

Christian Groß – Curriculum Vitae

Work Address	Universität Tübingen Physikalisches Institut Auf der Morgenstelle 14 72076 Tübingen	Max-Planck-Institut für Quantenoptik Hans-Kopfermann-Str. 1 85748 Garching
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Permanent Positions

- since 2019** Eberhard Karls University, Tübingen, Germany
Professor (W3, Heisenberg-Professur) for Experimental Quantum Many-Body Physics
- since 2017** Max-Planck-Institute of Quantum Optics, Garching, Germany
Research group leader

Postdoc

- 2011–2016** Max-Planck-Institute of Quantum Optics, Garching, Germany
Project leader of two experiments in the group of Prof. I. Bloch
- 2010–2011** Ruprecht-Karls-University, Heidelberg, Germany
Postdoc in the group of Prof. M. Oberthaler

Education

- 2006–2010** Doctoral thesis, Ruprecht-Karls-University, Heidelberg, Germany
*“Spin squeezing and nonlinear atom interferometry with Bose-Einstein condensates”,
Supervisor: Prof. M. Oberthaler*
- 2001–2006** Graduated in physics (Diplom), Johannes Gutenberg-University, Mainz, Germany
*Diploma thesis: “Ein Frequenzkamm-basiertes, phasenkohärentes Diodenlasersystem”,
Supervisor: Prof. I. Bloch*

Awards and scholarships

- 2019** Alfried Krupp-Förderpreis für junge Hochschullehrer
- 2018** Heisenberg Professorship of the German Research Foundation
- 2017** Heinz Maier-Leibnitz-Preis of the German Research Foundation
- 2015** Starting Grant of the European Research Council
- 2011** “Dissertationspreis der Sektion AMOP der Deutschen Physikalischen Gesellschaft”
- 2011** “Ruprecht-Karls Preis” of the University of Heidelberg

Invited talks at conferences and workshops

2019

- *Dreiburg meeting: Many-Body Chaos*, Duisburg, Deutschland
- *Colloquium on Quantum Technologies*, Esslingen, Germany
- *BEC 2019 – Frontiers in Quantum Gases*, Sant Feliu, Spain
- *Quantum mixtures*, Trento, Italy
- *APS DAMOP Meeting*, Milwaukee, WI, USA

2018

- *Research Frontiers in Ultracold Quantum Gases*, Bad Honnef, Germany
- *Advances in Quantum Simulation with Ultracold Atoms*, Natal, Brazil
- *Workshop on strongly interacting, open many-body systems*, Heraklion, Greece
- *Quantum Phases of Fermions in Optical Lattices: The Low-Temperature Frontier*, Cambridge, MA, USA
- *Japan-EU workshop on Advanced Quantum Technology*, Paris, France
- *Controlling quantum matter: From ultracold atoms to solids*, Vilnius, Lithuania
- *International Conference on Atomic Physics (ICAP)*, Barcelona, Spain
- *Quantum Transport with Cold Atoms*, Monte Verita, Switzerland
- *WE-Heraeus-Seminar: Quantum Gases and Quantum Coherence*, Bad Honnef, Germany
- *Beyond Digital Computing*, Heidelberg, Germany
- *Quantum Many-body Systems Far from Equilibrium*, Stellenbosch, South Africa
- *Finess 2018*, Wanaka, New Zealand

2017

- *Quantum Science and Quantum Technologies*, ICTP Trieste, Italy
- *BEC 2017 – Frontiers in Quantum Gases*, Sant Feliu, Spain
- *Fundamentals of Quantum Transport*, ICTP Trieste, Italy
- *APS DAMOP Meeting*, Sacramento, CA, USA
- *Quantum State Engineering*, Hannover, Germany
- *DPG Spring Meeting*, Dresden, Germany
- *APS March Meeting*, New Orleans, LA, USA
- *Quantum Dynamics: From Models to Materials*, Aspen, CO, USA

2016

- *KITP Conference: Designer Quantum Systems out of Equilibrium*, Santa Barbara, CA, USA
- *Quantum Gases 2016: “Non-Equilibrium Dynamics”*, Beijing, China
- *Gordon Research Conference “Quantum Science”*, Stonehill College, MA, USA

2015

- *BEC 2015 – Frontiers in Quantum Gases*, Sant Feliu, Spain
- *Synthetic Quantum Magnetism*, Dresden, Germany
- *International conference on Rydberg Atoms*, Durham, United Kingdom
- *APS DAMOP Meeting*, Columbus, OH, USA
- *Quantum many-body systems far from equilibrium*, Stellenbosch, South Africa

2014

- *Long-range interactions in quantum systems*, Paris, France
- *Precision Tests of Many-Body Physics with Ultracold Quantum Gases*, Beijing, China
- *Shedding light on emergent quantum phenomena*, Heidelberg, Germany
- *APS March Meeting*, Denver, CO, USA

- *Quantum Optics*, Obergurgl, Austria

2013

- *From quantum matter to quantum information*, Vancouver, Canada
- *Workshop on Ultracold Rydberg Physics*, Dresden, Germany
- *Quantum Simulations*, Benasque, Spain
- *Quantum Simulations and Quantum Walks*, Pisa, Italy

2011

- *DPG Spring Meeting*, Dresden, Germany

2010

- *International Conference on Quantum Optics*, Obergurgl, Austria
- *Quantum Engineering of States and Devices*, Obergurgl, Austria

Seminars and colloquia

2020

- *Ole Rømer Colloquium*, Aarhus, Denmark

2019

- *Physics Colloquium*, Tübingen, Germany
- *DQ-mat Colloquium*, Hannover, Germany
- *Colloquium of the Centers for Quantum Dynamics*, Heidelberg, Germany

2018

- *Seminar at the Max Planck Institute for Complex Systems*, Dresden, Germany
- *Cavendish Quantum Colloquium*, University of Cambridge, Cambridge, UK
- *Seminar Institute of Laser Physics*, University of Hamburg, Hamburg, Germany

2017

- *CUA Seminar MIT/Harvard*, Boston, MA, USA
- *Physics Colloquium TU Graz*, Graz, Austria
- *Quantum Science Seminar Uni Tübingen*, Tübingen, Germany
- *AMO Seminar Stanford University*, Stanford, CA, USA
- *Seminar UCL London*, London, United Kingdom

2016

- *Seminar TU Darmstadt*, Darmstadt, Germany
- *SFB colloquium CO.CO.MAT*, Stuttgart, Germany
- *Munich Quantum Center meeting, MPQ*, Garching, Germany
- *Condensed matter theory seminar, LMU Munich*, Munich, Germany
- *Physics colloquium, University of Nottingham*, Nottingham, United Kingdom
- *Graduate school colloquium, Fundamentals and applications of ultra-cold matter*, Hannover, Germany
- *IMPRS colloquium, MPIPKS*, Dresden, Germany

2014

- *Atominstitut Wien*, Vienna, Austria
- *ENS*, Paris, France
- *LENS*, Florence, Italy
- *IQOQI*, Innsbruck, Austria

2011

- *University of Ulm*, Ulm, Germany
- *University of Nottingham*, Nottingham, United Kingdom

2010

- *LMU Munich*, Munich, Germany
- *Atominstitut Wien*, Vienna, Austria