

**CURRICULUM VITAE**  
**GIOVANNI GALLAVOTTI**

Università degli Studi di Roma, La Sapienza  
Dipartimento di Fisica  
Piazzale Moro 5  
00185 ROMA, ITALIA  
Department of Mathematics  
Rutgers University  
New Brunswick, NJ 08903  
(732) 445-5705

Web: <http://ipparco.roma1.infn.it/~gallavot>  
email: [giovanni.gallavotti@roma1.infn.it](mailto:giovanni.gallavotti@roma1.infn.it)

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- 1) Birthdate 29–December–1941
- 2) Laurea cum laude in Physics, Università di Roma, 1963.
- 3) Diploma cum laude of the Scuola di perfezionamento in Fisica, Università di Firenze, 1965.
- 4) Professor without tenure of “Fisica I” at the Engineering School, Università di Firenze, 1964/65.
- 5) Professor without tenure of “Fisica dei neutroni” at the Facoltà di Scienze, Università di Firenze, 1965/66.
- 6) Research Associate in Mathematical Physics at the Institut des Hautes Etudes Scientifiques (I.H.E.S.) Paris, 1966/67 – 1967/68.
- 7) Research Associate at the Mathematics Department of the Rockefeller University, New York, 1968/69 – 1969/70.
- 8) Libero docente (professor without chair) of “Istituzioni di Fisica Teorica,” December 1969.
- 9) Assistant Professor with tenure of “Analisi Matematica” at the Mathematics Department of the Università di Roma, 1970/71 – 1971/72.
- 10) Associate Professor with tenure of “Istituzioni di Analisi Superiore” at the Mathematics Department of the Università di Roma, 1970/71 – 1971/72.
- 11) Professor of “Meccanica Razionale,” November 1971 (this means that I could be legally given a tenured full professorship in Mechanics or related topics).
- 12) Professor with tenure of “Metodi Matematici della Fisica” at the Physics Department of the Università di Napoli, 1972/73 – 1974/75.
- 13) Visiting Professor at the Theoretical Physics Department of the University of Nijmegen, Netherlands, 1973/74.
- 14) Editor for Equilibrium Statistical Mechanics for “Communications in Mathematical Physics,” October 1973 to October 1976.
- 15) Offer of a tenured full professorship in “Probability Theory” at the ETH of Zürich, Switzerland, 1974 (not accepted)
- 16) Transferred to the chair of “Meccanica Razionale” of the Istituto di Matematica of the Università di Roma, 1–November–1975.
- 17) Member of the Editorial Board of the Encyclopedia of Mathematics of Addison-Wesley, since December 1975.

- 18) Member of the Editorial Board of the “Journal of Statistical Physics,” October 1976 to 1978.
- 19) Transferred to the chair of “Istituzioni di Fisica Matematica” of the Istituto Matematico of the Università di Roma, 1–November–1980.
- 20) “Lefschetz professor” at the Mathematics Department of Princeton University, 1982
- 21) Transferred to the chair of “Meccanica Razionale” of the Mathematics Department of the II<sup>a</sup> Università di Roma, 1–November–1983.
- 22) Offer of a tenured full professorship by Rutgers University, 1983.
- 23) Member of the Institute for Advanced Study of Princeton 1984/85.
- 24) Editor of the Section “Meccanica Statistica” of the “Dizionario di Scienze Fisiche” of the Enciclopedia Italiana.
- 25) Member of the Editorial Advisory Board of rivista “Acta Applicandae Mathematicae,” since 1984; of “Computational Mechanics,” since 1985; of the board of Editors of “Il Nuovo Cimento B,” since 1985, and of “Meccanica” since 1987; of “Forum Mathematicum” since 1987.
- 26) Member of the Advisory Board of the series “Studies in Statistical Mechanics,” printed by North Holland, directed by J. Lebowitz, since 1985.
- 27) Director of the International Meeting “Problemi Matematici dalla Meccanica dei Fluidi,” Accademia dei Lincei, IBM-Italia, CNR in Roma (at the Academy), 6–12 June 1986.
- 28) Invited talk at the International Congress of mathematicians, Berkeley, August 1986.
- 29) Director of the International School “Non linear Evolution and Chaotic Phenomena,” City of Noto, NATO-ASI, Università di Catania, IBM-Italia e CNR (Noto), 8–19 June 1987.
- 30) Professor at the “Centro Interdisciplinare Linceo” “Beniamino Segre,” Academy, Roma, for the years 1986/1989
- 31) Transferred to the Chair of “Meccanica dei Fluidi” of the Physics Department of the Università di Roma, La Sapienza, 1988.
- 32) Founding member and member of the Board of “Chief editors” of “Journal of Nonlinear Science,” since 1988.
- 33) Invited to deliver a plenary talk at the “SIAM conference on applications of dynamical systems”, October 15- 19, 1992, Snowbird, Utah.
- 35) Codirector of I<sup>o</sup> Celestial Mechanics National Meeting Aquila, maggio 1993.
- 36) Chair of “Meccanica Superiore”, november 1994.
- 37) Correspondent Member of the Accademia Nazionale dei Lincei, July 1994.
- 38) Nov. 1995, prize for the “best article on Annales de l’ Institut Poincaré, Theoretical Physics section for the year 1994” to the paper n. 108 of the publication list
- 39) Prize “Presidente della Repubblica”, at the Natural Sciences Class of the Accademia Nazionale dei Lincei, 1997
- 40) Plenary address at the  $M \cap \Phi$  meeting, Brisbane, July 1997
- 41) Plenary address at the XX StatPhys meeting, Paris, July 1998.
- 42) Plenary address at the ICM98 meeting, Berlin, August 1998.
- 43) Member of the Scientific Board of I.H.E.S. (Paris), 1998–2003
- 44) Member of the editorial board of *Journal des Mathématiques pures et appliquées* of Paris, 1998– .
- 45) Director of the meeting “Separatrix splitting and Arnold diffusion”, I.H.E.S. (Paris), 5–18 September 1999.

- (46) Co-rganizator of *Workshop in nonequilibrium statistical mechanics*, february–march 1999 e 1-19 february 2001, ESI, Wien.
- (47) Member of the Scientific Committee for the organization of the Meeting  $M \cap \Phi$ , London–2000
- (48) Member of the Scientific Committee for the organization of the Meeting StatPhys, Mexico–2001
- (49) Member of the editorial board of *Communications in Mathematical Physics*, 2000–
- (50) Membro del Comitato Scientifico dell’ ESI di Vienna, gennaio 2000
- (51) Member of the Scientific Committee of the “Institut Henri Poincaré”, Paris, 2000–
- (52) Corresponding member of *Istituto di Studi Romani*, 2002.
- (53) Member of the Committee of the *IAMP*, Internatinal association for Mathematical Physics
- (54) Member of the editorial board of *Journal of Mathematical Physics*, 2004.
- (55) President of *IAMP*, International association for Mathematical Physics, 2006
- (56) Member of he organizing committee of the ”Boltzmann’s Legacy” International Symposium, ESI, Vienna, June 7-9, 2006.
- (57) Plenary talk at the 15-th ”Conferencia Nacional de Fisica” of the Portuguese Physical Society, Aveiro, 4-7 Sept. 2006.
- (58) Receipient of the *Boltzmann medal* for 2007 by IUPAP (Intenational Union of Pure and Applied Physics).
- (59) Member of the scientific committee of C.I.M.E., 1/1/2008

Participations and invitations to various Congresses and Schools can be desumed from the list of publications.

LIST OF PUBLICATIONS OF GIOVANNI GALLAVOTTI, coauthors in ( )

- (1) *Statistical Mechanics of lattice systems*, Communications in Mathematical Physics: **5**, 317–323, 1967, (S.Miracle–Solè).
- (2) *Correlation functions of a lattice system*, Communications in Mathematical Physics: **7**, 274–288, 1967, (S.Miracle–Solè).
- (3) *Analyticity properties of a lattice gas*, Physics letters: **25A**, 493–494, 1967, (S.Miracle–Solè, D.Robinson).
- (4) *A variational principle for equilibrium of hard sphere systems*, Annales de l’Institut Henry Poincaré: **8**, 287–299, 1968, (S.Miracle–Solè).
- (5) *On the mechanical equilibrium equations*, Il Nuovo Cimento, **57B**, 208–211, 1968.
- (6) *Analyticity properties of the anisotropic Heisenberg model*, Communications in Mathematical Physics, **10**, 311–324, 1968, (S.Miracle–Solè, D.Robinson).
- (7) *Absence of phase transitions in one dimensional systems with hard core*, Physics letters, **26A**, 350–351, 1968, (S.Miracle–Solè, D.Ruelle).
- (8) *On the cluster properties above the critical temperature in lattice gases*, Communications in Mathematical Physics, **12**, 269–274, 1969, (Miracle–Solè).
- (9) *Divergences and approach to equilibrium in the Lorentz and the Wind–tree–models*, Physical Review, **185**, 308–322, 1969.
- (10) *High temperature properties of random spin systems*, Journal of Mathematical Physics: **11**, 141–146, 1970.
- (11) *Absence of phase transitions in hard core one–dimensional systems with long range interactions*, Journal of Mathematical Physics: **11**, 147–154, 1970, (S.Miracle–Solè).
- (12) *Thermodynamic limit of time–dependent correlation functions for one–dimensional systems*, Journal of Mathematical Physics: **11**, 2898–2905, 1970, (O. Lanford, J.Lebowitz).
- (13) *One dimensional lattice gases with rapidly decreasing interactions*, Archive for Rational Mechanics and Analysis: **37**, 181–191, 1970, (T.F. Lin).
- (14) *A proof of the second Griffiths’ inequality for the X–Y model*, Studies in Applied Mathematics: **50**, 89–92, 1971.
- (15) *Thermalization of a magnetic impurity in the isotropic X–Y model*, Physical Review letters: **25**, 1449–1450, 1970, (D.Abraham, E.Barouch, A.Martin–Löf).
- (16) *Time evolution problems in Classical Statistical Mechanics and the Wind–tree–model*, in ”Cargese Lectures in Physics”, vol. IV, ed. D.Kastler, Gordon Breach, Paris, 1970, pp.257–275.
- (17) *Boundary conditions for the heat equation*, ed. Ateneo, Roma, 1970; also printed in a different form in Nagoya Journal of Mathematics (see 30 below), pp: 1–48, (H.P.Mc Kean).
- (18) *Statistical Mechanics of the electron–phonon system*, Lettere al Nuovo Cimento: **4**, 1293–1297, 1970, (J.Ginibre, G.Velo).
- (19) *Phase transitions in binary lattice gases*, Journal of Mathematical Physics: **12**, 1129–1133, 1971, (J.Lebowitz).
- (20) *Dynamics of a local perturbation in the X–Y model (I)*, Studies in Applied Mathematics: **50**, 121–131, 1971, (D.Abraham, E.Barouch, A.Martin–Löf).
- (21) *Surface tension in the Ising model*, Lettere al Nuovo Cimento, **2**, 143–146, 1971, (D. Abraham, A. Martin–Löf).

- (22) *Boundary conditions and Correlation Functions in the  $\nu$ -dimensional Ising model at low temperature*, Communications in Mathematical Physics, **23**, 275–284, 1971.
- (23) *Surface tension in the Ising Model*, Communications in Mathematical Physics: **25**, 87–126, 1972, (A.Martin-Löf).
- (24) *Equilibrium states of the Ising Model in the Two-phases Region*, Physical Review, **5B**, 2555–2559, 1972, (S.Miracle-Solè).
- (25) *Dynamics of a local perturbation in the X-Y model (II)*, Studies in Applied Mathematics: **51**, 211–218, 1972, (D. Abraham, E.Barouch, A.Martin-Löf).
- (26) *Alcuni risultati rigorosi in Meccanica Statistica e loro applicazioni alla fenomenologia delle transizioni di fase*, invited talk at the meeting of the italian Physical Society, Internal report of the Physics Department of the University of Rome, Nota interna n.**347**, 1971, pp. 1–16.
- (27) *Instabilities and Phase Transitions in the Ising Model*, La Rivista del Nuovo Cimento: **2**, 133–169, 1972.
- (28) *Dense sums*, Annales de l’Institut Henry Poincarè: **17**, 195–219, 1972, (G.Fano).
- (29) *The Phase separation line in the two—dimensional Ising model and its relationships with the non-free random walk problem*, Lettere al Nuovo Cimento, **4**, 699–703, 1972, (H.Van Beyeren).
- (30) *Boundary conditions for the heat equation in a several dimensional region*, Nagoya Mathematical Journal: **47**, 1–14, 1972, (H.P.Mc Kean).
- (31) *Phase separation line in the two—dimensional Ising model*, Communications in Mathematical Physics, **27**, 103–136, 1972.
- (32) *Some problems connectes with the phase separation in the Ising model at low temperature*, in Lecture notes in Physics, vol. **20**, ed. A.Lenard, Springer Verlag, Berlin, 1973, pp.162–204. (A.,Martin-Löf, S.Miracle-Solè).
- (33) *On the Onsager–Yang value of the spontaneous magnetization*, Communications in Mathematical Physics: **30**, 45–54, 1973, (G.Benettin, G.Jona-Lasinio, A.Stella).
- (34) *Exsistence and uniqueness of equilibrium states for some spin and continoum systems*, Communications in Mathematical Physics, **32**, 153–165, 1973, (M. Cassandro, J. Lebowitz, E. Monroe).
- (35) *Ising model and Bernoulli shifts*, Communications in Mathematical Physics, **32**, 183–190, 1973.
- (36) *Some remarks on Isin spin systems*, Physica, **70**, 219–221, 1973, (J.Lebowitz).
- (37) *Surface tension in the two—dimensional Ising model*, Physica, **65**, 73–88, 1973, (D.Abraham, A.Martin-Löf).
- (38) *Modern theory of the billiards. An introduction*, in Global Analysis and its applications, vol. II, ed. P. De la Harpe, International Atomic Energy Commission, Vienna, 1974, p. 193–202.
- (39) *Markov processes, Bernoulli schemes and Ising model*, Communications in Mathematical Physics: **33**, 259–282, 1973, (F.Diliberto, L.Russo).
- (40) *On the calculation of an integral*, Journal of Mathematical Analysis and applications, **44**, 661–675, 1973, (C.Marchioro).
- (41) *Rigorous theory of the Boltzmann equation in the Lorentz model*, Nota interna n. 358, Physics Department, Università di Roma, 10 febbraio 1972, pp.1–9, Per il libro "Fisica statistica" ed. E. Velarde, Madrid (non pubblicato). Archiviato nell’ archivio elettronico: mp\_arc@math.utexas.edu, #93-304.
- (42) *Billiards and Bernoulli schemes*, Communications in Mathematical Physics: **38**, 83–101, 1974, (D.Ornstein).

- (43) *Block spins interactions in the Ising model*, Communications in Mathematical Physics, **36**, 171–184, 1974, (H.Knops).
- (44) *The Lavoisier law and the critical point*, Il Nuovo Cimento, **25B**, 691–705, 1975. (M. Cas-sandro).
- (45) *Block spin distributions for short range attractive Ising models*, Il Nuovo Cimento, **25B**, 425–441, 1975, (A.Martin–Löf).
- (46) *Conservation laws in the hierarchical model*, Physica, **78**, 541–543, 1974. (H.Knops, H.Van Beyeren).
- (47) *Approximate simmetries and their spontaneous breakdown*, Annales de l’Institut Henri Poin-carè: **22**, 159–172, 1975, (R. Esposito).
- (48) *On the classical KMS boundary condition*, Il Nuovo Cimento, **28B**, 274–286, 1975, (E. Ver-boven).
- (49) *Limit theorems for multidimensional Markov processes*, Communications in Mathematical Physics: **41**, 301–307, 1975, (G.Jona–Lasinio).
- (50) *The hierarchical model and the renormalization group*, La Rivista del Nuovo Cimento: **5**, 341–368, 1975, (H. Knops).
- (51) *Lectures on the billiard”, in ”Lecture notes in Physics*, vol. **38**, ed. J.Moser, Springer Verlag, 1975, pp. 236–295.
- (52) *Classical KMS condition and Tomita–Takesaki theory*, Communications in Mathematical Physics: **46**, 1–9, 1976, (M.Pulvirenti).
- (53) *Problemi ergodici in Meccanica Classica*, Quaderni del Consiglio Nazionale delle Ricerche, redatti da S. Graffi, Bologna, 1976, pp.1–81. E *Problèmes ergoifques de la Meécanique classique*, Laboratoire de Physique théorique, Ecole polytechnique fédérale de Lausanne, 1976, redatti da M. Robert.
- (54) *Stability and equilibrium states of infinite classical systems*, Communications in Mathemat-ical Physics: **48**, 1–14, 1976. (M. Aizenman, J. Lebowitz, S.Goldstein).
- (55) *Operatore di Liouville e soluzioni statistiche delle equazioni di Hamilton*, Annali di Matem-atica pura e applicata, **108**, 227– 238, 1976.
- (56) *Classical KMS condition and Tomita–Takesaki theory*, in Asterisque, vol. **40**, Societè Math-ématique de France, 1976, pp. 89–94.
- (57) *Alcuni problemi ed idee della teoria ergodica*, Bollettino Unione Matematica Italiana: **13A**, 534–544, 1976.
- (58) *Probabilistic aspects of critical fluctuations*, in Lecture notes in Physics, vol. **54**, ed. J.Brey–R.B. Jones, Springer– Verlag, 1976, pp. 250–273.
- (59) *Bernoulli schemes and their isomorphisms*, in Proceedings of the International School in Mathematical Physics, ed. Istituto di Matematica dell’Università di Camerino, Camerino, 1976, pp. 38–58.
- (60) *Funzioni zeta ed insiemi basilari*, Rendiconti dell’Accademia Nazionale dei Lincei: **51**, 509–517, 1977.
- (61) *Some aspects of the renormalization problems in Statistical Mechanics and field theory*, Mem-orie dell’ Accademia Nazionale dei Lincei: **15**, 23–59, 1978.
- (62) *A comment on the talk by E. Seiler*, in Mathematical Problems in Theoretical Physics, ed. G. Dell’Antonio, S. Doplicher, G. Jona–Lasinio, Lecture notes in Physics, Springer–Verlag, **80**, p. 436–438, 1978, (F. Guerra, S. Miracle–Solé).
- (63) *On the ultraviolet stability in Statistical Mechanics and field theory*, Annali di Matematica pura ed applicata: (IV), vol. **CXX**, 1–23, 1979.

- (64) *Some probabilistic techniques in field theory*, Communications in Mathematical Physics: **59**, 143–166, 1978. (G.Benfatto, M.Cassandro, F.Nicolò, E.Olivieri, E.Presutti, E.Scacciatielli).
- (65) *The exponential interaction in  $R^d$* , Physics Letters, **83B**, 177–178, 1979. (S. Albeverio, R.Höeg–Khron).
- (66) *Some results for the exponential interaction in two or more dimensions*, Communications in Mathematical Physics: **70**, 187–193, 1979. (S. Albeverio R.Hoeg–Khron).
- (67) *Elliptic equations and gaussian processes*, Journal of Functional Analysis, **36**, 343–400, 1980, (G.Benfatto, F.Nicolò).
- (68) *Ultraviolet stability in Euclidean Field Theories*, Communications in Mathematical Physics, **71**, 95–130, 1980, (G.Benfatto, M.Cassandro, F.Nicolò, E.Olivieri, E.Presutti, E.Scacciatielli).
- (69) *The stability problem in scalar field theories*, ed. L.Streit, p.408–444, Springer-Verlag, Wien-New York, 1980.
- (70) *Meccanica Elementare*, ed. P.Boringhieri, p. 1–501, Torino, 1980.
- (71) *On the massive Sine–Gordon equation in the first few regions of collapse*, Communications in Mathematical Physics, **83**, 382–410, 1982, (G.Benfatto, F.Nicolò).
- (72) *Some problems in hamiltonian Perturbation Theory*, Rendiconti del Seminario Matematico dell’Università e del Politecnico di Torino, **1**, 107–118, 1982.
- (73) *Quelques remarques sur la non existence des integrales uniformes pour les systemes hamiltoniens quasi integrables*, G.M.E.L.,”Actualites Mathematiques, Actes du 6me congres des mathematiciens de langue latine, Gauthiers–Villars ,Paris, 1982, pp.153–166, ed. P.Pier.
- (74) *Elliptic operators and gaussian processes*, in Colloques internationaux du Centre National de la Recherche scientifique, no. **307**, (Saint Flour, 22–29 juin 1980), p.349–360.
- (75) *Aspetti della Teoria Ergodica Qualitativa e Statistica del Moto*, Quaderno U.M.I., no. **21**, ed. Pitagora, Bologna, 1982, p.1–300.
- (76) *Smooth prime integrals in quasi integrable systems*, Il Nuovo Cimento, **67B**, 277–297, 1982, (L. Chierchia).
- (77) *A criterion of integrability for perturbed harmonic oscillators. Wick ordering in Classical Mechanics*, Communications in Mathematical Physics, **87**, 365–383, 1982.
- (78) *The Dirichlet problem and the Perron–Frobenius theorem*, Bollettino Unione Matematica Italiana, (6), **1B**, 1029–1038, 1982.
- (79) *A comment on  $\varphi^4$  euclidean field theory*, Physics Letters, **122B**, 265–270, 1983, (V. Rivasseau).
- (80) *The Elements of Mechanics*, Springer–Verlag, p.1–575, New York, 1983.
- (81) *Perturbation Theory for Classical Hamiltonian Systems*, in ”Scaling and self similarity in Physics”, ed. J. Fröhlich, Birkhauser, Boston, 1985, p.359–426.
- (82) *The integrability problem and the Hamilton–Jacobi equation. A Review*, Physics Reports, **103**, 177–184, 1984.
- (83) *Classical Mechanics and Renormalization Group*, in ”Regular and chaotic motions in Dynamic Systems”, ed. G.Velo, A.Wightman, Proceedings of the fifth international School of Mathematical Physics at Erice, 1983, Plenum Press, New York, 1985, p. 185–232.
- (84) *Perturbations of geodesic flows on surfaces of constant negative curvature and their mixing properties*, Communications in Mathematical Physics, **95**, 61–112, 1984, (P. Collet, H. Epstein).
- (85) *A comment on  $\phi_4^4$  Euclidean field theory*, Physics Letters B, **122**, 268–270, 1983, (V.Rivasseau).

- (86)  $\varphi^4$ -Field Theory in dimension four : a modern introduction to its open problems, *Annales de l'Institut H. Poincaré*, **40**, 185–220, 1984, (V.Rivasseau).
- (87) *Renormalization Theory for four dimensional scalar fields, I*, *Communication in Mathematical Physics*, **100**, 545–590, 1985, (F.Nicolò).
- (88) *Renormalization Theory for four dimensional scalar fields, II*, *Communication in Mathematical Physics*, **101**, 1–36, 1985, (F.Nicolò).
- (89) *Renormalization Theory and Ultraviolet Stability for Scalar Fields via Renormalization Group Methods*, *Reviews of Modern Physics*, **57**, 471–562, 1985.
- (90) *The "Screening Phase Transitions" in the Two Dimensional Coulomb Gas*, *Journal of Statistical Physics*, **39**, 133–156, 1985, doi:10.1007/BF01007976, (F.Nicolò).
- (91) *Perturbation Theory and non Renormalizable Scalar Fields*, *Communication in Mathematical Physics*, **102**, 549–571, 1985, (G.Felder).
- (92) *Stability near Resonances in Classical Mechanics*, *Helvetica Physica Acta*, **59**, 278–291, 1986.
- (93) *Meccanica Elementare*, seconda edizione riveduta, ed. Boringhieri, Torino, 1986, p.1–536.
- (94) *The dipole Phase in the Two-dimensional Hierarchical Coulomb Gas: Analyticity and Correlations Decay*, *Communications in Mathematical Physics*, **106**, 277–288, 1986, (G.Benfatto, F.Nicolò).
- (95) *The structure of renormalization theory: renormalization, form factors and resummations in scalar field theory*, ed. K. Osterwalder and R. Stora, Les Houches, XLIII, 1984, *Phénomènes Critiques, Systèmes aleatoires, Théories de jauge*, Elsevier Science, 1986, p.467–492.
- (96) *Quasi integrable mechanical systems*, ed. K. Osterwalder and R. Stora, Les Houches, XLIII, 1984, *Phénomènes Critiques, Systèmes aleatoires, Théories de jauge*, Elsevier Science, 1986, p.539–624.
- (97) *Stability of motions near resonances in quasi-integrable hamiltonian systems*, *Journal of Statistical Physics*, **44**, 293–338, 1986, doi:10.1007/BF01011301, (G. Benettin).
- (98) *On the  $\varphi_4^4$ -problem*, in *Stochastic problems in classical and quantum systems*, ed. S. Alberverio, G. Casati, D. Merlini, *Lecture notes in Physics*, vol. **262**, Springer-Verlag, Heidelberg, 1986, p.278–295.
- (99) *The almost everywhere convergence of Fourier series*, *Quaderni del CNR-GNFM*, p.1–83, Roma, 1987, (A. Porzio).
- (100) *Some problems on the Hamilton-Jacobi equation*, in "Periodic Solutions of Hamiltonian Systems and Related Topics", ed. P. Rabinowitz, A. Ambrosetti, I. Eckeland, E. Zehnder, p. 153–160, *NATO ASI series C*, vol. **209**, Reidel, Dordrecht, 1987. *Proceedings of the NATO Conference at Il Ciocco, (Barga, Italia), 13-17 Ottobre 1986*.
- (101) *Renormalization Theory and Group in Mathematical Physics*, *Proceedings of the International Congress of Mathematicians*, 1986, (invited 45 min talk), Berkeley, ed. A. Gleason, Berkeley, 1988, Vol. **2**, p. 1268–1277.
- (102) *L' hypothèse érgodique et Boltzmann*, *Dictionnaire Philosophique*, p. 1081- 1086, Presses Universitaires, Paris, 1989.
- (103) *On the Analyticity of the Pressure in the Hierarchical Dipole Gas*, *Journal of Statistical Physics*, **55**, 739–744, 1989, doi:10.1007/BF01041605, (G. Benfatto, F. Nicolò).
- (104) *Perturbation theory of the Fermi surface in a quantum liquid. A general quasi particle formalism and one dimensional systems*, *Journal of Statistical Physics*, **59**, 541–664, 1990, doi:10.1007/BF01025844, (G. Benfatto).



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- (106) *Renormalization Group*, Publications du Troisieme cycle de la Suisse Romande, mars 1990, p. 1-46.
- (107) *Renormalization group approach to the theory of the Fermi surface*, Physical Review, **B42**, 9967- 9972, 1990, (G. Benfatto).
- (108) *Renormalization group and the Fermi surface in the Luttinger model*, Physical Review **B45**, 5468- 5480, 1992 (G. Benfatto, V. Mastropietro)
- (109) *Some rigorous results about 3D Navier Stokes*, Les Houches 1992 NATO-ASI meeting on “Turbulence in spatially extended systems”, ed. by R. Benzi, C. Basdevant, S. Ciliberto; p. 45–81; Nova Science Publishers, New York, 1993.
- (110) *Drift and diffusion in phase space*, Annales de l’ Institut Poincaré, **B**, **60**, 1–144, 1994, (L. Chierchia).
- (111) *Drift and diffusion in phase space. An application to celestial mechanics*, in “Cellular Automata and Cooperative Systems”, ed. N. Boccara, E. Goles, S. Martinez, P. Picco, NATO ASI, series C, vol. **396**, p. 173–190, Kluwer Acad. Publ., Dordrecht, 1993.
- (112) *Quasi Particles and scaling properties at the Fermi surface*, in “Probabilistic methods in mathematical physics”, p. 222–232, ed. F. Guerra, M. Loffredo, C. Marchioro, World Scientific, 1992 (Siena Conference, 1991).
- (113) *Beta function and Schwinger functions for a many body system in one dimension. Anomaly of the Fermi surface.*, Communications in Mathematical Physics, **160**, 93–172, 1994, (G. Benfatto, A. Procacci, B. Scoppola).
- (114) *Twistless KAM tori, quasi flat homoclinic intersections, and other cancellations in the perturbation series of certain completely integrable hamiltonian systems. A review*, Reviews on Mathematical Physics, **6**, 343–411, 1994.
- (115) *Invariant tori: a field theoretic point of view on Eliasson’s work*, in *Advances in Dynamical Systems and Quantum Physics*, 117–132, Ed. R. Figari, World Scientific, 1995.
- (116) *Twistless KAM tori*, Communications in Mathematical Physics, **164**, 145–156, 1994.
- (117) *Billiards correlation functions*, Journal of Statistical Physics, **76**, 549–586, 1994, doi:10.1007/BF02188675, (G. Garrido)
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- (8) *Fluctuation theorem revisited*, cond-mat/0404699.