



Postdoctoral position (m/f/d) on the Theory of ultracold quantum gases (Salary Scale 13 TV-L, 100 %)

The research group on Ultracold Quantum Gases at the Institute of Theoretical Physics of the Leibniz University of Hannover (Prof. Luis Santos) invites applications for a postdoctoral position on the theory of ultra-cold quantum gases. The position is initially for two years, with the possibility of prolonging it for an additional year. We would like to cover the position as soon as possible, however the time of joining is negotiable.

Ultracold quantum gases constitute a fascinating research field at the interface between quantum optics, atomic physics, and condensed-matter physics. Our theory group works in a variety of topics in this vibrant area. Possible topics of research include among others the physics of dipolar Bose-Einstein condensates and supersolids, dipolar mixtures, and the non-equilibrium dynamics of many-body quantum systems in optical lattices. For more information about our current and recent research interests, please visit our webpage: <https://www.itp.uni-hannover.de/en/groups/santos/>

We are part of a vibrant environment, including collaborations with experiments on ultracold atoms, molecules and trapped ions. The team works in an excellent national and international network and participates in large collaborative projects, including the Excellence Cluster “QuantumFrontiers” (<https://www.quantumfrontiers.de/en/>) and the Quantum Valley Lower Saxony (<https://www.qvls-q1.de/en/>).

Employment conditions

- PhD on theoretical AMO physics or condensed-matter physics (ideally on ultra-cold atoms)
- Experience on numerical simulations and good programming skills.
- High level of personal motivation, responsibility, and independence.
- Pronounced communication and team building capabilities
- Very good knowledge of the English language (written and spoken)

For further information about the position and the research topics, please contact Prof. Luis Santos (phone: +49 (0)511 7625890, e-mail: santos@itp.uni-hannover.de).

Equal Employment Opportunity Statement As an equal opportunities employer, Leibniz University Hannover intends to promote women and men. For this reason, suitably qualified women are specifically invited to apply. Preference will be given to equally qualified applicants with disabilities.

Application Please send your application with the usual documents (CV, academic certificates and credentials, a letter of motivation) before **December 31, 2021** to gina.gerlach@itp.uni-hannover.de. Two recommendation letters should be sent directly to that address.