Prof. Dr. Rudolf Gross
List of Major Research Grants

January 2023

Personal Details

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Scientific Career

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 – 1995 Assistant Professor, University of Tübingen
1996 – 2000 Full Professor, Chair for Applied Physics, Institute of Physics II, University of Cologne
Since 2000 Full Professor, Chair for Technical Physics (E 23), Technical University of Munich
Director of the Institute of Physics II
Director of the Walther-Meißner-Institute for Low Temperature Research of the Bavarian Academy of Sciences and Humanities
Research Grants (without DFG Individual Grants)

- “Munich Quantum Valley e.V. (MQV)”, since 01.10.2021, principal investigator, coordinator of consortium QTPE (Quantum Technology Park & Entrepreneurship).
- Cluster of excellence “Munich Center for Quantum Science and Technology (MCQST)”, since 01.01.2019, spokesperson and coordinator or Research Unit C (Quantum Computing).
- Munich Quantum Valley Lighthouse Project “Networked Quantum Systems (NeQuS)”, since 01.01.2023, PI.
  Projects partners: WMI, MPQ, LMU, TUM.
- Munich Quantum Valley Lighthouse Project “Integrated Spin Systems for Quantum Sensors (IQSense)”, since 01.01.2023, PI.
  Projects partners: University of Würzburg (coordination), WMI, TUM.
- BMBF Project “Storage of Microwave Quantum Tokens in Electron and Nuclear Spin Ensembles (QuamToMe)”, project No. 16KISQ036, since 01.11.2021, PI.
- BMBF Joint Project “QUAntenRAdarTEam (QUARATE)”, project No. 13N15380, since 01.02.2021, PI.
  Project partners: Rohde & Schwarz GmbH & Co. KG (coordinator), WMI, DLR, TUM.
- BMBF Joint Project “German Quantum Computer based on Superconducting Qubits (GeQCoS)”, project No. 13N15680, sub-project: “Scaling and Demonstrator”, 01.02.2021-31.01.2025, PI.
  Project Coordinator: S. Filipp (WMI)
  Project Partners: Jülich Research Center, Karlsruhe Institute of Technology, FAU Erlangen-Nuremberg, Fraunhofer Society, Infineon Technologies AG.
- EU Quantum Flagship Project “Quantum Microwave Communication and Sensing (QMiCS)”, 01.10.2018-30.09.2021, PI.
  Projects partners: several European universities, research institutions, and companies.
- EU Collaborative Project (H2020-FETOPEN) “Magnetomechanical Platforms for Quantum Experiments and Quantum Enabled Sensing Technologies (MaQSens)”, 01.01.2017-21.10.2020, PI.
  Projects partners: several European universities, research institutions, and companies.
- International Max Plank Research School “Quantum Science and Technology (IMPRS-QST)”, 01.03.2016-29.02.2028, PI.
  Spokesperson: Ignacio Cirac
  Projects partners: Max Planck Institute of Quantum Optics, LMU, TUM, WMI.
- International PhD program “Exploring Quantum Matter (ExQM)” within the Elite Network of Bavaria, project No. K-NW-2013-231, 01.06.2014-31.05.2024, PI.
  Projects partners: LMU, TUM, MPQ, WMI.
- DFG Collaborative Research Center 631 “Solid State Quantum Information Processing”, several sub-projects, 01.07.2003-30.06.2015, spokesperson and PI.
- Marie Curie Network (FP7-PEOPLE-2010-ITN) on “Circuit and Cavity Quantum Electrodynamics (CCQED)”, 01.12.2010-30.11.2014, PI.
  Projects partners: several European universities and research institutions.
- EU Collaborative Project (FP7-ICT-2011-C) on “Quantum Propagating Microwaves in Strongly Coupled Environments (PROMISCE)”, 01.12.2010-30.06.2015, PI.
  Projects partners: 10 European groups.
- DFG Priority Program 1285 “Semiconductor Spin Electronics”, sub-project: “Spin injection, spin transport and controllable ferromagnetism in transition metal doped ZnO”, 01.04.2007-31.08.2013, PI.
- BMBF Joint Project “Three-Terminal Devices Based on High Temperature Superconductors”, project Nos. 13N6434 and 13N6999, 01.05.1994-31.10.1997, PI.