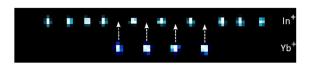
# Research Group QUEST FG2 "Quantum Clocks and Complex Systems"

Under the direction of Prof. Dr. Tanja E. Mehlstäubler

## **Working Groups**

#### **Indium Multi-ion Clock**



Atomic clock based on mixed In\*-Yb\* Coulomb crystals

Contact: Dr. Jonas Keller

E-Mail: jonas.keller@ptb.de

#### **Tests of Fundamental Physics**

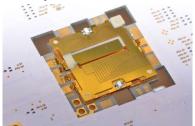


Tests of general relativity and search for dark matter with Yb<sup>+</sup> ions

Contact Person: Jialiang Yu

Email: jialiang.yu@ptb.de

## Ion trap development



Development of innovative ion traps for quantum computers and quantum sensors with integrated nanophotonic

Contact: Dr. Elena Jordan

E-Mail: elena.jordan@ptb.de

### QTZ User Platform "Ion Traps"



Benchmarking of ion traps and technology transfer to German industry

Contact: Dr. André Kulosa

Email: andre.kulosa@ptb.de

Have we aroused your interest in one or more of our research projects? Then feel free to contact us!

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- Student research projects
- HiWi Projects

HiWi projects can be, for example:

- Programming tasks, e.g. with regard to automated measurement processes
- Robustification of optical setups
- Participation in cooperation projects with German industrial partners in quantum technology
- ....

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