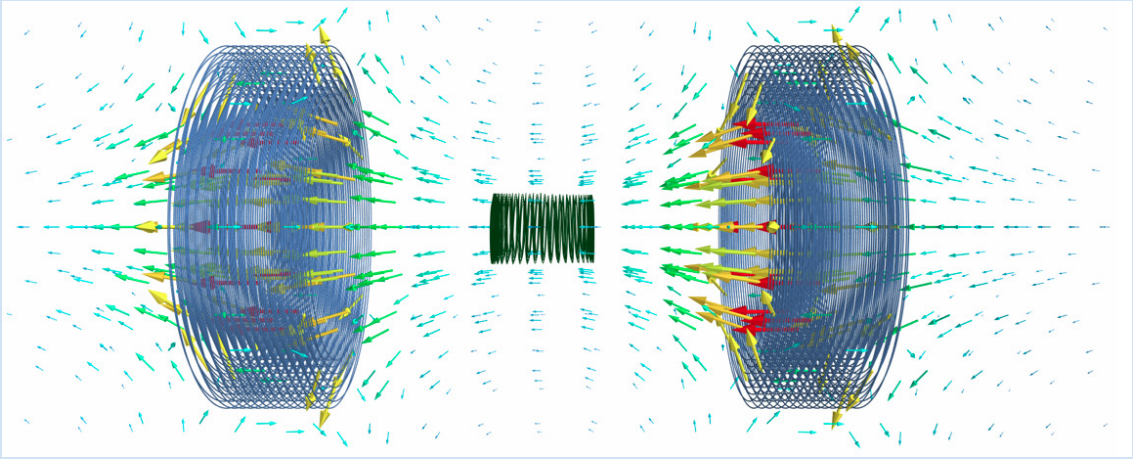
TECHNISCHE UNIVERSITÄT WIEN

PhD position in quantum/gravity/neutron physics

(fixed-term, f/m/d), Application deadline: 20.06.2022



The research unit Neutron and Quantum Physics at the **Atominstitut** at the TU Wien is offering a PhD position linked to neutron beta-decay, electron spectroscopy and cyclotron radiation measurements, which connects different areas of physics such as neutrino physics, neutron physics and tests of the standard model of particle physics.

Tasks:

- Measurement of relativistic cyclotron radiation and single electron detection via cyclotron emission
- Cooperation and guidance of bachelor and master students
- Writing a dissertation and publications
- Participation in scientific events

Qualifications Required:

- Master or Diploma degree physics or equivalent university studies in Austria or abroad
- Scientific interest in (low-energy) particle physics
- Experience in RF-techniques is preferable
- Skills in programming (e.g., C++, Python, LabVIEW, or similar)
- Good communication skills and ability to work as an independent and flexible researcher in an international and diverse team

Institution: TU WIEN is the largest institution for higher education and research focused on science and technology in Austria and has 4.800 employees and 29.000 students. The neutron group at the Atominstitut in Vienna operates the qBounce experiment at the ILL Grenoble, the strongest neutron source in the world where 1400 scientists from 40 countries run 640 experiments every year.
Position: For this position, a minimum gross salary of 32.115 €/year (30 hours/week) is offered, incl. full health and social insurance. Full compensation for travel costs is guaranteed. Additionally please see Fringe Benefits Catalogue TU Wien. Continuing personal and professional education and flexible working hours
Application procedure: For further information contact Prof. Hartmut Abele (abele@ati.ac.at). Applicants are invited to apply at www.dkpi.at with addendum "Abele" as well. For this application, preference will be given to female applicants at equal qualification.