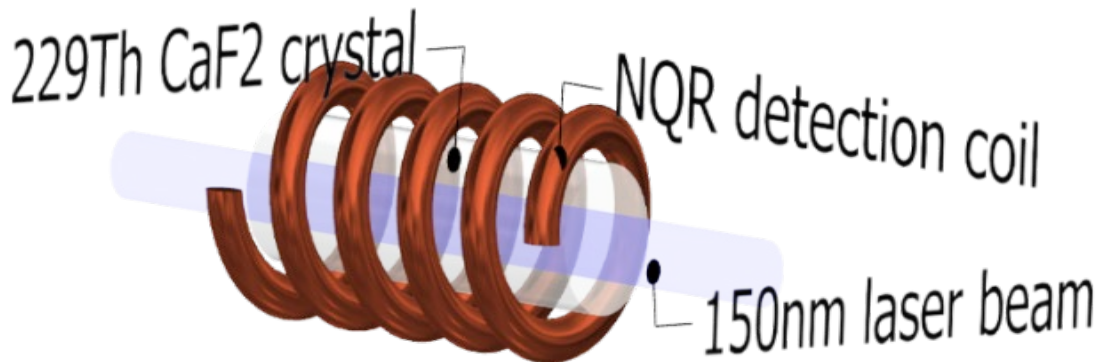


Ph.D. position available

in solid-state ^{229}Th nuclear clock development



- From September 2020, Ph.D. and PostDoc positions in both theory and experiment are available at the **Quantum metrology group at Atominstitut, TU Wien** and **IMT, TU Graz**. The team is working towards a new type of atomic clock that uses the nucleus of ^{229}Th as a frequency standard. The solid-state approach promises a more robust and compact implementation of precision measurements.
- The successful candidate will join the team working on the development of the readout scheme for the nuclear clock.
- This multidisciplinary project involves radio-frequency spectroscopy of the ^{229}Th nucleus, DFT calculations, and studies of interactions between the crystal lattice and ^{229}Th nucleus.
- We are looking for candidates interested in either nuclear spectroscopy, quantum chemistry or solid-state physics. Please contact: thorsten.schumm@tuwien.ac.at (TU Wien)
hermann.scharfetter@tugraz.at (TU Graz)

