

SUBJECT INDEX

Analytic functions		Continuity	
How to recover an $L$ -series from its values at almost all positive integers. Some remarks on a formula of Ramanujan	121	$C^2$ -rational cubic spline involving tension parameters	305
Arveson		Continuous symmetrization	
A quantum spin system with random interactions I	347	Continuous rearrangement and symmetry of solutions of elliptic problems	157
Asymptotic behaviour		Contour integrals	
Oscillations of first order difference equations	147	How to recover an $L$ -series from its values at almost all positive integers. Some remarks on a formula of Ramanujan	121
Bénard convection		Convexity	
Suppression of instability in rotatory hydro-magnetic convection	335	$C^2$ -rational cubic spline involving tension parameters	305
Betti numbers		Difference equation	
Poincaré polynomial of the moduli spaces of parabolic bundles	233	Oscillations of first order difference equations	147
Biunitarity		Direct heuristic algorithm for linear programming	
Connections for small vertex models	35	A direct heuristic algorithm for linear programming	79
Blaschke manifold		Dirichlet-type integral	
An intrinsic approach to Lichnerowicz conjecture	27	Continuous rearrangement and symmetry of solutions of elliptic problems	157
Blast wave		Disconjugacy	
An approximate solution for spherical and cylindrical piston problem	103	Oscillations of first order difference equations	147
Boolean rings		Dynamic programming principle	
RRF rings which are not LRF	133	Formula for a solution of $u_t + H(u, Du) = g$	393
Bratteli diagrams		Dynamics	
The algebra of $G$ -relations	263	A quantum spin system with random interactions I	347
$C^0$ approximation		Equivalence relations	
Construction of 'Wachspress type' rational basis functions over rectangles	69	The algebra of $G$ -relations	263
Caustic		Evolution	
An asymptotic derivation of weakly non-linear ray theory	431	A quantum spin system with random interactions I	347
Cohomology		Exchangeable probabilities	
Poincaré polynomial of the moduli spaces of parabolic bundles	233	Coin tossing and Laplace inversion	315
Compact rank one symmetric spaces		Expected number of cancerous cells	
An intrinsic approach to Lichnerowicz conjecture	27	Differential equations related to the Williams-Bjerknes tumour model	323
Compatibility conditions		Galilean transformation	
An approximate solution for spherical and cylindrical piston problem	103	Steady-state response of a micropolar generalized thermoelastic half-space to the moving mechanical/thermal loads	449
Completely monotone multisequences		Generalized functions	
Completely monotone multisequences, symmetric probabilities and a normal limit theorem	415	Hyperfinite representation of distributions	363
Conservative matrix			
On $(N, p, q)$ summability factors of infinite series	61		

- Generalized functions (distributions)  
 On the generalized Hankel–Clifford transformation of arbitrary order 293
- Generalized Hankel–Clifford transformation  
 On the generalized Hankel–Clifford transformation of arbitrary order 293
- Generalized thermoelasticity  
 Steady-state response of a micropolar generalized thermoelastic half-space to the moving mechanical/thermal loads 449
- $G$ -relations  
 The algebra of  $G$ -relations 263
- Hamilton–Jacobi equation  
 Formula for a solution of  $u_t + H(u, Du) = g$  393
- Harmonic manifolds  
 An intrinsic approach to Lichnerowicz conjecture 1
- Hydrodynamic instability  
 Suppression of instability in rotatory hydro-magnetic convection 335
- Hydromagnetic instability  
 Suppression of instability in rotatory hydro-magnetic convection 335
- Hyperbolic equations  
 An asymptotic derivation of weakly nonlinear ray theory 431
- Hyperfinite representations  
 Hyperfinite representation of distributions 363
- Hyperfinite sums  
 Sampling and  $\Pi$ -sampling expansions 379
- Independent  
 A quantum spin system with random interactions I 347
- Inequalities  
 Inequalities for a polynomial and its derivative 137
- Injective hulls  
 RRF rings which are not LRF 133
- Integral inequality  
 Continuous rearrangement and symmetry of solutions of elliptic problems 157
- Integrodifferential equation  
 Existence of solutions of nonlinear integrodifferential equations of Sobolev type with nonlocal condition in Banach spaces 225
- Interior-point methods  
 A direct heuristic algorithm for linear programming 79
- Intermediate Jacobian  
 Intermediate Jacobians and Hodge structures of moduli spaces 1
- Interpolation  
 $C^2$ -rational cubic spline involving tension parameters 305
- Interpolation formulas  
 How to recover an  $L$ -series from its values at almost all positive integers. Some remarks on a formula of Ramanujan 121
- Isometry  
 Diameter preserving linear maps and isometries, II 205
- Jacobi differential equation  
 An intrinsic approach to Lichnerowicz conjecture 27
- KKM–Fan lemma  
 On vector equilibrium problem 213
- KMS  
 A quantum spin system with random interactions I 347
- Korovkin theorem  
 Weighted approximation of continuous functions by sequences of linear positive operators 357
- Laplace inversion  
 Coin tossing and Laplace inversion 315
- Left norm continuous  
 Transformation semigroup compactifications and norm continuity of weakly almost periodic functions 55
- $L$ -functions  
 How to recover an  $L$ -series from its values at almost all positive integers. Some remarks on a formula of Ramanujan 121
- Linear preserver problem  
 Diameter preserving linear maps and isometries, II 205
- Mach numbers  
 Steady-state response of a micropolar generalized thermoelastic half-space to the moving mechanical/thermal loads 449
- Mean curvature  
 An intrinsic approach to Lichnerowicz conjecture 27
- Micropolar  
 Steady-state response of a micropolar generalized thermoelastic half-space to the moving mechanical/thermal loads 449
- Mixed Hodge structure  
 Intermediate Jacobians and Hodge structures of moduli spaces 1
- Moduli space  
 Poincaré polynomial of the moduli spaces of parabolic bundles 233
- Moment problem  
 Coin tossing and Laplace inversion 315
- Moment spaces  
 Completely monotone multisequences, symmetric probabilities and a normal limit theorem 415

- Monotonicity  
 $C^2$ -rational cubic spline involving tension parameters 305
- Nice embeddings  
 An intrinsic approach to Lichnerowicz conjecture 27
- Nonlinear wave propagation  
 An asymptotic derivation of weakly nonlinear ray theory 431
- Nonlocal condition  
 Existence of solutions of nonlinear integro-differential equations of Sobolev type with nonlocal condition in Banach spaces 225
- Non-oscillation  
 Oscillations of first order difference equations 147
- Nonstandard analysis  
 Hyperfinite representation of distributions 363  
 Sampling and  $\Pi$ -sampling expansions 379
- Normal limit  
 Completely monotone multisequences, symmetric probabilities and a normal limit theorem 415
- Optimality test  
 A direct heuristic algorithm for linear programming 79
- Oscillation  
 Oscillations of first order difference equations 147
- Oscillatory perturbations  
 Suppression of instability in rotatory hydro-magnetic convection 335
- Parabolic vector bundles  
 Poincaré polynomial of the moduli spaces of parabolic bundles 233
- Parseval relation  
 On the generalized Hankel–Clifford transformation of arbitrary order 293
- $p$ -Inverse  
 A direct heuristic algorithm for linear programming 79
- $P$ -maximum monotonicity  
 On vector equilibrium problem 213
- $P$ -monotone and  $P$ -convex mappings  
 On vector equilibrium problem 213
- Polynomial  
 Inequalities for a polynomial and its derivative 137
- Positive linear operators  
 Weighted approximation of continuous functions by sequences of linear positive operators 357
- Quasi-local  
 A quantum spin system with random interactions I 347
- Random  
 A quantum spin system with random interactions I 347
- Rational basis functions  
 Construction of ‘Wachspres type’ rational basis functions over rectangles 69
- Rational spline  
 $C^2$ -rational cubic spline involving tension parameters 305
- Ray theory  
 An asymptotic derivation of weakly nonlinear ray theory 431
- Residual finiteness  
 RRF rings which are not LRF 133
- Revised simplex algorithm  
 A direct heuristic algorithm for linear programming 79
- Ricci curvature  
 An intrinsic approach to Lichnerowicz conjecture 27
- Sampling expansions  
 Sampling and  $\Pi$ -sampling expansions 379
- Schauder’s fixed point theorem  
 Existence of solutions of nonlinear integro-differential equations of Sobolev type with nonlocal condition in Banach spaces 225
- Schwartz distributions  
 Hyperfinite representation of distributions 363
- Semilinear elliptic problem  
 Continuous rearrangement and symmetry of solutions of elliptic problems 157
- Shock dynamics  
 An approximate solution for spherical and cylindrical piston problem 103
- Simple modules  
 RRF rings which are not LRF 133
- Simplex space  
 Diameter preserving linear maps and isometries, II 205
- Slow rotation  
 Slow rotation of a sphere with source at its centre in a viscous fluid 117
- Sobolev type  
 Existence of solutions of nonlinear integro-differential equations of Sobolev type with nonlocal condition in Banach spaces 225
- Special values  
 How to recover an  $L$ -series from its values at almost all positive integers. Some remarks on a formula of Ramanujan 121

- Spin  
 A quantum spin system with random interactions I 347
- Steady-state response  
 Steady-state response of a micropolar generalized thermoelastic half-space to the moving mechanical/thermal loads 449
- Subfactor  
 Connections for small vertex models 35
- Summability factors  
 On  $(N, p, q)$  summability factors of infinite series 61
- Symmetry of the solution  
 Continuous rearrangement and symmetry of solutions of elliptic problems 157
- System  
 A quantum spin system with random interactions I 347
- Tension parameter  
 $C^2$ -rational cubic spline involving tension parameters 305
- Transformation semigroup  
 Transformation semigroup compactifications and norm continuity of weakly almost periodic functions 55
- Uniformly continuous semigroup  
 Existence of solutions of nonlinear integro-differential equations of Sobolev type with nonlocal condition in Banach spaces 225
- Vector bundle  
 Intermediate Jacobians and Hodge structures of moduli spaces 1
- Vector equilibrium problem  
 On vector equilibrium problem 213
- Vertex model  
 Connections for small vertex models 35
- Viscosity sub and super solutions  
 Formula for a solution of  $u_t + H(u, Du) = g$  393
- Viscous fluid  
 Slow rotation of a sphere with source at its centre in a viscous fluid 117
- Weak shock propagation  
 An approximate solution for spherical and cylindrical piston problem 103
- Weakly almost periodic  
 Transformation semigroup compactifications and norm continuity of weakly almost periodic functions 55
- Weight functions  
 Weighted approximation of continuous functions by sequences of linear positive operators 357
- Weighted spaces  
 Weighted approximation of continuous functions by sequences of linear positive operators 357
- Weil conjectures  
 Poincaré polynomial of the moduli spaces of parabolic bundles 233
- Williams–Bjerknes tumour model  
 Differential equations related to the Williams–Bjerknes tumour model 323
- WKS sampling theorem  
 Sampling and  $\Pi$ -sampling expansions 379
- Zeros  
 Inequalities for a polynomial and its derivative 137