Freie Universität Berlin - Fachbereich Physik - Institut für Theoretische Physik Theoretical Condensed Matter Physics, AG Breitkreiz

The PhD position is located in the Emmy-Noether group "Microscale and Nanoscale Physics of Topological Metals" led by Maxim Breitkreiz. The group is part of the Dahlem Center for Complex Quantum Systems, which research focus is quantum-theoretical condensed matter physics in its fullest range. Furthermore, the Emmy-Noether group is involved in the transregional Collaborative Research Center CRC 183 "Entangled States of Matter" and the Center for Chiral Electronics. This embedding of the PhD position offers an excellent research environment with particularly diverse opportunities for a creative research practice with international collaborations, research residencies, soft-skill workshops, participation and active organization of conferences and summer schools.

Research assistant (praedoc) (m/f/d)

with 75%part-time job limited to 4 years salary grade (Entgeltgruppe) 13 TV-L FU
reference code: Breitkreiz-CCE-2026

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet auf 4 Jahre; Remuneration: Entgeltgruppe 13 TV-L FU; Reference number: Breitkreiz-CCE-2026; Closing date: 30/03/26

Tasks

Within this PhD project you will conduct fundamental research within the field of theoretical condensed matter physics. Of particular interest is the exploration of chirality induced spin selectivity. Methodologically the tasks can be tackled using analytical, semi-analytical, or numerical methods.

Requirements

Requirements:
University degree (M.Sc. level), preferably in theoretical physics

Desirable:

- Fluency in English (full professional level)
- Ability to penetrate into complex research fields
- Willingness to collaborate with internal and external research groups in experimental and theoretical
  physics
- very good university degree in theoretical physics
- excellent knowledge of theoretical condensed matter physics
- Experience with Latex, Wolfram Mathematica, Python

For further information, please contact Dr. Maxim Breitkreiz (breitkr@physik.fu-berlin.de / 03083853038).

Application

Application documents should include: cover letter, cv, at least one recommendation letter, relevant
university certificates with overviews over attended courses and grades. Please send the application,
indicating the **reference code, no later than March 30th 2026** as a single PDF document via email to Henrike Giebl: henrike.giebl@fu-berlin.de.

Freie Universität Berlin
Fachbereich Physik
Institut für Theoretische Physik
Theoretical Condensed Matter Physics, AG Breitkreiz
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Arnimallee 14
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With an electronic application, you acknowledge that FU Berlin saves and processes your data. FU Berlin cannot guarantee the security of your personal data if you send your application over an unencrypted connection.

Freie Universität Berlin is an equal opportunity employer.

More information at https://stellenticket.de/202643/BUA/
Offer visible until 30/03/26