

Sebastian Diehl - Curriculum Vitae (November 2015)

Personal

Address: Institute for Theoretical Physics
University of Cologne
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Email: Sebastian.Diehl@thp.uni-koeln.de

Born: 15 February 1979, Ludwigshafen, Germany

Citizenship: German

Languages Spoken: German (Native), English (fluent), French (fluent), Italian (fair)

Academic Positions

Nov. 2015 – present Full Professor, Institute for Theoretical Physics, University of Cologne, Germany

Sep. 2014 – Oct. 2015 Full Professor, Institute for Theoretical Physics, Technical University Dresden, Germany

Oct. 2011– Aug. 2014 Assistant Professor, Institute for Theoretical Physics, University of Innsbruck, Austria

Oct. 2009– Oct. 2011 Universitätsassistent (non-tenure track assistant professor), Institute for Theoretical Physics, University of Innsbruck, Austria

Dec. 2006– Oct. 2009 Postdoctoral position, Institute for Quantum Optics and Quantum Information of the Austrian Academy of Sciences, Innsbruck, Austria

Oct. 2006– Nov. 2006 Postdoctoral position, Institute for Theoretical High Energy Physics, Heidelberg University, Germany

Education

May 2014 Habilitation in Theoretical Physics at the University of Innsbruck: *Many-Body Quantum Systems under Drive and Dissipation*.

2003–06 PhD studies in Theoretical Physics at the University of Heidelberg
Dr. rer. nat. 24. October 06 (with distinction *summa cum laude*): *The BCS - BEC Crossover in Cold Fermion Gases*. Advisor: Prof. Christof Wetterich

1999–03 Physics at the University of Heidelberg
diploma in Physics June 03 (with distinction): *Nonperturbative Approaches for an Ultracold Fermion Gas*. Advisor: Prof. Christof Wetterich
pre-diploma in physics (April 01) and mathematics (February 01)

1998–99 Social service year at the university hospital Heidelberg

1998 School leaving exam (Abitur) at Geschwister - Scholl - Gymnasium, Ludwigshafen

Funding and Awards

2015	ERC Consolidator Grant 2014: “Many-Body Physics with Driven Open Quantum Systems of Atoms, Light and Solids” (DOQS)
2015	Selected as “Outstanding Referee” by the American Physical Society
2011	START Prize of the Austrian Science Fund
2003-06	PhD scholarship of Studienstiftung des deutschen Volkes (German National Academic Foundation)
2003	Otto-Haxel Prize of the Physics Department of the University of Heidelberg
2000-03	Student scholarship of Studienstiftung des deutschen Volkes (German National Academic Foundation)

Selected publications

1. F. Iemini, L. Mazza, D. Rossini, R. Fazio, S. Diehl, *Localized Majorana-like modes in a number conserving setting: An exactly solvable model*, Phys. Rev. Lett. **115**, 156402 (2015).
2. L. M. Sieberer, S. D. Huber, E. Altman, S. Diehl, *Dynamical critical phenomena in driven-dissipative systems*, Phys. Rev. Lett. **110**, 195301 (2013).
3. S. Diehl, E. Rico Ortega, M. Baranov, P. Zoller, *Topology by Dissipation in Atomic Quantum Wires*, Nature Physics **7**, 971 (2011).
4. S. Diehl, A. Micheli, A. Kantian, B. Kraus, H. Buechler, P. Zoller, *Quantum States and Phases in Driven Open Quantum Systems with Cold Atoms*, Nature Physics **4**, 878 (2008).
5. S. Diehl, H. Gies, J. M. Pawłowski, C. Wetterich, *Flow Equations for the BCS-BEC Crossover*, Phys. Rev. A **76**, 021602(R) (2007).