

UNIV.PROF. DIPL.-PHYS. DR.RER.NAT.

# RICHARD A. WILHELM

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Nationality: German











## RESEARCH INTEREST

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- Ion beam physics
- Highly charged ions
- Electron microscopy (LEEM)
- 2D materials
- Ultrafast processes
- Atomic physics
- Plasma physics
- Nuclear Fusion
- Correlated electron emission







## PROFESSIONAL EXPERIENCE

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07/2024 - now	Full Professor Head of the Research Unit of Atomic and Plasma Physics TU Wien, Institute of Applied Physics	
07/2023 - 06/2024	Associate Professor (tenured) Head of the Research Unit of Atomic and Plasma Physics TU Wien, Institute of Applied Physics	
11/2019 - 06/2023	Assistant Professor (tenure track) TU Wien, Institute of Applied Physics	
12/2016 – 11/2020	Research Associate (part time) Helmholtz-Zentrum Dresden-Rossendorf Institute of Ion Beam Physics and Materials Research   Dr. Stefan Facsko	
10/2017 – 10/2019	University Assistant TU Wien Institute of Applied Physics   Prof. Friedrich (Fritz) Aumayr	
04/2016 – 11/2016	Project Assistant (PostDoc) TU Wien Institute of Applied Physics   Prof. Friedrich (Fritz) Aumayr	
12/2014 – 03/2016	PostDoc Helmholtz-Zentrum Dresden-Rossendorf Institute of Ion Beam Physics and Materials Research   Dr. Stefan Facsko	
01/2011 – 12/2014	PhD Student Helmholtz-Zentrum Dresden-Rossendorf Institute of Ion Beam Physics and Materials Research   Dr. Stefan Facsko	
09/2009 – 11/2009	Guest Scientist Stockholm University Atomic Physics Department AlbaNova   Prof. Reinhold Schuch	
07/2006 – 12/2010	Student Assistant Helmholtz-Zentrum Dresden-Rossendorf Institute of Ion Beam Physics and Materials Research   Dr. Stefan Facsko	

## EDUCATION AND QUALIFICATIONS

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2023	Habilitation in Experimental Physics ( <i>venia docendi</i> )	
2011 – 2014	PhD in physics (Dr. rer. nat.) Prof. Jürgen Fassbender	 
12/2010	Diploma in physics (Dipl.-Phys.) Prof. Wolfhard Möller	 
2005 – 2010	Studies of physics at the Technische Universität Dresden	

## MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Österreichische Physikalische Gesellschaft (ÖPG)



Deutsche Physikalische Gesellschaft (DPG)



Chemisch-Physikalische Gesellschaft (CPG)



## EDITORIAL DUTIES AND MEMBERSHIP ADVISORY BOARD

2024 - now Editorial Advisory Board of Nuclear Instruments and Methods in Physics Research Section B (NIM B)



2024 - now International Conference on Highly Charged Ions



2024 - now International Conference on Atomic Collisions in Solids (ICACS)



2023 - now International Workshop on Inelastic Ion Surface Collisions (IISC)



2020 - now International Conference on Elementary Processes in Atomic Systems (CEPAS)



2020 - now Evaluation Committee - Physics Panel - Horizon 2020 Marie Skłodowska-Curie COFUND Action at the Slovak Academy of Sciences - SASPRO 2



## GRANTS (2.3MEUR IN THIRD PARTY FUNDS) AND AWARDS

2024 FWF-DFG Weave Project, 36 months period, acting as PI at TU Wien



2024 FFG Sondierung, 12 months period



2022 FWF doc.funds Doctoral College, 48 months period, acting as participating PI within a faculty of 15 PIs



2022 FWF Standalone Project, 42 months period, acting as Austrian Co-PI together with University Vienna



2022 OeAD WTZ grant Serbia, 24 months period



2021 Gaede-Prize, Deutsche Physikalische Gesellschaft



2020 FWF-ANR International Joint Project, 48 months period, acting as Austrian Co-PI



2020 Max Auwärter Prize, Max Auwärter Foundation, Liechtenstein



2019 OeAD WTZ grant Croatia, 24 months period



2019 FWF START Prize, 72 months period



2019 Research grant, TU Wien - Innovative Project, Funding of Staff, 36 months period



2019 Best Lecture Award, TU Wien, for the contribution to the lecture 'Fundamentals of Physics Ia and Ib'



2018 OMAA/OeAD/AÖU Travel and Scientific Exchange Grant between Austria and Hungary



2018 IBMM Prize, Ion Beam Materials Modification Conference San Antonio, TX, USA for outstanding contributions to the field



2016 Research grant, Deutsche Forschungsgemeinschaft (DFG), 36 months period



2015 Research award of the Helmholtz-Zentrum Dresden-Rossendorf



2014 Travel grant, International Conference on Highly Charged Ions, Bariloche, Argentina



2005 Book award, Deutsche Physikalische Gesellschaft



SCIENTIFIC TALKS

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~30 Invited Talks on international conferences

~15 Invited Talks to Institute's Seminars incl. 2 faculty-wide Colloquia

more than 30 talks and poster presentations on international workshops and conferences

CONFERENCE AND EVENT ORGANIZATION

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2025 25<sup>th</sup> International Workshop on Inelastic Ion-Surface Collisions IISC, Frankenfels, Austria - Chair



2023 Focus Session on Ion Beam Interaction with Surfaces and 2D Materials (part of DPG spring meeting 2023), Dresden, Germany - Chair



2023 2<sup>nd</sup> EPIC-MAN (satellite meeting to ICPEAC), Ottawa, Canada - Chair



2017 1<sup>st</sup> International Summer School on Inelastic Ion-Surface Collisions IISC, Dresden, Germany - Chair



2017 22<sup>nd</sup> International Workshop on Inelastic Ion-Surface Collisions IISC, Dresden, Germany - Local organizing committee

