

# Magnesium



## Group Members

| Name                         | Email                                                                        | Birthday |
|------------------------------|------------------------------------------------------------------------------|----------|
| Dr. Dominika Fim             | <a href="mailto:fim@iqo.uni-hannover.de">fim@iqo.uni-hannover.de</a>         | 26.10    |
| Ernst M. Rasel               | <a href="mailto:rasel@iqo.uni-hannover.de">rasel@iqo.uni-hannover.de</a>     | 02.02    |
| Nandan Jha                   | <a href="mailto:jha@iqo.uni-hannover.de">jha@iqo.uni-hannover.de</a>         | 29.11    |
| Waldemar Friesen-Piepenbrink | <a href="mailto:friesen@iqo.uni-hannover.de">friesen@iqo.uni-hannover.de</a> | 20.04    |

## Former Group Members

| Name                | Email                                                                                                      | Birthday |
|---------------------|------------------------------------------------------------------------------------------------------------|----------|
| Steffen Sauer       | <a href="mailto:sauer@iqo.uni-hannover.de">sauer@iqo.uni-hannover.de</a>                                   | 26.01    |
| Dr. Steffen Rühmann | <a href="mailto:ruehmann@iqo.uni-hannover.de">ruehmann@iqo.uni-hannover.de</a>                             | 10.08    |
| Dr. Klaus Zipfel    | <a href="mailto:zipfel@iqo.uni-hannover.de">zipfel@iqo.uni-hannover.de</a>                                 | 24.08    |
| Nephtali Garrido    | <a href="mailto:nephtali.garrido-gonzalez@nottingham.ac.uk">nephtali.garrido-gonzalez@nottingham.ac.uk</a> |          |
| Pia Koopmann        | <a href="mailto:koopmann@iqo.uni-hannover.de">koopmann@iqo.uni-hannover.de</a>                             | 14.09    |
| Rasmus Holst        | <a href="mailto:holst@iqo.uni-hannover.de">holst@iqo.uni-hannover.de</a>                                   | 19.08    |
| Lukas Köpp          | <a href="mailto:koepp@iqo.uni-hannover.de">koepp@iqo.uni-hannover.de</a>                                   | 23.12    |
| Fiene Weber         | <a href="mailto:f.weber@iqo.uni-hannover.de">f.weber@iqo.uni-hannover.de</a>                               | 10.09    |
| Josephine Wolf      | <a href="mailto:wolf@iqo.uni-hannover.de">wolf@iqo.uni-hannover.de</a>                                     | 15.08    |
| Philipp Gehrke      | <a href="mailto:gehrke@iqo.uni-hannover.com">gehrke@iqo.uni-hannover.com</a>                               | 29.07    |

## AtomLab

- [AtomLab](#) Devices and Data sheets

## ResLab

- [ResLab \(Public Area\)](#)
- [ResLab \(Private Area\)](#)
- [Project PTB-Cavity](#)

## FWJ

- [FWJ](#) Tasks & Status

# Frequency measurement

- [Necessary things to do until the frequency measurement](#)
- [Notes/Informations](#)

## Papers

- Current papers from arxiv:
  - [Structured squeezed light allows for high-harmonic generation in classical forbidden geometries](#)
  - [Quantum coarsening and collective dynamics on a programmable simulator](#)
  - [Stable singular fractional skyrmion spin texture from the quantum Kelvin-Helmholtz instability](#)
  - [Phase-locked amplification enhanced by spin squeezing](#)
  - [A Liquid-Nitrogen-Cooled Ca<sup>+</sup> Ion Optical Clock with a Systematic Uncertainty of 4.6E-19](#)
  - [88Sr<sup>+</sup> ion trap apparatus for generating 408 nm photons](#)
  - [Sub-Doppler cooling of bosonic strontium in a two-color MOT](#)
  - [Measurement of the Differential Static Scalar Polarizability of the  \$^{\infty}\text{Sr}^{+}\$  Clock Transition](#)
- [Recent interesting papers](#)
- [Other clocks](#) Status, results and important values of other clock experiments
- [Magnesium papers](#)
- [List of Doctor/Master/Diplom/Bachelor-Thesis from Magnesium](#)
- [Printed Thesis that are in the cabinet](#)

## Useful informations

- [Tips and tricks for working in the Lab](#) ...how to....
- [Protocols \(\\*\\*DEPRECATED\\*\\*\)](#) Summary of the meetings (→ **Moved to Internal Area**)
- [Phone List](#) Phone List of partners
- [New designs for Laser and Lasersystems](#) : Whats should be implemented in new designs
- [New by Mg](#) Informations for new members
- List of the university management:  
[https://www.intern.uni-hannover.de/fileadmin/luh/content/dezernat1\\_intern/GVP/Telefonliste\\_kurz\\_Nachnamen.pdf](https://www.intern.uni-hannover.de/fileadmin/luh/content/dezernat1_intern/GVP/Telefonliste_kurz_Nachnamen.pdf)
- [Technology for Denmark](#) Technology List for Denmark
- [Calendar](#) Magnesium Kalender like holidays, meetings with Ernst and so on...
- [Good Scientific Practice](#) Information about "Good-Scientific-Practice"
- [Shopping Wish List](#) Wish list for things we would like to buy in case there are funds available

- [Talks](#) A summary about talk which has been given
- [Red Pitaya](#) Quick-Start Tutorial and Applications

## Mensa

- [Freitag 04.07.2025](#)

[Internal area](#) (not accessible to non-members of the LDAP group mg)

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