

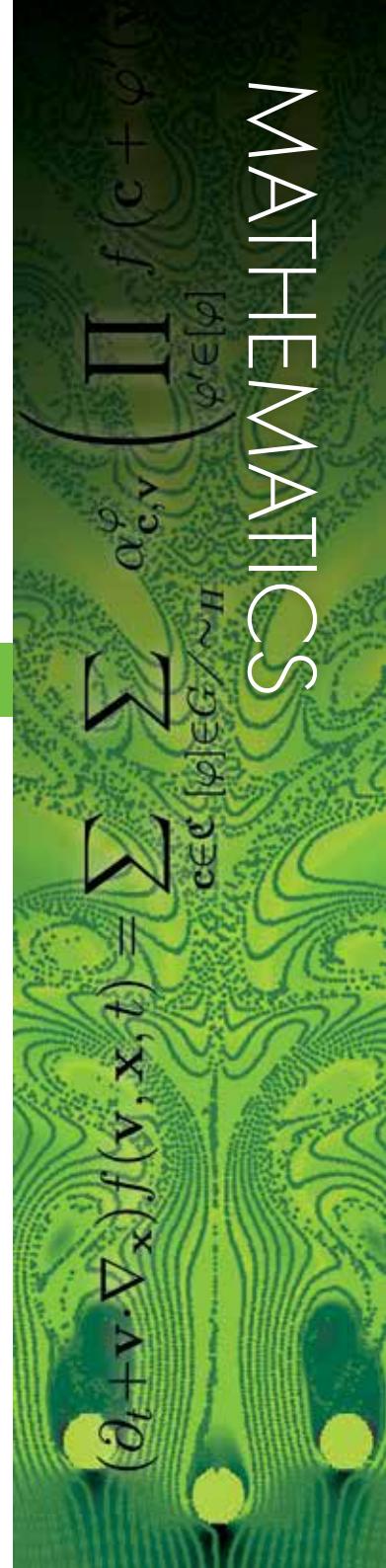


# Research in Germany

Research in  
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Land of Ideas

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AN INITIATIVE OF THE





# Research in Germany

## Imprint

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MATHEMATICS

## PREFACE

This brochure provides a first insight into research in Germany in the field of mathematics.

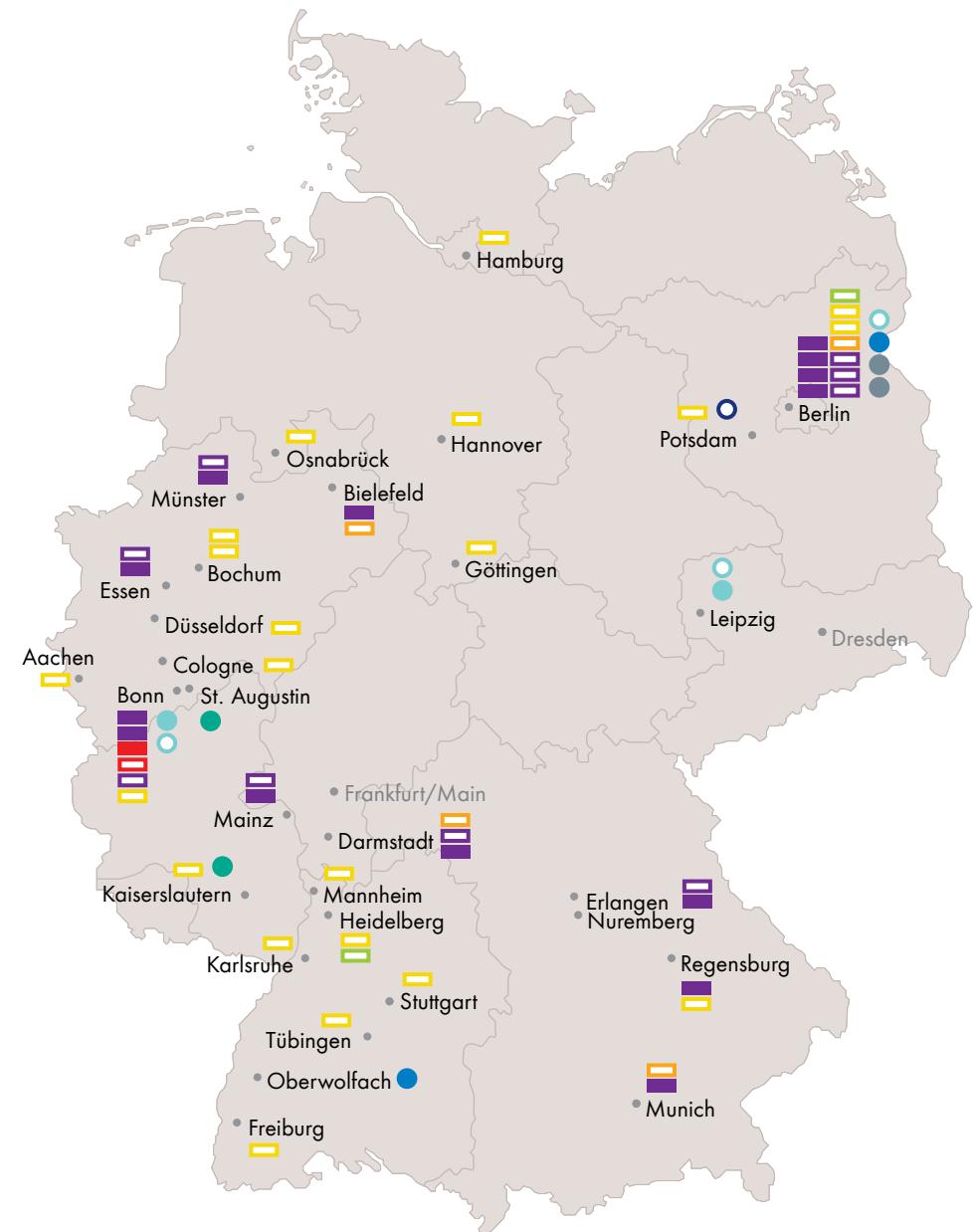
Mathematical research in Germany is primarily conducted at universities but also at non-university research institutions. Almost all universities and many universities of applied sciences host a mathematical research section with smaller or larger working groups. Most mathematics departments refer to mathematics in a broad sense and cover a wide range of mathematical subdisciplines. Many departments have nowadays developed a more focused research profile concentrating in priority areas of mathematical research.

This brochure is intended to give an initial overview. The following map and tables highlight research consortia and graduate training programmes at universities and non-university research institutes with a main focus on mathematics.

On top of this, there is a lot more to discover: e.g. the DFG funds a multitude of individual or joint projects in the area of mathematics through individual grants. Towards the end of this brochure, you will find a link to the online database GEPRIS that provides an overview of all DFG funded research projects. You will also find additional important links for further information about programmes in the field of mathematics and profiles of German universities and research institutions.

We invite you to explore the many opportunities that Germany has to offer and welcome your feedback.

# OVERVIEW



- Graduate Schools
  - Research Training Groups
  - International Research Training Groups
  - Integrated Research Training Groups in Clusters of Excellence
  - Integrated Research Training Groups in Collaborative Research Centres/Transregios
  - Clusters of Excellence
  - Collaborative Research Centres/Transregios
- Helmholtz Graduate Schools  
 ○ International Max Planck Research Schools  
 ● Fraunhofer Institutes  
 ● Leibniz Institutes  
 ● Max Planck Institutes  
 ● Others

DFG funded Priority Programmes and Research Units are not shown on the map since they are not necessarily located at a single location; they are listed on pages 13 and 15.

# CENTRES OF RESEARCH

- FUNDED BY DFG -

**Clusters of Excellence (EXC)** were established at universities in the framework of the German Excellence Initiative and promote cutting-edge research. Their objective is to engage in scientific networking and collaboration in research fields of particular promise for the future. They also offer excellent training conditions and career opportunities for early career researchers.

**Collaborative Research Centres (CRC)** are organisational units established at universities which enable researchers to pursue an outstanding research programme crossing the boundaries of disciplines, institutes, departments and faculties. The traditional Collaborative Research Centre is generally applied for by one university and is conducted by researchers of that university. Early career support is a key objective of the Collaborative Research Centre Programme. Early career researchers may get involved in a CRC in numerous ways, for example within the framework of an Integrated Research Training Group. Collaborative Research Centres are funded for a period of up to 12 years.

**Transregios (TRR)** are Collaborative Research Centres in which up to three universities collaborate with each other and submit a joint application. The contributions of the cooperative partners are essential, complementary and synergetic to the joint research objective. Funding facilitates close, nationwide collaboration among the participating universities and researchers, as well as networking and shared use of resources. There is also the option of international Transregios.

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
<b>CLUSTERS OF EXCELLENCE</b>				
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Mathematics: Foundations, Models, Applications - Hausdorff Center for Mathematics (EXC 59)</b>	2006	<a href="http://www.hausdorff-center.uni-bonn.de">www.hausdorff-center.uni-bonn.de</a>
<b>COLLABORATIVE RESEARCH CENTRES</b>				
Berlin	Humboldt-Universität zu Berlin	<b>Space - Time - Matter: Analytic and Geometric Structures (CRC 647)</b>	2005	<a href="http://www.raumzeitmaterie.de">www.raumzeitmaterie.de</a>
Berlin	Freie Universität Berlin	<b>Scaling Cascades in Complex Systems (CRC 1114)</b>	2014	<a href="http://www.mi.fu-berlin.de/en/math/groups/fluid-dyn">www.mi.fu-berlin.de/en/math/groups/fluid-dyn</a>
Bielefeld	Universität Bielefeld	<b>Spectral Structures and Topological Methods in Mathematics (CRC 701)</b>	2005	<a href="http://www.math.uni-bielefeld.de/sfb701">www.math.uni-bielefeld.de/sfb701</a>
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>The Mathematics of Emergent Effects (CRC 1060)</b>	2013	<a href="http://sfb1060.iam.uni-bonn.de">http://sfb1060.iam.uni-bonn.de</a>
Münster	Westfälische Wilhelms-Universität Münster	<b>Groups, Geometry, and Actions (CRC 878)</b>	2010	<a href="http://www.math.uni-muenster.de/sfb878">www.math.uni-muenster.de/sfb878</a>
Regensburg	Universität Regensburg	<b>Higher Invariants - Interactions between Arithmetic Geometry and Global Analysis (CRC 1085)</b>	2014	<a href="http://www.mathematik.uni-regensburg.de/loeh/sfb-higher-invariants">www.mathematik.uni-regensburg.de/loeh/sfb-higher-invariants</a>
<b>COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS</b>				
Berlin Graz (Austria) Munich Vienna (Austria)	Technische Universität Berlin Technische Universität Graz Technische Universität München Technische Universität Wien	<b>Discretization in Geometry and Dynamics (TRR 109)</b>	2012	<a href="http://www.discretization.de">www.discretization.de</a>
Berlin Darmstadt Erlangen-Nuremberg	Humboldt-Universität zu Berlin Technische Universität Berlin Technische Universität Darmstadt Friedrich-Alexander-Universität Erlangen-Nürnberg	<b>Mathematical Modelling, Simulation and Optimization Using the Example of Gas Networks (TRR 154)</b>	2014	<a href="http://www.mso.math.fau.de/edom">www.mso.math.fau.de/edom</a>

## CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	Periods, Moduli Spaces and Arithmetic of Algebraic Varieties (TRR 45)	2007	<a href="http://www.sfb45.de">www.sfb45.de</a>
Essen	Universität Duisburg-Essen			
Mainz	Johannes Gutenberg-Universität Mainz			



# RESEARCH UNITS

-FUNDED BY DFG-

**Research Units (FOR)** often contribute to establishing new research directions. Research Units are made up of a team of researchers working together on a research project which is often of an interdisciplinary nature. Research units consist of several researchers and subprojects. The subprojects of a Research Unit are often located at several locations throughout Germany. Research Units are generally funded for up to six years.

Research Units are not shown on the map. Only the titles of the thematic focus and the project websites are listed.



## RESEARCH UNITS

Title	Funded Since	Contact
Symmetry, Geometry and Arithmetic (FOR 1920)	2013	<a href="http://www.mathi.uni-heidelberg.de/fg-sga">www.mathi.uni-heidelberg.de/fg-sga</a>
Structural Inference in Statistics: Adaptation and Efficiency (FOR 1735)	2012	<a href="http://www.mathematik.hu-berlin.de/for1735">www.mathematik.hu-berlin.de/for1735</a>
Geometry and Physics of Spatial Random Systems (FOR 1548)	2011	<a href="http://www.gpsrs.nat.uni-erlangen.de">www.gpsrs.nat.uni-erlangen.de</a>
Statistical Regularisation and Qualitative Constraints - Inference, Algorithms, Asymptotics and Applications (FOR 916)	2008	<a href="http://www.stochastik.math.uni-goettingen.de/forschergruppe">www.stochastik.math.uni-goettingen.de/forschergruppe</a>
Analysis and Computation of Microstructure in Finite Plasticity (FOR 797)	2007	<a href="http://www.iam.uni-bonn.de/aaa2/microplast">www.iam.uni-bonn.de/aaa2/microplast</a>
Classification of Algebraic Surfaces and Compact Complex Manifolds (FOR 790)	2007	<a href="http://www.forschergruppe-dfg790.de/DE">www.forschergruppe-dfg790.de/DE</a>

## PRIORITY PROGRAMMES

- FUNDED BY DFG -

**Priority Programmes (SPP)** have a programmatic focus and the purpose of advancing knowledge in an emerging field of research through collaborative networked support. They are characterised by their enhanced quality of research through the use of new methods and forms of collaboration in emerging fields. As a rule, one programme can consist of up to 30 individual subprojects located at several institutions across Germany; it usually has one coordinating person. Priority Programmes normally receive funding for a period of up to six years.

Priority Programmes are not shown on the map. Only the titles of the overall themes and the project websites are listed.

### PRIORITY PROGRAMMES

Title	Funded Since	Contact
Compressed Sensing in Information Processing (SPP 1798)	2015	<a href="http://www.ti.rwth-aachen.de/SPP1798">www.ti.rwth-aachen.de/SPP1798</a>
Homotopy Theory and Algebraic Geometry (SPP 1786)	2015	<a href="http://www.esaga.uni-due.de/spp1786">www.esaga.uni-due.de/spp1786</a>
Reliable Simulation Techniques in Solid Mechanics. Development of Non-Standard Discretization Methods, Mechanical and Mathematical Analysis (SPP 1748)	2014	<a href="http://www.uni-due.de/de/forschung/fp_dfg_schwerpunktprogramme.php">www.uni-due.de/de/forschung/fp_dfg_schwerpunktprogramme.php</a>
Software for Exascale Computing (SPP 1648)	2012	<a href="http://www.sppexa.de">www.sppexa.de</a>
Probabilistic Structures in Evolution (SPP 1590)	2012	<a href="http://www.dfg-spp1590.de">www.dfg-spp1590.de</a>
Transport Processes at Fluidic Interfaces (SPP 1506)	2010	<a href="http://www.dfg-spp1506.de">www.dfg-spp1506.de</a>
Algorithmic and Experimental Methods in Algebra, Geometry and Number Theory (SPP 1489)	2010	<a href="http://www.computeralgebra.de">www.computeralgebra.de</a>
Representation Theory (SPP 1388)	2009	<a href="http://www.mi.uni-koeln.de/DFG-Schwerpunkt">www.mi.uni-koeln.de/DFG-Schwerpunkt</a>
Extraction of Quantifiable Information from Complex Systems (SPP 1324)	2008	<a href="http://www.dfg-spp1324.de">www.dfg-spp1324.de</a>



# RESEARCH AT NON-UNIVERSITY RESEARCH INSTITUTIONS

**Fraunhofer Society** is one of the world's leading organisations for applied research with an annual research budget of 1.9 billion euros, 66 institutes and more than 22,000 employees. Fraunhofer's R&D portfolio covers a wide range of fields, including health, security, communications, transport, energy and the environment. [www.fraunhofer.de](http://www.fraunhofer.de)

**The Leibniz Association** is an umbrella organisation of 89 research institutes. The annual budget amounts to 1.4 billion euros. Some 7,700 researchers – more than 1,100 of them from abroad – work on a widely diverse range of subjects, including the humanities and social sciences, economics, spatial and life sciences, mathematics, natural and engineering sciences and environmental research. [www.wgl.de](http://www.wgl.de)

**The Max Planck Society** for the Advancement of Science is one of Germany's largest independent non-profit research organisations. A combined total of more than 10,000 researchers, postdoctoral/junior researchers and visiting researchers at 83 Max Planck Institutes conduct basic research in the natural sciences, life sciences, social sciences and humanities. One third of the researchers and more than half of the junior and visiting researchers come from abroad. [www.mpg.de](http://www.mpg.de)

## RESEARCH AT NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
<b>FRAUNHOFER INSTITUTES</b>		
Kaiserslautern	Fraunhofer Institute for Industrial Mathematics (ITWM)	<a href="http://www.itwm.fraunhofer.de">www.itwm.fraunhofer.de</a>
St. Augustin	Fraunhofer Institute for Algorithms and Scientific Computing (SCAI)	<a href="http://www.scai.fraunhofer.de">www.scai.fraunhofer.de</a>
<b>LEIBNIZ INSTITUTES</b>		
Berlin	Weierstrass Institute for Applied Analysis and Stochastics Leibniz Institute in Forschungsverbund Berlin e. V. (WIAS)	<a href="http://www.wias-berlin.de">www.wias-berlin.de</a>
Oberwolfach	Mathematisches Forschungsinstitut Oberwolfach (MFO)	<a href="http://www.mfo.de">www.mfo.de</a>
<b>MAX PLANCK INSTITUTES</b>		
Bonn	Max Planck Institute for Mathematics (MPI-M)	<a href="http://www.mpim-bonn.mpg.de">www.mpim-bonn.mpg.de</a>
Leipzig	Max Planck Institute for Mathematics in the Sciences (MPI-MIS)	<a href="http://www.mis.mpg.de">www.mis.mpg.de</a>
<b>OTHERS</b>		
Berlin	Konrad-Zuse-Zentrum für Informationstechnik Berlin (Zuse Institute Berlin)	<a href="http://www.zib.de">www.zib.de</a>
Berlin	Matheon - Mathematics for Key Technologies: Modelling, Simulation and Optimization of Real-World Processes	<a href="http://www.matheon.de">www.matheon.de</a>
Network of project consortia spread all over Germany	Federal Ministry of Education and Research (BMBF) Programme "Mathematics for Innovations in Industry and Services"	<a href="http://www.bmbf.de/foerderungen/20306.php">www.bmbf.de/foerderungen/20306.php (DE)</a>

# GRADUATE TRAINING

- FUNDED BY DFG -

**Graduate Schools (GSC)** were established at universities in the framework of the German Excellence Initiative. Their objective is to provide training and qualification for outstanding doctoral students from Germany and abroad within an excellent research environment. They serve as an instrument of quality assurance in promoting early career researchers and offer large networks that cover wide areas of research.

**Research Training Groups (RTG)** combine an ambitious research programme at universities with comprehensive training, tailored supervision and academic freedom to form an ideal environment for a successful doctorate. Research Training Groups can also have an interdisciplinary approach. They are funded for a period of up to nine years.

**International Research Training Groups (IRTG)** provide opportunities for joint doctoral training programmes between German universities and universities abroad. The research and study programmes are jointly developed and supervised. Doctoral students in the programme spend six months at the partner institution.

**Integrated Research Training Groups** (within Clusters of Excellence or Collaborative Research Centres/Transregios) offer ideal research environments for doctoral researchers. The main aim of these structured training programmes is to provide young scientists and academics with opportunities to independently carry out research at an early stage of their career. The programmes further take care to closely integrate early career researchers into an academic network. Working in Clusters of Excellence or Collaborative Research Centres projects, doctoral researchers achieve additional qualifications. As research assistants in these projects, they contribute to the Research Centre's success. They are closely involved with the projects and have access to the entire project infrastructure.

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
<b>GRADUATE SCHOOLS</b>				
■ Berlin	Technische Universität Berlin Freie Universität Berlin Humboldt-Universität zu Berlin	<b>Berlin Mathematical School (GSC 14)</b>	2006	<a href="http://www.math-berlin.de">www.math-berlin.de</a>
■ Heidelberg	Ruprecht-Karls-Universität Heidelberg	<b>Heidelberg Graduate School of Mathematical and Computational Methods for the Sciences (GSC 220)</b>	2007	<a href="http://www.mathcomp.uni-heidelberg.de">www.mathcomp.uni-heidelberg.de</a>
<b>RESEARCH TRAINING GROUPS</b>				
■ Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	<b>Experimental and Constructive Algebra (RTG 1632)</b>	2010	<a href="http://www.math.rwth-aachen.de/~Graduiertenkolleg">www.math.rwth-aachen.de/~Graduiertenkolleg</a>
■ Berlin	Humboldt Universität zu Berlin Technische Universität Berlin	<b>Stochastic Analysis with Applications in Biology, Finance and Physics (RTG 1845)</b>	2012	<a href="http://www.mathematik.hu-berlin.de/rtg1845">www.mathematik.hu-berlin.de/rtg1845</a>
Potsdam	Universität Potsdam			
■ Berlin	Technische Universität Berlin	<b>Methods for Discrete Structures (RTG 1408)</b>	2006	<a href="http://www3.math.tu-berlin.de/MDS">www3.math.tu-berlin.de/MDS</a>
■ Bochum	Ruhr-Universität Bochum	<b>New Challenges for Cryptography in Ubiquitous Computing (RTG 1817)</b>	2012	<a href="http://www.ubicrypt.hgi.rub.de">www.ubicrypt.hgi.rub.de</a>
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Homotopy and Cohomology (RTG 1150)</b>	2005	<a href="http://www.math.uni-bonn.de/people/grk1150">www.math.uni-bonn.de/people/grk1150</a>
Bochum	Ruhr-Universität Bochum			
Düsseldorf	Heinrich-Heine-Universität Düsseldorf			
■ Cologne	Universität zu Köln	<b>Global Structures in Geometry and Analysis (RTG 1269)</b>	2006	<a href="http://www.mi.uni-koeln.de:8086/gk-html">www.mi.uni-koeln.de:8086/gk-html</a>
■ Freiburg	Albert-Ludwigs-Universität Freiburg	<b>Cohomological Methods in Geometry (RTG 1821)</b>	2012	<a href="http://www.gk1821.uni-freiburg.de">www.gk1821.uni-freiburg.de</a>
Göttingen	Georg-August-Universität Göttingen	<b>Mathematical Structures in Modern Quantum Physics (RTG 1493)</b>	2008	<a href="http://www.uni-goettingen.de/de/132772.html">www.uni-goettingen.de/de/132772.html</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
Hamburg	Universität Hamburg	<b>Mathematics Inspired by String Theory and QFT (RTG 1670)</b>	2011	<a href="http://grk1670.math.uni-hamburg.de">http://grk1670.math.uni-hamburg.de</a>
Hannover	Gottfried Wilhelm Leibniz Universität Hannover	<b>Analysis, Geometry and String Theory (RTG 1463)</b>	2008	<a href="http://www.grk1463.uni-hannover.de">www.grk1463.uni-hannover.de</a>
Heidelberg Mannheim	Ruprecht-Karls-Universität Heidelberg	<b>Statistical Modeling of Complex Systems and Processes - Advanced Nonparametric Approaches (RTG 1953)</b>	2013	<a href="http://rtg1953.uni-heidelberg.uni-mannheim.de">http://rtg1953.uni-heidelberg.uni-mannheim.de</a>
	Universität Mannheim			
Kaiserslautern	Technische Universität Kaiserslautern	<b>Stochastic Models for Innovations in the Engineering Sciences (RTG 1932)</b>	2014	<a href="http://www.mathematik.uni-kl.de/dfg-graduiertenkolleg-1932">www.mathematik.uni-kl.de/dfg-graduiertenkolleg-1932</a>
Karlsruhe	Karlsruher Institut für Technologie (KIT)	<b>Analysis, Simulation and Design of Nanotechnological Processes (RTG 1294)</b>	2006	<a href="http://www.mathematik.uni-karlsruhe.de/grk1294">www.mathematik.uni-karlsruhe.de/grk1294</a>
Osnabrück	Universität Osnabrück	<b>Combinatorial Structures in Geometry (RTG 1916)</b>	2013	<a href="http://www.mathematik.uni-osnabueck.de/en/dfg_research_training_group/combinatorial_structures_in_geometry.html">www.mathematik.uni-osnabueck.de/en/dfg_research_training_group/combinatorial_structures_in_geometry.html</a>
Regensburg	Universität Regensburg	<b>Curvature, Cycles, and Cohomology (RTG 1692)</b>	2010	<a href="http://www-app.uni-regensburg.de/Fakultaeten/MAT/GK">www-app.uni-regensburg.de/Fakultaeten/MAT/GK</a>
Tübingen Stuttgart	Eberhard-Karls-Universität Tübingen Universität Stuttgart	<b>Spectral Theory and Dynamics of Quantum Systems (RTG 1838)</b>	2013	<a href="http://www.mathematik.uni-stuttgart.de/grk1838">www.mathematik.uni-stuttgart.de/grk1838</a>
<b>INTERNATIONAL RESEARCH TRAINING GROUPS</b>				
Berlin	Humboldt-Universität zu Berlin  Leiden (Netherlands)  Amsterdam (Netherlands)	<b>Moduli and Automorphic Forms: Arithmetic and Geometric Aspects (IRTG 1800)</b>	2012	<a href="http://www2.mathematik.hu-berlin.de/~grk1800">www2.mathematik.hu-berlin.de/~grk1800</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
Bielefeld Beijing (China)	Universität Bielefeld  Beijing Normal University Institute of Applied Mathematics	<b>Stochastics and Real World Models (IRTG 1132)</b>	2006	<a href="http://igk.math.uni-bielefeld.de">http://igk.math.uni-bielefeld.de</a>
Darmstadt Tokyo (Japan)	Technische Universität Darmstadt  The University of Tokyo Tokyo Institute of Technology Waseda University	<b>Mathematical Fluid Dynamics (IRTG 1529)</b>	2009	<a href="http://www.mathematik.tu-darmstadt.de/~igk">www.mathematik.tu-darmstadt.de/~igk</a>
Munich	Technische Universität München  Universität der Bundeswehr München	<b>Optimization and Numerical Analysis for Partial Differential Equations with Nonsmooth Structures (IRTG 1754)</b>	2012	<a href="http://igdk1754.ma.tum.de/IGDK1754">http://igdk1754.ma.tum.de/IGDK1754</a>
Graz (Austria)	Karl-Franzens-Universität Graz  Technische Universität Graz			
<b>INTEGRATED RESEARCH TRAINING GROUPS IN CLUSTERS OF EXCELLENCE</b>				
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Bonn International Graduate School in Mathematics (BIGS-Mathematics) (EXC 59, HCM)</b>	2006	<a href="http://www.bigs.math.uni-bonn.de">www.bigs.math.uni-bonn.de</a>
<b>INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES</b>				
Berlin	Humboldt-Universität zu Berlin	<b>Integrated Research Training Group "Space - Time - Matter" (CRC 647)</b>	2009	<a href="http://www.raumzeitmaterie.de">www.raumzeitmaterie.de</a>
Berlin	Freie Universität Berlin	<b>Integrated Research Training Group "Scaling Cascades in Complex Systems" (CRC 1114)</b>	2014	<a href="http://www.mi.fu-berlin.de/en/math/groups/fluid-dyn">www.mi.fu-berlin.de/en/math/groups/fluid-dyn</a>
Münster	Westfälische Wilhelms-Universität Münster	<b>Integrated Research Training Group "Groups, Geometry, and Actions" (CRC 878)</b>	2010	<a href="http://www.math.uni-muenster.de/sfb878/research_training_group">www.math.uni-muenster.de/sfb878/research_training_group</a>

## GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES/ TRANSREGIOS				
Berlin	Humboldt-Universität zu Berlin Technische Universität Berlin	<b>Integrated Research Training Group "Mathematical Modelling, Simulation and Optimization Using the Example of Gas Networks"</b> (TRR 154)	2014	<a href="http://www.mso.math.fau.de/edom">www.mso.math.fau.de/edom</a>
Darmstadt	Technische Universität Darmstadt			
Erlangen-Nuremberg	Friedrich-Alexander-Universität Erlangen-Nürnberg			
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn	<b>Integrated Research Training Group "Periods, Moduli Spaces and Arithmetic of Algebraic Varieties"</b> (TRR 45)	2007	<a href="http://www.sfb45.de/graduate-school">www.sfb45.de/graduate-school</a>
Essen	Universität Duisburg-Essen			
Mainz	Johannes Gutenberg-Universität Mainz			



# GRADUATE TRAINING

-AT NON-UNIVERSITY RESEARCH INSTITUTIONS-

**Helmholtz Graduate Schools** provide a roof under which a varied number of curricula in different fields, or across disciplines, can find a home. Helmholtz Graduate Schools constitute a valuable addition to the wide range of training programmes available within the Helmholtz Association. They offer optimal conditions for PhD students to work and enable them to create a network of contacts with fellow university researchers while also fostering the integration of participants into the research environment.

**International Max Planck Research Schools (IMPRS)** offer talented German and international junior scientists the opportunity to earn a doctorate under excellent research conditions. The research schools are established by one or several Max Planck Institutes. These IMPRS work in close cooperation with universities and other – sometimes international – research institutions. This provides an extraordinary framework for the graduate students to work in, and is a great advantage in interdisciplinary research projects, or in projects that require special equipment.

## GRADUATE TRAINING

Location	Institution	Contact
HELMHOLTZ GRADUATE SCHOOLS		
Potsdam	Helmholtz Graduate Research School GeoSim	<a href="http://www.geo-x.net/geosim">www.geo-x.net/ geosim</a>
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
Berlin	IMPRS for Computational Biology and Scientific Computing	<a href="http://www.molgen.mpg.de/IMPRS">www.molgen.mpg.de/ IMPRS</a>
Bonn	IMPRS for Moduli Spaces	<a href="http://www.mpim-bonn.mpg.de">www.mpim-bonn.mpg.de</a>
Leipzig	IMPRS for Mathematics in the Sciences	<a href="http://www.imprs-mis.mpg.de">www.imprs-mis.mpg.de</a>

## SOCIETIES AND ASSOCIATIONS

### IN GERMANY:

Deutsche Mathematiker Vereinigung (DMV):  
<https://dmv.mathematik.de> (in German only)

International Association of Applied Mathematics and Mechanics (GAMM):  
[www.gamm-ev.de](http://www.gamm-ev.de)

## OPEN POSITIONS:

Research in Germany: Provides a list of job portals that specialize in academic and research-related posts. [www.research-in-germany.de/jobs](http://www.research-in-germany.de/jobs)

Helmholtz Association: [www.helmholtz.de/en/jobs\\_talents](http://www.helmholtz.de/en/jobs_talents)

Max Planck Society: [www.mpg.de/jobboard](http://www.mpg.de/jobboard)

Leibniz Society: [www.leibniz-gemeinschaft.de/karriere](http://www.leibniz-gemeinschaft.de/karriere) (in German only)

Fraunhofer Society – Application-oriented research: [www.fraunhofer.de/en/jobs-career](http://www.fraunhofer.de/en/jobs-career)

## GERMAN UNIVERSITIES & RESEARCH INSTITUTIONS

### INDIVIDUAL PROJECTS, PROGRAMMES, PROFILES, CONTACTS



**German Project Information System (GEPRIS):** Online database providing information about all current DFG-funded research projects and contact information for the Principal Investigators. <http://gepris.dfg.de>



**The Research Explorer:** Information on more than 19 000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria. <http://research-explorer.dfg.de>



**Website of the DFG:** Further background information about DFG funding programmes, funding guidelines, and lists of currently DFG-funded activities. [www.dfg.de](http://www.dfg.de)



**The German Rectors' Conference (HRK) Research Map:** Information about 329 main areas that define the interdisciplinary research priorities at 74 German universities. [www.hrk.de/6754.php](http://www.hrk.de/6754.php)



**The Higher Education Compass:** Information on Germany's higher education institutions, the range of courses and programmes that they offer, their worldwide cooperation, and who to contact locally. [www.hochschulkompass.de](http://www.hochschulkompass.de)



 Contact

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