

## List of publications of Dr Dirk Schuricht

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### Published research articles

71. E Di Salvo and D Schuricht, *Relaxation dynamics of integrable field theories after a global quantum quench*, J. Stat. Mech. (2025) 013103; arXiv:2410.00682.
70. E Di Salvo, A Moustaj, C Xu, L Fritz, A K Mitchell, C Morais Smith and D Schuricht, *Topological phases of the interacting SSH model: an analytical study*, Phys. Rev. B **110**, 165145 (2024); arXiv:2408.01421.
69. C Li, V L Quito, D Schuricht and P L S Lopes,  *$G_2$  integrable point characterization via isotropic spin-3 chains*, Phys. Rev. B **108**, 165123 (2023); arXiv:2305.03072.
68. E Di Salvo and D Schuricht, *Quantum quenches in the sinh-Gordon and Lieb-Liniger models*, J. Stat. Mech. (2023) 053107; arXiv:2210.00316.
67. G Camacho, J Vahedi, D Schuricht and C Karrasch, *Disorder effects in the  $\mathbb{Z}_3$ -Fock parafermion chain*, Phys. Rev. B **106**, 235132 (2022); arXiv:2210.02901.
66. J J Wouters, A Giotis, R Kang, D Schuricht and L Fritz, *Lower bounds for Ramsey numbers as a statistical physics problem*, J. Stat. Mech. (2022) 033211; arXiv:2112.11426.
65. J Wouters, F Hassler, H Katsura and D Schuricht, *Phase diagram of an extended parafermion chain*, SciPost Phys. Core **5**, 008 (2022); arXiv:2106.15823.
64. J Wouters, H Katsura and D Schuricht, *Interrelations among frustration-free models via Witten's conjugation*, SciPost Phys. Core **4**, 027 (2021); arXiv:2005.12825.
63. D M F Hartmann, J J Wouters, D Schuricht, R A Duine and A Kamra, *Inter-sublattice entanglement entropy as an extensive property in antiferromagnets*, Phys. Rev. B **104**, 064436 (2021); arXiv:2103.04809.
62. A Roy, D Schuricht, J Hauschild, F Pollmann and H Saleur, *The quantum sine-Gordon model with quantum circuits*, Nucl. Phys. B **968**, 115445 (2021); arXiv:2007.06874.
61. I Mahyaeh, J Wouters and D Schuricht, *Phase diagram of the  $\mathbb{Z}_3$ -Fock parafermion chain with pair hopping*, SciPost Phys. Core **3**, 011 (2020); arXiv:2003.07812.

60. S Fischer, C Karrasch, D Schuricht and L Fritz, *Energy transport between critical one-dimensional systems with different central charges*, Phys. Rev. B **101**, 205146 (2020); arXiv:2002.10844.
59. B M Schoenauer, N M Gergs, P Schmitteckert, F Evers and D Schuricht, *Long-lived circulating currents in strongly correlated nanorings*, Phys. Rev. Research **1**, 022006(R) (2019) (Rapid Communication); arXiv:1903.01721.
58. B M Schoenauer and D Schuricht, *Finite-time quantum quenches in the XXZ Heisenberg chain*, Phys. Rev. B **100**, 115418 (2019); arXiv:1905.02678.
57. A S Buyskikh, L Tagliacozzo, D Schuricht, C A Hooley, D Pekker and A J Daley, *Resonant two-site tunneling dynamics of bosons in a tilted optical superlattice*, Phys. Rev. A **100**, 023627 (2019); arXiv:1811.06998.
56. A S Buyskikh, L Tagliacozzo, D Schuricht, C A Hooley, D Pekker and A J Daley, *Spin-models, dynamics and criticality with atoms in tilted optical superlattices*, Phys. Rev. Lett. **123**, 090401 (2019); arXiv:1811.06995.
55. N J Robinson, A Altland, R Egger, N M Gergs, W Li, D Schuricht, A M Tsvelik, A Weichselbaum and R M Konik, *Non-topological Majorana zero modes in inhomogeneous spin ladders*, Phys. Rev. Lett. **122**, 027201 (2019); arXiv:1806.01925.
54. J Wouters, H Katsura and D Schuricht, *Exact ground states for interacting Kitaev chains*, Phys. Rev. B **98**, 155119 (2018); arXiv:1808.06947.
53. D M Kennes, D Schuricht and C Karrasch, *Controlling dynamical quantum phase transitions*, Phys. Rev. B **97**, 184302 (2018); arXiv:1803.09242.
52. N M Gergs, S A Bender, R A Duine and D Schuricht, *Spin switching via quantum dot spin valves*, Phys. Rev. Lett. **120**, 017701 (2018); arXiv:1707.03373.
51. A Cortés Cubero and D Schuricht, *Quantum quench in the attractive regime of the sine-Gordon model*, J. Stat. Mech. (2017) 103106; arXiv:1707.09218.
50. G W Winkler, M Ganahl, D Schuricht, H G Evertz and S Andergassen, *Interaction effects in a microscopic quantum wire model with strong spin-orbit interaction*, New J. Phys. **19**, 063009 (2017); arXiv:1701.03793.
49. B Schoenauer, P Schmitteckert and D Schuricht, *Observation of spin-charge separation and boundary bound states via the local density of states*, Phys. Rev. B **95**, 205103 (2017); arXiv:1612.05597.
48. C Karrasch and D Schuricht, *Dynamical quantum phase transitions in the quantum Potts chain*, Phys. Rev. B **95**, 075143 (2017) (Editors' Suggestion); arXiv:1701.04214.

47. T Puškarov and D Schuricht, *Time evolution during and after finite-time quantum quenches in the transverse-field Ising chain*, SciPost Phys. **1**, 003 (2016); arXiv:1608.05584.
46. L Stronks, J van de Leur and D Schuricht, *On rational R-matrices with adjoint  $SU(n)$  symmetry*, J. Phys. A **49**, 444001 (2016) (Special issue on Quantum integrability and quantum groups in memory of Petr P Kulish); arXiv:1606.02516.
45. P Chudzinski and D Schuricht, *Time evolution during and after finite-time quantum quenches in Luttinger liquids*, Phys. Rev. B **94**, 075129 (2016); arXiv:1606.02576.
44. N M Gergs, L Fritz and D Schuricht, *Topological order in the Kitaev/Majorana chain in the presence of disorder and interactions*, Phys. Rev. B **93**, 075129 (2016); arXiv:1511.02817.
43. D Schuricht, *Quantum quenches in integrable systems: Constraints from factorisation*, J. Stat. Mech. (2015) P11004; arXiv:1509.00435.
42. H Katsura, D Schuricht and M Takahashi, *Exact ground states and topological order in interacting Kitaev/Majorana chains*, Phys. Rev. B **92**, 115137 (2015); arXiv:1507.04444.
41. N M Gergs, C B M Hørig, M R Wegewijs and D Schuricht, *Charge fluctuations in nonlinear heat transport*, Phys. Rev. B **91**, 201107(R) (2015) (Rapid Communication, Editors' Suggestion); arXiv:1407.8284.
40. B Bertini, D Schuricht and F H L Essler, *Quantum quench in the sine-Gordon model*, J. Stat. Mech. (2014) P10035; arXiv:1405.4813.
39. J Ulrich, Í Adagideli, D Schuricht and F Hassler, *Supersymmetry in the Majorana Cooper-pair box*, Phys. Rev. B **90**, 075408 (2014) (Editors' Suggestion); arXiv:1405.3089.
38. C B M Hørig, C Mora and D Schuricht, *Transport properties of fully screened Kondo models*, Phys. Rev. B **89**, 165411 (2014); arXiv:1402.0479.
37. T Meng, L Fritz, D Schuricht and D Loss, *Low-energy properties of fractional helical Luttinger liquids*, Phys. Rev. B **89**, 045111 (2014); arXiv:1308.3169.
36. A Faribault and D Schuricht, *Spin decoherence due to a randomly fluctuating spin bath*, Phys. Rev. B **88**, 085323 (2013); arXiv:1306.2541.
35. D M Kennes, D Schuricht and V Meden, *Efficiency and power of a thermoelectric quantum dot device*, Europhys. Lett. **102**, 57003 (2013); arXiv:1301.3355.
34. S Y Müller, M Pletyukhov, D Schuricht and S Andergassen, *Magnetic field effects on the finite-frequency noise and ac conductance of a Kondo quantum dot out of equilibrium*, Phys. Rev. B **87**, 245115 (2013); arXiv:1211.7072.

33. C Karrasch and D Schuricht, *Dynamical phase transitions after quenches in non-integrable models*, Phys. Rev. B **87**, 195104 (2013); arXiv:1302.3893.
32. A Mitchell, D Schuricht, M Vojta and L Fritz, *Kondo effect on the surface of 3D topological insulators: Signatures in scanning tunneling spectroscopy*, Phys. Rev. B **87**, 075430 (2013); arXiv:1211.0034.
31. A Faribault and D Schuricht, *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Phys. Rev. Lett. **110**, 040405 (2013); arXiv:1210.7121.
30. D Schuricht, S Andergassen and V Meden, *Local spectral properties of Luttinger liquids: scaling versus non-universal energy scales*, J. Phys.: Condens. Matter **25**, 014003 (2013); arXiv:1111.7174.
29. F Hassler and D Schuricht, *Strongly interacting Majorana modes in an array of Josephson junctions*, New J. Phys. **14**, 125018 (2012); arXiv:1206.2134.
28. A Faribault and D Schuricht, *On the determinant representations of Gaudin models' scalar products and form factors*, J. Phys. A **45**, 485202 (2012); arXiv:1207.2352.
27. C Karrasch, J Rentrop, D Schuricht and V Meden, *Luttinger liquid universality in the time evolution after an interaction quench*, Phys. Rev. Lett. **109**, 126406 (2012); arXiv:1205.2091.
26. J Rentrop, D Schuricht and V Meden, *Quench dynamics of the Tomonaga-Luttinger model with momentum dependent interactions*, New J. Phys. **14**, 075001 (2012); arXiv:1203.0932.
25. S Göttel, S Andergassen, C Honerkamp, D Schuricht and S Wessel, *Critical scales in anisotropic spin systems from functional renormalisation*, Phys. Rev. B **85**, 214406 (2012); arXiv:1202.3020.
24. D Schuricht and F H L Essler, *Dynamics in the Ising field theory after a quantum quench*, J. Stat. Mech. (2012) P04017; arXiv:1203.5080.
23. C B M Hørig and D Schuricht, *Transport properties of a multichannel Kondo dot in a magnetic field*, Phys. Rev. B **85**, 134413 (2012); arXiv:1202.4558.
22. D Schuricht, *Spectral properties of one-dimensional spiral spin density wave states*, Phys. Rev. B **85**, 121101(R) (2012) (Rapid Communication); arXiv:1112.3045.
21. C B M Hørig, D Schuricht and S Andergassen, *Renormalisation-group analysis of a spin-1 Kondo dot: Non-equilibrium transport and relaxation dynamics*, Phys. Rev. B **85**, 054418 (2012); arXiv:1110.6103.

20. M Pletyukhov and D Schuricht, *Non-equilibrium transport through quantum dots with Dzyaloshinsky–Moriya–Kondo interaction*, Phys. Rev. B **84**, 041309(R) (2011) (Rapid Communication); arXiv:1104.5148.
19. D Schuricht, *Local density of states of a quarter-filled one-dimensional Mott insulator with a boundary*, Phys. Rev. B **84**, 045122 (2011); arXiv:1105.3196.
18. S Andergassen, M Pletyukhov, D Schuricht, H Schoeller and L Borda, *Renormalisation group analysis of the interacting resonant-level model at finite bias: Generic analytic study of static properties and quench dynamics*, Phys. Rev. B **83**, 205103 (2011); *ibid.* **84**, 039905(E) (2011); arXiv:1010.5666.
17. D Schuricht, F H L Essler, A Jaefari and E Fradkin, *Boundary effects on the local density of states of one-dimensional Mott insulators and charge density wave states*, Phys. Rev. B **83**, 035111 (2011); arXiv:1009.5587.
16. S Y Müller, V Koerting, D Schuricht and S Andergassen, *Spin and orbital fluctuations in non-equilibrium transport through quantum dots: A renormalisation-group analysis*, Europhys. Lett. **92**, 10002 (2010); arXiv:1007.3605.
15. C Karrasch, S Andergassen, M Pletyukhov, D Schuricht, L Borda, V Meden and H Schoeller, *Non-equilibrium current and relaxation dynamics of a charge-fluctuating quantum dot*, Europhys. Lett. **90**, 30003 (2010); arXiv:0911.5496.
14. M Pletyukhov, D Schuricht and H Schoeller, *Relaxation versus decoherence: Spin and current dynamics in the anisotropic Kondo model at finite bias and magnetic field*, Phys. Rev. Lett. **104**, 106801 (2010); arXiv:0910.0119.
13. D Schuricht and H Schoeller, *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, Phys. Rev. B **80**, 075120 (2009) (Editors' Suggestion); arXiv:0905.3095.
12. D Schuricht, F H L Essler, A Jaefari and E Fradkin, *Local density of states of one-dimensional Mott insulators and charge-density wave states with a boundary*, Phys. Rev. Lett. **101**, 086403 (2008); arXiv:0802.1544.
11. D Schuricht and S Rachel, *Valence bond solid states with symplectic symmetry*, Phys. Rev. B **78**, 014430 (2008) (Editors' Suggestion); arXiv:0805.3918.
10. D Schuricht, *Many-spinon states and representations of Yangians in the  $SU(n)$  Haldane–Shastry model*, J. Phys. A **41**, 015208 (2008); arXiv:0711.1531.
9. D Schuricht and F H L Essler, *Dynamical response functions in the quantum Ising chain with a boundary*, J. Stat. Mech. (2007) P11004; arXiv:0709.1809.
8. M Greiter and D Schuricht, *Many-spinon states and the secret significance of Young tableaux*, Phys. Rev. Lett. **98**, 237202 (2007); arXiv:0705.1467.

7. M Greiter, S Rachel and D Schuricht, *Exact results for  $SU(3)$  spin chains: Trimer states, valence bond solids, and their parent Hamiltonians*, Phys. Rev. B **75**, 060401(R) (2007) (Rapid Communication); arXiv:cond-mat/0701354.
6. R Thomale, D Schuricht and M Greiter, *Charge excitations in  $SU(n)$  spin chains: Exact results for the  $1/r^2$  model*, Phys. Rev. B **75**, 024405 (2007); arXiv:cond-mat/0610268.
5. R Thomale, D Schuricht and M Greiter, *Exact two-holon wave functions in the Kuramoto–Yokoyama model*, Phys. Rev. B **74**, 024423 (2006); arXiv:cond-mat/0607750.
4. D Schuricht and M Greiter, *Coloron excitations of the  $SU(3)$  Haldane–Shastry model*, Phys. Rev. B **73**, 235105 (2006); arXiv:cond-mat/0511604.
3. M Greiter and D Schuricht, *Comment on “Spinon Attraction in Spin-1/2 Antiferromagnetic Chains”*, Phys. Rev. Lett. **96**, 059701 (2006); arXiv:cond-mat/0511607.
2. D Schuricht and M Greiter, *Complementary colors of colorons: the elementary excitations of the  $SU(3)$  Haldane–Shastry model*, Europhys. Lett. **71**, 987 (2005); arXiv:cond-mat/0502451.
1. M Greiter and D Schuricht, *No attraction between spinons in the Haldane–Shastry model*, Phys. Rev. B **71**, 224424 (2005); arXiv:cond-mat/0409495.

### Conference proceedings, pedagogical and popular articles, preprints

8. H Katsura and D Schuricht, *A brief note on the  $G_2$  Affleck-Kennedy-Lieb-Tasaki chain*, arXiv:2503.18885.
7. *Gefilterter Transport*, Physik Journal **17**, 20 (2018).
6. S Andergassen, D Schuricht, M Pletyukhov and H Schoeller, *Relaxation dynamics in correlated quantum dots*, AIP Conf. Proc. **1633**, 213 (2014).
5. S Rachel, D Schuricht, B Scharfenberger, R Thomale and M Greiter, *Spontaneous parity violation in a quantum spin chain*, J. Phys.: Conf. Ser. **200**, 022049 (2010); arXiv:0905.4895.
4. D Schuricht and M Greiter, *Spinons in the Haldane–Shastry model: An ideal gas of half-fermions*, Physica B **359–361**, 1415 (2005).
3. M Greiter and D Schuricht, *Reply to Bernevig, Giuliano, and Laughlin*, arXiv:cond-mat/0412039.
2. D Schuricht and M Greiter, *Contemplations on Dirac’s equation in quaternionic coordinates*, Eur. J. Phys. **25**, 755 (2004); arXiv:math-ph/0409050.

1. M Greiter and D Schuricht, *Imaginary in all directions: an elegant formulation of special relativity and classical electrodynamics*, Eur. J. Phys. **24**, 397 (2003); arXiv:math-ph/0309061.

## Theses

2. *Fractional quantization and Yangian symmetry in  $SU(n)$  spin chains*, PhD thesis, Fakultät für Physik, University of Karlsruhe, 27 January 2006.
1. *The Haldane-Shastry model, its Yangian, and the dynamical spin correlations*, Diploma thesis, Fakultät für Physik, University of Karlsruhe, 27 March 2003.

## Popular talks and lectures

5. *Modellierung und Wirklichkeit*, Ringvorlesung “Bildung zur Freiheit”, University of Münster, 18 January 2023.
4. *Collective phenomena in the quantum world*, Pub lecture at Bar Josefen, Utrecht, 14 November 2022.
3. *Collective phenomena in the quantum world*, Teacher training course “Kwantumwereld”, Utrecht University, 25 November 2015.
2. *Einstein en de Kwantummechanica*, Masterclass “Confrontation with Einstein” for secondary school pupils, Utrecht University, 5 November 2015.
1. *Collective phenomena in the quantum world*, Teacher training course “Kwantumwereld”, Utrecht University, 12 November 2014.

## Seminars and colloquia

38. *Phase diagram of an extended parafermion chain*, Seminar Current Topics in Theoretical Physics, University of Osnabrück, 4 June 2024.
37. *Phase diagram of an extended parafermion chain, and its frustration-free point*, Seminar on Quantum Algorithms for Many Body Systems, University of Amsterdam, 14 November 2023.
36. *Phase diagram of an extended parafermion chain*, Seminar zur Statistischen Physik, University of Wuppertal, 27 April 2023.
35. *Phase diagram of an extended parafermion chain*, Theorie der Kondensierten Materie (Seminar), RWTH Aachen University, 16 August 2022.
34. *Phase diagram of an extended parafermion chain*, Condensed matter theory seminar, University of Göttingen, 13 June 2022.

33. *Phase diagram of an extended parafermion chain*, Festkörpertheorie-Seminar, University of Regensburg, 9 June 2022.
32. *Phase diagram of an extended parafermion chain*, Center for Quantum Science Seminar, University of Tübingen, 12 November 2021.
31. *The interacting Majorana chain (and some generalisations)*, Seminar of the Institute for Mathematical Physics, University of Braunschweig, 10 March 2020.
30. *Time evolution after quantum quenches in one-dimensional systems*, Seminar of the Department of Theoretical Physics, Budapest University of Technology and Economics, 22 February 2019.
29. *Time evolution after quantum quenches in one-dimensional systems*, Seminar of the EPSRC Centre for Doctoral Training in Cross-Disciplinary Approaches to Non-Equilibrium Systems (CANES), King's College London, 13 February 2019.
28. *Persistent local currents in ring shaped, interacting nanostructures*, Theorie der Kondensierten Materie (Seminar), RWTH Aachen University, 6 November 2018.
27. *Time evolution and relaxation in strongly correlated quantum systems*, Seminar for Experimental Quantum Optics and Photonics, Department of Physics, University of Strathclyde, Glasgow, 23 November 2016.
26. *Time evolution and relaxation in strongly correlated quantum systems*, Theoretisch-Physikalisches Kolloquium, University of Cologne, 30 January 2015.
25. *On the interacting Majorana chain*, Seminar for condensed matter and statistical physics, Institute for Theoretical Physics, University of Amsterdam, 14 January 2015.
24. *On the interacting Majorana chain*, Condensed matter seminar, School of Physics and Astronomy, University of St Andrews, 23 October 2014.
23. *Local spectral properties of one-dimensional electron systems*, Guest colloquium, Physics of Interfaces and Nanomaterials, University of Twente, 15 May 2014.
22. *Quenches in Ising models: Universality and dynamical phase transitions*, Seminar der Chemisch-Physikalischen Gesellschaft, University of Vienna, 4 February 2014.
21. *Relaxation dynamics of one-dimensional systems after a quantum quench*, Seminar zur Statistischen Physik, University of Wuppertal, 30 January 2014.
20. *Relaxation dynamics of one-dimensional systems after a quantum quench*, Seminar for condensed matter and statistical physics, Institute for Theoretical Physics, University of Amsterdam, 4 December 2013.



19. *Strongly interacting Majorana modes in an array of Josephson junctions*, Seminar: Theoretische Probleme der kondensierten Materie, Dortmund University, 22 May 2013.
18. *Strongly interacting Majorana modes in an array of Josephson junctions*, NBIA/QDev condensed matter seminar, Niels Bohr Institute, University of Copenhagen, 8 May 2013.
17. *Non-equilibrium transport and relaxation dynamics in quantum dots*, Seminar über Festkörpertheorie, University of Hamburg, 16 January 2013.
16. *Relaxation dynamics of one-dimensional systems after a quantum quench*, Seminar on correlated quantum systems, Heidelberg University, 19 November 2012.
15. *Relaxation dynamics of one-dimensional systems after a quantum quench*, Quantum many-body phenomena in the solid state, University of Würzburg, 15 November 2012.
14. *Relaxation dynamics of one-dimensional systems after a quantum quench*, Seminar über Theoretische Festkörperphysik, Karlsruhe Institute of Technology, 22 October 2012.
13. *Quench dynamics in one-dimensional massive field theories: Ising field theory and sine-Gordon model*, Aktuelle Probleme der theoretischen Festkörperphysik, University of Göttingen, 18 June 2012.
12. *Non-equilibrium transport and relaxation dynamics of Kondo quantum dots*, University of Gothenburg, 19 October 2011.
11. *Theory of STM experiments on 1D gapped systems with an impurity*, Condensed matter theory seminar, Ludwig Maximilian University of Munich, 23 June 2010.
10. *Theory of STM experiments on 1D gapped systems with an impurity*, Condensed matter theory seminar, University of Cologne, 28 May 2010.
9. *Theory of STM experiments on 1D gapped systems with an impurity*, Theoretisch Physikalisches Kolloquium, University of Kaiserslautern, 18 June 2009.
8. *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, Condensed matter theory seminar, University of Cologne, 8 May 2009.
7. *Local density of states of 1D Mott insulators and CDW states in the presence of an impurity*, Seminar of the condensed matter and statistical physics section, ICTP Trieste, 16 April 2009.
6. *Local density of states of 1D Mott insulators and CDW states in the presence of an impurity*, Seminar zur Statistischen Physik, University of Wuppertal, 6 November 2008.

5. *Local density of states of 1D Mott insulators and charge density wave states in the presence of an impurity*, Seminar über Theoretische Festkörperphysik, University of Karlsruhe, 30 June 2008.
4. *Local density of states in Luttinger liquids with a dynamically generated spin gap*, Theorie der Kondensierten Materie (Seminar), RWTH Aachen University, 18 December 2007.
3. *Tableau representation for spinon and holon momenta in  $1/r^2$  models*, Séminaires de Physique Mathématique, Service de Physique Théorique CEA/Saclay, 6 February 2006.
2. *Tableau representation for spinon and holon momenta in  $1/r^2$  models*, Seminar for condensed matter and statistical physics, Institute for Theoretical Physics, University of Amsterdam, 1 December 2005.
1. *Complementary colors of colorons: the elementary excitations of the  $SU(3)$  Haldane–Shastry model*, Seminar zur Statistischen Physik, University of Wuppertal, 9 December 2004.

#### Conference contributions (invited talks)

19. *Phase diagram of an extended parafermion chain, and its frustration-free point*, Exact Solutions in Quantum Information: Entanglement, Topology, and Quantum Circuits, Banff International Research Station, 10-14 February 2025.
18. *Phase diagram of an extended parafermion chain, and its frustration-free point*, Exactly Solved Models and Quantum Computing, Lorentz Center Leiden, 18-22 March 2024.
17. *Phase diagram of an extended parafermion chain*, Delft Many-Body Workshop Series, 2 June 2022.
16. *Parafermions, the demanding cousins of Majoranas*, Online Task-Force Meeting of the DFG Research Unit FOR 2414, 15 May 2020.
15. *Time evolution after quantum quenches in one-dimensional systems*, International Conference 2018 on Non-equilibrium Dynamics of Condensed Matter in the Time Domain, Abbey Rolduc, Kerkrade, 3-6 September 2018.
14. *Time evolution during and after finite-time quantum quenches in one-dimensional systems*, Korrelationstage, MPI-PKS Dresden, 11-15 September 2017.
13. *On the interacting Majorana chain*, 2nd Workshop of the Research Group “Correlations in Integrable Quantum Many-Body Systems”, Hannover, 5-8 September 2017.

12. *Time evolution during and after finite-time quantum quenches in one-dimensional systems*, 627. WE-Heraeus-Seminar, Low-dimensional Quantum Systems: Models and Materials, Bad Honnef, 31 October-4 November 2016.
11. *Time evolution during and after finite-time quantum quenches in one-dimensional systems*, Workshop on Quantum Many-Body Methods in Condensed Matter Systems, Aachen, 4-7 October 2016.
10. *Non-equilibrium transport properties of spin-dependent nanostructures*, SPICE-Workshop on Quantum Spintronics: Spin Transport Through Quantum Magnetic Materials, Mainz, 21-23 September 2016.
9. *Universality in the quench dynamics of strongly correlated quantum systems*, Workshop on Quantum many-body systems far from equilibrium: Quench dynamics, thermalisation, and cold-atom experiments, Stellenbosch, 9-13 March 2015.
8. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Workshop on Mathematical Physics of Non-Equilibrium Quantum Systems, King's College London, 18-19 December 2014.
7. *On the interacting Majorana chain*, Conference on Quantum Engineering of States and Devices, Nordita Stockholm, 18-23 August 2014.
6. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Workshop and Seminar on Quantum Many Body Systems out of Equilibrium, MPI-PKS Dresden, 12-30 August 2013.
5. *Strongly interacting Majorana modes and Josephson junction arrays*, Amsterdam Summer Workshop on Low-D Quantum Condensed Matter, Amsterdam, 8-12 July 2013.
4. *Dynamical phase transitions after quenches in non-integrable models*, Workshop on Frontiers of quantum condensed matter physics: light, matter and unusual devices out of equilibrium, City University of New York, 25-28 March 2013.
3. *Non-equilibrium transport and relaxation dynamics of Kondo quantum dots*, International Conference on Quantum Quenches and Strongly Correlated Physics, Montauk, 6-9 September 2011.
2. *Non-equilibrium transport through quantum dots*, 5th International Conference on the Exact Renormalization Group (ERG 2010), Corfu, 12-19 September 2010.
1. *Local density of states of 1D Mott insulators and charge density wave states in the presence of an impurity*, International Conference on Strong Fluctuations in Low Dimensional Systems, Montauk, 2-5 September 2008.

## Conference contributions (talks)

18. *Long-lived circulating currents in strongly correlated nanorings*, 793. WE-Heraeus-Seminar, Nonequilibrium Physics—Current Trends and Future Perspectives, Bad Honnef, 28 August-1 September 2023.
17. *Phase diagram of an extended parafermion chain*, DPG Spring meeting, Dresden, 26-31 March 2023.
16. *Spin-models, dynamics and criticality with atoms in tilted optical superlattices*, DPG Spring meeting, Regensburg, 31 March-5 April 2019.
15. *On the interacting Majorana chain*, TOP-SPIN 3: Spin and Topological Phenomena in Nanostructures—towards Topological Materials Science, IFW Dresden, 25-28 April 2017.
14. *On the interacting Majorana chain*, Korrelationstage, MPI-PKS Dresden, 28 September-2 October 2015.
13. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Korrelationstage, MPI-PKS Dresden, 23-27 September 2013.
12. *Strongly interacting Majorana modes in an array of Josephson junctions*, DPG Spring meeting, Regensburg, 10-15 March 2013.
11. *Luttinger liquid universality in the time evolution after an interaction quench*, DPG Spring meeting, Regensburg, 10-15 March 2013.
10. *Quenches in Ising models: Universality and dynamical phase transitions*, Workshop on Short-time Dynamics in Strongly Correlated Systems and Novel Superconductors, Bochum, 18-21 February 2013.
9. *Dynamics in the Ising field theory after a quantum quench*, DPG Spring meeting, Berlin, 25-30 March 2012.
8. *Non-equilibrium transport through quantum dots with Dzyaloshinsky–Moriya–Kondo interaction*, Colloquium on Spin physics of topological insulators, graphene, spin chains and nanowires, Dresden, 16-17 February 2012.
7. *Non-equilibrium transport through quantum dots with Dzyaloshinsky–Moriya–Kondo interaction*, Workshop on Developments and Prospects in Quantum Impurity Physics, MPI-PKS Dresden, 6-10 June 2011.
6. *Local density of states of a quarter-filled 1D Mott insulator with a boundary*, DPG Spring meeting, Dresden, 13-18 March 2011.
5. *Quantum dots at finite bias: RG study of the Kondo model and IRLM*, Workshop on Time-dependent dynamics and non-equilibrium quantum systems, Budapest, 19-22 May 2010.

4. *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, DPG Spring meeting, Dresden, 22-27 March 2009.
3. *Local density of states of 1D Mott insulators and CDW states with a boundary*, DPG Spring meeting, Dresden, 22-27 March 2009.
2. *Local density of states of 1D Mott insulators and CDW states with a boundary*, Korrelationstage, MPI-PKS Dresden, 2-6 March 2009.
1. *Is there a spinon-spinon interaction in the Haldane–Shastry model?*, DPG Spring meeting, Regensburg, 8-12 March 2004.

### Conference contributions (posters)

25. *Long-lived circulating currents in strongly correlated nanorings*, Exactly Solved Models and Quantum Computing, Lorentz Center Leiden, 18-22 March 2024.
24. *Long-lived circulating currents in strongly correlated nanorings*, Current topics in the nonequilibrium physics of quantum many-body systems, University of Göttingen, 25-27 September 2023.
23. *Phase diagram of an extended parafermion chain*, Conference on Computational Methods for Quantum Many-Body Systems: Algorithms, Models and Materials, Göttingen, 6-9 September 2021.
22. *Long-lived circulating currents in strongly correlated nanorings*, Korrelationstage, MPI-PKS Dresden, 16-20 September 2019.
21. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, International Conference 2018 on Non-equilibrium Dynamics of Condensed Matter in the Time Domain, Abbey Rolduc, Kerkrade, 3-6 September 2018.
20. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Novel Paradigms in Many-Body Physics from Open Quantum Systems, MPI-PKS Dresden, 26-29 March 2018.
19. *General quantum quenches in the transverse-field Ising chain*, 599. WE-Heraeus-Seminar, Isolated Quantum Many-Body Systems out of Equilibrium, Bad Honnef, 30 November-3 December 2015.
18. *Charge fluctuations in nonlinear heat transport*, Korrelationstage, MPI-PKS Dresden, 28 September-2 October 2015.
17. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, Topological Matter out of Equilibrium, MPI-PKS Dresden, 27-29 March 2014.

16. *Dynamical phase transitions after quenches in non-integrable models*, Topological Matter out of Equilibrium, MPI-PKS Dresden, 27-29 March 2014.
15. *Integrability-based analysis of the hyperfine interaction induced decoherence in quantum dots*, 534. WE-Heraeus-Seminar, Quantum Many-Body Dynamics in Open Systems, Bad Honnef, 2-5 April 2013.
14. *Dynamics in the Ising field theory after a quantum quench*, KITP Conference on Dynamics and Thermodynamics in Isolated Quantum Systems, KITP Santa Barbara, 20-24 August 2012.
13. *Local density of states of a quarter-filled 1D Mott insulator with a boundary*, Workshop on Integrability and its Breaking in Strongly Correlated and Disordered Systems, ICTP Trieste, 23-27 May 2011.
12. *Non-equilibrium transport through quantum dots with Dzyaloshinskii–Moriya interactions*, Korrelationstage, MPI-PKS Dresden, 28 February-4 March 2011.
11. *Relaxation und Dekohärenz: Dynamik von Spin und Strom im anisotropen Kondo-Modell bei endlicher Spannung*, 465. WE-Heraeus-Seminar, Analytische und numerische Methoden korrelierter Elektronen, Bad Honnef, 27 September-1 October 2010.
10. *Quantum dots at finite bias: RG study of the Kondo model and IRLM*, Workshop on Correlated phenomena in low-dimensional systems, MPI-PKS Dresden, 5-23 July 2010.
9. *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, Fermions 2009 (International Conference), Obergurgl, 13-18 October 2009.
8. *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, Summer college on Nonequilibrium physics from classical to quantum low dimensional systems, ICTP Trieste, 6-24 July 2009.
7. *Dynamical spin-spin correlation functions in the Kondo model out of equilibrium*, Korrelationstage, MPI-PKS Dresden, 2-6 March 2009.
6. *Local density of states of 1D charge density wave states in the presence of an impurity*, 4th International Conference on the Exact Renormalization Group (ERG 2008), Heidelberg, 1-6 July 2008.
5. *Dynamical correlation functions in the Ising model with a boundary*, School and Workshop on Highly Frustrated Magnets and Strongly Correlated Systems: From Non-Perturbative Approaches to Experiments, ICTP Trieste, 30 July-17 August 2007.
4. *Dynamical correlation functions in the Ising model with a boundary*, Conference on Exploring Quantum Matter: Visions and Opportunities, St Andrews, 2-6 July 2007.

3. *Tableau representation for spinon and holon momenta in  $1/r^2$  models*, Workshop on Quantum Criticality, Lorentz Center Leiden, 7-19 August 2006.
2. *Complementary colors of colorons: The elementary excitations of the  $SU(3)$  Haldane–Shastry model*, International Workshop on Frustrated Magnetism, Montauk, 13-17 September 2004.
1. *Spinons in the Haldane–Shastry model: an ideal gas of half-fermions*, International Conference on Strongly Correlated Electron Systems (SCES'04), Karlsruhe, 26-30 July 2004.