

PhD Position in Analysis / Mathematical Physics

TU Braunschweig

I am looking to fill a position as a **Research Assistant (m/f/d)** to join my research group at TU Braunschweig, funded by the German Research Foundation (DFG). The project lies at the interface of spectral theory, scattering theory, harmonic analysis, and partial differential equations, with a focus on Schrödinger operators with scaling-critical potentials as they arise, e.g., in relativistic atomic physics. The applicant is given the opportunity to carry out independent research, in particular to work on a PhD thesis.

Position details

- Duration: three years.
- Expected starting date: April 1, 2027.
- Salary: 75% position according to the German public-sector pay scale TV-L E13.
- No teaching duties are planned.
- Funding is available for international research visits and conference participation.
- Knowledge of German is not required.

Candidate profile

Applicants should hold, or expect to obtain by the starting date, a Master's degree (or equivalent) in mathematics with very good academic results. A strong background in mathematical analysis is expected, for example in one or more of functional analysis, spectral theory, partial differential equations, or harmonic analysis. Previous experience with fractional Laplacians, Hardy inequalities, or related topics is an advantage, but is not required.

Expressions of interest

Interested candidates are welcome to contact me at k.merz@tu-bs.de. Please include a CV, academic transcripts, and a short description of your mathematical background and research interests. Contact details of an academic referee may also be included.

This is a preliminary announcement. A formal job advertisement and the corresponding application procedure will follow soon.

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