

Personal Details

Name: **Prof. Dr. Rudolf Gross**

Office address: Walther-Meißner-Institut
Bayerische Akademie der Wissenschaften
Walther-Meißner-Str. 8, 85748 Garching

Phone: +49 – 89 289 14201

Fax: +49 – 89 289 14206

E-Mail: Rudolf.Gross@wmi.badw.de

Web: www.wmi.badw.de



Education and Scientific Career

1976 – 1982 Study of Physics, University of Tübingen

1983 Diploma Degree in Physics, University of Tübingen

1987 Ph.D. Degree in Physics, University of Tübingen

1987 Visiting Scientist, Electrotechnical Laboratory, Tsukuba, Japan

1988 – 1989 Postdoctoral Research Associate, University of Tübingen

1989 – 1990 Visiting Scientist, IBM T.J. Watson Research Center, Yorktown Heights, New York, USA

1990 – 1993 Postdoctoral Research Associate, University of Tübingen

1993 Habilitation, University of Tübingen

1993 – 1995 Assistant Professor, University of Tübingen

1996 – 2000 Full Professor, Chair for Applied Physics, II. Physikalisches Institut, University of Cologne

Principal Investigator and Board Member of the DFG Collaborative Research Center (SFB) 341 on *“Physics of Mesoscopic and Low Dimensional Metallic Systems”* (Cologne, Aachen, Jülich)

since 2000 Full Professor, Chair for Technical Physics (E 23), Technische Universität München

Director of the Walther-Meißner-Institute for Low Temperature Research of the Bavarian Academy of Sciences and Humanities

2004 – 2010 Principal Investigator of the DFG Research Unit 538 on *“Doping Dependence of Phase Transitions and Ordering Phenomena in Copper-Oxygen Superconductors”*

2003 – 2015 Spokesman of the DFG Collaborative Research Center (SFB) 631 on *“Solid State Quantum Information Processing: Physical Concepts and Material Aspects”*

since 2006 Member of the Excellence Center *“Nanosystems Initiative Munich”*, Board member and Coordinator of Research Area 1 on *Quantum Nanosystems*

Fellowships, Awards and Services to the Community

1984	Prof. Dr. Friedrich-Förster Award of the University of Tübingen
2002	Full Member of the Bavarian Academy of Sciences and Humanities
2007	Heinz Maier-Leibnitz Medal of the Technische Universität München
2015	Silver Order of Merit of the Bavarian Academy of Sciences and Humanities
2015	Leibniz Medal of IFW Dresden
1999 – 2001	Member of the Scientific Advisory Board of the Institut für Schicht- und Ionentechnik and the Institut für Schichten und Grenzflächen, Forschungszentrums Jülich
2001 – 2008	Member of the Fachbeirat of the Max-Planck-Institut für Plasmaphysik, Garching
2001 – 2013	Member of the Board of Editors of the European Physical Journal B
2004 – 2006	Elected referee (Fachgutachter) for Condensed Matter Physics for the German Research Foundation
2005 – 2007	Member of the selection committee of the Walter Schottky Prize of the German Physical Society
2008 – 2012	Member of the Board of Trustees of the Physik Journal
2008 – 2012	Spokesman of the Low Temperature Physics Division of the German Physical Society
2012 – 2015	Deputy spokesman of the Low Temperature Physics Division of the German Physical Society
2008 – 2015	Member of the Scientific Advisory Board of the Leibniz Institute for Solid State and Materials Research, Dresden
since 2004	Course leader at the Ferienakademie of the Universities Munich (TU), Stuttgart and Erlangen-Nürnberg
since 2010	Member of the selection committee of the Stern-Gerlach Medal of the German Physical Society
since 2013	Member of the TUM Appointment and Tenure Board
since 2015	Member of the Committee for the allocation of Alexander von Humboldt Foundation Research Awards
since 2016	Member of the Scientific Advisory Board of the Bayerisches Geoinstitut Bayreuth
2004, 2006, 2009	Organizer of the International School and Workshop on “Solid State Quantum Information Processing”, Herrsching, Bavaria
2013, 2015	Co-organizer of the International Conference on “Resonator QED”, Munich, Germany

Areas of Research

- superconductivity and superconducting devices
- quantum science and technology: solid state quantum systems, quantum information science and technology
- magnetism, spin electronics, spin dynamics and spin caloritronics
- mesoscopic systems and nanotechnology
- oxide heterostructures

Important Research Projects (5 recent)

- DFG Collaborative Research Center 631 “*Solid State Quantum Information Processing*” (1.7.2003-30.6.2015), spokesman and PI.
- Cluster of excellence “*Nanosystems Initiative Munich (NIM)*” (1.11.2008-30.10.2017), PI and coordinator of Research Area I (Quantum Nanophysics).
- International PhD program “*Exploring Quantum Matter (ExQM)*” within the Elite Network of Bavaria (1.6.2014-31.5.2019), 12 groups from Munich, PI.
- Marie Curie Network on “*Circuit and Cavity Quantum Electrodynamics (CCQED)*” (01.12.2010-30.11.2014), in collaboration with European partners, PI.
- EU Collaborative Project (STREP) on “*Quantum Propagating Microwaves in Strongly Coupled Environments*” (01.12.2010-30.06.2015), with 10 groups from the EU, PI.

Publications

More than 350 publications are listed in the Web of Science on May 2016 with more than 8000 citations (h-index 48).

ResearcherID: [A-6227-2012](https://orcid.org/0000-0003-4524-7552)

ORCID ID: orcid.org/0000-0003-4524-7552