

H. SALEUR: CURRICULUM VITAE

October 2018

Biography

Address

Service de Physique Théorique
Orme des Merisiers, CEN Saclay
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and

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Date of Birth

December 28, 1960

Place of birth

Aix en Provence, France

Citizenship

Double, French and US

Education

Sept. '81 - Sept. '85, Student of Ecole Normale Supérieure (Paris, France),
Sept. '87, Ph.D., University of Paris 6

Positions

Sept. '86 - Sept. '90 Service de Physique Théorique (Saclay, France),
CNRS Research Associate

Jan. '91 - Dec. '91 Yale University
Assistant Professor

Jan. '92 - Dec. '92 Yale University
Associate Professor

After Jan. '93, University of Southern California,
Associate Professor.

After Jan. '96, University of Southern California,
Professor of Physics. Joint appointment with Mathematics

Sep. '99 - June '02 Caltech - USC Center for Theoretical Physics, Member

After Jan. '04 (part time), Institut de Physique Théorique (Saclay, France)
International Director of Research

Honors

Oct. '87 Recipient (with B. Duplantier) of the Doisteau Blutel Prize of the French Academy of Sciences

Oct. '87 Recipient of the Bronze Medal from the CNRS (France)

Sept. '91 Recipient of a David and Lucile Packard Fellowship

July '93 Recipient of the National Young Investigator Award (NSF)

April '01 Recipient of the Humboldt Senior Research Award (Germany)

June '11 Recipient of the Silver Medal from the CNRS (France)

Sept.'15 Recipient of an ERC (European Research Council) Advanced Research Grant

General Interests

Quantum field theories,

Their applications in condensed matter physics and statistical mechanics,

And their relations with mathematics.

Accepted invitations to speak at Conferences, Workshops and Schools

- “Conformal Invariance and String Theory”, Brasov (Romania), September 1987
- “Conformal Field Theories and Related Topics”, Annecy (France), March 1988
- “Conformal Field Theory and Strings”, Abingdon (England), May 1988
- “Common Trends in Condensed Matter and Particle Physics”, Cargese (France), May 1988
- “Workshop on Conformal Field Theory and Strings”, Zurich (Switzerland), May 1989
- “Workshop on Conformal Field Theory and Strings”, Copenhagen (Denmark), May 1989
- “Interface between Quantum Field Theory and Condensed Matter”, Trieste (Italy), June 1989
- “Knots, Topology and Quantum Field Theory”, Firenze (Italy), June 1989
- “8th Symposium on Theoretical Physics: Conformal Field Theory and Statistical Mechanics”, Sokcho (Korea), July 1989
- “Recent Developments in Conformal Field Theories”, Trieste (Italy), October 1989
- “Trieste School on String Theory and Quantum Gravity”, Trieste (Italy), May 1990
- “Conformal Field Theory and Related Topics”, ITP Santa Barbara August–December 1990
- “Trieste Conference on Quantum Field Theory and Condensed Matter Physics”, Trieste (Italy), May 1991
- “20th International Conference on Differential Geometric Methods in Theoretical Physics”, New York, June 1991
- “Quantum Groups in Field Theory and Superconductivity”, Como (Italy), June 1991
- “Conformal Field Theory and Related Topics”, Durham (England), July 1991
- “Infinite Analysis”, Kyoto (Japan), August 1991
- “70th Statistical Mechanics Meeting” Rutgers, May 1992 (Principal Speaker)
- “Integrable Quantum Field Theories”, Como (Italy), September 1992
- “Annual meeting of the Canadian Mathematical Society”, Montreal (Canada), December 1992 (Principal Speaker)
- “Strings 93”, Berkeley, May 1993
- “Summer School on High Energy Physics and Cosmology”, Trieste (Italy), July 1993
- “Recent Progress in Quantum Integrable Systems”, Aspen, August 1993
- “Western regional meeting of the American Mathematical Society”, Claremont, November 1993
- “Statistical mechanics and quantum field theory”, Los Angeles, May 1994
- “Topology, Strings and Integrable Models”, Paris (France), July 1994
- “Workshop in theoretical and mathematical physics”, Quebec (Canada), June 1995
- “Low dimensional applications of quantum field theory”, Cargese (France), July 1995
- “Statistical mechanics and quantum field theory”, Trieste (Italy), March 1996
- “The mathematical beauty of physics”, Paris (France) June 1996
- “76th Statistical Mechanics Meeting”, Rutgers, December 1996 (Principal Speaker)
- “Quantum field theory in low dimensions, from condensed matter to particle physics”, ITP, Santa Barbara, February–July 1997
- “Western regional meeting of the American Mathematical Society”, Davis, April 1998
- “Spin boson systems in chemistry and physics”, to be held in Freiburg (Germany), May 1998
- “Topological aspects of low dimensional systems”, Les Houches (France), July 1998
- “Mathematical physics of polymers and percolation”, Toronto (Canada), August 1998
- “APCTP Symposium”, Seoul (Korea), October 1998
- “Trimestre fermions fortement correles”, IHP Paris (France), Spring 1999

“Mathematical aspects of transport in correlated systems”, Ascona (Switzerland), July 1999
 “Methods of quantum field theory in solid state physics”, Aspen, August 1999
 “New methods in the study of strongly correlated electron systems”, Cambridge (England), April 2000
 “Quantum integrability 2000”, Montreal (Canada), Spring 2000.
 “Groupement de recherche sur théories des champs et phénomènes non perturbatifs”, Lyon (France), May 2000.
 “Statistical Field Theories”, Como (Italy), Spring 2001
 “Amsterdam Workshop on Flux, Charge, Topology and Statistics”, Amsterdam (Netherlands), Spring 2001
 “Summer School on low dimensional quantum systems”, Trieste, Summer 2001
 “24th International Colloquium on Theoretical Methods in Physics”, Paris (France), Summer 2002.
 “TH 2002”, Paris (France), Summer 2002.
 “Amsterdam Workshop on Flux, Charge, Topology and Statistics”, Amsterdam (Netherlands), Spring 2003.
 “Integrable Models and Applications”, Firenze (Italy), Fall 2003.
 “Dynamics of Interacting Electrons in Quantum Wires ”, Miraflores (Spain), Fall 2003.
 “String Theory in Curved Backgrounds and Boundary Conformal Field Theory”, Vienna (Austria), Spring 2004.
 “Modern Problems in Theoretical Physics and Integrable Systems”, Montpellier (France), Spring 2004.
 “Quantum Hall effect”, Capri (Italy), Summer 2004.
 “Integrable Models and Applications”, Bologna (Italy) Fall 2004.
 “ Amsterdam Summer Workshop on Low-D Quantum Condensed Matter”, Amsterdam (Netherlands), Summer 2005.
 “Preuss Seminar on Macromolecular folding”, USC, Summer 2005.
 “23d International Conference of Differential Geometrical Methods in Theoretical Physics”, Tianjin (China), Summer 2005
 “First INSTANS Summer Conference”, Como (Italy), Spring 2006
 “International Congress of Mathematics”, Madrid (Spain), Summer 2006
 “EUCLID Conference on Integrability and Applications”, Lyon (France), Fall 2006
 “Solvay Conference: 75 years of the Bethe ansatz”, Bruxelles (Belgium), Fall 2006
 “Topics in representation theory”, London (England), Fall 2006.
 “ Random shapes, representation theory and conformal field theory”, Los Angeles, Spring 2007.
 “Integrability in Gauge and String Theory”, Saclay (France), Spring 2007.
 “Low D Quantum Condensed Matter”, Amsterdam (Netherlands), Summer 2007.
 “INSTANS Summer School 2007”, Oxford (UK), Summer 2007
 “Nanosopic Transport”, Freiburg (Germany), Fall 2007.
 “Fields, Lattices and Condensed Matter, Oxford (UK) Fall 2007
 “15th Irish quantum field theory meeting”, Maynooth (Ireland) Spring 2008
 “Enrage School on Growth and Shapes”, Paris (France) Spring 2008
 “Puzzles of Growth”, Paris (France) Spring 2008
 “Exact methods in low dimensional statistical physics and quantum computing”, Les Houches (France) Summer 2008.
 “Applied 2d sigma models”, Hamburg (Germany) Fall 2008
 “Quantum coherence and many-body correlations: from mesoscopic to macroscopic scales”, Saclay (France) Fall 2008
 “Integrability in gauge and string theory”, Potsdam (Germany) Spring 2009

“Workshop on Logarithmic conformal field theory”, Zürich (Switzerland) Spring 2009
 “Emergent Quantum Phenomena from the Nano- to the Macro- World” , Cargese (France) Summer 2009
 “Facets of integrability”, Saclay (France) Fall 2009
 “Time dependent dynamics and non equilibrium quantum systems”, Budapest (Hungary) Spring 2010
 “Quantum information concepts for condensed matter problems”, Dresden (Germany) Spring 2010
 “Quantum engineering of states and devices”, Innsbruck (Austria) Spring 2010
 “Quantum Theories and symmetries”, Lexington (Kentucky) Summer 2010
 “Integrability and its breaking in strongly correlated and disordered systems”, Trieste (Italy) Spring 2011
 “Cargese-Luminy Physics Mathematics Summer Institute”, Marseille and Cargese (France) Summer 2011
 “Conformal field theory, automorphic forms and related topics”, Heidelberg (Germany) Summer 2011
 “Sasha Gogolin memorial meeting on many body theory”, Trieste (Italy) Fall 2011
 “Conformal Invariance, Discrete Holomorphicity and Integrability”, Helsinki (Finland), Spring 2012
 “International Congress on Mathematical Physics”, Aalborg (Denmark), Summer 2012
 “Strongly interacting quantum systems out of equilibrium”, Les Houches (France), Summer 2012
 “Low D quantum condensed matter 2013”, Amsterdam (Netherlands), Summer 2013
 “Euler symposium on theoretical and mathematical physics”, St Petersburg (Russia), Summer 2013
 “Entanglement entropy of many body quantum systems”, London (UK), Spring 2014
 “Strings, Matrices and Integrability”, Paris (France), Summer 2014
 “Quantum Engineering”, Stockholm (Sweden) , Summer 2014
 “Symmetries and universality in mesoscopic systems”, Koeln (Germany), Spring 2015
 “The mathematics of conformal field theory”, Canberra (Australia), Summer 2015
 “Baxter 2015: Exactly solved models and beyond”, Cairns (Australia), Summer 2015
 “Non-equilibrium dynamics of stochastic and quantum integrable systems”, Santa-Barbara (USA), Spring 2016
 “Representation theory and physics”, Leeds (UK), Summer 2016
 “Entanglement and non equilibrium physics of pure and disordered systems”, Trieste (Italy), Summer 2016
 “Random geometry and physics”, Paris (France), Fall 2016
 “Subfactors, K theory and conformal field theory”, Cambridge (UK), Spring 2017
 “Condensed matter in the city”, London (UK), Summer 2017
 “Wonders of broken integrability”, Stonybrook (US), Fall 2017
 “Correlation functions in quantum integrable systems and beyond”, Lyon (France), Fall 2017
 “Entanglement in quantum systems”, Florence (Italy), Spring 2018
 “Algebraic methods in mathematical physics”, Montreal (Canada), Summer 2018
 “Recent advances in quantum integrable systems”, Annecy (France), Fall 2018

Conference organizer, coeditor of Proceedings

“Statistical mechanics and quantum field theory”, USC, Los Angeles, May 1994
 “Strings 95”, USC, Los Angeles, March 1995
 “Recent developments in statistical mechanics and quantum field theory”, Trieste (Italy), April 1995
 “Summer School on low dimensional quantum systems”, Trieste, Summer 2001
 “Applications of conformal field theory”, IPAM, Los Angeles, Fall 2001
 “Quantum field theory then and now: a tribute to C. Itzykson”, Saclay (France), Spring 2005.
 “Statistical field theory of quantum devices”, Perugia (Italy), Summer 2007.
 “Exact results in low dimensional quantum systems”, Florence (Italy), Fall 2008

“Capri School on transport in nanostructures”, Capri (Italy), Spring 2009

“International Congress of Mathematical Physics”, Quantum Field Theory Session, Montreal (Canada), Summer 2018

Workshop organizer

“Quantum field theory in low dimensions, from condensed matter to particle physics”, ITP, Santa Barbara, February–July 1997

“Quantum integrability 2000”, Montreal (Canada), January–March 2000.

“Conformal field Theory”, IPAM (Los Angeles), September–December 2001.

“Low dimensional quantum field theory and applications”, Galileo Institute, Florence (Italy), Fall 2008.

“Advanced Conformal Field Theory and Applications”, IHP Centre Emile Borel, Paris (France), Fall 2011

“Strongly interacting quantum systems out of equilibrium”, Les Houches (France), Summer 2012

“Exact methods in low dimensional statistical physics”, Cargese (France), Summer 2017

Other present and past experience

Associate Editor of “Journal of Knot Theory and its Ramifications”, World Scientific

Managing Editor of “Nuclear Physics B (FS)”, North Holland

Associate Editor of “Journal of Physics A”, Institute of Physics Publishing

Associate Editor of “Topological order”, Versita

Coeditor of the reprint volume “Conformal invariance and applications to statistical mechanics”, World Scientific 1988

Referee for Phys. Rev. B, E, Phys. Rev. Lett., Phys. Lett. A, Phys. Lett. B, Nucl. Phys. B, J. Phys. A, Journal de Physique, European Letters in Physics, Comm. Math. Phys., Lett. Math. Phys., J. Geog. Res. J. of Math. Phys., J. of Knot Theory

Publications (Research Papers only)

(References [26], [33], [35]. [59] are reviews or lecture notes containing also original research work not published elsewhere.)

- [1] H.Saleur and B.Derrida, "A combination of Monte carlo and transfer matrix methods to study 2d and 3d percolation", *J.Physique* **46** (1985), 1043–1047
- [2] H.Saleur, "F model type phase transition in the 2d Flory model of polymer melting", *J.Phys.***A19** (1986), 2409–2423
- [3] B.Derrida and H.Saleur, "Collapse of two dimensional linear polymers:a transfer matrix calculation of the exponent ν_t ", *J.Phys.***A18** (1985), L1075–L1079
- [4] H.Saleur and B.Derrida, "Transfer matrix calculation of the exponent γ for two dimensional self avoiding walks", *J.Stat.Phys.* **44** (1986), 225–235
- [5] H.Saleur, "Collapse of two dimensional linear polymers", *J.Stat.Phys.* **45** (1986), 419–438
- [6] H.Saleur, "Conformal invariance for polymers and percolation", *J.Phys.* **A20** (1987), 455–470
- [7] C.Itzykson, H.Saleur and J.B.Zuber, "Conformal invariance for non unitary 2d models", *Europhys.Lett.* **2** (1986), 91–96
- [8] J.Lebowitz, H.Saleur, "Percolation in strongly correlated systems", *Physica* **A138** (1986), 194–205
- [9] H.Saleur, "New exact critical exponents for 2d self avoiding walks", *J.Phys.***A19** (1986), L807–L810
- [10] B.Duplantier and H.Saleur, "Exact surface and wedge exponents for 2d self avoiding walks", *Phys.Rev. Lett.* **57** (1987), 3179
- [11] H.Saleur, "Magnetic properties of the 2d $n = 0$ vector model", *Phys.Rev.* **B35** (1987), 3657–3660
- [12] H.Saleur and B.Duplantier, "Exact determination of the percolation hull exponent in 2d", *Phys. Rev. Lett.* **58** (1987), 2325–2328
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- [14] H.Saleur and C.Itzykson, "Two dimensional field theories close to criticality", *J.Stat.Phys.* **48** (1987), 449–475
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- [16] H.Saleur, "Partition functions of the 2d Ashkin Teller model on the critical line", *J.Phys.* **A20** (1987), L1127–L1133
- [17] B.Duplantier and H.Saleur, "Exact critical properties of 2d dense self avoiding walks", *Nucl.Phys.* **B290** (1987), 291–326
- [18] B.Duplantier and H.Saleur, "Exact tricritical exponents for polymers at the theta point in 2d", *Phys. Rev. Lett.* **59** (1987), 539–542
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- [20] P.Di Francesco, H.Saleur and J.B.Zuber, "Critical Ising correlation functions in the plane and on the torus", *Nucl.Phys.* **B290** (1987), 527–581
- [21] H.Saleur, "Correlation functions of the critical Ashkin Teller model", *J.Stat.Phys.* **50** (1988), 475–508
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- [26] V.Pasquier and H.Saleur, "Symmetry of the XXZ chain and quantum $SU(2)$ ", in *Fields, Strings and Critical Phenomena, Ecole d'ete de Physique Theorique, Session XLIX, Les Houches*(1988)
- [27] B.Duplantier and H.Saleur, "Stability of the polymer theta point in 2d", *Phys.Rev.Lett.* **62** (1989), 1368–1371

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- [29] J.L.Cardy, H.Saleur, "Universal distance ratios for 2d polymers", *J.Phys.* **A22** (1989), L601–L604
- [30] V.Pasquier and H.Saleur, "Common structures between finite systems and conformal field theories through quantum groups", *Nucl.Phys.* **B330** (1990), 523–556
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- [33] H.Saleur, "Virasoro and Temperley Lieb algebras", in *Knots, Topology and Quantum Field Theory, Firenze* (1989)
- [34] H.Saleur, "Quantum osp(1/2) and solutions of the graded Yang Baxter equation", *Nucl.Phys.* **B336** (1990), 363–376
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- [36] H.Saleur, "Zeroes of chromatic polynomials: a new approach to Beraha conjecture using quantum groups", *Comm. Math. Phys.* **132** (1990), 657 – 679
- [37] H.Saleur and D.Alschuler, "Level rank duality in quantum groups", *Nucl.Phys.* **B354** (1991), 579–613
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- [39] L.Kauffman and H.Saleur, "Free fermions and the Conway Alexander polynomial", *Comm.Math.Phys.* **141** (1991), 293–327
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- [86] F. Lesage, H. Saleur, P. Simonetti, “Tunneling in quantum wires I: Exact solution of the spin isotropic case”, cond-mat/97030220, *Phys. Rev.* **B56** (1997), 7598–7606
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Addendum: Earthquake phenomenology

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Funding History

From Sept.'91 to Dec.'92 coprincipal investigator (of five) on the Project "Geometry Symmetry and Physics" funded by DOE Math at Yale University. Amount of funding (per P.I.): 20,000\$ a year.

From Sept.'91 to Dec.'92 partial support from the High-Energy DOE Grant in the Yale Physics Department. Amount of funding: unknown.

Fellow of the David and Lucile Packard Foundation from Sept.'91 to Sept.'96. Amount of funding 100,000\$ a year.

National investigator (NSF physics) from Sept.'93 to Sept.'98. Amount of funding 25,000\$ plus 32,500\$ matched to the Packard award a year.

From Jan.'93 to Jan.'05, coprincipal investigator (of five) on the Project "High energy theory" funded by DOE Physics at USC. Amount of funding (per P.I.): approximately 80,000\$ a year.

From Aug.'98 to Aug.'01, principal investigator on the Project "Spatial and temporal patterns of after-shocks", funded by NSF earth sciences. Amount of funding: approximately 60,000\$ a year.

From Aug. '99 to Aug. '03, principal investigator (of 10) on the project "Southern California Strings Center", funded by USC and Caltech.

From Jan. '04 to Jan. '07, recipient of a Marie Curie International Grant "Quantum field theory and nanophysics".

From Jan. '06 to Jan. '09, principal investigator (of 3) and coorganizer of the INSTANS (Interdisciplinary statistical and field theory approaches to nanophysics and low dimensional systems) Network funded by the ESF (European Science foundation).

From Jan. '07 to Jan. '10, principal investigator on the Project "AdS-CFT" funded by the ANR (Agence Nationale pour la Recherche, France).

From Jan. '12 to Dec.'13, co principal investigator on the DOE grant "Quantum Quench Dynamics-Crossover Phenomena in Non-Equilibrium Correlated Quantum Systems" at USC

From Jan. '11 to Dec.'14, principal investigator of the project "DIME" funded by the ANR (Agence Nationale pour la Recherche, France).

From Sept.'14 to Aug.'17, co principal investigator on the DOE grant "Quench dynamics of disordered quantum systems", at USC.

From Sept. '15 to Sept.'20, principal investigator on an ERC (European Research Council) Advanced Grant, "Non-unitary Quantum Field Theories and the Integer Quantum Hall Effect".