



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Doctorate



IMPRS – Quantum Dynamics and Control (QDC)

Max Planck Institute for the Physics of Complex Systems • Dresden

Overview

Degree	PhD / Dr rer nat
Doctoral degree or degree awarded by	Technische Universität Dresden or by one of the partner institutions
In cooperation with	<ul style="list-style-type: none">• Technische Universität Dresden, Germany• Leibniz Institute for Solid State and Materials Research, Dresden/Germany• Institute of Organic Chemistry and Biochemistry, Prague/CZ• University of Chemistry and Technology, Prague/CZ• Charles University, Prague/CZ• Institute of Low Temperature and Structure Research, Wroclaw/PL• University of Wroclaw, PL• Wroclaw University of Science and Technology, PL
Teaching language	<ul style="list-style-type: none">• English
Languages	100% English
Full-time / part-time	<ul style="list-style-type: none">• full-time
Programme duration	6 semesters
Beginning	Other
Application deadline	<ul style="list-style-type: none">• 30 April (to start in autumn)• 31 October (to start in spring)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

Description/content

The IMPRS for Quantum Dynamics and Control is a graduate school with its headquarters at the Max Planck Institute for the Physics of Complex Systems in Dresden/Germany and eight partner institutions in Dresden/Germany, Prague/Czech Republic, and Wroclaw/Poland. The central theme of the school (reflecting the research interests of many of our partners) is the study of dynamical

manipulation of quantum systems. However, the scope of the graduate school extends to various related topics in chemistry and condensed matter physics as well as atomic, molecular and optical physics.

We are looking for highly talented and motivated students from all around the world to join our affiliated research groups. Multiple PhD positions will be awarded on a competitive basis. Successful candidates will receive support that fully covers their living expenses.

The thesis work is complemented by a comprehensive training programme in English. The PhD degree will be conferred by the Technische Universität Dresden or by one of the partner institutions.

For further information about the graduate school, please visit: <https://www.imprs-pks.mpg.de/>

Course Details

Course organisation	The thesis work, which must be completed in about three years, will be complemented by a comprehensive training programme in English.
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	None
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	Successful candidates will receive support that fully covers their living expenses.

Requirements / Registration

Academic admission requirements	The standard entrance qualification is a Master's degree (or an equivalent university qualification, e.g. German "Diplom") in physics, chemistry, mathematics, or computer science.
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Language requirements	Proof of proficiency in English (TOEFL, IELTS, long-term studies in countries with English as the official language, or similar)
Application deadline	<ul style="list-style-type: none"> • 30 April (to start in autumn) • 31 October (to start in spring)
Submit application to	https://www.imprs-pks.mpg.de/application/application-procedure

Services

Structured research and supervision	Yes
Research training / discussion	Yes
Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Visa matters • Help with finding accommodation
General services and support for international students and doctoral candidates	Administrative support

Contact

Max Planck Institute for the Physics of Complex Systems

International Max Planck Research School – Quantum Dynamics and Control

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🌐 Course website: <https://www.imprs-pks.mpg.de/>

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International Programmes in Germany - Database

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Editor

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