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Yaniv Almog

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PERSONAL

Date of birth: 25 October 1963

Place of birth: Tel-Aviv, Israel

Marital Status: Married + 3

Citizenship: Israeli.

ACADEMIC DEGREES

1990 B.Sc. Summa Cum Laude, Department of Aerospace Engineering, Technion–Israel Institute of Technology, Haifa, Israel.

1994 D.Sc. Interdisciplinary Program in Applied Mathematics, Technion–Israel Institute of Technology, Haifa, Israel.

ACADEMIC APPOINTMENTS

2018-Present Professor, Department of Mathematics, Ort Braude College, Carmiel, Israel.

2018-Present Professor Emeritus, Department of Mathematics, Louisiana State University, Baton Rouge, Louisiana

2015-2018 Professor, Department of Mathematics, Louisiana State University, Baton Rouge, Louisiana

2008-2015 Associate Professor, Department of Mathematics, Louisiana State University, Baton Rouge, Louisiana

2005-2008 Assistant Professor, Department of Mathematics, Louisiana State University, Baton Rouge, Louisiana

1998 - 2005 Senior Lecturer, Department of Mathematics, Technion-I.I.T, Haifa, Israel.

1996 - 1998 Post-Doctoral Fellow, Department of Applied Mathematics and Computer Science, The Weizmann Institute, Rehovot, Israel.

1994 - 1996 Applied Mathematics Instructor, Department of Mathematics, M.I.T, Cambridge MA, U.S.A.

1994 Research Associate, Department of Mathematics, Technion-I.I.T, Haifa, Israel.

Short term visits

June 2003 - University of Paris IV
February 2005 - University of Paris X
May 2006 - University of Akron
May 2007 - East China Normal University
June 2008 - McMaster university
December 2008 - East China Normal University
December 2010 - East China Normal University
February-June 2011 Technion-I.I.T
March-May 2012 Technion-I.I.T
July 2012 - March 2013 Technion-I.I.T
October 2013 - U. Akron
October 2014 - U. Akron
November 2015 - Penn. State U.
May 2016 - East China Normal University February 2019 - Queen U.

TEACHING EXPERIENCE

1988-1994 Undergraduate and Graduate Instructor of Continuum Mechanics, Flow and Elasticity, Linear Algebra, Complex Analysis, O.D.E, P.D.E - at the Department of Mathematics, Technion - I.I.T, Haifa, Israel.

1994 Instructor of Multi-variable Calculus at the Department of Mathematics, Technion- I.I.T, Haifa, Israel.

1994-1996 Instructor of Multi-variable Calculus, O.D.E, Principles of Applied Mathematics, Advanced Calculus for Engineers - at the Department of Mathematics, M.I.T, Cambridge, Massachusetts, U.S.A.

1996-1998 Two Courses in Asymptotic Analysis - The Weizmann Institute

1998-2005 Differential and Integral Calculus 1m, Differential and Integral Calculus 2m, Complex Analysis, Analytic Methods in PDE, Ordinary Differential equations (for Math. students), Asymptotic Analysis, Selected topics in Applied Mathematics, Seminar in Applied Mathematics, Introduction to Applied Mathematics - Technion, I.I.T

2005-2018 Ordinary Differential equations (undergraduate and graduate), Advanced Mathematical Methods for Engineers, Calculus 1, 2, and 3 - LSU, Graduate PDE

2018-Present Calculus I and II, undergraduate PDE for engineers, undergraduate PDE for Mathematicians.

PUBLIC PROFESSIONAL ACTIVITIES

1. *REFEREEING FOR JOURNALS* such as: Journal of Fluid Mechanics, European Journal of Applied Mathematics, Journal of Physics, Journal of Mathematical Physics, SIAM Journal of Applied Mathematics, Asymptotic Analysis, SIAM Journal of Mathematical Analysis, Journal of Functional Analysis, Journal of the European Mathematical Society, Archive for Rational Mechanics and Analysis, Journal of Differential Equations, Communications in Mathematical Physics.
2. *WRITING REVIEWS FOR MATH. REVIEWS*

GRADUATE STUDENTS

Completed Theses Co-advisor for Avshalom Manela, M.Sc. in Aerospace Engineering, completed in June 2002, Title: "Dispersion processes of dilute suspensions of dipolar particles in shear flows". (Principal Advisor: Itzhak Frankel.)

GRANTS

1. NSF grant DMS 604467: Boundary Layers in Superconductors and Liquid Crystals, \$108336 (2006-2010)
2. NSF grant DMS 1109030: Critical Currents in Superconductors \$160822 (2011-2014)
3. US-Israel BSF grant 2010194 (together with L. Berlyand, I. Shafir, and D. Golovaty): On some Ginzburg-Landau Type Functionals \$ 98000 (2011-2015)
4. Simons Foundation Collaboration Grants for Mathematicians 429670: Schrödinger operators with purely imaginary potentials \$35000 (withdrawn due to conflict with NSF grant on 2016)
5. NSF grant DMS 1613471: The effect of electric currents on superconductivity \$191109 (2016-2019)

LIST OF PUBLICATIONS

Theses

D.Sc. "Dynamics and Transport Phenomena of Brownian Particles Possessing Internal Degrees of Freedom in Homogeneous Shear Flows", Technion - I.I.T, Haifa, Israel (1994).

Refereed papers in professional journals

Published papers

1. Almog, Y. and Frankel, I. "Effects of Fore-Aft Asymmetry on the Sedimentation and Dispersion of Axisymmetric Brownian Particles". *J. Colloid Interface Sci.* **157**, 60-71 (1993)
2. Almog, Y. and Frankel, I. "The Rotary Motion of Dipolar Axisymmetric Particle in Homogeneous Shear Flow". *J. Fluid Mech.* **289**, 243-261 (1995)
3. Almog, Y. and Brenner, H. "Non-Continuum Anomalies in the Apparent Viscosity Experienced by a Test Sphere Moving Through an Otherwise Quiescent Suspension". *Phys. Fluids* **9**, 16-22 (1997)
4. Almog, Y. and Frankel, I. "Rheology of a Dilute Suspension of Dipolar Axisymmetric Brownian Particles in Homogeneous Shear Flow". *J. Fluid Mech.* **366**, 289-310 (1998)
5. Almog, Y. and Brenner, H. "Apparent Slip at the Surface of a Small Rotating Sphere in a Dilute Quiescent Suspension". *Phys. Fluids* **10**, 750-752 (1998)
6. Almog, Y. "Arbitrary N-Vortex Self-Duality Solutions to the Ginzburg-Landau Equations Satisfying Normal State Conditions at Infinity". *Asymptotic Analysis* **17**, 267-278 (1998)
7. Almog, Y. and Brenner, H. "Ensemble-Average vs Suspension-Scale Cauchy Continuum-Mechanical Definitions of Stress in Polarized Suspensions: Global Homogenization of a Dilute Suspension of Dipolar Spherical Particles". *Phys. Fluids* **11**, 268-273 (1999)
8. Almog, Y. "Asymptotic Analysis of the One-Dimensional Ginzburg-Landau Equations near Self-Duality". *Quart. Appl. Math.* **57**, 355-367 (1999)
9. Almog, Y. "Periodic Solutions to the First-order Ginzburg-Landau Equations". *Euro. J. Appl. Math.* **10**, 285-295 (1999)
10. Almog, Y. "On the bifurcation and Stability of Periodic Solutions of the Ginzburg-Landau Equations in the Plane". *SIAM J. Appl. Math.* **61**, 149-171 (2000)
11. Almog, Y. "The onset of superconductivity in a semi-infinite strip". *J. Math. Phys.* **41**, 7889-7905 (2000)
12. Almog, Y. "Non-linear surface superconductivity in the large domain limit for type II superconductors". *Arch. Rat. Mech. Anal.* **165**, 271-293 (2002)
13. Almog, Y. "The onset of superconductivity in long rectangles". *Euro. J. Appl. Math.* **14**, 257-277 (2003)

14. Almgog, Y. “The creeping motion of a small rigid particle near a smooth boundary”. *Asymptotic Analysis* **36**, 345-357 (2003)
15. Almgog, Y. “The loss of stability of surface superconductivity”. *J. Math. Phys.* **45**, 2815-2832 (2004)
16. Almgog, Y. “Non-linear surface superconductivity in three dimensions in the large κ limit”. *Commun. Contemp. Math.* **6**, 637–652 (2004)
17. Almgog, Y. “The emergence of the triangular lattice near a flat wall”. *J. Math. Phys.* **46**, 095103 (2005) [29 pages]
18. Almgog, Y. “Non-linear surface superconductivity in the large κ limit”. *Rev. Math. Phys.* **16**, 961-976 (2004)
19. Almgog, Y. “Existence and non-existence of solutions to the Ginzburg-Landau equations in a semi-infinite superconducting film”. *Quart. Appl. Math.* **63**, 1-12 (2005)
20. Almgog Y. “Abrikosov lattices in finite domain”. *Commun. Math. Phys.* **262**, 677-702 (2006)
21. Almgog, Y. and Helffer, B. “The distribution of surface superconductivity along the boundary: on a conjecture of X.B. Pan”. *SIAM J. Math. Anal.* **38**, 1715-1732 (2007)
22. Almgog, Y. “Thin boundary layers of chiral smectics”. *Calc. Var. PDE*, **33**, 299-328 (2008)
23. Almgog, Y. “The stability of the normal state of superconductors in the presence of electric currents” *SIAM J. Math. Anal.*, **40**, 824-850 (2008)
24. Almgog, Y., Berlyand, L. V., Golovaty, D., and Shafrir, I. “Global minimizers for a p -Ginzburg-Landau-type energy in \mathbb{R}^2 ”. *J. Func. Anal.* **256**, 2268-2290. (2009)
25. Almgog, Y., Helffer, B., and Pan, X. B. “Superconductivity near the Normal State under the Action of Electric Currents and Induced Magnetic Fields in \mathbb{R}^2 ” *Commun. Math. Phys.* **300** 147-184 (2010)
26. Yariv, E. and Almgog, Y. “Ionic currents in the presence of supporting electrolyte” *Phys. Rev. Lett.* 105, 176101 (2010) [4 pages]
27. Almgog, Y., Berlyand, L. V., Golovaty, D., and Shafrir, I. “Radially symmetric minimizers for a p -Ginzburg Landau type energy in \mathbb{R}^2 ” *Calc. Var. PDE* **42**, 517-546 (2011)
28. Almgog, Y. and Yariv E. “One-dimensional conduction in ternary ionic solutions: cathodic-Debye-layer concentration amplification and logarithmic voltage scaling” *Phys. Rev. E* **84**, 041204 (2011) [8 pages]
29. Almgog, Y. “The interface between the normal state and the fully superconducting state in the presence of an electric current” *Commun. Contemp. Math.* **14**, 1250026 (2012) [27 pages]
30. Almgog, Y., Helffer, B., and Pan, X. B. “Superconductivity near the normal state in a half-plane under the action of a perpendicular electric current and an induced magnetic field II : The large conductivity limit” *SIAM J. Math. Anal.* **44**, 3671-3733 (2012)
31. Almgog, Y., Helffer, B., and Pan, X. B. “Superconductivity near the Normal State in a Half-Plane under the Action of a Perpendicular Electric Currents and an Induced Magnetic Field” *Trans. AMS* **365**, 1183-1217 (2013)
32. Almgog, Y. “Averaging of dilute random media: a rigorous proof of the Clausius-Mossotti formula” *Arch. Rat. Mech. Anal.* **207**, 785-812 (2013)
33. Almgog, Y., Berlyand, L. V., Golovaty, D., and Shafrir, I. “On the limit $p \rightarrow \infty$ of global minimizers for a p -Ginzburg-Landau-type energy” *Ann. Inst. Henri Poincaré (C) Analyse Non Linéaire* **30** 1159-1174 (2013)

34. Almog, Y. and Helffer B. “Global stability of the normal state of superconductors in the presence of a strong electric current” *Commun. Math. Phys.* **330** 1021-1094 (2014)
35. Almog Y. “The Clausius-Mossotti formula in a dilute random medium with fixed volume fraction.” *SIAM J. on Multiscale Modeling and Simulation* **12** 1777-1999 (2014)
36. Almog, Y., Berlyand, L. V., Golovaty, D., and Shafrir, I. “Existence and stability of superconducting solutions for the Ginzburg-Landau” *J. Math. Phys.* **56**, 071502 (2015)
37. Almog, Y. And Helffer B. “On the spectrum of non-selfadjoint Schrödinger operators with compact resolvent.” *Commun. PDE* **40**, 1441-1466 (2015)
38. Yariv, E. and Almog, Y. “The effect of surface-charge convection on the settling velocity of spherical drops in a uniform electric field” *J. Fluid Mech.* **797**, 536-548 (2016)
39. Almog, Y. and Henry, R. “Spectral analysis of a complex Schrödinger operator in the semiclassical limit” *SIAM J. Math. Anal.* **48**, 2962-2993 (2016)
40. Almog, Y., Helffer, B., and Pan, X. B. “Mixed normal-superconducting states in the presence of strong electric currents” *Arch. Rat. Mech. Anal.* **223**, 419-462 (2017)
41. Almog, Y. “The Clausius-Mossotti formula for dilute random media of perfectly conducting inclusions” *SIAM J. Math. Anal.* **49** 2885-2919 (2017)
42. Almog, Y., Grebenkov D., And Helffer B. “Spectral semi-classical analysis of a complex Schrödinger operator in exterior domains” *J. Math. Phys.* **59** (2018), 041501, 12 pp.
43. Almog, Y., Berlyand, L. V., Golovaty, D., and Shafrir, I. “Existence of superconducting solutions for a reduced Ginzburg-Landau model in the presence of strong electric currents” *SIAM J. Math. Anal.* **51** 873-912 (2019)
44. Almog, Y., Grebenkov D., And Helffer B. “On a Schrödinger operator with a purely imaginary potential in the semiclassical limit” *Commun. PDE* **44**, 1542-1604 (2019)

Accepted papers

45. Hart, L. K. And Almog, Y. “The maximal current carried by a normal/superconducting interface in the absence of magnetic field” (Appeared online *EJAM* <https://doi.org/10.1017/S0956792519000196>)
46. Almog, Y. And Helffer B. “The spectrum of a Schrödinger operator in a wire-like domain with a purely imaginary degenerate potential in the semiclassical limit” (to appear *Memoirs de la SMF*)

Submitted papers

47. Almog, Y. And Helffer B. “On the stability of laminar flows between plates”
48. Almog, Y. And Helffer B. “On the spectrum of some Bloch-Torrey vector operators”

Conferences

INVITED LECTURES

1. SIAM Annual Meeting, Toronto, Canada, 15th July 1998. Paper presented: Arbitrary N-vortex and periodic solution to the first-order Ginzburg-Landau Equations.
2. Annual meeting of the Israel Mathematical Union, Haifa, Israel, May 26th 1999. Paper presented: On the bifurcation and stability of periodic solutions of the Ginzburg-Landau equations in the plane.
3. ICIAM 99, Edinburgh, Scotland, 7th July 1999. Paper presented: On the bifurcation and stability of periodic solutions of the Ginzburg-Landau equations in the plane.
4. SIAM 3rd Meeting on Mathematical Aspects of Material Science Philadelphia, 22nd May 2000. Paper presented: The onset of superconductivity in semi-infinite strips.
5. Isaac Newton Institute for Mathematical Sciences Workshop on Variational Problems with Singularities 25-29 June 2001. Paper presented: The onset of superconductivity in long rectangles.
6. The Fourth International Conference on Dynamical Systems and Differential Equations May 24 –27,2002 University of North Carolina at Wilmington, U.S.A. Paper presented: Non-linear surface superconductivity in the large domain limit for type II superconductors.
7. Annual meeting of the Israel Mathematical Union, Jerusalem, Israel, May 30th 2002. Paper presented: Non-linear surface superconductivity in the large domain limit for type II superconductors.
8. SIAM Annual Meeting, Philadelphia, USA, 8-12 July 2002. Paper presented: Non-linear surface superconductivity in the large domain limit for type II superconductors.
9. Annual meeting of the Israel Mathematical Union, Shfayim, Israel, May 6th 2004. Paper presented: Surface superconductivity and the secondary bifurcation.
10. SIAM fourth Meeting on Mathematical Aspects of Material Science, Los Angeles, 22nd May 2004. Paper presented: The Bifurcation of Periodic Solutions of the Ginzburg-Landau Equations near a flat wall.
11. South-East Geometry Seminar IX: Wednesday March 29, 2006 University of Alabama at Birmingham. Paper Presented: Boundary Layers in Superconductors and Smectic Liquid Crystals
12. SIAM Conference on Analysis of Partial Differential Equations. Paper presented: The Boundary Distribution of Surface Superconductivity Boston, July 10, 2006
13. Workshop on Singularities in PDE and the Calculus of Variations. Paper presented: Stability of the normal state of superconductors in the presence of electric currents, July 17-21, 2006 Centre de recherches mathematiques, Montreal
14. AMS 113 Annual Meeting: SIAM Minisymposium on Mathematics and Materials Science. Paper presented: Stability of the normal state of superconductors in the presence of electric currents. New Orleans, January 5, 2007
15. International Conference on Mathematical Theory of Superconductivity and Liquid Crystals. Paper presented: ‘Stability of the normal state of superconductors in the presence of electric currents East China Normal University, Shanghai, China, May 14-18, 2007
16. AMS Fall Western Section Meeting: Special Session on Variational Problems in Condensed Matter. Paper presented: Thin boundary layers of chiral smectics. Albuquerque, NM, October 13-14, 2007
17. Bose-Einstein Condensation and Quantized Vortices in Superfluidity and Superconductivity - Workshop 2. Paper presented: Global and local minimizers for a p-Ginzburg

- Landau type energy in the plane. National University of Singapore, December 10 - 14, 2007
18. Workshop on Variational Methods for Nonlinear PDE and their Applications. Paper presented: Global and local minimizers for a p-Ginzburg-Landau energy. Technion, Haifa, Israel, March 5-10, 2008
 19. Second Canada-France Congress: Singular perturbations and the Ginzburg-Landau model (CAIMS Minisymposium). Paper presented: Radially symmetric local minimizers of the Ginzburg-Landau energy functional. UQAM, Montreal, June 1-5, 2008
 20. Workshop on Quantum Many-body Systems; Bose-Einstein Condensation. Paper presented : The motion of vortices in superconductors under the action of electric currents, September 29 - October 4, 2008 Centre de recherches mathematiques, Montreal
 21. Colloque en l'honneur de Bernard Helffer. Paper presented: Superconductivity Near the Normal State in the presence of electric current. Orsay, September 16-18, 2009
 22. SIAM Conference on Analysis of Partial Differential Equations. Paper presented: Superconductivity Near the Normal State in the presence of current. Miami, December 10, 2009
 23. SIAM Meeting on Mathematical Aspects of Material Science (MS10) Philadelphia, 23-26 May 2010. Paper presented: The interface between the normal state and the fully superconducting state in the presence of an electric current
 24. Workshop on Superconductivity, Bose-Einstein Condensation and Liquid Crystals. Aarhus University, Denmark, June 29 -July 1, 2011. Paper presented: Superconductivity Near the Normal State in the Presence of Current and Magnetic Field.
 25. ICIAM 2011 Vancouver BC, Canada, July 18-22, 2011. Paper presented: Stability of the Normal State for Superconductors of Large Normal Conductivity in the Presence of Electric Current.
 26. SIAM Conference on Analysis of Partial Differential Equations (PD11) San-Diego, November 13-17, 2011. Paper presented: A Rigorous Proof of the Maxwell-Claussius-Mossotti Formula.
 27. The 2012 Meeting of the Israel Mathematical Union, Bar-Ilan University, May 28, 2012. Paper presented: A Rigorous Proof of the Maxwell-Claussius-Mossotti Formula.
 28. The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA, July 1 - 5, 2012. Paper presented: Global stability of the normal state of superconductors under the effect of strong electric current
 29. SIAM Conference on Mathematical Aspects of Material Science (MS13). Philadelphia, 9-12 June 2013. Paper presented: The Superheating Current for a Reduced Ginzburg-Landau Model.
 30. AMS Western Spring Sectional Meeting: Special Session on Variational Problems in Condensed Matter. Paper presented: Completeness of the eigenspace of some non-self-adjoint operators. Albuquerque, NM, April 4-6, 2014.
 31. International Conference on the Mathematical Theory of Liquid Crystals and Related Topics. June 15-19, 2014 Shanghai, China. Paper presented: Global and local stability of the normal state of superconductors under the effect of strong electric current.
 32. Workshop on Semiclassical Analysis and Magnetic Fields, Rennes, France, May 18-23 2015. Paper presented: Mixed normal-superconducting states in the presence of strong electric currents.
 33. AIM workshop: Mathematical aspects of physics with non-self-adjoint operators, June 8-12, 2015, San Jose, CA. Paper presented: On the spectrum of non-selfadjoint Schrödinger operators with compact resolvent.

34. BIRS workshop: New Trends in Nonlinear Elliptic Equations, August 30 to September 4, 2015, Banff, Canada. Paper presented: Mixed normal-superconducting states in the presence of strong electric currents.
35. SIAM Conference on Analysis of Partial Differential Equations (PD15). December 7-10, 2015, Scotsdale, AZ. Paper presented: "Spectral Analysis of a Complex Schrödinger Operator in the Semiclassical Limit".
36. AMS Fall Eastern Sectional Meeting Bowdoin College, Brunswick, ME September 24-25, 2016. Special Session on Nonlinear Partial Differential Equations in Material Science and Mathematical Biology. Paper presented: "The Clausius-Mossotti formula for dilute random media of perfectly conducting inclusions."
37. BIRS workshop: Phase Transitions Models, April 30- May 05, 2017, Banff, Alberta. Paper presented: "On a Schrödinger operator with a purely imaginary potential in the semiclassical limit".
38. The 2018 Meeting of the Israel Mathematical Union, Technion, May 24, 2018. Paper presented: "Existence of superconducting solutions for a reduced Ginzburg-Landau model in the presence of strong electric currents"
39. SIAM Conference on Mathematical Aspects of Materials Science (MS18) July 9 - 13, 2018, Portland OR. Paper Presented: "The Spectrum of a Schrödinger Operator in a Wire-Like Domain with a Purely Imaginary Degenerate Potential in the Semiclassical Limit"

CONTRIBUTED LECTURES

1. 6th Annual Meeting of the Israeli Association for Aerosol Research, The Hebrew University, Jerusalem, Israel, 2nd. December 1991. Paper Presented (with I. Frankel): Effects of Fore-Aft Asymmetry on the Sedimentation and Dispersion of Axisymmetric Brownian Particles.
2. 7th Annual Meeting of the Israeli Association for Aerosol Research, The Technion (I.I.T), Haifa, Israel, 22nd. May 1993. Paper Presented (with I. Frankel): The Motion of Axisymmetric Dipolar Particles in Homogeneous Shear Flows.
3. 46th Annual Meeting of the American Physical Society/ Division of Fluid Dynamics, Albuquerque NM, 22nd. November 1993. Papers presented (with I. Frankel): 1. The motion of Axisymmetric Dipolar Particles in Homogeneous Shear Flow. 2. Rheology of a Dilute Suspension of Dipolar Axisymmetric Brownian Particles in Homogeneous Shear Flows.
4. SIAM 2nd Meeting on Mathematical Aspects of Material Science Philadelphia PA, 12th May 1997. Paper presented: Asymptotic Analysis of the One-Dimensional Ginzburg-Landau Equations Near Self-Duality.
5. Fourth European Conference on Elliptic and Parabolic Problems 24-28 September 2001, Gaeta (Italy). Paper presented: Existence and non-existence of solutions to the Ginzburg-Landau equations in a semi-infinite superconducting film.
6. The 15th Interdisciplinary Research Conference of Ort Braude College, October 23-24, 2019, Kfar-Blum. Paper presented: On the stability of laminar flows between plates.

MEETING ORGANIZATION

1. SIAM Conference on Analysis of Partial Differential Equations Mini-Symposium organizer (with L. Berlyand): Superconductivity, Ginzburg-Landau Theory, and Related Topics (three sessions). Boston, July 10-12, 2006

2. SIAM Conference on Mathematical Aspects of Material Science (MS10) Mini-Symposium organizer (with L. Berlyand and D. Golovaty): Ginzburg-Landau Theory and Related Topics (two sessions). Philadelphia, 23-26 May 2010.
3. SIAM Conference on Mathematical Aspects of Material Science (MS13) Mini-Symposium organizer (with L. Berlyand and D. Golovaty): The Ginzburg-Landau Model and Related Topics (five sessions). Philadelphia, 9-12 June 2013.
4. BIRS workshop: Phase Transitions Models, 4/30/17 - 5/5/17 (with P. Mironescu).
5. Applied Math. Session The 2018 Meeting of the Israel Mathematical Union, Technion, May 24, 2018.