



WE ARE RECRUITING!



PhD position Zinc optical clock

in the [Quantum Metrology research group](#) at the University of Bonn.

A multitude of elements are used for optical clocks these days, each of them with their own specific advantages and disadvantages. The element Zinc, which has not yet been explored in the context of laser cooling or atomic clocks, has some very appealing properties: very broad cooling transitions for fast and efficient trapping, very narrow cooling transitions for efficient cooling to low temperatures, combined with a very low BBR-sensitivity. Additionally, laser light for all of the relevant transitions can be derived from high harmonics of telecom lasers, which eases operation. Together, we will develop the world's first optical clock based on this promising element.

We offer

- a PhD position fully embedded into the Cluster of Excellence ML4Q,
- in-depth training and research in the environment of a University of Excellence,
- visits to summer schools and international conferences,
- research stays at international collaboration partners,
- the vibrant atmosphere of a very young research group,
- exposure to the growing quantum industry.

Candidates are expected to have a background in the field of cold atoms, optical clocks, precision measurements, or a related subject.

Challenge accepted?

Then send your application to Prof. Simon Stellmer at stellmer@uni-bonn.de.

