

Yiming MENG, Ph.D. Student

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🌐 <https://www.coldatomsbordeaux.org/miga>



Research

- Oct. 2023 – Present ■ **MIGA Cold Atoms Interferometer**, LP2N, Laboratoire Photonique, Numérique et Nanosciences, Université Bordeaux.
- Sep. 2021 – Jul. 2023 ■ **87-Rb Microwave Clock**, Shanghai Institute of Optics and Fine Mechanics.
- Apr. 2022 – Jul. 2023 ■ **87-Rb Two-photon Optical Frequency Standard**, Shanghai Institute of Optics and Fine Mechanics.
- Mar. 2020 – May. 2022 ■ **Research on Magnetostrictive Properties of CoFe_2O_4** , Nanjing University of Aeronautics and Astronautics (NUAA).

Education

- 2023 – Present ■ **Ph.D. in Physics**, LP2N, University of Bordeaux, Bordeaux, France.
- 2021 – 2023 ■ **M.Sc. in Optics**, Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences, Shanghai, China.
- 2020 – 2021 ■ **M.Sc. in Optics**, University of Science and Technology of China (USTC), Hefei, China.
- 2016 – 2020 ■ **B.Sc. in Applied Physics**, Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China.

Research Publications

- 1 M. Yiming, J. Xiang, B. Xu, *et al.*, “Frequency stabilization characteristics of 87rb two-photon transition spectrum,” *Chinese Journal of Lasers*, vol. 50, no. 23, pp. 121–128, 2023, ISSN: 0258-7025.
- 2 Z. Zhang, J. Xiang, B. Xu, *et al.*, “Integrated, reliable laser system for an 87rb cold atom fountain clock,” *Chinese Physics B*, vol. 32, no. 1, p. 013 202, 2023.
- 3 Z. Zhang, J. Xiang, Y. Meng, W. Ren, S. Deng, and D. Lü, “Design of a highly reliable and low-cost optical bench for laser cooling,” *Optical Fiber Technology*, vol. 72, p. 102 974, 2022.

Skills

- Programming ■ Python, C, MATLAB scripting, \LaTeX .
- Optical Design ■ ZEMAX, COMSOL, MATLAB (optical simulations).
- CAD & 3D Modeling ■ SolidWorks, Cinema 4D (C4D).