hall-Littlewood polynomials at roots of 1 and modular representations of the symmetric group. 110 (1991) 443-453
- MORRIS, S.A. Locally compact topologies on Abelian groups. 101 (1987) 233-235
- MORRIS, S.A. & CLEARY, J. Compact groups and products of the unit interval. 110 (1991) 293-297
- MORTIMER, B. & DIXON, J.D. The primitive permutation groups of degree less than 1000. 103 (1988) 213-238
- MORTON, H.R. & SHORT, H.B. The 2-variable polynomial of cable knots. 101 (1987) 267-278
- MORTON, H.R. & STRICKLAND, P. Jones polynomial invariants for knots and satellites. 109 (1991) 83-103
- MOYLAN, P. & HEBDA, J. A topological criterion for group decompositions. 103 (1988) 285-298
- MÜLLER, G. Deformations of reductive group actions. 106 (1989) 77-88
- MÜLLER, W. The mean square of the Dedekind zeta function in quadratic number fields. 106 (1989) 403-417
- MULVEY, C.J. & PELLETIER, J.W. A geometric characterization concerning compact, convex sets. 109 (1991) 351-361
- MUNN, W.D. The Jacobson radical of a band ring. 105 (1989) 277-283
- MURASUGI, K. Jones polynomials and classical conjectures in knot theory. II. 102 (1987) 317-318
- MURASUGI, K. & PRZYTYCKI, J.H. The skein polynomial of a planar star product of two links. 106 (1989) 273-276
- MURTY, V.K. & FOOTE, R. Zeros and poles of Artin L -series. 105 (1989) 5-11
- NAKAGOSHI, N. On the class number of the l th cyclotomic number field. 109 (1991) 263-276
- NAKAI, M. Continuity of solutions of Schrödinger equations. 110 (1991) 581-597
- NAN, C.-X. & WANG, J.-H. On the LK - UR and the L - kR spaces. 104 (1988) 521-526
- NÉMETHI, A. On the fundamental group of the complement of certain singular plane curves. 102 (1987) 453-457
- NEUMANN, W.D. & REID, A.W. Amalgamation and the invariant trace of a Kleinian group. 109 (1991) 509-515
- NEVILLE, C.W. Flat $C(X)$ -modules and F spaces. 106 (1989) 237-244
- NG, S.-A. & CUTLAND, N. On homogeneous chaos. 110 (1991) 353-363
- NICHOLSON, W.K. & WATTERS, J.F. Morita context functors. 103 (1988) 399-408
- NIEFIELD, S. & ROSENTHAL, K.I. Constructing locales from quantales. 104 (1988) 215-234
- NUSSBAUM, R.D. & COHEN, J.E. Arithmetic-geometric means of positive matrices. 101 (1987) 209-219

- ODONI, R.W.K. & CREMONA, J.E. A generalization of a result of Iwasawa on the capitulation problem. **107** (1990) 1-3
- OEHRING, C. Singular numbers of smooth kernels. **103** (1988) 511-514
- OEHRING, C. Spectral decay for definite kernels and functions. **105** (1989) 161-163
- OEHRING, C. Singular numbers of smooth kernels. II. **105** (1989) 165-167
- OGI, H. On KMS states for self-dual CCR algebras and Bogoliubov automorphism groups. **110** (1991) 191-197
- OJHA, A., SHARMA, A. & DIKSHIT, H.P. Certain mapping properties of rational complex planar splines. **101** (1987) 141-149
- OKADA, S. & OKAZAKI, Y. Injective absolutely summing operators. **103** (1988) 497-502
- OKAZAKI, Y. & OKADA, S. Injective absolutely summing operators. **103** (1988) 497-502
- OKON, J.S. & RATLIFF JR, L.J. Filtrations, closure operations and prime divisors. **104** (1988) 31-46
- OKRASINSKI, W. & BUSHHELL, P.J. Uniqueness of solutions for a class of non-linear Volterra integral equations with convolution kernel. **106** (1989) 547-552
- OKUTOYI, J. & THORPE, B. The spectrum of the Cesàro operator on $c_0(c_0)$. **105** (1989) 123-129
- OLSON, L.D. Parametrized units in algebraic number fields. **103** (1988) 15-25
- ONIEVA, V.M. & GONZALEZ, M. Lifting results for sequences in Banach spaces. **105** (1989) 117-121
- ÖNSIPER, H. On generalized albanese varieties for surfaces. **104** (1988) 1-6
- ÖNSIPER, H. Corrigendum: On generalized albanese varieties for surfaces. **107** (1990) 415-418
- ORMEROD, E.A. Groups of Wielandt length two. **110** (1991) 229-244
- Ó SEARCÓID, M. & WEST, T.T. Continuity of the generalized kernel and range of semi-Fredholm operators. **105** (1989) 513-522
- OSHOBI, E.O. & PYM, J.W. Banach algebras whose duals consist of multipliers. **102** (1987) 481-505
- OSTROWSKA-MACIEJEWSKA, J. & HARRIS, D. Three-dimensional constitutive equations for rigid/perfectly plastic granular materials. **108** (1990) 153-169
- PACKER, J.A. & RAEBURN, I. Twisted crossed products of C^* -algebras. **106** (1989) 293-311
- PÄIVÄRINTA, L. & COLTON, D. Far field patterns and the inverse scattering problem for electromagnetic waves in an inhomogeneous medium. **103** (1988) 561-575
- PAKES, A.G. The Markov branching process with density-independent catastrophes. I. Behaviour of extinction probabilities. **103** (1988) 351-366
- PAKES, A.G. The Markov branching process with density-independent catastrophes. II. The subcritical and critical cases. **106** (1989) 369-383
- PAKES, A. The Markov branching process with density-independent catastrophes. III. The supercritical case. **107** (1990) 177-192
- PALACIOS, A.R. Automatic continuity with application to C^* -algebras. **107** (1990) 345-347
- PANDEY, J.N. & CHAUDHRY, M.A. The Hilbert transform of the Schwartz distributions. II. **102** (1987) 553-559
- PAPADIMA, S. Rational homotopy equivalences of Lie type. **104** (1988) 65-80
- PARAMESWARAN, M.R. & KUTTNER, B. A Tauberian theorem for Borel summability. **102** (1987) 135-138
- PARMENTER, M.M. & HEATH, P.R. Lifting colimits in various categories. **104** (1988) 193-197
- PASEKA, J. Lindelöf locales and N -compactness. **109** (1991) 187-191
- PASEKA, J. Paracompact locales and metric spaces. **110** (1991) 251-256
- PASTOR, G., ASTEY, L., GITLER, S. & MICHA, E. Characteristic classes invariant under stable fibre homotopy type. **110** (1991) 257-260
- PATHAK, R.S. & CARMICHAEL, R.D. Asymptotic behaviour of the H -transform in the complex domain. **102** (1987) 533-552
- PAVONE, M. On the geodesic distance and group actions on trees. **110** (1991) 67-76
- PAYNE, L.E. & KNOPS, R.J. Improved estimates for continuous data dependence in linear elastodynamics. **103** (1988) 535-559
- PEARCE, C.E.M., BROWN, G. & MORAN, W. Riesz products, Hausdorff dimension and normal numbers. **101** (1987) 529-540
- PELCZYNSKI, A. & SZAREK, S.J. On parallelepipeds of a minimal volume containing a convex symmetric body in \mathbb{R}^n . **109** (1991) 125-148

- PELLETIER, J.W. & MULVEY, C.J. A geometric characterization concerning compact, convex sets. 109 (1991) 351-361
- PETERSON, F.P. A -generators for certain polynomial algebras. 105 (1989) 311-312
- PETRICH, M. & FOUNTAIN, J. Completely 0-simple semigroups of quotients III. 105 (1989) 263-275
- PHILLIPS, R.E. & KUZUCUOGLU, M. Locally finite minimal non- FC -groups. 105 (1989) 417-420
- PHOA, W. Relative computability in the effective topos. 106 (1989) 419-422
- PINCH, R.G.E. Elliptic curves with good reduction away from 3. 101 (1987) 451-459
- PINCH, R.G.E. Simultaneous Pellian equations. 103 (1988) 35-46
- PIRAUX, B. & WHELAN, C.T. Some remarks on the calculation of Born partial wave integrals. 101 (1987) 375-381
- PISIER, G. The dual J^* of the James space has coty 2 and the Gordon-Lewis property. 103 (1988) 323-331
- PIZER, A. Hermitian character and the first problem for R.H. Fox for links. 102 (1987) 77-86
- POLYKRAKIS, I.A. Schauder bases in locally solid lattice Banach spaces. 101 (1987) 91-105
- PORTER, T., HERNANDEZ, L.J. Proper pointed maps from \mathbb{R}^{n+1} to a σ -compact space. 103 (1988) 457-462
- PORTER, T. & HERNANDEZ, L.J. Global analogues of the Brown-Grossman proper homotopy groups of an end. 104 (1988) 483-496
- POWELL, W.B. & TSINAKIS, C. The failure of the amalgamation property for representable varieties of l -groups. 106 (1989) 439-443
- POWER, J. & ROBINSON, E. A characterization of pie limits. 110 (1991) 33-47
- POWER, S.C. Spectral characterization of the Wold-Zasuhin decomposition and prediction-error operator. 110 (1991) 559-567
- PRESSLEY, A. & CHARI, V. Unitary representations of the maps $S^1 \rightarrow su(N,1)$. 102 (1987) 259-272
- PRIDE, S.J. & EL-MOSALAMY, M.S. On $T(6)$ -groups. 102 (1987) 443-451
- PRIDE, S.J. & FENNESSEY, E.J. Equivalences of two-complexes, with applications to NEC-groups. 106 (1989) 215-228
- PROLLA, J.B. A generalized Bernstein approximation theorem. 104 (1988) 317-330
- PRUITT, W.E. & GRIFFIN, P.S. The central limit problem for trimmed sums. 102 (1987) 329-349
- PRZYTYCKI, J.H. The t_3, \bar{t}_4 moves conjecture for oriented links with matched diagrams. 108 (1990) 55-61
- PRZYTYCKI, J.H. & MURASUGI, K. The skein polynomial of a planar star product of two links. 106 (1989) 273-276
- PRZYTYCKI, J.H. & HOSTE, J. Homotopy skein modules of orientable 3-manifolds. 108 (1990) 475-488
- PULTR, A. Categories of diametric frames. 105 (1989) 285-297
- PULTR, A. & BANASCHEWSKI, B. Samuel compactification and completion of uniform frames. 108 (1990) 63-78
- PYM, J.W. & OSHOBI, E.O. Banach algebras whose duals consist of multipliers. 102 (1987) 481-505
- QUINTERO, A., MITCHELL, W.J.R. & AYALA, R. Triangulating and recognising PL homology manifolds. 104 (1988) 497-504
- QUINTERO, A., AYALA, R. & DOMINGUEZ, E. A theoretical framework for proper homotopy theory. 107 (1990) 475-482
- RACE, D. Some strong limit 2 and Dirichlet criteria for fourth order differential expressions. 108 (1990) 409-416
- RAEBURN, I. & PACKER, J.A. Twisted crossed products of C^* -algebras. 106 (1989) 293-311
- RAGHAVAN, S. & COOK, R.J. Small independent zeros of quadratic forms. 102 (1987) 5-16
- RATLIFF JR, L.J. & KATZ, D. Two notes on ideal-transforms. 102 (1987) 389-397
- RATLIFF JR, L.J. & OKON, J.S. Filtrations, closure operations and prime divisors. 104 (1988) 31-46
- RATTO, A. On harmonic maps between S^3 and S^2 of prescribed Hopf invariant. 104 (1988) 273-276
- RAWLINS, A.D. A Green's function for diffraction by a rational wedge. 105 (1989) 185-192
- RAY, N. & GRAY, B. Splitting CP^∞ and BZ/p^n into Thom spectra. 106 (1989) 263-271

- RAYNAUD, Y. Extracting almost symmetric sequences in rearrangement invariant spaces. 104 (1988) 303–316
- RAYNAUD, Y. & BASTERO, J. Representing types in Orlicz and Lorentz sequence spaces. 107 (1990) 525–538
- REES, D. Reduction of modules. 101 (1987) 431–449
- REES, E.G. & JOHNSON, F.E.A. Kähler groups and rigidity phenomena. 109 (1991) 31–44
- REID, A.W. & MACLACHLAN, C. Commensurability classes of arithmetic Kleinian groups and their Fuchsian subgroups. 102 (1987) 251–257
- REID, A.W. & NEUMANN, W.D. Amalgamation and the invariant trace of a Kleinian group. 109 (1991) 509–515
- RENNISON, J.F. The quasi-centre of a Banach algebra. 103 (1988) 333–337
- RENNISON, J.F. Closure properties of the quasi-centre of a Banach algebra. 108 (1990) 355–364
- REPOVŠ, D. & JAKOBSCHKE, W. An exotic factor of $S^3 \times \mathbb{R}$. 107 (1990) 329–344
- REZAKHANLOU, F. The packing measure of the graphs and level sets of continuous functions. 104 (1988) 347–360
- RHEMTULLA, A., LONGOBARDI, P. & MAJ, M. Periodic groups with permutable subgroup products. 106 (1989) 431–437
- RHOADES, B.E. & MÓRICZ, F. Almost convergence of double sequences and strong regularity of summability matrices. 104 (1988) 283–294
- RHOADES, B.E. & KUTTNER, B. Absolute Nörlund matrix summability of Fourier series based on inclusion theorems. 105 (1989) 319–333
- RIBES, L. & HERFORT, W. Subgroups of free pro- p -products. 101 (1987) 197–206
- RICHMOND, T.A. Finite-point order compactifications. 102 (1987) 467–473
- RICKARD, J. & SCHOFIELD, A. Cocovers and tilting modules. 106 (1989) 1–5
- RIEGER, J.H. Versal topological stratification and the bifurcation geometry of map-germs of the plane. 107 (1990) 127–147
- RILEY, D.S. & IMPEY, M.D. On exchanges between convective modes in a slightly tilted cavity. 110 (1991) 395–416
- RIPPON, P.J. & BAKER, I.N. Iterating exponential functions with cyclic exponents. 105 (1989) 357–375
- ROBERTSON, A.G. Injective matricial Hilbert spaces. 110 (1991) 183–190
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- RODRIGUEZ-PALACIOS, A., IOCHUM, B. & LOUPIAS, G. Commutativity of C^* -algebras and associativity of JB^* -algebras. 106 (1989) 281–290
- ROE, J. Finite propagation speed and Connes' foliation algebra. 102 (1987) 459–466
- ROERDINK, J.B.T.M. A Markov chain identity and monotonicity of the diffusion constants for a random walk in a heterogeneous environment. 108 (1990) 111–126
- ROSEBRUGH, R. & WOOD, R.J. Constructive complete distributivity II. 110 (1991) 245–249
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- ROWLANDS, K. & KASSEM, M.S. The quasi-strict topology on the space of quasi-multipliers of a B^* -algebra. 101 (1987) 555–566
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- RUBERMAN, D. & COCHRAN, T.D. Invariants of tangles. 105 (1989) 299–306
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- [3] P. T. JOHNSTONE. *Stone Spaces*. Cambridge Studies in Advanced Math. no. 3 (Cambridge University Press, 1982).
- [4] F. W. LAWVERE. Functorial semantics of algebraic theories. Ph.D. thesis, Columbia University (1963).

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