List of publications of Dr Dirk Schuricht

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Published research articles


Conference proceedings, pedagogical articles and preprints


Theses


Popular articles and lectures


1. Collective phenomena in the quantum world, Department Day of the Department of Physics and Astronomy, Utrecht University, 8 May 2014.

Seminars and colloquia

32. Phase diagram of an extended parafermion chain, Center for Quantum Science Seminar, Universität Tübingen, 12 November 2021.

31. The interacting Majorana chain (and some generalisations), Seminar of the Institute for Mathematical Physics, Universität 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.


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.


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.


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.


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.


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.


12. Non-equilibrium transport and relaxation dynamics of Kondo quantum dots, University of Gothenburg, 19 October 2011.


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, Théorie der Kondensierten Materie (Seminar), RWTH Aachen University, 18 December 2007.

3. Tableau representation for spinon and holon momenta in $1/r^2$ models, Sémantaires 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.


Conference contributions (invited talks)

16. Parafermions, the demanding cousins of Majoranas, Online Task-Force Meeting of the DFG Research Unit FOR 2414, 15 May 2020.


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.


5. Strongly interacting Majorana modes and Josephson junction arrays, Amsterdam Summer Workshop on Low-D Quantum Condensed Matter, Amsterdam, 8-12 July 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.


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)


11. Luttinger liquid universality in the time evolution after an interaction quench, DPG Spring meeting, Regensburg, 10-15 March 2013.


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.


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.


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.


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.


3. Tableau representation for spinon and holon momenta in 1/r² models, Workshop on Quantum Criticality, Lorentz Center Leiden, 7-19 August 2006.
