

The **Würzburg-Dresden Cluster of Excellence "Complexity and Topology in Quantum Matter – ct.qmat"** together with its **extramural research partners** invites applications for

Research Associates
within
the Hallwachs-Röntgen Postdoc Program

Several positions are to be filled **as soon as possible** and are limited to **three years** (2+1) according to the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). Subject to personal qualification, according to salary group E 13 TV-L.

The *Hallwachs-Röntgen PostDoc Program* is a flagship element of *ct.qmat*, combining two of the internationally most renowned research centers for topological condensed matter physics – *Julius-Maximilians-Universität Würzburg* and *Technische Universität Dresden*, together with their research partners Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Leibniz Institute for Solid State and Materials Research (IFW), Max Planck Institute for the Physics of Complex Systems (MPI-PKS), Max Planck Institute for Chemical Physics of Solids (MPI-CPFS).

Tasks: The *Hallwachs-Röntgen PostDoc Program* is addressed at postdoctoral academics who have recently been awarded the doctoral degree and who perform outstanding research in the area of topological quantum physics, either experimental or theoretical (e. g. topological and correlation phenomena in quantum matter, in a variety of different condensed matter platforms, from electronic to magnetic to photonic systems etc.), and are looking for a thriving research environment that allows the realization of innovative ideas.

Ideally, HR postdocs work on topics that involve collaboration with *ct.qmat* host groups at both locations, thereby forming an active link between the research activities in Würzburg and Dresden. This may include spending substantial amount of time at either place. In return, HR postdocs directly benefit from interaction with both complementary research environments while enjoying a status of an independent researcher with an opportunity to run their own research group and/or laboratory. Applicants are encouraged to present their own scientific ideas fitting to this concept and to identify suitable host groups.

Requirements: Doctoral degree in physics (or a closely related discipline), in-depth research experience in topological physics, quantum materials, and/or correlated-electron physics; previous experience in successful third-party funding acquisition, in supervising students during their thesis work as well as teaching experience; international visibility and high research output documented by publications, conference contributions, and by broad cooperation activities; an excellent command of English (knowledge of the German language is not a prerequisite), ability to work independently and in a team.

Applications from female scientists are particularly welcome. The same applies to people with disabilities.

Please send your application documents

- Cover letter or motivation letter (including a research statement identifying at which working group associated with the cluster you would like to work mainly AND which working group at the respective other location could be considered as a cooperation partner).
- CV (including publication list & grants)
- three letters of recommendation

preferably as a single pdf document to jobs.ct.qmat@listserv.dfn.de (Please note: We are currently not able to receive electronically signed and encrypted data) or alternatively by regular mail to **TU Dresden, Fakultät Mathematik und Naturwissenschaften, Institut für Theoretische Physik, Herrn Prof. Dr. Matthias Vojta, 01062 Dresden** or to **Universität Würzburg, Physikalisches Institut, Herrn Prof. Dr. Ralph Claessen, 97074 Würzburg**. Applications are considered at any time.

About ct.qmat

The Cluster of Excellence "Complexity and Topology in Quantum Matter – ct.qmat" is a joint project of Technische Universität Dresden and Julius-Maximilians-Universität Würzburg and has been funded by the Excellence Strategy of the German federal and state governments since January 1, 2019. ct.qmat brings together 200 researchers from both universities and 5 other research institutes in the fields of physics, materials research and chemistry. The objectives of the basic research of ct.qmat are the understanding, design and control of solid-state topological systems: www.ctqmat.de.

