SUBJECT INDEX

$*$-Maximal operator
  L^p-continuity for Calderón–Zygmund operator 191
ρ-Algebras
  Fields and forms on ρ-algebras 57

Absolute retract
  On topological properties of the Hartman–Mycielski functor 477
Absolutely continuous function
  An algebra of absolutely continuous functions and its multipliers 383
Amenability
  Ideal amenability of Banach algebras on locally compact groups 319
Artin's theorem
  On the orders of finite semisimple groups 411
Asset pricing
  Measure free martingales 111
A-statistical convergence
  A-statistical extension of the Korovkin type approximation theorem 499
Asymptotic behaviour
  Large time behaviour of solutions of a system of generalized Burgers equation 509

Banach algebras
  The Socle and finite dimensionality of some Banach algebras 327
  Multipliers of $A_p((0, \infty))$ with order convolution 331
  An algebra of absolutely continuous functions and its multipliers 383
  Topologically left invariant means on semigroup algebras 453
Banach space-valued measurable functions
  Isometric multipliers of $L^p(G, X)$ 103
Beta integrals
  Some properties of complex matrix-variate generalized Dirichlet integrals 241
BMO space
  Some BMO estimates for vector-valued multilinear singular integral operators 167
Boltzmann distribution
  Measure free martingales 111
Burgers equation
  Large time behaviour of solutions of a system of generalized Burgers equation 509

Cesàro–Orlicz sequence space
  Basic topological and geometric properties of Cesàro–Orlicz spaces 461
Character
  A note on generalized characters 437
Characteristic atoms
  L^p-continuity for Calderón–Zygmund operator 191
Combinatorially regular triangulations
  Degree-regular triangulations of torus and Klein bottle 279
Commutative topological algebra
  A note on generalized characters 437
Commutator
  Commutators of integral operators with variable kernels on Hardy spaces 399
Compactly generated LCA group
  A note on generalized characters 437
Complete manifold
  Estimates and nonexistence of solutions of the scalar curvature equation on noncompact manifolds 309
Complex matrix-variate beta random variables
  Some properties of complex matrix-variate generalized Dirichlet integrals 241
Composite maps
  Fixed point theory for composite maps on almost dominating extension spaces 339
Composition of polynomials
  Irreducibility results for compositions of polynomials in several variables 117
Conformal metric
  Estimates and nonexistence of solutions of the scalar curvature equation on noncompact manifolds 309
Connection
  Higher order Hessian structures on manifolds 259
Crosscap slide
  Homeomorphisms and the homology of non-orientable surfaces 251

Curves
Zeta function of the projective curve $aY^{2l} = bX^{2l} + cZ^{2l}$ over a class of finite fields, for odd primes l 1
C–Z operator
L^p-continuity for Calderón–Zygmund operator 191

D-bounded
D-boundedness and D-compactness in finite dimensional probabilistic normed spaces 483
D-compact
D-boundedness and D-compactness in finite dimensional probabilistic normed spaces 483
Decoration
Moduli for decorated tuples of sheaves and representation spaces for quivers 15
Degree-regular triangulations
Degree-regular triangulations of torus and Klein bottle 279
Dehn twist
Homeomorphisms and the homology of non-orientable surfaces 251
Derivation
Ideal amenability of Banach algebras on locally compact groups 319
Dual mixed volumes
Inequalities for dual quermassintegrals of mixed intersection bodies 79

Eigenvalue problem
On two functionals connected to the Laplacian in a class of doubly connected domains in space-forms 93
Equiconnected space
On topological properties of the Hartman–Mycielski functor 477
Erdös–Ginzburg–Ziv theorem
On the structure of p-zero-sum free sequences and its application to a variant of Erdös–Ginzburg–Ziv theorem 67
Explicit formula
Large time behaviour of solutions of a system of generalized Burgers equation 509
Extension spaces
Fixed point theory for composite maps on almost dominating extension spaces 339

Fatou property
Basic topological and geometric properties of Cesàro–Orlicz spaces 461
Finite amplitude motions
The contact angle in inviscid fluid mechanics 227
Finite dimensional
The Socle and finite dimensionality of some Banach algebras 327
Finite dimensional normed space
D-boundedness and D-compactness in finite dimensional probabilistic normed spaces 483
Finite fields
Zeta function of the projective curve $aY^{2l} = bX^{2l} + cZ^{2l}$ over a class of finite fields, for odd primes l 1
Finite semisimple groups
On the orders of finite semisimple groups 411
Fixed determinant
Vector bundles with a fixed determinant on an irreducible nodal curve 445
Fixed point
Topologically left invariant means on semigroup algebras 453
Fixed points
Fixed point theory for composite maps on almost dominating extension spaces 339
Fractional parts
There are infinitely many limit points of the fractional parts of powers 391
Fragmentability of Banach spaces
A note on convex renorming and fragmentability 201
Free surface flows
The contact angle in inviscid fluid mechanics 227
Free topological group
Transversals in non-discrete groups 429
Frölicher–Nijenhuis bracket
Fields and forms on ρ-algebras 57
Function fields
Zeta function of the projective curve $aY^{2l} = bX^{2l} + cZ^{2l}$ over a class of finite fields, for odd primes l 1
Functional central limit theorem
A functional central limit theorem for a class of urn models 493

Gamma integrals
Some properties of complex matrix-variate generalized Dirichlet integrals 241

Gaussian processes
A functional central limit theorem for a class of urn models 493
G-bundles
On Harder–Narasimhan reductions for Higgs principal bundles 127
Gel'fand space
A note on generalized characters 437
Gel'fand transform
Multipliers of $A_p((0, \infty))$ with order convolution 331
Generalized character
A note on generalized characters 437
Geodesic
Higher order Hessian structures on manifolds 259

Haar measure
Isometric multipliers of $L^p(G, X)$ 103
Harder–Narasimhan filtration
On Harder–Narasimhan reductions for Higgs principal bundles 127
Hardy space
Commutators of integral operators with variable kernels on Hardy spaces 399
Hardy–Littlewood maximal operator
L^p-continuity for Calderón–Zygmund operator 191
Hartman–Mycielski construction
On topological properties of the Hartman–Mycielski functor 477
Hessian structure
Higher order Hessian structures on manifolds 259
Higgs bundles
On Harder–Narasimhan reductions for Higgs principal bundles 127
Hilbert cube
On topological properties of the Hartman–Mycielski functor 477
Hilbert space
Transversals in non-discrete groups 429
Hilbert–Schmidt operators
Some necessary and sufficient conditions for Hypercyclicity Criterion 209
Hitchin map
Moduli for decorated tuples of sheaves and representation spaces for quivers 15
Hörmander's symbol
Wavelet characterization of Hörmander symbol class $S^m_{\rho,\delta}$ and applications 347
Hypercyclicity Criterion
Some necessary and sufficient conditions for Hypercyclicity Criterion 209
Hypergeometric series
On the series $\sum_{k=1}^{\infty} \binom{3k}{k}^{-1} k^{-n} x^k$ 371

Ideally amenable
Ideal amenability of Banach algebras on locally compact groups 319
Integral representations
On the series $\sum_{k=1}^{\infty} \binom{3k}{k}^{-1} k^{-n} x^k$ 371
Inverse binomial series
On the series $\sum_{k=1}^{\infty} \binom{3k}{k}^{-1} k^{-n} x^k$ 371
Inviscid contact angle
The contact angle in inviscid fluid mechanics 227
Irreducibility results
Irreducibility results for compositions of polynomials in several variables 117
Isometric multipliers
Isometric multipliers of $L^p(G, X)$ 103

Kernel distribution
Wavelet characterization of Hörmander symbol class $S^m_{\rho,\delta}$ and applications 347
Korovkin theorem
A-statistical extension of the Korovkin type approximation theorem 499

Laplacian
On two functionals connected to the Laplacian in a class of doubly connected domains in space-forms 93
Lebesgue decomposition
New criteria to identify spectrum 217
Limit points
There are infinitely many limit points of the fractional parts of powers 391
Localization
Localization of tight closure in two-dimensional rings 51
Locally compact group
Isometric multipliers of $L^p(G, X)$ 103
The Socle and finite dimensionality of some Banach algebras 327
Locally compact semigroup
Topologically left invariant means on semigroup algebras 453
Luxemburg norm
Basic topological and geometric properties of Cesàro–Orlicz spaces 461

Mapping class groups
Homeomorphisms and the homology of non-orientable surfaces 251
Martingale
Measure free martingales 111
Maximal curves
Zeta function of the projective curve $aY^{2l} = bX^{2l} + cZ^{2l}$ over a class of finite fields, for odd primes l 1
Maximum principles
On two functionals connected to the Laplacian in a class of doubly connected domains in space-forms 93
Metrizable compactum
On topological properties of the Hartman–Mycielski functor 477
Mixed intersection bodies
Inequalities for dual quermassintegrals of mixed intersection 79
Mixed projection bodies
Inequalities for dual quermassintegrals of mixed intersection bodies 79
Moduli space
Moduli for decorated tuples of sheaves and representation spaces for quivers 15
Multiplier
Multipliers of $A_p((0, \infty))$ with order convolution 331
An algebra of absolutely continuous functions and its multipliers 383

Nodal curves
Twisted vector bundles on pointed nodal curves 147
Vector bundles with a fixed determinant on an irreducible nodal curve 445
Non-commutative geometry
Fields and forms on ρ-algebras 57
Non-orientable surfaces
Homeomorphisms and the homology of non-orientable surfaces 251
Normal functor
On topological properties of the Hartman–Mycielski functor 477

Operator's continuity
Wavelet characterization of Hörmander symbol class $S^m_{\rho,\delta}$ and applications 347
Order continuity
Basic topological and geometric properties of Cesàro–Orlicz spaces 461

Polylogarithms
On the series $\sum_{k=1}^{\infty} \binom{3k}{k}^{-1} k^{-n} x^k$ 371
Positive linear operator
A-statistical extension of the Korovkin type approximation theorem 499
Probabilistic normed space
D-boundedness and D-compactness in finite dimensional probabilistic normed spaces 483
PV-numbers
There are infinitely many limit points of the fractional parts of powers 391

Quiver
Moduli for decorated tuples of sheaves and representation spaces for quivers 15

Regular simplicial maps
Degree-regular triangulations of torus and Klein bottle 279
Renorming of Banach spaces
A note on convex renorming and fragmentability 201
Representation
Moduli for decorated tuples of sheaves and representation spaces for quivers 15
Rotundity
Basic topological and geometric properties of Cesàro–Orlicz spaces 461

Salem numbers
There are infinitely many limit points of the fractional parts of powers 391
Scalar curvature equation
Estimates and nonexistence of solutions of the scalar curvature equation on noncompact manifolds 309
Self-adjoint operators
New criteria to identify spectrum 217
Sequences
On the structure of p-zero-sum free sequences and its application to a variant of Erdös–Ginzburg–Ziv theorem 67
Singular and fractional integrals
Commutators of integral operators with variable kernels on Hardy spaces 399
Singular integral operators
Some BMO estimates for vector-valued multilinear singular integral operators 167

Socle
The Socle and finite dimensionality of some Banach algebras 327
Spectral theory
New criteria to identify spectrum 217
Spectral type
New criteria to identify spectrum 217
Split sheaf
Moduli for decorated tuples of sheaves and representation spaces for quivers 15
Strict monotonicity
Basic topological and geometric properties of Cesàro–Orlicz spaces 461
Strong operator topology
Some necessary and sufficient conditions for Hypercyclicity Criterion 209

Test elements
Localization of tight closure in two-dimensional rings 51
Tight closure
Localization of tight closure in two-dimensional rings 51
Topological games
A note on convex renorming and fragmentability 201
Topological transversal
Transversals in non-discrete groups 429
Topologically left invariant mean
Topologically left invariant means on semigroup algebras 453
Torsion-free sheaves
Vector bundles with a fixed determinant on an irreducible nodal curve 445
Transitive actions of compact Lie groups
On the orders of finite semisimple groups 411
Triangulations of 2-manifolds
Degree-regular triangulations of torus and Klein bottle 279
Twisted bundles
Twisted vector bundles on pointed nodal curves 147
Type-2 Dirichlet model
Some properties of complex matrix-variate generalized Dirichlet integrals 241

Uniform monotonicity
Basic topological and geometric properties of Cesàro–Orlicz spaces 461
Urn models
A functional central limit theorem for a class of urn models 493

Variable kernel
Commutators of integral operators with variable kernels on Hardy spaces 399
Vector-valued multilinear operator
Some BMO estimates for vector-valued multilinear singular integral operators 167

Wavelet
Wavelet characterization of Hörmander symbol class $S^m_{\rho,\delta}$ and applications 347
Wavelet transforms
New criteria to identify spectrum 217
Weak amenability
Ideal amenability of Banach algebras on locally compact groups 319
WL^1
L^p-continuity for Calderón–Zygmund operator 191

Zero-free
On the structure of p-zero-sum free sequences and its application to a variant of Erdös–Ginzburg–Ziv theorem 67
Zero-sum problems
On the structure of p-zero-sum free sequences and its application to a variant of Erdös–Ginzburg–Ziv theorem 67
Zeta functions
Zeta function of the projective curve $aY^{2l} = bX^{2l} + cZ^{2l}$ over a class of finite fields, for odd primes l 1