



Leibniz
Universität
Hannover



The Institute of Theoretical Physics in the Faculty of Mathematics and Physics is recruiting within the Center of Excellence "QuantumFrontiers" in a joint appointment with the Physikalisch-Technische Bundesanstalt (PTB) in Braunschweig and Leibniz Universität Hannover (LUH) for a

Junior Professorship (m/f/d) in Theoretical High Energy Physics with Cold Atoms

commencing January 1st, 2020.

The theoretical junior professorship will interpret questions and models of particle physics and cosmology in the context of precision measurements in atomic and molecular physics and pursue new approaches to modelling at the boundaries of these theories. This will be done in close cooperation with the various precision experiments, such as the optical clocks and matter wave interferometers already available at the LUH and PTB. Examples include the development of search strategies for previously unknown fields such as dark matter or dark energy, as well as the search for other physics beyond the standard model of particle physics using cold and well-controllable atoms and molecules.

Profound research experience in at least one of these subject areas should be demonstrated by the candidate. Relevant postdoctoral experience and successful third-party fundraising (e.g. DFG or EU funding) are desirable as well as very good German and English language skills. The position is equipped with at least one doctoral position (75% TVöD E13) and the necessary basic equipment and travel funds.

It is expected that the junior professor will participate in teaching at the Institute for Theoretical Physics as well as in the existing third-party funded projects, e.g. the current excellence cluster "QuantumFrontiers" between LUH, TU Braunschweig and PTB (RUs B2 and B6) [1] and the Collaborative Research Centre SFB 1227 "DQ-mat" (Research Area B) [2]. A close collaboration with experimental and theoretical research groups of the PTB and the LUH is assumed.

The position is limited to three years (with the possibility of an extension for a further three years). The successful applicant will be appointed to LUH as a junior professor but will be formally employed at the PTB succeeding an administrative leave from LUH. Salary at the PTB will be in accordance with the remuneration group E14 TVöD Bund.

The junior professorship includes an obligation to teach at least 2 hours of courses per week at the LUH.

General responsibilities and conditions of appointment apply, in accordance with the Lower Saxony Higher Education Act (Niedersächsisches Hochschulgesetz - NHG) and the collective agreement for civil service employees. Details will be provided upon request.

Part-time employment can be arranged on request.

As an equal opportunities employer, Leibniz University Hannover has set itself the strategic aim of significantly increasing the proportion of women. Female scientists are therefore particularly encouraged to apply. Applications from abroad are especially welcome. Preference will be given to equally qualified candidates with disabilities.



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Further information is available from Professor Dr. Piet O. Schmidt, Institute for Quantum Optics, Welfengarten 1, 30167 Hannover (Phone: +49 511 762-17240, Email: Piet.Schmidt@quantummetrology.de).

Please submit your full application by August 25th, 2019 to the online job portal: <https://berufungen.uni-hannover.de/hep>

or via post to:

Gottfried Wilhelm Leibniz Universität Hannover

Dekan der QUEST Leibniz Forschungsschule

Prof. Dr. Wolfgang Ertmer

Welfengarten 1

30167 Hannover

<http://www.uni-hannover.de/jobs>

Information on the collection of personal data according to article 13 GDPR can be found at <https://www.uni-hannover.de/en/datenschutzhinweis-bewerbungen/>.

We may not accept any applications submitted via email.

[1] <https://www.quantumfrontiers.uni-hannover.de/en/research/applications/>

[2] <https://www.dq-mat.uni-hannover.de/en/research/research-area-b/>