



The Department of Physics at TU Dortmund University offers the following position (starting at the earliest opportunity):

## Professorship (W3) Quantum Materials (Experimental Physics)

### Our profile

Comprising 17 departments in the natural and engineering sciences as well as the humanities and social sciences, TU Dortmund University is a dynamic university with a strong profile in research, teaching, promotion of young scientists and transfer.

The Department of Physics combines excellent research in the focus areas of condensed matter physics, particle physics and medical physics with a modern and future-oriented teaching concept. It maintains national and international networks in both research and teaching and is successful in attracting third-party funding.

### Profile of the professorship

You represent the field of experimental condensed-matter physics with a focus on the growth, preparation and investigation of quantum materials with non-trivial magnetic and optical properties (for example: magnetic topological matter, two-dimensional materials with non-trivial spin properties, quantum magnetic systems) and further develop this field at a top international level. In doing so, you will participate in research networks and coordinated research programs within and outside TU Dortmund University and are committed to promoting early career researchers.

The research in the Department of Physics at TU Dortmund University has a strong focus on the development of advanced spectroscopic and theoretical methods for the study of linear and nonlinear, equilibrium and nonequilibrium dynamics in condensed matter. The appointment is also intended to strengthen these activities by the design and preparation of novel quantum materials with non-trivial magnetic and optical properties. Great potential can be leveraged through combination with the spectroscopic methods available in the department. In addition, it is possible to get involved in the “Research Center Future Energy Materials and Systems”, that was recently established by the University Alliance Ruhr (see: [www.uaruhr.de/researchallianceruhr/futureenergymaterialsandsystems.html.en](http://www.uaruhr.de/researchallianceruhr/futureenergymaterialsandsystems.html.en)).

In teaching, you are responsible for the subject of experimental physics and participate appropriately in the regular teaching activities of the department.

### Your qualifications

You have obtained a doctorate with above-average success and acquired a post-doctoral lecture qualification (Habilitation) or an equivalent qualification. You have demonstrated your research excellence in the field covered by the professorship through continuous national and international publications in internationally recognized journals, including those with peer-review, especially in the last years. Furthermore you have been successful in obtaining competitively awarded third-party funding. Additionally, you have the potential for excellent teaching and are willing to teach on the Bachelor level in German in the medium term. Social and leadership skills and the willingness to participate in academic self-governance will complete your profile. Moreover, the recruitment requirements in Sections 36 and 37 of the North Rhine-Westphalia Higher Education Act (*Gesetz über die Hochschulen des Landes Nordrhein-Westfalen, HG*) apply.

### Attractive environment

We offer an excellent academic environment and attractive cooperation opportunities with renowned international, national, and regional partners. The metropolitan Ruhr Area with the University Alliance Ruhr (UA Ruhr) guarantees short distances to a diversity of partners from science and industry. With our Dual Career Service, we accompany your partner in the professional orientation in the region if desired. We will be happy to provide information about housing and living in Dortmund and help you find childcare options. If you are coming to us from abroad, our Welcome Service will support you upon your arrival in Germany.

### Diversity welcome

A central goal of TU Dortmund University is to promote diversity and equal opportunities. We strive to significantly increase the percentage of women in research and teaching and therefore welcome applications from female academics. We support the compatibility of family and career and promote gender equality in academia and research. Related career breaks will be taken in consideration. We give preference to severely disabled applicants if their qualifications meet the requirements.

### Your application

If you are interested in the position, please send your application via e-mail by **31.03.2023** to: [dekanat.physik@lists.tu-dortmund.de](mailto:dekanat.physik@lists.tu-dortmund.de)

Details on the application process and the preparation of application documents can be found here:

[berufung.tu-dortmund.de/en/application](http://berufung.tu-dortmund.de/en/application)

Questions will be answered by the Dean of the Department of Physics, University Professor Dr. Kevin Kröninger, Tel: +49 231 755 - 3539 or [dekanat.physik@lists.tu-dortmund.de](mailto:dekanat.physik@lists.tu-dortmund.de)

Further information about the Department of Physics can be found at [physik.tu-dortmund.de/en/](http://physik.tu-dortmund.de/en/)