

Projekta Izp-2020/1-0180 rezultāti

Kompakta 3-D magnētiskā lauka detektēšana, izmantojot Cs atomu tvaikus istabas temperatūrā

Origināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Osite, D.; Gahbauer, F.; Busaite, L.; Mozers, A.; Auzinsh, M. Searching for alignment-to-orientation conversion in the ground state of atomic Cs with circularly polarized laser probe. - Journal of Physics B: Atomic, Molecular and Optical Physics, 2023, <https://doi.org/10.1088/1361-6455/acb1e5>
2. Osite, D.; Gahbauer, F.; Busaite, L.; Mozers, A.; Auzinsh, M. A Toolkit for solving the Optical Bloch Equations in alkali metal atoms based on the QuantumOptics.jl package in Julia. - Journal of Computational Physics, 2024
3. Mozers, A.; Serzane-Sadovska, L.; Gahbauer, F.; Auzinsh, M. Radio-frequency induced Autler-Townes Effect for single - and double-photon magnetic-dipole transitions in the Cesium ground state. - Physical Review A, 2024
4. Mozers, A.; Nikolajevs, A.; Gahbauer, F.; Auzinsh, M. Multi-parameter study of two-axis Hanle magnetometry on the Cs D1 line. - Physical Review A, 2025, <https://arxiv.org/abs/2501.17847>

Projekta tematikā aizstāvēti promocijas darbi

1. Busaite, L. Magneto-optical effects in rubidium vapour and nitrogen-vacancy centres in diamond