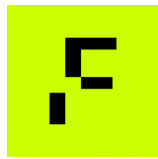


Freie Universität Berlin - Department of Physics



Who We Are [We](<https://www.physik.fu-berlin.de/en/einrichtungen/ag/ag-kampfrath/index.html>) study ultrafast phenomena in quantum materials. A strong focus lies on the angular momentum of electrons (spin+orbit) and of the crystal lattice, as well as on the ultrafast control of magnetic order. The associated processes often coincide with the femtosecond time scale and, thus, terahertz frequency scale. To study such extremely fast dynamics, we develop novel tools, such as ultrafast ampere-meters, ohm-meters and strong terahertz voltage sources. They greatly rely on femtosecond optical pulses in the visible, infrared and terahertz spectral range. To better understand our experimental results, we work out simple theoretical models. Our fundamental scientific insights are relevant for applications in information technology where bit rates are approaching the terahertz range. We also explore our results directly for applications in terahertz photonics, including the development of novel emitters, detectors and modulators of broadband terahertz radiation. [Homepage of the group "Terahertz Physics in Quantum Materials"](<https://www.physik.fu-berlin.de/en/einrichtungen/ag/ag-kampfrath/index.html>)

Research assistant (praedoc) (f/m/d) (DM-PHY-918)

Department: Department of Physics contract duration: limited bis 31.12.2029 Salary / pay grade: E 13 TV-L FU Working hours: 75 % Requisition ID: 918 Application deadline: 12.10.2026

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet bis 31.12.2029; Remuneration: Entgeltgruppe 13 TV-L FU; Reference number: DM-PHY-918; Closing date: 12/10/26

Tasks

What You Can Expect in Your New Role

You will work on a project on the ultrafast control of antiferromagnetic order in novel materials and nanostructures. In this context, you will deal with cutting-edge optical setups, femtosecond laser systems, analysis tools and modeling. The position offers the opportunity to pursue a PhD.

Requirements

Key Requirements

Completed university studies with a Master degree preferentially in physics.

Desirable

- Experience in at least two of the following areas: magnetism/spintronics, femtosecond laser spectroscopy, nonlinear terahertz spectroscopy, nonlinear magneto-optics
- Team spirit, endurance and enthusiasm for new ideas and topics

- Good German (B2) and English (C1) language skills
- Master in Physics with very good grades
- Knowledge on/experience in magnetism/spintronics, femtosecond laser spectroscopy, nonlinear terahertz spectroscopy, nonlinear magneto-optics

What we offer

Benefits and Other Advantages

- Modern workplace in the leafy suburb of Dahlem
- Job security
- Salary in line with the collective agreement for the civil service at the state level (TV-L FU), plus additional one-off annual payment
- Flexible working hours and mobile working by arrangement, where possible
- The compatibility of work and family life
- Thirty days of vacation (based on a five-day working week)
- Office closed on December 24 and December 31
- Numerous training and continuing education options for professional and personal development
- Opportunity to participate in University Sports Center courses and the health promotion program
- Free parking close to the office and good public transportation connections
- Discounted "Job Ticket" for public transportation
- Free use of the Freie Universität library system
- Employee discount in the cafeteria
- Exclusive deals for products and services through Corporate Benefits

Application

If you are interested in what we have to offer,

then you can send your application materials to us directly. Simply submit your application exclusively via our career portal by clicking the "Apply now" button. Unfortunately, we cannot consider applications by post or by e-mail.

You can also get in touch with Mr. Prof. Dr. Tobias Kampfrath (b.selke@fu-berlin.de).

More information at <https://stellenticket.de/207558/BUA/>
Offer visible until 12/10/26

