

CURRICULUM VITAE

PD Dr. Antonios Manoussos

Personal Data

Surname: Manoussos
Name: Antonios
Date of birth: April 27, 1965
Place of birth: Syros, Greece
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Academic Qualifications

- Habilitation, Dept. of Mathematics, University of Bielefeld, Germany, 2010.
- Ph. D. in Mathematics, Dept. of Mathematics, University of Athens, Greece, 1993.
- B. Sc. in Mathematics, Degree “Ptichion” in Mathematics, Dept. of Mathematics, University of Athens, Greece, 1987.

Scholarships

1990 – 93: Scholarship from the Greek State Scholarship Foundation (I.K.Y.).

Research Interests

Dynamics of Linear Operators, Topological Dynamics and Transformation Groups.

The main characteristic of my research work is that I bring together methods and ideas from the theories of Topological Transformation Groups, Dynamical Systems, Actions of Algebraic and Lie Groups, Dynamics of Linear Operators and Operator Theory in order to study the dynamic behavior of various objects in these theories. For more details please take into consideration my Research Agenda and the Brief analysis of my publications.

Academic Positions

- 2009 – : Researcher, member (Akademischer Mitarbeiter) of SFB 701 “Spektrale Strukturen und Topologische Methoden in der Mathematik” (Collaborative Research Center 701 “Spectral Structures and Topological Methods in Mathematics”), Dept. of Mathematics, University of Bielefeld, Germany.
- 2007 – 09: Researcher, member (Akademischer Mitarbeiter) of SFB 701 “Spektrale Strukturen und Topologische Methoden in der Mathematik” (Collaborative Research Center 701 “Spectral Structures and Topological Methods in Mathematics”), Dept. of Mathematics, University of Bielefeld, Germany. Periods: 21/05/2007 – 31/12/2007, 03/03/2008 – 31/08/2008 and 01/09/2008 – 30/06/2009.
- 2005 – 07: Visiting Researcher, SFB 701 “Spektrale Strukturen und Topologische Methoden in der Mathematik” (Collaborative Research Center 701 “Spectral Structures and Topological Methods in Mathematics”), Dept. of Mathematics, University of Bielefeld, Germany. Periods: 30/01/2007 – 30/03/2007, 01/09/2006 – 31/12/2006 and 01/07/2005 – 20/04/2006. Scientist in charge: Prof. H. Abels.
- 2004 – 05: Visiting Assistant Professor, Dept. of Applied Mathematics, University of Crete, Greece (spring semester), Dept. of Mathematics, University of Crete, Greece (fall semester).

2003 – 04: Visiting Lecturer, Dept. of Mathematics, University of Crete, Greece.

2002 – 03: Visiting Lecturer, Dept. of Applied Mathematics, University of Crete, Greece.

Visiting Researcher (short term)

01/10/2005 – 31/12/2005 and 01/07/2005 – 31/08/2005: Forschungsgruppe Spektrale Analysis und Stochastische Dynamik, University of Bielefeld, Germany. Scientist in charge: Prof. H. Abels.

17/10/2002 – 10/11/2002, 01/09/1998 – 29/9/1998 and 20/02/1997 – 20/3/1997: SFB 343, “Diskrete Strukturen in der Mathematik”, University of Bielefeld, Germany, Scientist in charge: Prof. H. Abels.

Teaching Experience

General Topology, Analysis I & II, Calculus, Linear Algebra I & II, Transformation groups, Dynamical systems, Mathematics for chemists.

Professional Activities

- Reviewer in the Mathematical Reviews of the AMS and in Zentralblatt MATH.
- Referee in the following journals: Proceedings of the American Mathematical Society, Houston Journal of Mathematics, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas, RACSAM and Matemática Contemporânea, Brazilian Math. Soc.
- Editor in the Far East Journal of Dynamical Systems (2000 –), Pushpa Publishing House.
- Member of the A.M.S. (1999 –).

Publications

A. Published Papers

1. (with G. Costakis) *J-class operators and hypercyclicity*, J. Operator Theory. **67** (2012), 101-119.
2. (with H. Abels) *Topological generators of abelian Lie groups and hypercyclic finitely generated abelian semigroups of matrices*, Adv. Math. **229** (2012), 1862-1872.
3. (with H. Abels and G. Noskov) *Proper actions and proper invariant metrics*, J. London Math. Soc. (2) **83** (2011), 619-636.
4. *On the action of the group of isometries on a locally compact metric space*, Münster J. Math. **3** (2010), 209-212.
5. *The group of isometries of a locally compact metric space with one end*, Topology Appl. **157** (2010), 2876-2879.
6. (with G. Costakis and D. Hadjiloucas) *On the minimal number of matrices which form a locally hypercyclic, non-hypercyclic tuple*, J. Math. Anal. Appl. **365** (2010), 229-237.
7. (with G. Costakis and D. Hadjiloucas) *Dynamics of tuples of matrices*, Proceedings of the A.M.S. **137** (2009), 1025-1034.
8. (with G. Costakis) *J-class weighted shifts on the space of bounded sequences of complex numbers*, Integral Equations Operator Theory **62** (2008), 149–158.
9. (with P. Strantzalos) *On embeddings of proper and equicontinuous actions in zero-dimensional compactifications*, Transactions of the A.M.S. **359** (2007), 5593-5609.

10. (with P. Strantzalos) *On the group of isometries on a locally compact metric space*, J. Lie Theory **13** (2003), 7-12.
11. (with A. Donsig and A. Katavolos) *The Jacobson radical for analytic crossed products*, J. Functional Analysis **187** (2001), 129-145.
12. (with K. Athanassopoulos) *Minimal flows on multipunctured surfaces*, Bull. London Math. Soc. **27** (1995), 595-598.

B. Papers Submitted for Publication

1. (with H. Abels) *Linear semigroups with coarsely dense orbits*, arXiv:1108.2221
2. *A Birkhoff's transitivity type theorem for non-separable complete metric spaces with applications to Linear Dynamics*, arXiv:1105.2429.
3. (with P. Strantzalos) *Properness, Cauchy-indivisibility and the Weil completion of a group of isometries*, arXiv:1105.0557.
4. (with H. Abels) *A group of isometries with non-closed orbits*, arXiv:0910.4717.

C. Papers and Books in Preparation

1. (with P. Strantzalos) *Isometric Actions* (book).
2. *A User's Guide to Limit Sets and Coarse Limit Sets in Linear Dynamics –with applications–* (monograph).
3. *Coarse topological transitivity and coarsely J-class operators*.
4. (with G. Costakis) *Direct sums of hypercyclic operators and locally hypercyclicity*.
5. (with G. Costakis) *Bilateral weighted shifts being locally topologically transitive only at zero*.
6. (with G. Costakis) *Recurrent operators and recurrent vectors*.

Habilitation Thesis

- Limit sets and asymptotic methods in Operator Theory, Topological Transformation Groups and Dynamical Systems, Habilitation Thesis, Dept. of Mathematics, University of Bielefeld, Germany, 2010.

Ph.D. Thesis

- Contribution to the study of D-stable Actions, Ph.D. Thesis, Dept. of Mathematics, University of Athens, 1993 (in Greek). Advisor: Prof. P. Strantzalos.

Announcements in Conferences and Workshops - Selected Talks

- *The Green-Tao theorem: The primes contain arbitrarily long arithmetic progressions*, Habilitation lecture, Department of Mathematics, University of Bielefeld, 22/7/2010, Bielefeld, Germany.
- *Limit sets and asymptotic methods in Operator Theory, Transformation Groups and Dynamical Systems*, Colloquium, Department of Mathematics, University of Bielefeld, 28/1/2010, Bielefeld, Germany.
- *Proper actions and proper invariant metrics*, Mini-Workshop: Lie groups, algebraic groups and transformation groups, Department of Mathematics, University of Bielefeld, July 24-25, 2008, Bielefeld, Germany.
- *On embeddings of proper and equicontinuous actions in zero-dimensional compactifications*, International Conference on Topology and its Applications, Department of Mathematics, University of Patras, June 23-26, 2006, Aegion, Greece.

References

- Prof. H. Abels, Faculty of Mathematics, University of Bielefeld, 33501 Bielefeld, Germany
E-mail address: `abels@mathematik.uni-bielefeld.de`
- Prof. F. Bayart, Laboratoire de Mathématiques, Université Blaise Pascal, Campus des Cézeaux, F-63177 Aubiere Cedex, France,
E-mail address: `Frederic.Bayart@math.univ-bpclermont.fr`
- Prof. K. -G. Grosse-Erdmann, Institut de Mathématique, Université de Mons-Hainaut, Le Pentagone, 7000 Mons, Belgium
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- Prof. A. Peris, E.T.S. Arquitectura, Departament de Matemàtica Aplicada, Universitat Politècnica de València, E-46022 València, Spain
E-mail address: `aperis@mat.upv.es`
- Prof. K. R. Davidson, Department of Pure Mathematics, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada
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- Prof. A. S. Kechris, Department of Mathematics, California Institute of Technology, Pasadena, CA 91125, USA
E-mail address: `kechris@caltech.edu`
- Prof. A. Katavolos, Department of Mathematics, University of Athens, Panepistimioupolis, GR-157 84, Athens, Greece
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(March 2012)