

1 (Short) Curriculum Vitae

1.1 Personal Data

Name: Robin Steinigeweg
Date of birth: somewhen in 1979
Place of birth: somewhere in Germany
Citizenship: German
Family status: married
Business address: University Osnabrück
Physics Department
Barbarastr. 7
D-49076 Osnabrück
Germany
Phone: +49 541 969 3592
Fax: +49 541 969 3472
Email: robin@robin-st.de
Website: <http://www.robin-st.de>



1.2 Field of Research and Interest

- solid state physics
- statistical physics
- computational physics
- transport, relaxation, and dynamics in many-body quantum systems
- equilibration and thermalization
- low-dimensional spin systems

1.3 Positions in Science (anti-chronological)

since 08.2020 **full professor** at the University Osnabrück, Germany
(own group *Transport and Relaxation in Many-Body Systems*)

since 12.2017 **spokesperson** of the DFG Research Unit FOR 2692

- title: *Fundamental Aspects of Statistical Mechanics and the Emergence of Thermodynamics in Non-Equilibrium Systems*

07.2017 successful completion of the early
mid-term evaluation of the junior professorship

10.2015 – 08.2020 **junior professor** at the University Osnabrück, Germany
(own group *Transport and Relaxation in Many-Body Systems*)

09.2012 - 10.2015 4. **postdoc position** and **lecturer** at the TU Braunschweig, Germany

- (group *Solid State Theory*, Prof. Dr. W. Brenig)
- 08.2011 - 09.2012 3. **postdoc position** at the Jožef Stefan Institute, Ljubljana, Slovenia
(group *Condensed Matter and Statistical Physics*, Prof. Dr. P. Prelovšek)
- 10.2009 - 08.2011 2. **postdoc position** at the TU Braunschweig, Germany
(group *Solid State Theory*, Prof. Dr. W. Brenig)
- 08.2008 - 10.2009 1. **postdoc position** at the University Osnabrück, Germany
(group *Quantum Thermodynamics*, Prof. Dr. J. Gemmer)

1.4 Education (anti-chronological)

- 06.2005 - 08.2008 **PhD student** at the University Osnabrück, Germany
- degree: Dr. rer. nat.
 - passed: **with distinction**
 - PhD thesis: *Application of projection operator techniques to transport investigations in closed quantum systems*
(group *Quantum Thermodynamics*, Prof. Dr. J. Gemmer)
08. - 09.2006 **summer student** at the Centro Internacional de Ciencias, Cuernavaca, Mexico
- topic: *Quantum Chaos*
- 10.2000 - 04.2005 **physics student** at the University Osnabrück, Germany
- degree: Dipl.-Phys.
 - passed: **with distinction**
 - diploma thesis: *Zur Dynamik von klassischen Heisenberg-Systemen: Klassen integrierbarer Systeme und symplektische Integratoren für nicht integrable Systeme*
(group *Macroscopic Systems and Quantum Theory*, Prof. Dr. K. Bärwinkel)
08. - 09.2003 **summer student** at the Hahn Meitner Institute, Berlin
- topic: *Strukturforschung, Methoden und Instrumente*
- 1990 - 1999 student at the Kardinal-von-Galen-Gymnasium Mettingen
- degree: Abitur
 - passed: very good (1.3)
- 1985 - 1990 student at the Grundschule Halen

1.5 Positions outside Science

- 08.1999 - 05.2000 civilian service at the Sozialdienst katholischer Frauen e.V., Ibbenbüren, Germany

1.6 Awards

- 2008 PhD thesis: **with distinction**
- 2005 award of the H. Rosen Engineering GmbH for **Outstanding Works in Physics**

2005 diploma thesis: **with distinction**

1.7 Funding

- since 2018 **coordination fund** of the DFG Research Unit FOR 2692
- title: *Fundamental Aspects of Statistical Mechanics and the Emergence of Thermodynamics in Non-Equilibrium Systems*
- since 04.2021 **principal investigator** of a FOR 2692 project
- title: *Nonequilibrium Dynamics in 2D Clusters from the Perspective of Quantum Typicality and Eigenstate Thermalization*
- since 04.2021 **(co-)principal investigator** of a FOR 2692 project
- title: *Combinations of Damped Harmonic Oscillations as Stable Building Blocks of Autocorrelation Functions in Quantum Many-Body Systems*
- since 04.2021 **(co-)principal investigator** of a FOR 2692 project
- title: *Decoherence and Relaxation in Quantum Spin Clusters*
- 2018 - 2021 **principal investigator** of a FOR 2692 project
- title: *Real-Time and Real-Space Dynamics of Far-From-Equilibrium States in Isolated Quantum Systems*
- 2018 - 2021 **(co-)principal investigator** of a FOR 2692 project
- title: *Asymptotic Validity of the Jarzynski Relation for Non-Gibbsian Initial States in Isolated Quantum Systems*
- 2018 - 2021 **(co-)principal investigator** of a FOR 2692 project
- title: *Decoherence and Relaxation in Quantum Spin Clusters*
- 2018 - 2021 PhD position from the **innovation pool** of the University Osnabrück, Germany
- since 2015 successful (co-)applications for computing time on the **supercomputer JUQUEEN / JUWELS** at the Forschungszentrum Jülich, Germany

1.8 Commissions of Trust

- since 04.2021 member of the study commission of the Physics Department
- since 2016 member of the council of the Physics Department
- since 2016 IT coordinator of the Physics Department
- since 2016 fire protection and evacuation assistant
- since 2008 **reviewer** for the journals
Physical Review Letters, Physical Review A, Physical Review B, Physical Review E (more than 100 requests)
and several other international journals.

1.9 Member in Scientific Networks

since 2017	regular member of the <i>American Physical Society</i>
since 2016	member of the profile <i>Mathematische Strukturen und Modelle</i> of the University Osnabrück, Germany
10.2009 - 08.2011	postdoc in the DFG Research Unit FOR 912 <ul style="list-style-type: none">• title: <i>Coherence and Relaxation of Electron Spins</i>
since 2005	regular member of the <i>Deutsche Physikalische Gesellschaft</i>

1.10 Publications, Contributions to Scientific Events, and Teaching

- 62 publications, including 15 Letters as main author / mentor
- more than 100 contributions to scientific events, including several invited talks at international workshops, as well as organization of own workshops
- 16 lectures at the TU Braunschweig and the University Osnabrück, including *Physikalische Rechenmethoden I*, *Moderne Physik*, *Visualisierung I & II*, *Mathematische Methoden der Physik I & II*, *Klassische Spinsysteme*, *Numerische Physik der kondensierten Materie*, *Theorie der kondensierten Materie*, with excellent evaluations
- more information: <http://www.robin-st.de>

(last update: 01.04.2021)