

H. SALEUR: CURRICULUM VITAE

Winter 2025

Biography

Address

Physics and Astronomy Department
University of Southern California
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and

Institut de Physique Théorique
Orme des Merisiers, CEN Saclay
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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 (St Cloud, 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

Jan. '93 - Dec. '96, University of Southern California,
Associate Professor

After Jan. '96, University of Southern California,
Professor of Physics and Mathematics

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

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

Honors

Oct. '87 Recipient 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
Sept.'19 Recipient of the *Jean Ricard Grand Prize* from the French Physical Society (SFP)
Nov.'25 Recipient of the *Ampère Grand Prize* from the French Academy of Sciences

Metrics

(Google Scholar) About 17500 citations, h-index 74.

General Interests

Quantum field theory and mathematical physics
Applications in statistical mechanics and condensed matter physics

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

“Nanoscopic 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
 “Curiosity-Driven Physics: From Algebras to Quantum Chains and Statistical Mechanics”, Trieste (Italy), Spring 2019
 “Field Theory in Condensed Matter: A Symposium in honor of Nick Read”, New Haven (USA), Spring 2019
 “In and around topological physics”, Kuangou (China), Summer 2019
 “The wonders of theoretical physics”, Trieste (Italy), Fall 2019
 “Challenges in Integrability”, Wuhan (China), Spring 2020 (cancelled)
 “HMI Workshop on Integrability”, Dublin (Ireland), Spring 2020 (cancelled)
 “Boundary Quantum Field Theory”, Mainz (Germany), Summer 2020 (cancelled)
 “Integrability in Lower Dimensional AdS/CFT”, Dublin (Ireland), Summer 2021
 “Integrability, Dualities and Deformations”, Santiago (Spain), Summer 2021
 “Probability, integrability, and conformal invariance”, Stonybrook (USA), Fall 2021
 “Quantum Field Theory at the Boundary”, Mainz (Germany), Fall 2021
 “Statistical Physics and Low Dimensional Systems 2022”, Pont à Mousson (France), Spring 2022
 “Annual Meeting of the French Physical Society”, Saclay (France), Spring 2022
 “34th International Colloquium on Group Theoretical Methods in Physics, Strasbourg (France), Summer 2022
 “Geometric and Representation-Theoretic Aspects of Quantum Integrability”, Simons Center Stonybrook (USA), Summer/Fall 2022
 “Random Geometry in Statistical Physics, Condensed Matter, and Quantum Gravity”, Aspen (USA), Summer 2022
 “The Many Facets of Statistical Field Theory”, ICTP Trieste (Italy), Fall 2022
 “Integrable Systems, Exactly Solvable Models, and Algebras”, Montreal (Canada), Fall 2022
 “Brazilian School and Workshop on Statistical Mechanics - Recent Developments”, São Carlos, Winter 2023
 “Mathematical Aspects of Condensed Matter Physics”, Zurich (Switzerland), Summer 2023
 “Workshop on Topological Quantum Computation”, Edinburgh (Scotland), Fall 2023
 “Topological defects in Conformal Field Theories”, Aspen Mini Summer Program, Aspen (USA), Summer 2024
 “At the crossroads of physics and mathematics”, IPhT Saclay, Saclay (France), Summer 2024
 “Classical and quantum dynamics in out of equilibrium systems”, IISC Bengaluru (India), Winter 2024
 “Statistical Field Theory”, GGI, Firenze (Italy), Spring 2025
 “Generalized Symmetries in Quantum Field Theory”, KITP Santa Barbara (USA), Spring 2025
 “Exactly solved models and beyond”, Australian National University, Melbourne (Australia), Fall 2025
 “Algebraic, Topological and probabilistic approaches in Conformal Field Theory”, Pascal Institute, Orsay (France), Fall 2025
 “Quantum field theory with boundaries, impurities, and defects”, Newton Institute, Cambridge (UK), Fall 2025

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
“Quantum Theory and Symmetry XI, July 2019”, Quantum Field Theory Session, Montreal (Canada), Summer 2019
“Workshop on Defects and Extended Excitations”, GGI, Firenze (Italy), Spring 2026

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”, Cargèse (France), Summer 2017

“Integrability in Condensed matter physics and quantum field theory”, Les Diablerets (Switzerland), Winter 2023

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

Associate Editor of “SIGMA”, Symmetry, Integrability and Geometry: Methods and Applications

(<https://www.emis.de/journals/SIGMA/>)

Associate Editor of SciPost (<https://scipost.org>)

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.)

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- [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
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- [15] P.Di Francesco, H.Saleur and J.B.Zuber, "Relations between the Coulomb gas picture and conformal invariance of 2d critical models", *J.Stat.Phys.* **49** (1987), 57–79
- [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
- [22] B.Duplantier and H.Saleur, "Winding angle distribution for 2d self avoiding walks from conformal invariance", *Phys.Rev.Lett.* **60** (1988), 2343–2346
- [23] P.Di Francesco, H.Saleur and J.B.Zuber, "Generalized Coulomb gas formalism for 2d critical models based on $SU(2)$ coset construction", *Nucl.Phys.* **B300** (1988), 393–432
- [24] H.Saleur and M.Bauer, "On some relations between local height probabilities and conformal invariance", *Nucl.Phys.* **B320** (1989), 591–624
- [25] H.Saleur, "Off critical integrable vertex models and conformal theories in finite geometries", *J.Phys.* **A22** (1988), L41–L48
- [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
- [28] M.Henkel and H.Saleur, "The 2d Ising model in a magnetic field: a numerical check of Zamolodchikov's conjecture", *J.Phys.* **A22** (1989), L513–L518
- [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
- [31] B.Duplantier and H.Saleur, "Exact fractal dimension of 2d Ising clusters", *Phys.Rev.Lett.* **63** (1989), 2536
- [32] M.Henkel and H.Saleur, "Remarks on the mass spectrum of non critical coset models from Toda theories", *J.Phys.* **A23** (1990), 791–808
- [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
- [35] H.Saleur, "Symmetries of the XX chain and applications", in *Trieste conference on Recent developments in Conformal Field Theories* (1989)
- [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.Altshuler, "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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- [41] H.Saleur, " $c = 1 - 6(n-1)^2/n$ theories coupled to gravity: their possible lattice models realizations", *J.Mod.Phys.* **A6** (1991), 1709–1719
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- [53] P.Martin, H.Saleur, "Algebras in higher dimensional statistical mechanics - the exceptional partition algebra" *Lett.Math.Phys.* **30** (1994) 179–185
- [54] P.Martin, H.Saleur, "The blob algebra and the periodic Temperley Lieb algebra", *Lett.Math.Phys.* **30** (1994) 189–206
- [55] P.Fendley, H.Saleur, A.I.B.Zamolodchikov, "Massless flows I: the sine-Gordon and $O(n)$ models", *Int.J. Mod. Phys.* **A32** (1993), 5717–5750
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Addendum: Earthquake phenomenology

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(The following do not contain new results)

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- [19] H. Saleur, “Non perturbative methods in quantum impurity problems”, Proceedings of the Oxford Summer School, Oxford (England) Summer 2007.
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- [22] H. Saleur, “Exact field theoretic methods in out of equilibrium quantum impurity problems”, Proceedings of the Les Houches (France) Summer School “Strongly interacting quantum systems out of equilibrium”, Summer 2012
- [23] A.M. Gainutdinov, J. L. Jacobsen, N. Read, H. Saleur and R. Vasseur, “Logarithmic conformal field theory, a lattice approach”, Special Issue on LCFTs, J. Phys. A: Math. Theor. 46 (2013) 494012.

Funding History

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E. Granet, PhD, Université Paris VI (France), “Advanced integrability techniques and analysis for quantum spin chains” (2019)

N. Robertson, PhD, Université Paris VI (France), “Open Boundary Lattice Models with non-compact continuum limits” (2020)

L. Grans Samuelsson, PhD, Université Paris Saclay (France), “Non-Unitary Conformal Field Theories for Geometrical Problems: a Lattice Approach” (2022)

L. Liu, PhD, University of Southern California (USA), “Emerging Jordan forms, with applications to critical statistical models and conformal field theory” (2023)

D. Chernyak, PhD, Université Paris VI (France), “Schur-Weyl duality and exact solvability of non-compact quantum lattice models” (2023)

Postdocs

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