CURRICULUM VITAE AND LIST OF PUBLICATIONS
LIST OF INVITED LECTURES

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Personal Data:

Place of birth: Couvet (NE), Switzerland
Citizenships: French and Swiss

Spoken and Written Languages:

English, French, German, Italian, Portuguese.

Fields of Research:
Stochastic Analysis, Stochastic Differential Equations, Mathematical Physics.

Education:
Undergraduate studies:
October 1967-October 1971: Swiss Institute of Technology (ETHZ), Zürich; degree in Physics received in October 1971.
Graduate studies:
January 1972-November 1974: University of Neuchâtel; Ph.D. in Mathematical Physics received in November 1974.

Employment:
November 1974-October 1975: Research Fellow, University of Neuchâtel.
November 1975-August 1978: Research Scientist, Princeton University; partially supported by a grant from the Swiss National Science Foundation for Scientific Research.
September 1978-August 1980: Instructor in Mathematics, Georgia Institute of Technology, Atlanta.
September 1980-August 1983: Assistant Professor of Mathematics, Emory University, Atlanta.
September 1983-August 1985: Assistant Professor of Mathematics, University of Texas, Arlington.
September 1985-August 1989: Associate Professor of Mathematics, University of Texas, Arlington.
September 1989-August 1994: Full Professor of Mathematics, University of Texas, Arlington.
October 1992-August 1994: Full Professor of Mathematics, University of Metz and University of Nancy 1, while on leave from the University of Texas at Arlington.
September 1994-August 2014: Full Professor of Mathematics, University Henri-Poincaré, Nancy, which became part of the newly created University of Lorraine as of January 2012.
As of September 2014: Emeritus Professor of Mathematics at the University of Lorraine.
January 2017-December 2019: Visiting Professor of Mathematics, University of Lisbon.
January 2020-December 2023: Integrated Member GFM, University of Lisbon.
As of January 2024: Integrated Member CMAFcIO, University of Lisbon.

Short-Term Appointments:
Summer semester 1982: Department of Mathematics and Department of Physics, University of São-Paulo.
Summer semester 1985: Mathematics Research Center, ETHZ, Zürich.
Summer semester 1986: Mathematics Research Center, ETHZ, Zürich; Department of Mathematics, University of Oulu.
Summer semester 1987: Department of Mathematics, University of Trento.
Summer semester 1988: Mathematics Research Center, ETHZ, Zürich.
Winter semester 1988: Department of Mathematics, University of Trento.
Summer semester 1989: Department of Mathematics, University of Trento; Department of Mathematics, University of Oulu.
Academic years 1989-1991: Max-Planck Institute, Bonn.
Summer semester 1992: Mathematics Research Center, ETHZ, Zürich.
Summer semester 1994: Department of Mathematics, University of Bayreuth.

Summer semester 1995: Institute for Mathematics and its Applications, University of Minnesota, Minneapolis.
Summer semester 1996: Department of Mathematics, University of California, Santa Cruz.
Winter semester 1996: Mathematics Research Center, ETHZ, Zürich.
Winter semester 1997: Mathematical Sciences Research Institute, MSRI, Berkeley.
Winter semester 1998: Mathematics Research Center, ETHZ, Zürich.
Winter semester 1999: Center for Dynamical Systems and Nonlinear Studies, Georgia Institute Of Technology, Atlanta; Department of Mathematics, ETHZ, Zürich.
Summer semester 2000: Mathematics Research Center, ETHZ, Zürich.
Winter semester 2000-2001: Mathematics Research Center, University of Barcelona.
Summer semester 2001: Mathematics Research Center, ETHZ, Zürich.
Winter semester 2001-2002: Mathematics Research Center, University of Barcelona.
Summer semester 2002: Mathematics Research Center, ETHZ, Zürich.
Winter semester 2002-2003: Mathematics Research Center, University of Barcelona.
Summer semester 2003: Mathematics Research Center, ETHZ, Zürich.
Winter semester 2003-2004: Mathematics Research Center, University of Barcelona.
Summer semester 2004: Mathematics Research Center, ETHZ, Zürich.
Winter semester 2004-2005: Mathematics Research Center, University of Barcelona.
Summer semester 2005: Institute for Theoretical Physics and Mathematics Research Center, ETHZ, Zürich, and Department of Mathematical Physics, University of São Paulo.
Summer Semester 2006: Institute for Theoretical Physics, ETHZ, Zürich, and Department of Mathematical Physics, University of São Paulo.
Winter semester 2006-2007: Mathematics Research Center, University of Barcelona.
Summer Semester 2007: Institute for Theoretical Physics, ETHZ, Zürich.
Winter Semester 2008: Department of Mathematical Physics, University of São Paulo.
Summer Semester 2008: Mathematics Research Center, ETHZ, Zürich.
Summer Semester 2009: Institute for Theoretical Physics, ETHZ, Zürich, Institute for Interdisciplinary Research, University of Lisbon.
Summer Semester 2010: Mathematics Research Center, ETHZ, Zürich, Institute for Interdisciplinary Research, University of Lisbon.
Summer Semester 2011: Mathematics Research Center, ETHZ, Zürich, Institute for Interdisciplinary Research, University of Lisbon.
Summer Semester 2012: Mathematics Research Center, ETHZ, Zürich, Institute for Interdisciplinary Research, University of Lisbon.
Summer Semester 2013: Institute for Interdisciplinary Research, University of Lisbon.
Summer Semester 2014: Institute for Interdisciplinary Research, University of Lisbon.
Winter Semester 2014: Mathematics Research Center, ETHZ, Zürich.
Summer Semester 2015: Institute for Interdisciplinary Research, University of Lisbon.
Winter Semester 2015: Mathematics Research Center, ETHZ, Zurich.
Summer Semester 2016: Mathematics Department, University of Lisbon.

Research Grants and Awards:

Academic years 1975-1978:

(1) Grant from the Ministry of Education of the Canton of Neuchâtel.
(2) Grant from the Holderbank Foundation for Scientific Research.
(3) Grant from the Swiss National Science Foundation.

Academic years 1978-1980: Grant from the von Humboldt Foundation (declined).

Academic year 1980-1981:

(1) Grant from the Woodruff Foundation of Emory University.
(2) Grant from the U.S. Department of Energy.

Academic year 1982-1983: Grant from the U.S. National Science Foundation.
Academic year 1983-1984: Summer grant from the University of Texas, Arlington.
Academic year 1985-1986: Grant from the Finnish Academy of Sciences.
Academic year 1986-1987: Grant from the Italian Science Foundation (CNR).
Academic year 1987-1988: Grant from the Italian Science Foundation (CNR).
Academic year 1988-1989: Grants from the Italian Science Foundation (CNR) and from the Finnish Academy of Sciences.
Academic years 1989-1991: Fellow of the Max Planck Society.
Academic year 1997-1998: Research Professorship Award from the Mathematical Sciences Research Institute, MSRI, Berkeley.
Academic years 2000-2002: Grant from the Spanish Ministry of Education.
Academic years 1994-2006: Grant from the French Ministry of Education.

Editorial Activities:
Editorial Board Member for Stochastic Analysis and Applications.

List of Publications

I - Articles and Books:

1. (With Romerio M. V.) *Exact Solution of the Maier-Saupe Model for a Nematic Liquid Crystal on a One-Dimensional Lattice*, Journal of Physics C. Solid State Physics 6 (1973): 2922-2930.

2. (With Romerio M. V.) *On Some Classical Vector Models in Statistical Mechanics*, Journal of Physics C. Solid State Physics 7 (1974): 1033-1045.

3. **(**With Romerio M. V.) *Absence of Long-Range Order for a Class of Two-Dimensional Systems*, Proceedings of the Third International Colloquium on Group Theoretical Methods in Physics, Publication CNRS, Marseille (1974): 153-159.

4. **(**With Romerio M. V.) *Absence of Ordering in a Class of Lattice Systems*, Communications in Mathematical Physics 41 (1975): 281-288.

5. (With Kunz H. and Pfister C. E.) *Correlation Inequalities for Some Classical Spin Systems*, Physics Letters 54A, 6 (1975): 428-430.

6. Quelques Résultats Rigoureux en Mécanique Statistique, Applications au Problème des Changements de Phase (1975), Lang Druck AG-Bern.

7. (With Kunz H. and Pfister C. E.) *Inequalities for Some Classical Spin Vector Models*, Journal of Physics A. Mathematical and General 9 (1976): 1673-1683.

8. *Absence of Ordering in a Class of Random Spin Systems, Including Simple Models for Spin Glasses and a New Inequality for Random Ferromagnets*, Physics Letters 61A (1977): 9-12.

9. *Thermodynamics of Quenched Random Spin Systems and Application to the Problem of Phase Transitions in Magnetic (Spin) Glasses*, Journal of Physics A. Mathematical and General 10 (1977): 1319-1333.

10. *Intertwining Relations Between the Dynamics of the Infinite Classical and Quantum Heisenberg Models: A New Application of Trotter Approximations and of the Coherent State Formalism*, Lettere Al Nuovo Cimento 24 (1979): 333-338.

11. (With Bountis T. C., Eminhizer C. R. and Helleman R. H. G.) *Variational Studies of the Beam-Beam Interactions*, Proceedings of the Symposium on the Physical and Mathematical Aspects of Beam-Beam Interactions, Brookhaven Report, BNL 25703, Brookhaven National Laboratory, Upton (1979): 35-59.

12. (With Sarbach S.) *Phase Transitions in Quantum X-Y and Heisenberg Models: Critique of N. Szabo's Discussion*, Helvetica Physica Acta 52 (1979): 230-237.

13. *Nonlinear Dynamics of the Infinite Classical Heisenberg Model and Classical Limit of the Corresponding Quantum Time Evolution*, Communications in Mathematical Physics 76 (1980): 1-26.

14. *Nonlinear Hill's Equations and the Beam-Beam Interaction*, Proceedings of the Seminar of the Beam-Beam Interaction, Stanford Linear Accelerator Center-Publication, Conference 8005102 (1980): 312-331.

15. *Solution of a Nonlinear Sturm-Liouville Eigenvalue Problem and the Question of Motion Stability in Intersecting Storage Rings*, Lettere al Nuovo Cimento 33 (6) (1982): 154-158.

16. *A Class of Orlicz-Sobolev Spaces with Applications to Variational Problems Involving Nonlinear Hill's Equations*, Journal of Mathematical Analysis and Applications 89 (1) (1982): 327-349.

17. *One-Parameter Families of Sturm-Liouville Eigenfunctions and of Periodic Solutions for a Class of Nonlinear Hill's Equations*, Journal of Mathematical Analysis and Applications 97 (1) (1983): 21-37.

18. *A Class of Sturm-Liouville Eigenvalue Problems with Polynomial and Exponential Nonlinearities*, Journal of Nonlinear Analysis: Theory, Methods, and Applications 8 (7) (1984): 775-796.

19. *A Class of Elliptic Partial Differential Equations with Exponential Nonlinearities*, Mathematische Annalen 268 (4) (1984): 497-518.

20. *A Class of Isoperimetric Variational Problems on Certain Orlicz-Sobolev Spaces*, Proceedings of the Second UAB International Conference on Differential Equations, I. Knowles and R. Lewis, editors, North-Holland Mathematics Studies 92 (1984): 553-559.

21. *Remarks on Some Strongly Nonlinear Degenerate Sturm-Liouville Eigenvalue Problems*, Proceedings of the 6th UTA International Conference on Trends in Theory and Practice of Nonlinear Analysis, V. Lakshmikantham, editor, North-Holland Mathematics Studies 110 (1985): 441-444.

22. *Non-Existence de Vibrations Libres Localisées pour Certaines Equations des Ondes Semilinéaires sur* R^2, Comptes Rendus de l'Académie des Sciences de Paris 303, I (1986): 395-398.

23. *Existence and Regularity Theory for Isoperimetric Variational Problems on Orlicz-Sobolev Spaces : A Review*, Proceedings of the AMS-SIAM Summer Seminar on Nonlinear Systems of Partial Differential Equations in Applied Mathematics, B. Nicolaenko, D.D. Holm, J.M. Hyman, editors, AMS-Lectures in Applied Mathematics 23 (2) (1986): 109-122.

24. *On a Class of Strongly Nonlinear Dirichlet Boundary-Value Problems: Beyond Pohozaev's Results*, Nonlinear Functional Analysis and its Applications, F. Browder, editor, Proceedings of Symposia in Pure Mathematics 45 (2) (1986): 521-525.

25. *Hölder-Regularity for the Solutions of Strongly Nonlinear Eigenvalue Problems on Orlicz-Sobolev Spaces*, Houston Journal of Mathematics 13 (2) (1987): 281-287.

26. *Elliptic Regularization for a Class of Strongly Nonlinear Degenerate Eigenvalue Problems on Orlicz-Sobolev Spaces I: The ODE Case*, Houston Journal of Mathematics 13 (4) (1987): 573-597.

27. *Nonexistence of Spatially Localized Free Vibrations for a Class of Nonlinear Wave Equations*, Commentarii Mathematici Helvetici 62 (4) (1987): 573-586.

28. *Compact Embeddings for Weighted Orlicz-Sobolev Spaces on R^N*, Mathematische Annalen 279 (2) (1987): 277-296.

29. *Spatially Localized Free Vibrations for Certain Semilinear Wave Equations on R^2: Recent Results and Open Problems*, Proceedings of the Third UAB International Conference on Differential Equations and Mathematical Physics, I. Knowles, Y. Saito, editors, Springer Verlag, Lecture Notes in Mathematics 1285 (1987): 493-499.

30. (With Scarpellini B.) *Variétés Stables et Instables pour Certaines Equations des Ondes Semilinéaires dans R^2,* Comptes Rendus de l'Académie des Sciences de Paris 306, I (1988): 33-36.

31. *Variétés Lisses Associées à Certains Systèmes Dynamiques et Solitons Périodiques pour les Equations de Klein-Gordon Nonlinéaires sur R^2*, Comptes Rendus de l'Académie des Sciences de Paris 307, I (1988): 639-642.

32. (With Scarpellini B.) *Smooth Manifolds for Semilinear Wave Equations on R^2: On the Existence of Almost-Periodic Breathers*, Journal of Differential Equations 77 (1) (1989): 123-166.

33. *Problèmes de Cauchy Multipériodiques et Solitons Quasipériodiques pour les Equations de Klein-Gordon Nonlinéaires sur R^2*, Comptes Rendus de l'Académie des Sciences de Paris 308, I (1989): 215-218.

34. *Smooth Manifolds for Multiperiodic Cauchy Problems and Quasi- Periodic Solitons for Nonlinear Klein-Gordon Equations on R^2*, Proceedings of the International Conference « Advanced Topics in the Theory of Dynamical Systems », G. Fusco, M. Iannelli, L. Salvadori, editors, Academic Press (1989): 247-251.

35. *Periodic Soliton Solutions to Nonlinear Klein-Gordon Equations on R^2*, Differential and Integral Equations 3 (3) (1990): 541-570.

36. *Quasiperiodic Soliton Solutions to Nonlinear Klein-Gordon Equations on R^2*, Mathematische Zeitschrift 203 (2) (1990): 235-253.

37. *Attracteurs Presque-Périodiques pour une Classe d'Equations Paraboliques Nonlinéaires du Type Réaction-Diffusion sur R^N*, Comptes Rendus de l'Académie des Sciences de Paris 311, I (1990): 583-588.

38. *Almost-Periodic Attractors for a Class of Nonautonomous Reaction-Diffusion Equations on R^N, I. Global Stabilization Processes*, Journal of Differential Equations 94 (2) (1991): 228-253.

39. *A Geometric Theory for Semilinear Almost-Periodic Parabolic Partial Differential Equations on R^N*, Proceedings of the School on Qualitative Aspects and Applications of Nonlinear Evolution Equations, P. de Mottoni, Li Ta-tsien, editors, World Scientific (1991): 185-201.

40. *Almost-Periodic Attractors for a Class of Nonautonomous Reaction-Diffusion Equations on R^N, II. Codimension-One Stable Manifolds*, Differential and Integral Equations 5 (3) (1992): 693-720.

41. *Small Divisors and the Construction of Stable Manifolds for Nonlinear Klein-Gordon Equations on R^+xR*, Proceedings of the International Workshop on Nonlinear Hyperbolic Equations, M.K.V. Murthy, S. Spagnolo, editors, Pitman Research Notes in Mathematics (1992): 197-213.

42. *Global Exponential Attractors for a Class of Almost-Periodic Parabolic Equations on R^N*, Proceedings of the American Mathematical Society 116 (3) (1992): 775-782.

43. *Variétés Inertielles et Stabilité de Liapounov pour une Classe d'Equations Paraboliques Semilinéaires Presque-Périodiques sur R^N*, Comptes Rendus de l'Académie des Sciences de Paris 316, I (1993): 711-716.

44. *Almost-Periodic Attractors for a Class of Nonautonomous Reaction-Diffusion Equations on R^N, III. Center Curves and Liapounov Stability*, Journal of Nonlinear Analysis: Theory, Methods and Applications 22 (5) (1994): 533-559.

45. *Geometric Methods in Nonlinear Analysis: Two Examples from the Theory of Nonlinear Partial Differential Equations*, Proceedings of the 3rd International Conference on Stochastic Processes, Physics and Geometry, S. Albeverio, U. Cattaneo, D. Merlini, editors, World Scientific (1995): 697-710.

46. (With Bernfeld S. and Hu Y. Y.) *Homogénéisation Spatiale et Equivalence Asymptotique pour une Classe d'Equations Paraboliques Semilinéaires Non-Autonomes*, Comptes Rendus de l'Académie des Sciences de Paris 320, I (1995): 859-862.

47. (With Chueshov I. D.) *On the Large-Time Dynamics of a Class of Random Parabolic Equations*, Comptes Rendus de l'Académie des Sciences de Paris 322, I (1996): 1181-1186.

48. (With Chueshov I. D.) *On the Large-Time Dynamics of a Class of Parabolic Equations Subjected to Homogeneous White Noise: Stratonovitch's Case*, Comptes Rendus de l'Académie des Sciences de Paris 323, I (1996): 29-33.

49. (With Bernfeld S.) *Asymptotic Behavior of Solutions of Limiting Differential Equations*, in Advances in Nonlinear Dynamics, Stability and Control Theory, Methods and Applications, V. Lakshmikantham, A.A. Martynuk, S.S. Sivasundaram, editors, Gordon and Breach (1997): 23-32.

50. (With Chueshov I. D.) *Long-Time Behavior of Solutions to a Class of Quasilinear Parabolic Equations with Random Coefficients*, Annales de l'Institut Henri-Poincaré, Analyse Nonlinéaire 15 (2) (1998): 191-232.

51. (With Bernfeld S. and Hu Y. Y.) *Large-Time Asymptotic Equivalence for a Class of Non-Autonomous Semilinear Parabolic Equations*, Bulletin des Sciences Mathématiques 122 (5) (1998): 337-368.

52. (With Chueshov I. D.) *On the Large-Time Dynamics of a Class of Parabolic Equations Subjected to Homogeneous White Noise: Itô's Case*, Comptes Rendus de l'Académie des Sciences de Paris 326, I (1998): 1299-1304.

53. (With Chueshov I. D.) *Long-Time Behavior of Solutions to a Class of Stochastic Parabolic Equations with Homogeneous White Noise: Stratonovitch's Case*, Probability Theory and Related Fields 112 (2) (1998): 149-202.

54. (With Bergé B. and Chueshov I. D.) *Lyapunov Exponents and Stability for Nonlinear SPDE's Driven by Finite-Dimensional Wiener Processes*, Comptes Rendus de l'Académie des Sciences de Paris 329, I (1999): 215-220.

55. (With Chueshov I. D.) *Long-Time Behavior of Solutions to a Class of Stochastic Parabolic Equations with Homogeneous White Noise: Itô's Case*, Stochastic Analysis and Applications 18 (4) (2000): 581-615.

56. (With Bergé B. and Chueshov I. D.) *On the Behavior of Solutions to Certain Parabolic SPDE's Driven by Wiener Processes*, Stochastic Processes and Their Applications 92 (2) (2001): 237-263.

57. (With Sanz-Solé M.) *Hölder-Sobolev Regularity of Solutions to a Class of SPDE's driven by a Spatially Colored Noise*, Comptes Rendus de l'Académie des Sciences de Paris 334, I (2002): 869-874.

58. (With Sanz-Solé M.) *Equivalence and Hölder-Sobolev Regularity of Solutions for a Class of Non Autonomous Stochastic Partial Differential Equations*, Annales de l'Institut Henri-Poincaré, Probabilités et Statistique 39 (4) (2003): 703-742.

59. (With Chueshov I. D.) *Non-Random Invariant Sets for Some Systems of Parabolic Stochastic Partial Differential Equations,* Stochastic Analysis and Applications 22 (6) (2004): 1421-1486.

60. (With Nualart D.) *Variational Solutions for a Class of Fractional Stochastic Partial Differential Equations,* Comptes Rendus de l'Académie des Sciences de Paris 340, I (2005): 281-286.

61. (With Nualart D.) *A Stabilization Phenomenon for a Class of Stochastic Partial Differential Equations,* Proceedings of the Seventh CIRM-International Conference on Stochastic Partial

Differential Equations and Applications, Lecture Notes in Pure and Applied Mathematics Series, G. Da Prato, L Tubaro, editors, Chapman and Hall/CRC, 245 (2005): 215-227.

62. (With Nualart D.) *Variational Solutions for Partial Differential Equations Driven by a Fractional Noise,* Journal of Functional Analysis, 232 (2) (2006): 390-454.

63. (With Wreszinski W. F. and Zagrebnov V. A.) *A Trotter-Kato Product Formula for a Class of Non-Autonomous Evolution Equations,* Nonlinear Analysis: Theory, Methods and Applications, 69 (3) (2008): 1067-1072.

64. (With Sanz-Solé M.) *Mild Solutions for a Class of Fractional SPDEs and Their Sample Paths,* Journal of Evolution Equations, 9 (2) (2009): 235-265.

65. (With Wreszinski W. F. and Zagrebnov V. A.) *A General Trotter-Kato Formula for a Class of Evolution Operators,* Journal of Functional Analysis, 257 (7) (2009): 2246-2290.

66**.** *A Generalization of Chernoff's Product Formula for Time-Dependent Operators,* Journal of Functional Analysis, 259 (11) (2010): 2923-2938.

67. (With Wreszinski W. F.) *Product Approximations for Solutions to a Class of Evolution Equations in Hilbert Space,* Portugaliae Mathematica, 68 (3) (2011): 317-343.

68. (With Zambrini J. C.) *Bernstein Diffusions for a Class of Linear Parabolic Partial Differential Equations,* Journal of Theoretical Probability**,** DOI 10.1007/s10959-012-0426-3 (2012), and 27 (2) (2014): 449-492.

69**.** (With Petersen W. P.) *Product Approximations for a Class of Quantum Anharmonic Oscillators,* Zeitschrift für Angewandte Mathematik und Physik, DOI 10.1007/s00033-013-0346-9 (2013), and 65 (4) (2014): 613-643.

70. (With Cruzeiro A. B.) *Forward-Backward Stochastic Differential Equations generated by Bernstein Diffusions,* Stochastic Analysis and Applications, DOI 10.1080/07362994.2014.968669 (2014), and 33 (1) (2015): 91-109.

71. (With Zambrini J. C.) *On Some Gaussian Bernstein Processes in RN and the Periodic Ornstein-Uhlenbeck Process,* Stochastic Analysis and Applications, DOI 10.1080/07362994.2016.1156547 (2016), and 34 (4) (2016): 573-597.

72. *On the Time Evolution of Bernstein Processes associated with a Class of Parabolic Equations,* Discrete and Continuous Dynamical Systems Series B, DOI 10.3934/dcdsb.2018142 (2018) and 23 (3) (2018): 1073-1090.

73. (With Dozzi M. and Touibi R.) *Global Variational Solutions to a Class of Fractional SPDE's on Unbounded Domains*, Stochastic Analysis and Applications, DOI 10.1080/07362994.2018.1535320 (2018), and 37 (1) (2019): 57-73.

74. (With Zambrini J. C.) *On Bernstein Processes generated by Hierarchies of Linear Parabolic Systems in RD,* Stochastic Processes and their Applications, DOI 10.1016/j.spa.2019.09.003 (2019), and 130 (5) (2020): 2974-3004.

75. *On Bernstein Processes of Maximal Entropy,* Stochastic Analysis and Applications, DOI 10.1080/07362994.2020.1733607 (2020), and 38 (5) (2020): 886-908.

76. (With Bögli S.) *A Spectral Theorem for the Semigroup generated by a Class of Infinitely Many Master Equations,* Acta Applicandae Mathematicae, DOI: 10.1007/s10440-022-00478-x (2022), and 178, 4 (2022).

77. (With Bögli S.) *On the Asymptotic Behavior of Solutions to a Class of Grand Canonical Master Equations*, Portugaliae Mathematica, DOI: 10.4171/PM/2102 (2023), and 80 (3/4) (2023): 269-289.

List of Invited Lectures:

1. *Sur l'Existence de Transitions de Phase dans une Classe de Systèmes Réticulaires Bidimensionnels*, Mathematical Physics Seminar, Swiss Institute of Technology, Lausanne (1974).

2. *Correlation Inequalities for Classical Heisenberg Ferromagnets*, Yeshiva Meeting on Statistical Mechanics, New York (1975).

3. *Correlation Inequalities in Classical Statistical Mechanics with Applications to the Problem of Phase Transitions in Ferromagnets*, Mathematical Physics Seminar, Princeton University, Princeton (1976).

4. *Hamiltonian Dynamics of the Classical Heisenberg Ferromagnet*, Yeshiva Meeting on Statistical Mechanics, New York (1978).

5. *Ergodic Properties of Some Random Magnetic Systems*, Mathematical Physics and Probability Seminar, Cornell University, Ithaca (1978).

6. *Nonlinear Dynamics Generated by Some Hamiltonian Systems*, Regional Conference on Nonlinear Wave Theory, Clarkson College, Postdam (1979).

7. *Nonlinear Hill's Equations and the Beam-Beam Interaction*, Symposium on the Physical and Mathematical Aspects of Beam-Beam Interactions, Brookhaven National Laboratory, Brookhaven (1979).

8. *Nonlinear Dynamics and the Beam-Beam Interaction*, SLAC Symposium on the Beam-Beam Interactions, Palo Alto (1980).

9. *Nonlinear Hill's Equations: Some Recent Results*, Regional Conference on Differential Equations, VPI, Blacksburg (1981).

10. *Periodic Solutions to Nonlinear Hill's Equations*, Regional Conference on Differential Equations, NCSU, Raleigh (1982).

11. *Variational Problems on Nonreflexive Banach Spaces*, Colloquium at the IMPA, Rio de Janeiro (1982).

12. *Isoperimetric Variational Problems on Certain Orlicz-Sobolev Spaces*, Regional Conference on Differential Equations, UAB, Birmingham (1983).

13. *Sturm-Liouville Eigenvalue Problems with Polynomial and Exponential Nonlinearities*, Special Session on Differential Equations, AMS Annual Meeting, Denver (1983).

14. *A Class of Elliptic Partial Differential Equations with Exponential Nonlinearities*, AMS Summer School on Nonlinear Functional Analysis, UC Berkeley, Berkeley (1983).

15. *Variational Problems on Orlicz-Sobolev Spaces*, Texas Conference on Partial Differential Equations, San Marcos (1984).

16. *Sharp Regularity Results for Some Degenerate Sturm-Liouville Eigenvalue Problems*, Western States Mathematical Physics Conference, California Institute of Technology, Pasadena (1985).

17. *Sharp Regularity Results for Some Degenerate Sturm-Liouville Eigenvalue Problems*, Nonlinear Analysis Seminar, University of Basel, Basel (1985).

18. *Regularity Theory for Elliptic Systems on Orlicz-Sobolev Spaces*, Analysis Seminar, ETH Mathematics Research Center, Zürich (1985).

19. *Restored Compactness and Sharp Existence Results for Some Degenerate Elliptic Eigenvalue Problems*, Center for Nonlinear Studies (CNLS), Los Alamos (1985).

20. *Periodic Nonlinear Waves and Infinite-Dimensional Dynamical Systems*, Center for Nonlinear Studies (CNLS), Los Alamos (1985).

21. *New Nonexistence Results for Spatially Localized Free Vibrations of Some Nonlinear Wave Equations*, Session on the Calculus of Variations, Mathematical Institute, Oberwohlfach (1986).

22. *Spatially Localized Free Vibrations of Certain Semilinear Wave Equations in R^2: Recent Results and Open Problems*, Nonlinear Analysis Seminar, University of Zürich, Zürich (1986).

23. *Solutions Périodiques Localisées pour Certaines Equations des Ondes sur R^2 : Résultats Récents et Problèmes Ouverts*, Analysis Seminar, Swiss Institute of Technology, Lausanne (1986).

24. *Non-Existence of Soliton Bound States for Some Nonlinear Wave Equations*, BBC Research Center, Dättwil (1986).

25. *Some Recent Results on Nonlinear Elliptic and Hyperbolic Partial Differential Equations*, Colloquium at the University of Oulu, Oulu (1986).

26. *Sur l'Existence de Vibrations Libres Presque-Périodiques à Profils Exponentiellement Décroissants pour Certaines Equations des Ondes sur R^2*, Mathematical Physics Seminar, University of Geneva, Geneva (1987).

27. *Compact Embeddings for Weighted Orlicz-Sobolev Spaces on R^N*, Colloquium at the University of Basel, Basel (1987).

28. *Invariant Manifolds for Certain Semilinear Wave Equations: Existence of Almost-Periodic Breathers*, International Conference on Dynamical Systems, University of Trento, Trento (1987).

29. *Invariant Manifolds for Certain Semilinear Wave Equations on R^2: Some Recent Results*, Mathematical Physics Seminar, University of Trento, Trento (1987).

30. *Invariant Manifolds for Nonlinear Klein-Gordon Equations on R^2: Some Recent Results*, Analysis Seminar, University of Basel, Basel (1988).

31. *Invariant Manifolds for Nonlinear Klein-Gordon Equations on R^2: Some Recent Results*, Session on Hyperbolic Systems of Conservation Laws, Mathematical Institute, Oberwohlfach (1988).

32. *Smooth Manifolds for Certain Dynamical Systems on Tori and a Semilinear Wave Equation*, Plenary Session of the Swiss Mathematical Society, Lausanne (1988).

33. *Nonlinear Klein-Gordon Equations and Infinite-Dimensional Dynamical Systems*, Colloquium at the University of Zürich, Zürich (1988).

34. *Nonlinear Klein-Gordon Equations on R^2 and Infinite-Dimensional Dynamical Systems*, Session on the Functional Analytical Methods in the Theory of Nonlinear Evolution Equations, Mathematical Institute, Oberwohlfach (1989).

35. *Almost-Periodic Attractors for a Class of Nonautonomous Parabolic Equations on R^N*, Mathematical Physics Seminar, University of Trento, Trento (1989).

36. *Some Recent Results in the Theory of Infinite-Dimensional Dynamical Systems*, Analysis Seminar, University of Oulu, Oulu (1989).

37. *Smooth Manifolds for Nonlinear Klein-Gordon Equations in the Presence of Small Divisors*, Analysis Seminar, University of Bonn, Bonn (1990).

38. *Spatially Localized Time-Quasiperiodic Solutions to Nonlinear Klein-Gordon Equations on R^2*, Seminar on the Geometric Methods in Mathematical Physics, Max-Planck Institute, Bonn (1990).

39. *Almost-Periodic Attractors for a Class of Nonautonomous Reaction-Diffusion Equations on R^N*, Mathematical Physics Seminar, University of Bonn, Bonn (1990).

40. *Smooth Manifolds for Nonlinear Klein-Gordon Equations in the Presence of Small Divisors*, International Conference on Nonlinear Hyperbolic Equations, Varenna (1990).

41. *A Geometric Theory of Semilinear Almost-Periodic Parabolic Partial Differential Equations on R^N*, Summer School Course on the Qualitative Aspects and Applications of Nonlinear Evolution Equations, International Center of Theoretical Physics, Trieste (1990).

42. *Equations de Klein-Gordon Nonlinéaires et Systèmes Dynamiques en Dimension Infinie*, Colloquium at the University of Strasbourg-I, Strasbourg (1990).

43. *Courbes Centrales et Stabilité de Liapounov : Application aux Equations du Type Réaction-Diffusion Presque-Périodiques*, Colloquium at the University of Nancy-I, Nancy (1991).

44. *Almost-Periodic Attractors for a Class of Reaction-Diffusion Equations on R^N*, Session on Nonlinear Evolution Equations, Mathematical Institute, Oberwohlfach (1991).

45. *Equations de Klein-Gordon Nonlinéaires et Systèmes Dynamiques en Dimension Infinie*, Nonlinear Analysis Seminar, University of Besançon, Besançon (1991).

46. *Small Denominators, Infinite-Dimensional Dynamical Systems and Nonlinear Klein-Gordon Equations*, 3rd International Conference on Stochastic Processes, Physics and Geometry, Locarno (1991).

47. *Fast-Periodische Reaktion-Diffusionsgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium at the University of Saarbrücken, Saarbrücken (1992).

48. *Almost-Periodic Attractors for a Class of Reaction-Diffusion Equations*, Nonlinear Analysis Seminar, University of Texas, Denton (1992).

49. *Fast-Periodische Reaktion-Diffusionsgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium on Applied Mathematics, Swiss Institute of Technology, Zürich (1992).

50. *Fast-Periodische Reaktion-Diffusionsgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium at the University of Clausthal, Clausthal-Zellerfeld (1992).

51. *Almost-Periodic Attractors for a Class of Reaction-Diffusion Equations*, International Conference on Differential Equations and Mathematical Physics, Atlanta (1992).

52. *Fast-Periodische Reaktion-Diffusionsgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium at the Christian-Albrecht University, Kiel (1993).

53. *Fast-Periodische Reaktion-Diffusionsgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium at the Philipps University, Marburg (1993).

54. *Equations de Klein-Gordon Nonlinéaires et Systèmes Dynamiques en Dimension Infinie*, Conference URA-CNRS, University Henri-Poincaré, Nancy-I, Nancy (1993).

55. *Inertial Manifolds for Almost-Periodic Parabolic Equations*, Session on the Functional Analytical Methods in the Theory of Nonlinear Partial Differential Equations, Mathematical Institute, Oberwohlfach (1993).

56. *Stabilization and Stability of Solutions for Nonautonomous Parabolic Equations on R^N : Some Recent Results*, International Colloquium on Nonlinear Analysis, University of Fes, Fes (1994).

57. *Invariant Manifolds and the Qualitative Analysis of Nonlinear Partial Differential Equations*, International Conference Henri-Poincaré, University of Nancy-II, Nancy (1994).

58. *Liapunov Stabilität bei Fast-Periodischen Parabolischen Partiellen Differentialgleichungen und Zentrumsmannigfaltigkeiten*, Colloquium at the University of Zürich, Zürich (1994).

59. *Geometric Methods for the Analysis of the Long-Time Behavior of Solutions to Nonautonomous Parabolic Equations: Some Recent Results*, International Conference on Stochastic Partial Differential Equations, University of Aix-Marseille, Luminy (1994).

60. *Large-Time Asymptotic Equivalence for a Class of Non-Autonomous Semilinear Parabolic Equations*, Workshop on Elliptic and Parabolic Problems, University of Basel, Basel (1995).

61. *Stabilization and Recurrence Phenomena for a Class of Semilinear Parabolic Stochastic Equations in Divergence Form*, International CIRM-Conference on Nonlinear Parabolic Problems, Levico Terme (1995).

62. *Long-Time Behavior of Random Fields that are Solutions to a Class of Stochastic Parabolic Equations*, Evolutionary Systems Seminar, University of Minnesota, Minneapolis (1995).

63. *Long-Time Behavior of Random Fields that are Solutions to a Class of Stochastic Parabolic Equations*, International Conference on Evolutionary Problems in Dynamical Systems, Levico Terme (1995).

64. *Stochastic Quasilinear Parabolic Partial Differential Equations*, Colloquium at the University of Delft, Delft (1996).

65. *Stabilization and Recurrence Phenomena for Quasilinear Parabolic Equations with Random Coefficients*, Colloquium at the University of California at Santa Cruz, Santa Cruz (1996).

66. *On the Long-Time Behavior of Solutions to a Class of Stochastic Parabolic Equations*, Partial Differential Equations Seminar, University of California at Berkeley, Berkeley (1996).

67. *On the Long-Time Behavior of Certain Random Fields*, Partial Differential Equations Seminar, Stanford University, Stanford (1996).

68. *Some Recent Results on the Long-Time Behavior of Certain Random Fields*, Colloquium at the University of Konstanz, Konstanz (1996).

69. *Sur le Comportement Asymptotique de Certains Champs Aléatoires*, Analysis Seminar, Swiss Institute of Technology, Lausanne (1996).

70. *Stabilization and Recurrence Phenomena for a Class of Semilinear Parabolic Stochastic Equations in Divergence Form*, International CIRM-Conference on Stochastic Partial Differential Equations and Applications, Levico Terme (1997).

71. *Lyapunov Exponents and Nonlinear Parabolic Problems of Itô Type*, Nonlinear Analysis Seminar, University of Basel, Basel (1997).

72. *Lyapunov Exponents and Nonlinear Stochastic Parabolic Problems*, Colloquium at the Mathematical Sciences Research Institute, MSRI, Berkeley (1997).

73. *The Global Attractor for a Class of Nonlinear Parabolic Itô Equations*, Stochastic Analysis Seminar, Mathematical Sciences Research Institute, MSRI, Berkeley (1997).

74. *Systèmes Dynamiques Aléatoires Monotones en Dimension Infinie : Résultats Récents et Perspectives*, Journées de Probabilités Evry - Nancy - Strasbourg, University Henri-Poincaré, Nancy - I, Nancy (1998).

75. *L'attracteur Global pour une Classe d'Equations Paraboliques Semilinéaires Stochastiques*, Séminaire Equations aux Dérivées Partielles, University Paul Sabatier, Toulouse - III, Toulouse (1998).

76. *Sur l'Attracteur Global associé à Certains Problèmes Paraboliques Nonlinéaires de Type Itô*, Journées de Probabilités, Centre International de Rencontres Mathématiques, Luminy (1998).

77. *On the Structure of the Global Attractor for a Class of Semilinear Parabolic Itô Equations*, Seminar on Stochastic Processes, Swiss Institute of Technology, Zürich (1998).

78. *Lyapunov Exponents and Stability for the Solutions to Nonlinear SPDE's Driven by Wiener Processes*, International Conference on Stochastic Evolution Equations, Lisbon (1999).

79. *Lyapunov Exponents and Stability for the Solutions to Nonlinear SPDE's Driven by Wiener Processes*, Mathematical Physics Seminar, University of Arizona, Tucson (1999).

80. *Lyapunov Exponents and Stability for a Class of Nonlinear Stochastic Parabolic Equations*, Center for Dynamical Systems and Nonlinear Studies Colloquium, Georgia Institute of Technology, Atlanta (1999).

81. *Remarks on the Long-Time Behavior of Certain Random Fields*, Center for Dynamical Systems and Nonlinear Studies Dynamics Seminar, Georgia Institute of Technology, Atlanta (1999).

82. *Some Recent Results Concerning Nonlinear Parabolic Itô Equations*, Analysis Seminar, Emory University, Atlanta (1999).

83. *Some Recent Results Concerning Nonlinear Parabolic Itô Equations*, International CIRM Conference on Stochastic Partial Differential Equations and Applications, Levico Terme (2000).

84. *Exposants de Lyapunov et Stabilité des Solutions d'une Classe d'EDPS Semilinéaires Dirigées par des Processus de Wiener*, Probability Seminar, Swiss Institute of Technology, Lausanne (2000).

85. *Long-Time Behavior of Solutions to a Class of Nonlinear SPDE's*, Probability Seminar, University of Barcelona, Barcelona (2000).

86. *Exchange of Stability Results for a Class of Nonlinear SPDE's Driven by Wiener Processes*, Centre de Recerca Matematica Probability Seminar, Barcelona (2000).

87. *Examples of Global Attractors for a Class of Stochastic Partial Differential Equations*, Colloquium at the University of Zürich, Zürich (2001).

88. *On the Hölder-Sobolev Regularity of Solutions to a Class of Parabolic Equations Driven by a Spatially Colored Noise*, International CIRM-Conference on Stochastic Partial Differential Equations and Applications, Levico Terme (2002).

89. *Quelques Résultats Récents Concernant la Régularité Hölder-Sobolev des Solutions d'Equations aux Dérivées Partielles Stochastiques Nonlinéaires,* Journées de Probabilités Evry-Nancy-Strasbourg, Université Louis-Pasteur, Strasbourg (2003).

90. *Some Recent Results for a Class of Fractional Partial Differential Equations,* International CIRM-Conference on Stochastic Partial Differential Equations and Applications, Levico Terme (2004).

91. *Equivalence of Various Notions of Solutions for a Class of Semilinear Stochastic Partial Differential Equations,* Colloquium on Fractal Geometry and Stochastics, University of Jena, Jena (2004).

92. *Lyapunov Exponents and Stability for the Solutions to a Class of Stochastic Partial Differential Equations,* Colloquium on Fractal Geometry and Stochastics, University of Jena, Jena, (2004).

93. *Some Recent Results on Fractional Partial Differential Equations,* International Conference on Stochastic Partial Differential Equations, Scuola Normale di Pisa, Pisa (2006).

94. *Variational Solutions to a Class of Parabolic Partial Differential Equations Driven by a Fractional Noise,* Probability Seminar, University of Barcelona, Barcelona (2007).

95. *Variational Solutions for a Class of Partial Differential Equations Driven by a Fractional Noise,* Partial Differential Equations Seminar, Northwestern University, Evanston, (2007).

96. *Hölder-Sobolev Regularity of Solutions for a Class of Stochastic Partial Differential Equations,* Analysis and Probability Seminar, Northwestern University, Evanston, (2007).

97. *New Developments in Stochastic Partial Differential Equations,* Second US-Chile Workshop on: New Developments in Partial Differential Equations, Santiago de Chile, (2008).

98. *Trotter-Kato Formulae for a Class of Non-Autonomous Evolution Equations,* Mathematical Physics Seminar, ETHZ, Zurich (2009).

99. *New Trotter-Kato Product Formulae for a Class of Time-Dependent Operators,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2009).

100. *Product Approximations for Solutions to Time-Dependent Schrödinger Evolution Equations in Hilbert Space,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2010).

101. *Bernstein Diffusions for a Class of Linear Parabolic Partial Differential Equations,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2011).

102. *Inhomogeneous Bernstein Diffusions and Parabolic Equations: Some Recent Results,* Mini-Course, EPFL, Lausanne (2012).

103. *Parabolic Problems and Bernstein Diffusions: Some New Results,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2012).

104. *Product Approximations for a Class of Quantum Anharmonic Oscillators: Analytical and Numerical Results,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2013).

105. *Diffusions de Bernstein et Problèmes Paraboliques,* Colloquinte de Probabilités, Institut Élie Cartan, Université de Lorraine, Nancy (2014).

106. *Forward-Backward Stochastic Differential Equations generated by Bernstein Diffusions,* Mathematical Physics Seminar, University of Lisbon, Lisbon (2014).

107. *Parabolic Problems and Bernstein Processes: Some Recent Results,* Functional Analysis and Differential Equations Seminar, University of Lisbon, Lisbon (2015).

108. *On the Periodic Ornstein-Uhlenbeck Process*, IFIP TC7 Conference on System Modelling and Optimization, Essen (2018).

109. *Bernstein Processes, Parabolic Problems and Spectral Theory,* International Workshop on Stochastic Geometric Mechanics and Mass Transportation Problems, Lisbon (2018).

110. *Bernstein Processes, Parabolic Problems and Spectral Theory,* Analysis Seminar, University Nova of Lisbon, Lisbon (2018).

111. *Bernstein Processes of Maximal Entropy,* Second Conference of the European Physical Society Statistical and Nonlinear Physics Division, Stockholm (2019).

112. *On Entropy Functionals associated with Bernstein Stochastic Processes*, Analysis Seminar, University of Coimbra, Coimbra (2019).

113. *Some Aspects of Non-Equilibrium Statistical Mechanics,* Mathematics Department Colloquium, University of Lisbon (2023).