



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

## Professorship (W1) Theoretical Solid-State 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 theoretical solid-state physics focusing on the research area of “non-equilibrium dynamics in correlated solids and numerical simulations” and develop it further with international visibility. Possible areas of work are, for example, the application of state-of-the-art numerical methods and modern quantum simulations to many-body quantum systems in non-equilibrium and method development for quantum computers. In doing so, you participate in research networks and cooperations within and outside TU Dortmund University. Great potential arises here from the collaboration with experimental groups in the field of non-equilibrium dynamics studies using time-resolved spectroscopic techniques. You are committed to promote early career researchers and participate appropriately in the teaching activities of the department.

The appointment is initially for a period of three years as a temporary civil servant. In the course of the third year, this status will be reviewed and may be extended for a further three years depending on performance. The teaching load is four hours per week in each of the first three years. In the case of a positive review, it will increase to five hours per week in each of the last three years.

### Your qualifications

You have obtained a doctorate with above-average success and already demonstrate initial experience in the dissemination of your research in the field of the professorship through international publications in recognized peer-reviewed journals. Furthermore, international research contacts and the willingness to acquire third-party funds are expected. In addition, you are willing to offer special lectures on quantum information and the quantum theory of nonequilibrium physics or comparable for Master's degree programs. Social and leadership skills and the willingness to participate in academic self-administration complete your profile. Moreover, the recruitment requirements in Section 36 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 support your partner in finding professional opportunities 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 give preference to severely disabled applicants if their qualifications meet the requirements. We support the compatibility of family and career and promote gender equality in academia and research.

### Your application

If you are interested in the position, please send your application via e-mail by 16.11.2022 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: <https://berufung.tu-dortmund.de/en/application>

Questions will be answered by the Dean of the Department of Physics, **University Professor Dr. Kevin Kröninger**,  
Tel: +49 231 755-3544 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 <https://physik.tu-dortmund.de/en/>