

## Special Issue

# Spectroscopy of Hot Atomic Vapor

### Message from the Guest Editors

Laser interaction with atomic samples represents a building block in our understanding of light–matter interaction as well as in investigations of quantum phenomena. Hot atomic vapor spectroscopy has garnered renewed interest in recent years, motivated by the experimental simplicity of using hot atoms and the variety of research topics that can be explored with such systems. For instance, hot atomic vapor has been used in applications such as sensitive measurement, the manipulation of atomic coherence, the emulation of non-atomic systems, and non-linear optics, among others. The purpose of this Special Issue is to provide an overview of current research topics concerning hot atomic vapor. Researchers are invited to submit their contributions on topics including, but not limited to, the following:

- Hot vapors as sensors;
- Lights scattering by hot vapors;
- Coherent effects;
- Non-linear optics;
- Quantum manipulations;
- Rydberg atoms.

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### Guest Editors

Dr. Thierry Passerat De Silans

Dr. Jesús Pavón López

Dr. João Carlos de Aquino Carvalho

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### Deadline for manuscript submissions

20 May 2026



## Photonics

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### Editor-in-Chief

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