Michael (Mihalis) Papadimitrakis

Curriculum Vitae

Personal

Place and date of birth: Athens, May 13, 1959.

Family: Married to Maria Spiropoulou. With two children, Dimitris and Myrto - Aspasia.

Studies

9/1977 - 6/1981: Undergraduate, Department of Mathematics, University of Athens, Greece.

9/1981 - 3/1987: Graduate, Department of Mathematics, UCLA, Los Angeles, USA.

Doctorate

PhD: Winter 1987, Department of Mathematics, UCLA, Los Angeles, USA.

Thesis advisor: Professor John B. Garnett.

Title of thesis: *On best approximation of continuous functions by bounded holomorphic functions*.

Professional Career

Spring 1987: Lecturer, Department of Mathematics, UCLA, Los Angeles, USA.

9/1987 - 8/1990 : Van Vleck Assistant Professor, Department of Mathematics, University of Wisconsin-Madison, USA.

9/1990 - 6/1992 : Visiting Assistant Professor, Department of Mathematics, Washington University-St. Louis, USA.

9/1992 - 4/1993 : Visiting Assistant Professor, Department of Mathematics, University of Crete, Greece.

5/1993 - 10/1997 : Assistant Professor, Department of Mathematics, University of Crete, Greece.

11/1997 - present: Associate Professor, Department of Mathematics, University of Crete, Greece.

Research Interests

Complex analysis, classical harmonic analysis, Fourier analysis, potential theory, convex bodies.

Teaching Experience

`Lecturing`

Undergraduate courses: trigonometry, linear algebra, advanced linear algebra, calculus, advanced calculus, ordinary differential equations, partial differential equations, stability of ordinary differential equations, complex analysis, group theory, number theory, statistics, optimization theory, functional analysis, Fourier series, theory of sets, real analysis, Galois theory, inequalities, Euclidean geometry, Foundations.

Graduate courses: Fourier series and H^p spaces (at the University of Wisconsin-Madison), classical potential theory, spaces of holomorphic functions and harmonic measure (at Washington University), measure theory, complex analysis, spaces of holomorphic functions, theory of distributions and the Fourier transform, functional analysis, harmonic analysis (at the University of Crete).

`Reading Courses`

Undergraduate reading courses: Fourier series and functional analysis (at the University of Wisconsin-Madison).

Graduate reading courses: complex analysis (three times), optimization theory, Fourier transforms (twice), convex bodies, Fourier series, Fourier transforms and distributions, harmonic analysis (at the University of Crete).

`Class Notes`

Undergraduate courses: Optimization Theory, Complex Analysis, Fourier Series, Inequalities, Linear Algebra II, Calculus I, Analysis I, Analysis II, Number Theory, Classical Analysis, Real Analysis (at the University of Crete).

Graduate courses: Spaces of Holomorphic Functions, Classical Potential Theory (at Washington University), Complex Analysis, Measure Theory, Functional Analysis, Theory of Distributions and the Fourier Transform (at the University of Crete).

Thesis Supervision

`Undergraduate Diploma theses`:

1. *The Prime Number Theorem*, by M. Alevizaki (1999).
2. *The Theorem of Dirichlet about the Distribution of Prime Numbers in Arithmetical Progressions*, by D. Nika (1999).
3. *The Interpolation Theorems of M. Riesz and G. Thorin*, by D. Varsos (2006).
4. *The Interpolating Sequences Theorem of L. Carleson*, by D. Mavridi (2006).
5. *The Theorem of Mergelyan*, by N. Pattakos (2008).

`Master's theses`:

1. *Optimal Young and Brascamp-Lieb Inequalities*, by I. Stefanakis (1998).
2. *The Best Constant in the Hausdorff-Young Inequality*, by I. Parissis (2002).
3. *Historical Roots of the Integral of Stieltjes*, by F. Tsifountidou (2006).
4. *Decay of Circular Means of Fourier Transforms of Measures*, by C. Chatzifountas (2009).
4. *Möbius invariant spaces*, by K. Panteris (2011).

`PhD theses`:

1. *Oscillatory Integrals with Polynomial Phase*, by I. Parissis (2007).

Committee Participation

I have been in various committees of the Department of Mathematics of the University of Crete: Undergraduate Studies Committee, Graduate Committee, Graduate Admissions Committee (four times), Library Commitee, six committees for the election/promotion of regular faculty members, four committees for hiring visitors and in the examining committees of six undergraduate diploma theses, four master's theses and two PhD theses.

Conference organizing

1. I was member of the scientific committee of the international conference "Complex and Harmonic Analysis" held on 25-27 May 2006 in Thessaloniki, Greece.
2. I was member of the organizing committee of the international conference "Harmonic Analysis and Related Problems" held on 19-23 June 2006 in Zaros, Greece.
3. I was member of the organizing committee of the international conference "Complex and Harmonic Analysis 2009" held on 3-5 September 2009 in Archanes, Greece.
4. I was member of the organizing committee of the international workshop "Complex Analysis and Operator Theory" held on 11-16 July 2010 in Thessaloniki, Greece.

Talks

`Mathematics Departments`:

1. University of Tuscaloosa, Alabama, USA (1990).
2. De Paul University, Illinois, USA (1990).
3. Orsay, Paris, France (1991).
4. Kent State University, Ohio, USA (1992).
5. University of Athens, Athens, Greece (1993).
6. Aristotle University, Thessaloniki, Greece (2003).
7. University of Edinburgh, United Kingdom (2004).
8. Aristotle University, Thessaloniki, Greece (2007).
9. University of Malaga, Malaga, Spain (2008).
10. University of Malaga, Malaga, Spain (2009).
11. University of Athens, Athens, Greece (2010).

`Conferences`:

1. Conference in Honor of W. Rudin, Madison, USA (1991).
2. Conference in the Memory of S. Pichorides, Anogia, Greece (1995).
3. Panhellenic Conference on Mathematical Analysis, Anogia, Greece (1996).
4. Second Göteborg Conference on Harmonic Analysis and PDE, Göteborg, Sweden (2001).
5. Workshop on Fourier Analysis and Convexity, Milan, Italy (2001).
6. International two-day Meeting on Complex, Harmonic and Functional Analysis and Applications, Thessaloniki, Greece (2003).
7. 11th Panhellenic Conference on Mathematical Analysis, Thessaloniki, Greece (2006).
8. International Workshop in Complex Analysis and Operator Theory, Thessaloniki, Greece (2010).

9. International Functional Analysis Meeting, Valencia, Spain (2010).
10. International conference "Complex and Harmonic Analysis 2011", Malaga, Spain (2011).

Research projects

1. I was the scientific coordinator of the node in Greece of the INTAS project "Function Spaces and Harmonic Analysis" (June 2000 - Dec. 2002)(Reference number: INTAS 99-01080). Total budget (for the node in Greece): 8863.57 euros.
2. I was the scientist-in-charge of the node in Greece of the "Harmonic Analysis and Related Problems 2002-2006 IHP Network" (July 2002 - July 2006)(Contract number: HPRN-CT-2001-00273-HARP). Total budget (for the node in Greece): 131600.00 euros.
3. I was the scientist-in-charge of the Pythagoras II (Support of Research Groups in the Universities) project "Harmonic Analysis: Geometric Problems and Problems of Classical Spaces of Functions" (Jan. 2005 - Dec. 2007). Total budget: 48145.64 euros.

Publications

1. *Best uniform approximation by bounded analytic functions*. Proc. Amer. Math. Soc. **103** (1988), 882-886.
2. *The Schrödinger-Hill equation* $-\ddot{y}(x) + q(x)y(x) = \mu y(x)$*; on odd potentials* q. Illinois J. Math. **33** (1989), 375-383.
3. *Almost isometric maps of the hyperbolic plane*. (with J. B. Garnett) J. London Math. Soc. **43** (1991), 269-282.
4. *On convexity of level curves of harmonic functions in the hyperbolic plane*. Proc. Amer. Math. Soc. **114** (1992), 695-698.
5. *On the Busemann-Petty problem about convex, centrally symmetric bodies in* $\mathbb{R}^n$. Mathematika **39** (1992), 258-266.
6. *Continuity of the operator of best uniform approximation by bounded analytic functions*. Bull. London Math. Soc. **25** (1993), 44-48.
7. *On best uniform approximation by bounded analytic functions*. Bull. London Math. Soc. **28** (1996), 15-18.
8. *Extensions of a theorem of Marcinkiewicz-Zygmund and of Rogosinski's formula and an application to universal Taylor series*. (with E. S. Katsoprinakis) Proc. Amer. Math. Soc. **127** (1999), 2083-2090.
9. *Isotropic surface area measures*. (with A. Giannopoulos) Mathematika **46** (1999), 1-13.
10. *The Steinhaus tiling problem and the range of certain quadratic forms*. (with M. Kolountzakis) Illinois J. Math. **46** (2002), 947-951.
11. *A class of non-convex polytopes that admit no orthonormal basis of exponentials*. (with M. Kolountzakis) Illinois J. Math. **46** (2002), 1227-1232.
12. *Hausdorff and quasi-Hausdorff matrices on spaces of analytic functions*. (with P. Galanopoulos) Canad. J. Math. **58** (2006), 548-579.
13. *Hankel and Toeplitz transforms on* H^1*: continuity, compactness and Fredholm properties*. (with J. Virtanen) Integral Equations Operator Theory **61** (2008), 573-591.
14. *Singular oscillatory integrals on* $\mathbb{R}^n$. (with I. Parissis) Math. Zeit. **266** (2010), 169-179.
15. *The essential norm of a composition operator on the minimal Möbius invariant space*. (with T. Mitsis) Submitted. Available at arXiv:1005.4935.
16. *Semigroups of composition operators and integral operators in spaces of analytic functions*. (with O. Blasco, M. Contreras, S. Diaz-Madrigal, J. Martinez, A. Siskakis) Submitted.
17. *(Weak) compactness of Hankel operators on BMOA*. Submitted. Available at arXiv:1108.2817.

Citations

`For publ. 1.`

1. J.B. Garnett, *Bounded Analytic Functions*, (Rev. 1st Ed.), Graduate Texts in Mathematics, Springer-Verlag, New York, 2007.
2. P.L. Duren, *Theory of* H^p *Spaces*, Dover Publications, New York, 2000.
3. V.V. Peller, *Hankel Operators and Their Applications*, Springer Monographs in Mathematics, Springer-Verlag, New York, 2003.
4. V.G. Ryabykh, *Approximation of non-analytic functions by analytic ones*, Sb. Math. **197** (2006), 225-233.

`For publ. 3.`

1. A.B. Aleksandrov, J.M. Anderson, A. Nicolau, *Inner functions, Bloch spaces and symmetric measures*, Proc. London Math. Soc. **79** (1999), 318-352.
2. R. Mortini, A. Nicolau, *Frostman shifts of inner functions*, J. Anal. Math. **92** (2004), 285-326.

`For publ. 4.`

1. J.-P. Rosay, W. Rudin, *A maximum principle for sums of subharmonic functions, and the convexity of level sets*, Michigan Math. J. **36** (1989), 95-111.
2. F. Lárasson, P. Lassere, R. Sigurdsson, *Convexity of sublevel sets of plurisubharmonic extremal functions*, Ann. Polon. Math. **68** (1998), 267-273.

`For publ. 5.`

1. B. Ammar, *Déformations d' algébres de Weyl*, C.R. Acad. Sci. Paris **328** (1999), 9-12.
2. F. Barthe, *Autour de l' inégalité de Brunn-Minkowski*, Ann. de la Faculté des Sciences de Toulouse **XII** (2) (2003), 127-178.
3. F. Barthe, M. Fradelizi, B. Maurey, *A short solution to the Busemann-Petty problem*, Positivity **3** (1999), 95-100.
4. J. Bourgain, G. Zhang, *On a generalization of the Busemann-Petty problem*, Convex Geometric Analysis, MSRI Publications **34** (1998), 65-76.
5. S. Campi, *Convex intersection bodies in three and four dimensions*, Mathematika **46** (1999), 15-27.
6. M. Fradelizi, *Contributions a la geometrie des convexes. Methodes fonctionnelles et probabilistes*, Habilitation, Universite Paris - Est Marne-la-Vallee, 2008.
7. R.J. Gardner, *Intersection bodies and the Busemann-Petty problem*, Trans. Amer. Math. Soc. **342** (1994), 435-445.
8. R.J. Gardner, *On the Busemann-Petty problem concerning central sections of centrally symmetric convex bodies*, Bull. Amer. Math. Soc. **30** (1994), 222-226.
9. R.J. Gardner, *A positive answer to the Busemann-Petty problem in 3 dimensions*, Ann. of Math. **140** (1994), 435-447.
10. R.J. Gardner, *Geometric Tomography*, Encyclopedia of Mathematics and its Applications, Vol. 58, Cambridge Univ. Press, New York, 1995.
11. R.J. Gardner, A. Koldobsky, T. Schlumprecht, *An analytic solution to the Busemann-Petty problem*, C.R. Acad. Sci. Paris **328** (1999), 29-34.
12. R.J. Gardner, A. Koldobsky, T. Schlumprecht, *A complete analytic solution to the Busemann-Petty problem*, Ann. of Math. **149** (1999), 691-703.
13. P. Gruber, *Convex and discrete geometry*, Grundlehren der mathematischen Wissenschaften 336, Springer-Verlag, 2007.
14. J-P. Kahane, *Pichorides, Stylianos - 1940-1992*, J. Geom. Anal. **3** (1993), 533-542.
15. D. Klain, *Star measures and dual mixed volumes*, PhD Thesis, MIT, 1994.
16. D. Klain, *If you can hide behind it, can you hide inside it?* Trans. Amer. Math. Soc. (to appear).
17. A. Koldobsky, *Intersection bodies and the Busemann-Petty problem*, C. R. Acad. Sci. Paris **325** (1997), 1181-1186.
18. A. Koldobsky, *Intersection bodies, positive definite distributions and the Busemann-Petty problem*, Amer. J. Math. **120** (1998), 827-840.
19. A. Koldobsky, *Intersection bodies in* $\mathbf{R}^4$, Adv. in Math. **136** (1998), 1-14.
20. A. Koldobsky, *Second derivative test for intersection bodies*, Adv. in Math. **136** (1998), 15-25.
21. A. Koldobsky, *A generalization of the Busemann-Petty problem on sections of convex bodies*, Israel J. Math. **110** (1999), 75-91.
22. A. Koldobsky, *The Busemann-Petty problem via spherical harmonics*, Adv. in Math. **177** (2003), 105-114.
23. A. Koldobsky, *Sections of star bodies and the Fourier transform*, Contemp. Math. **320** (2003), 225-248.
24. A. Koldobsky, *Fourier Analysis in Convex Geometry*, Mathematical Surveys and Monographs, AMS, Vol. 116, 2005.
25. A. Koldobsky, *Stability of volume comparison for complex convex bodies*, Archiv der Math. **97** (2011), 91-98.
26. A. Koldobsky, *Stability in the Busemann-Petty and Shephard problems*, preprint arXiv:1101.3600v1 [math.MG] (2011).
27. A. Koldobsky, *Stability and slicing inequalities for intersection bodies*, preprint arXiv:1108.2631v1 [math.MG] (2011).

28. A. Koldobsky, *A hyperplane inequality for measures of convex bodies in* $\mathbb{R}^n$, $n \leq 4$, Discrete and Comp. Geometry, online publication (2011).
29. A. Koldobsky, H. König, *Aspects of the isometric theory of Banach spaces*, Handbook of the Geometry of Banach spaces, Elsevier Science, Vol. 1 (2001), 899-939.
30. A. Koldobsky, H. König, M. Zymonopoulou, *The complex Busemann-Petty problem on sections of convex bodies*, Adv. Math. **218** (2008), 352-367.
31. A. Koldobsky, D. Ryabogin, A. Zvavitch, *Fourier analytic methods in the study of projections and sections of convex bodies*, Fourier Analysis and Convexity, Birkhäuser (2004), 119-130.
32. A. Koldobsky, V. Yaskin, *The interface between convex geometry and harmonic analysis*, Regional Conference Series in Mathematics, AMS, Vol. 108, 2008.
33. S. Lü, G. Leng, *On the generalized Busemann-Petty problem*, Science in China Series A: Mathematics, SpringerLink **50** (2007), 1103-1116.
34. E. Lutwak, *Selected affine isoperimetric inequalities*, Handbook of Convex Geometry, North-Holland (1993), 151-176.
35. E. Milman, *Generalized intersection bodies*, J. Funct. Anal. **240** (2006), 530-567.
36. E. Milman, *A comment on the low-dimensional Busemann-Petty problem*, Geometric Aspects of Functional Analysis, Lecture Notes in Mathematics **1910** (2007), 244-253.
37. E. Milman, *Generalized intersection bodies are not equivalent*, Adv. Math. **217** (2008), 2822-2840.
38. B. Rubin, *Notes on Radon transforms in integral geometry*, Fract. Calc. Appl. Anal. **6** (2003), 25-72.
39. B. Rubin, *Comparison of volumes of convex bodies in real, complex and quaternionic spaces*, Adv. Math. **225** (2010), 1461-1498.
40. B. Rubin, *The lower dimensional Busemann-Petty problem for bodies with the generalized axial symmetry*, Israel J. Math. **173** (2009), 213-233.
41. B. Rubin, *A positive solution to the generalized Busemann-Petty problem for two- and three-dimensional sections*, preprint.
42. B. Rubin, G. Zhang, *Generalizations of the Busemann-Petty problem for sections of convex bodies*, J. Funct. Anal. **213** (2004), 473-501.
43. D. Ryabogin, A. Zvavitch, *Reconstruction of convex bodies of revolution from the areas of their shadows*, Archiv der Math. **83** (2004), 450-460.
44. F.E. Schuster, *Valuations and Busemann-Petty type problems*, Adv. Math. **219** (2008), 344-368.
45. V. Yaskin, *Applications of the Fourier transform to convex geometry*, PhD thesis, University of Missouri-Columbia, 2006.
46. J. Yuan, W-S. Cheung, *L^p intersection bodies*, J. Math. Anal. Appl. **338** (2008), 1431-1439.
47. G. Zhang, *Intersection bodies and the four-dimensional Busemann-Petty problem*, Duke Math. J. **71** (1993), 233-240.
48. G. Zhang, *Intersection bodies and the Busemann-Petty inequalities in* $\mathbf{R^4}$, Ann. of Math. **140** (1994), 331-346.
49. G. Zhang, *Sections of convex bodies*, Amer. J. Math. **118** (1996), 319-340.
50. G. Zhang, *A positive solution to the Busemann-Petty problem in* $\mathbf{R^4}$, Ann. of Math. **149** (1999), 535-543.
51. C. Zong, *Strange phenomena in convex and discrete geometry*, Universitext, Springer-Verlag, New York, 1996.
52. A. Zvavitch, *Gaussian measure of sections of convex bodies*, Adv. in Math. **188** (2004), 124-136.
53. A. Zvavitch, *The Busemann-Petty problem for arbitrary measures*, Math. Ann. **331** (2005), 867-887.
54. M. Zymonopoulou, *Sections of complex convex bodies*, PhD thesis, University of Missouri-Columbia, 2008.
55. M. Zymonopoulou, *The complex Busemann-Petty problem for arbitrary measures*, Archiv der Math. **91** (2008), 436-449.
56. M. Zymonopoulou, *A note on the Busemann-Petty problem for bodies of certain invariance*, preprint arXiv:0811.1593 (2008).
57. M. Zymonopoulou, *The modified complex Busemann-Petty problem on sections of convex bodies*, Positivity **13** (2009), 717-733.

`For publ. 6.`

1. L. Baratchart, J. Leblond, *Hardy approximation to L^p functions on subsets of the circle with $1 \leq p \leq +\infty$*, Constr. Approx. **14** (1998), 41-56.
2. L. Baratchart, J. Leblond, J.R. Partington, *Hardy approximation to L^p functions on subsets of the circle*, INRIA, Rapport de recherche 2377, 1994.

3. L. Baratchart, J. Leblond, J.R. Partington, *Hardy approximation to L^∞ functions on subsets of the circle*, Constr. Approx. **12** (1996), 423-435.
4. L. Baratchart, J. Leblond, J.R. Partington, *Problems of Adamjan-Arov-Krein type on subsets of the circle and minimal norm extensions*, INRIA, Rapport de recherche 3335, 1998.
5. L. Baratchart, J. Leblond, J.R. Partington, *Problems of Adamjan-Arov-Krein type on subsets of the circle and minimal norm extensions*, Constr. Approx. **16** (2000), 333-357.
6. L. Baratchart, J. Leblond, J.R. Partington, N. Torkhani, *Robust identification in the disc algebra from band-limited data*, INRIA, Rapport de recherche 2488, 1995.
7. L. Baratchart, J. Leblond, J.R. Partington, N. Torkhani, *Robust identification from band-limited data*, IEEE Trans. Aut. Control **42** (1997), 1318-1325.
8. L. Baratchart, F. Mandrea, E.B. Saff, F. Wielonsky, *2-D inverse problems for the Laplacian: a meromorphic approximation approach*, J. Math. Pures et Appl. **86** (2006), 1-41.
9. L. Baratchart, F. Seyfert, *An L^p analog to AAK theory for $p \geq 2$*, J. Funct. Anal. **191** (2002), 52-122.
10. A. Ben Abda, M. Kallel, J. Leblond, J.-P. Marmorat, *Line segment crack recovery from incomplete boundary data*, Inverse Problems **18** (2002), 1057-1077.
11. I. Chalendar, J. Leblond, J.R. Partington, *Approximation problems in some holomorphic spaces, with applications*, Systems Approximation, Singular Integral Operators and Related Topics, Integral Equations and Operator Theory **129** (2001), 143-169.
12. J.R. Partington, *Interpolation, Identification and Sampling*, London Math. Soc. Monographs, New Series 17, Oxford University Press, Oxford, 1997.
13. V.V. Peller, *Boundedness properties of the operators of best approximation by analytic and meromorphic functions*, Ark. Mat. **30** (1992), 331-343.
14. V.V. Peller, *Boundedness properties of the operators of best approximation by analytic and meromorphic functions*, Prépublications, 90 - 24, Univ. de Paris-Sud, Mathématiques.
15. V.V. Peller, *Hereditary properties of solutions of the four block problem*, Indiana Univ. Math. J. **47** (1998), 177-197.
16. V.V. Peller, *An excursion into the theory of Hankel operators*, Holomorphic Spaces, (Berkeley, CA, 1995) 65-120, MSRI Publ. **33**, Cambridge Univ. Press, Cambridge, 1998.
17. V.V. Peller, *Hankel Operators and Their Applications*, Springer Monographs in Mathematics, Springer-Verlag, New York, 2003.
18. V.V. Peller, N.J. Young, *Continuity properties of best analytic approximation*, J. Reine Angew. Math. **483** (1997), 1-22.
19. F. Seyfert, *Problemes extremaux dans les espaces de Hardy. Application a l' identification de filtres huperfrequences a cavites couplees*, PhD thesis, L' Ecole des Mines de Paris, 1998.
20. P.G. Spain, *Tracking poles, representing Hankel operators and the Nehari problem*, Linear Algebra Appl. **224** (1995), 637-694.
21. N. Torkhani, *Robust interpolation and approximation for $A(D)$ functions on subsets of the circle*, INRIA, Rapport de recherche 2778, 1996.

`For publ. 7.`

1. M. Bakonyi, V.G. Kraftal, G. Weiss, H. Woerderman, *Bounds for operator Hilbert-Schmidt norm minimization using entropy*, Indiana Univ. Math. J. **46** (1997), 405-425.
2. V.V. Peller, *Factorization and approximation problems for matrix functions*, J. Amer. Math. Soc. **11** (1998), 751-770.
3. V.V. Peller, *An excursion into the theory of Hankel operators*, Holomorphic Spaces (Berkeley, CA, 1995) 65-120, MSRI Publ. **33**, Cambridge Univ. Press, Cambridge, 1998.
4. V.V. Peller, *Hankel Operators and Their Applications*, Springer Monographs in Mathematics, Springer-Verlag, New York, 2003.

`For publ. 8.`

1. D.H. Armitage, G. Costakis, *Boundary behavior of universal Taylor series and their derivatives*, Constr. Approx. **24** (2006), 1-15.
2. F. Bayart, *Boundary behavior and Cesaro means of universal taylor series*, Rev. Mat. Complut. **19** (2006), 235-247.
3. G. Costakis, *Some remarks on universal functions and Taylor series*, Math. Proc. Cambridge Philos. Soc. **128** (2000), 157-175.
4. G. Costakis, *On the radial behavior of universal Taylor series*, Monat. für Math. **145** (2005), 11-17.
5. K.-G. Grosse-Erdmann, *Universal families and hypercyclic operators: a bibliography*, Bull. Amer. Math. Soc. **36** (1999), 345-381.

6. E. Katsoprinakis, *Coincidence of some classes of universal functions*, Rev. Mat. Complut. **22** (2009), 427-445.
7. A.D. Melas, *On the growth of universal functions*, J. Anal. Math. **82** (2000), 1-20.
8. A.D. Melas, V. Nestoridis, *Universality of Taylor series as a generic property of holomorphic functions*, Adv. in Math. **157** (2001), 138-176.
9. A.D. Melas, V. Nestoridis, I. Papadoperakis, *Growth of coefficients of universal Taylor series and comparison of two classes of functions*, J. Anal. Math. **73** (1997), 187-202.
10. A. Mouze, *Quelques propriétés analytiques locales et universelles des séries de Taylor et de Dirichlet*, Habilitation thesis, Université de Lille, (2009).
11. A. Mouze, *Universality and summability of Dirichlet series*, Complex Var. Elliptic Eq. **54** (2009), 57-70.
12. V. Nestoridis, *A strong notion of universal Taylor series*, J. London Math. Soc. **68** (2003), 712-724.
13. V. Nestoridis, *Non extendable holomorphic functions*, Math. Proc. Cambridge Phil. Soc. **139** (2005), 351-360.
14. V. Nestoridis, C. Papachristodoulos, *Universal Taylor series on arbitrary planar domains*, C. R. Math. **347** (2009), 363-367.
15. N. Tsirivas, *Boundedness, regularity and smoothness of universal Taylor series*, Archiv der Math. **87** (2006), 427-435.

For publ. 9.

1. K.M. Ball, *Convex Geometry and Functional Analysis*, Handbook of the Geometry of Banach spaces, Elsevier Science, Vol. 1 (2001), 161-194.
2. F. Barthe, *A continuous version of the Brascamp-Lieb inequalities*, Geometric Aspects of Functional Analysis, Lecture notes in Mathematics **1850** (2004), 53-63.
3. J. Bastero, M. Romance, *Dual mixed volumes, isotropic measures and reverse dual isoperimetric inequalities for convex bodies*, Pre-publicationes del Seminario Matematico, Universidad de Zaragoza, (2002).
4. J. Bastero, J. Bernues, M. Romance, *Dual quermassintegrals, extremal positions and isotropic measures*, Pre-publicationes del Seminario Matematico, Universidad de Zaragoza, (2005).
5. J. Bastero, M. Romance, *Positions of convex bodies associated to extremal problems and isotropic measures*, Adv. in Math. **184** (2004), 64-88.
6. A. Colesanti, D. Hug, *Hessian measures of semi-convex functions and applications to support measures of convex bodies*, Manuscripta Math. **101** (2000), 209-238.
7. M. Fradelizi, *Hyperplane sections of convex bodies in isotropic position*, Contrib. Alg. Geom. **40** (1999), 163-183.
8. A. Giannopoulos, V. Milman, *Extremal problems and isotropic positions of convex bodies*, Israel J. Math. **117** (2000), 29-60.
9. A. Giannopoulos, V. Milman, *Euclidean structure in finite dimensional normed spaces*, Handbook of the Geometry of Banach Spaces, Elsevier Science, Vol. 1 (2001), 707-779.
10. A. Giannopoulos, V. Milman, *Asymptotic convex geometry: a short overview*, Different Faces of Geometry, International Math. Series, Kluwer, Vol. 3 (2004), 87-162.
11. A. Giannopoulos, V. Milman, M. Rudelson, *Convex bodies of minimal mean width*, Geometric Aspects of Functional Analysis, Lecture Notes in Mathematics **1745** (2000), 81-93.
12. P. Gruber, *Application of an idea of Voronoi to John type problems*, Adv. in Math. **218** (2008), 309-351.
13. M. Ludwig, *Projection bodies and valuations*, Adv. in Math. **172** (2002), 158-168.
14. M. Ludwig, *Valuations in the affine geometry of convex bodies*, Integral Geometry and Convexity, Proc. of the International Conference (2006), 49-66.
15. E. Lutwak, D. Yang, G. Zhang, *A new ellipsoid associated with convex bodies*, Duke Math. J. **104** (2000), 375-390.
16. E. Lutwak, D. Yang, G. Zhang, *A new affine invariant for polytopes and Schneider's projection problem*, Trans. Amer. Math. Soc. **353** (2001), 1767-1779.
17. E. Lutwak, D. Yang, G. Zhang, *Volume inequalities for subspaces of L_p*, J. Differential Geom. **68** (2004), 159-184.
18. E. Lutwak, D. Yang, G. Zhang, *L^p John ellipsoids*, Proc. London Math. Soc.(3) **90** (2005), 497-520.
19. E. Lutwak, D. Yang, G. Zhang, *A volume inequality for polar bodies*, J. Diff. Geom. **84** (2010), 163-178.
20. G. Maresch, F. Schuster, *The sine transform of isotropic measures*, Int. Math. Res. Notices, online publication (2011).

21. E. Markessinis, G. Paouris, Ch. Saroglou, *Comparing the M-position with some classical positions of convex bodies*, preprint.
22. V.D. Milman, *Randomness and Pattern in Convex Geometric Analysis*, Volume of the International Congress of Mathematicians, Berlin, 1998.
23. G. Paouris, *Ψ_2-estimates for linear functionals on zonoids*, Geometric Aspects of Functional Analysis, Lecture Notes in Mathematics **1807** (2003), 211-222.
24. W. Yu, *Isotropic dual p-surface area measure*, J. of Shanghai Univ. **14** (2010), 437-441.
25. W. Yu, G. Leng, D. Wu, *Dual L_p John ellipsoids*, Proc. Edinburgh Math. Soc. **50** (2007), 737-753.

For publ. 10.

1. W.K. Chan, R.D. Mauldin, *Steinhaus tiling problem and integral quadra- tic forms*, Proc. AMS **135** (2007), 337-342.
2. S. Jackson, R.D. Mauldin, *Survey of the Steinhaus tiling problem*, Bull. Symb. Logic **9** (2003), 335-361.
3. M. Kolountzakis, *The study of translational tiling with Fourier analysis*, Fourier Analysis and Convexity, Birkhäuser (2004), 131-188.
4. R.D. Mauldin, A. Yingst, *Comments about the Steinhaus tiling problem*, Proc. Amer. Math. Soc. **131** (2003), 2071-2079.
5. S.M. Srivastava, R. Thangadurai, *On Steinhaus sets*, Expo. Math. **23** (2005), 171-177.

For publ. 11.

1. M. Kolountzakis, *The study of translational tiling with Fourier analysis*, Fourier Analysis and Convexity, Birkhäuser (2004), 131-188.
2. M.N. Kolountzakis, I. Laba, *Tiling and spectral properties of near-cubic domains*, Studia Math. **160** (2004), 287-299.
3. S. Konyagin, I. Laba, *Spectra of certain types of polynomials and tiling of integers with translates of finite sets*, J. Number Theory **103** (2003), 267-280.
4. I. Laba, *The spectral set conjecture and multiplicative properties of roots of polynomials*, J. London Math. Soc. **65** (2002), 661-671.
5. J. Li, *Duality properties between spectra and tilings*, Sci. China Math. **53** (2010), 1307-1317.
6. M. Matolcsi, *Fuglede's conjecture fails in dimension 4*, Proc. Amer. Math. Soc. **133** (2005), 3021-3026.
7. M. Matolcsi, *The solution of the spectral set conjecture and related open problems*, preprint.
8. T. Tao, *Fuglede's conjecture is false in five and higher dimensions*, Math. Res. Letters **11** (2004), 251-258.

For publ. 12.

1. L. Aizenberg, E. Liflyand, *Hardy spaces in Reinhardt domains and Hausdorff operators*, Illinois J. Math. **53** (2009), 1033-1049.
2. E. Liflyand, *Open problems on Hausdorff operators*, Complex Analysis and Potential Theory, Conference Proc., World Scientific (2007), 280-286.
3. E. Liflyand, *Boundedness of multidimensional Hausdorff operators on $H^1(\mathbf{R}^n)$*, Acta Sci. Math. (Szeged) **74** (2008), 845-851.
4. E. Liflyand, *Hausdorff operators. A lesson*, Bar Ilan University, 2008.
5. S. Naik, *Cesáro type operators on spaces of analytic functions*, preprint (2011).

For publ. 13.

1. O. Blasco, M. Contreras, S. Diaz-Madrigal, J. Martinez, M. Papadimitrakis, A. Siskakis, *Semigroups of composition operators and integral operators in spaces of analytic functions*, preprint (2010).
2. P. Galanopoulos, J. Peláez, *A Hankel matrix acting on Hardy and Bergman spaces*, Studia Math. **200** (2010), 201-220.
3. M. Papadimitrakis, *(Weak) compactness of Hankel operators on BMOA*, preprint arXiv:1108.2817v1 [math.CV] (2011).
4. J. Taskinen, J. Virtanen, *Spectral theory of Toeplitz and Hankel operators on the Bergman space A^1*, New York J. Math. **14** (2008), 305-323.

For publ. 16.

1. J. Laitila, S. Miihkinen, P. Nieminen, *Essential norms and weak compactness of integration operators*, Archiv der Math. **97** (2011), 39-48.

For *Notes on Classical Potential Theory*, a graduate course.

1. C. Kuehn, *Introduction to potential theory via applications*, preprint arXiv:0804.4689 (2008).

2. S. Pouliasis, *Theory of capacitance and potential of capacitors*, Masters thesis, University of Thessaloniki, 2007.

For *Notes on Measure Theory*, a graduate course.

1. S.M. Bagheri, M. Pourmahdian, *The logic of integration*, Arch. Math. Logic **48** (2009), 465-492.