

Magnesium



Group Members

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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⁺ Ion Optical Clock with a Systematic Uncertainty of 4.6E-19](#)
 - [88Sr⁺ 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
- [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

Mensa

- [Freitag 04.07.2025](#)

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

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