



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Doctorate



IMPRS-Quantum Dynamics

Max Planck Institute for Nuclear Physics • Heidelberg

Overview

Degree	Dr rer nat
Doctoral degree or degree awarded by	Heidelberg University
In cooperation with	Heidelberg University, German Cancer Research Centre (DKFZ), Max Planck Institute for Medical Research (MPIImF), GSI Helmholtz Centre for Heavy Ion Research (GSI)
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English.
Programme duration	6 semesters
Beginning	Only for doctoral programmes: any time
Application deadline	The main application round has a deadline around November. In some years, there is another summer application round with a deadline around May (see website for details).
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	Yes
Joint degree / double degree programme	No
Description/content	Structure and Dynamics of Atoms and Molecules, Experimental Methods in Quantum Science, Quantum Dynamics in Complex Systems, Quantum Optics and Photonics, Advanced Quantum Chemistry, Biological Quantum Dynamics, Advanced Quantum Theory, Quantum Matter and Quantum Engineering

Course Details

Course organisation	Doctoral students in the IMPRS-QD programme pursue research under the supervision of a principal investigator, assisted by a thesis advisory committee. In addition, they are expected to take a
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minimum of courses or attend seminars, journal clubs, workshops and colloquia. Otherwise, the curriculum is made up individually, in consultation with the student's thesis advisory committee.

International elements	<ul style="list-style-type: none">• International guest lecturers• Projects with partners in Germany and abroad
Special promotion / funding of the programme	<ul style="list-style-type: none">• IMPRS
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Approx. 200 EUR
Costs of living	Approx. 1,000 EUR per month
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	PhD positions are paid and sufficient to cover all living expenses.

Requirements / Registration

Academic admission requirements	Applicants should, as a rule, hold a Master of Science or an equivalent degree. Additional programmes are offered for exceptional candidates who have completed a four-year Bachelor's degree programme. Grades obtained for previous degrees must correspond to a B+ or better. In addition, a Master's thesis is expected. An applicant who has not written a Master's thesis may still be accepted if he or she can prove his or her ability to carry out independent research projects.
Language requirements	Very good oral and written English language skills are expected.
Application deadline	The main application round has a deadline around November. In some years, there is another summer application round with a deadline around May (see website for details).

Submit application to <https://www.mpi-hd.mpg.de/imprs-qd>

Services

Possibility of finding part-time employment	The PhD salary is sufficient to cover the cost of living. No additional jobs are necessary.
Accommodation	If desired, accommodation for the first few months will be arranged.
Structured research and supervision	Yes
Research training / discussion	Yes
Career advisory service	Heidelberg University has a Graduate Academy that offers comprehensive support. The Max Planck Society offers further career and soft skill services. https://www.graduateacademy.uni-heidelberg.de/index_en.html
Support for international students and doctoral candidates	<ul style="list-style-type: none">• Specialist counselling• Visa matters

Contact

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IMPRS-QD

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🌐 Course website: <https://www.mpi-hd.mpg.de/imprs-qd>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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GATE-Germany

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www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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