Job advertisement
The Technical University of Braunschweig
is looking for the
Institute of Mathematical Physics
for the next possible date
a PhD student in theoretical atomic physics
(part-time 75 %, limited for two years)

The position will be assigned to the Institute of Mathematical Physics at Technische Universität Braunschweig in collaboration with the working group “Fundamental physics for metrology” at Physikalisch-Technische Bundesanstalt. It will be funded by the DFG under the project Exzellenzcluster 2123 “QuantumFrontiers - Light and Matter at the Quantum Frontier”.

Job description:
1. Theoretical studies of the interaction of twisted (vortex) light with spinor Bose Einstein condensates (BECs).
2. Development of large-scale computer codes for the evaluation of BEC dynamics induced by twisted light.
3. Publication of results in peer-review journals and at international conferences.

Job qualifications: The main criterion is excellence and dedication combined with good communication skills and ability for independent research. It is required that the candidate has successfully completed university studies in physics (Master degree) in the field of physics or a comparable field of study. In addition, experience in one or more of the following fields is expected: (1) theoretical atomic physics, (2) theory of light-matter interaction and/or quantum electrodynamics, (3) computational methods. We expect good proficiency in English as well as excellent scientific writing skills. We look for an individual with international exposure with an open mind living up to the requirements of a research environment with high diversity. We expect commitment and self-motivation.

Our offer:
An excellent cutting-edge research environment, aiming at enabling excellent scientific careers. Remuneration will be in line with the current German collective pay agreement up to TV-L E13, depending on the assignment of tasks and fulfillment of personal requirements. The employment will initially be limited to two years with possible extension.

Severely disabled persons are given preference in the case of equal suitability. Proof must be enclosed. Applications from people of all nationalities are welcome. The TU Braunschweig strives to reduce underrepresentation in all areas and positions within the meaning of the NGG. Therefore, applications from women are particularly welcome.

Application costs cannot be reimbursed. Please understand that applications that are not considered can only be returned against a self-addressed and sufficiently stamped envelope.

Personal data will be saved for performing the application procedure.

How to apply and contact:
Please send a complete written application (in English) consisting of a cover letter, full CV, academic certificates and transcripts (Bachelor, Master), and other supporting certificates by e-mail subject to: Prof. Dr. Andrey Surzhykov (E-mail: a.surzhykov@tu-braunschweig.de).

Closing date for applications: 21 June 2021.