Curriculum Vitae – Christian R. Ast

Academic Title:	Priv.-Doz. Dr. habil.
Date of birth:	March 5, 1976
Address:	Max-Planck-Institut für Festkörperforschung (MPI-FKF) Heisenbergstraße 1 70569 Stuttgart
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Current Position: Group Leader (W2)

Professional Experience:

2013 – today	Senior Scientist (W2 with tenure since 09/2016) and Group Leader in the Department of Prof. Kern at the MPI-FKF in Stuttgart, Germany
2008 – 2012	Emmy-Noether Research Group Leader at the MPI-FKF in Stuttgart, Germany
2007	PostDoc in the Department of Prof. Kern at the MPI-FKF in Stuttgart, Germany
2005 – 2006	Emmy-Noether-Scholarship (Phase I) at the Ecole Polytechnique Fédérale de Lausanne, Switzerland and at the MPI-FKF in Stuttgart, Germany
2004	Collaborateur Scientifique in the group of Prof. Grioni at the Ecole Polytechnique Fédérale de Lausanne, Switzerland
2003	Visiting Scientist at the MPI-FKF in Stuttgart, Germany

Education and Training:

2018	Habilitation in Physics at the University of Stuttgart, Germany; (Mentor: Prof. J. Wrachtrup)
2003	Ph.D. in Physics at the University of Wisconsin-Madison, USA; (Advisors: Prof. D. L. Huber/Dr. H. Höchst)
1998	Vordiplom in Physics at the Universität Hamburg, Germany;

Honors and Awards:

2015	ERC Consolidator Grant 2015
2007	Emmy-Noether-Research Group
2004	Emmy-Noether-Scholarship (Phase I)
2003	Aladdin Lamp Award of the Synchrotron Radiation Center in Stoughton, Wisconsin, USA (best PhD thesis)

Committees/Positions:

2022 – today	Executive Board Member of the Institute of Integrated Quantum Science and Technology (IQ^{ST}) Stuttgart-Ulm
2021 – today	Fellow of the Institute of Integrated Quantum Science and Technology (IQ^{ST}) Stuttgart-Ulm
2018 – today	Section Representative of the Scientific Staff at the MPI-FKF
2011	Representative of the Scientific Staff at the MPI-FKF
2010	Vice-Representative of the Scientific Staff at the MPI-FKF
2003 – 2004	Student Member of the User Advisory Committee of the Synchrotron Radiation Center

Research Interests:

Fundamental Phenomena	quantum limits, magnetism and superconductivity, Josephson effect, quantum electrodynamics, dynamical Coulomb blockade
Low-Dimensional Systems	Dirac materials, topological insulators, graphene
Electronic Structure	spin-orbit coupling, correlation effects (interactions), disorder
Experimental Methods	scanning tunneling microscopy/spectroscopy at lowest temperatures (10 mK), electron spin resonance spectroscopy in combination with scanning tunneling microscopy, angle-resolved and x-ray photoemission spectroscopy