



82nd International Scientific Conference of the University of Latvia 2024

Atomu, molekulu un optiskas fizikas sekcija
(LU FMOF Lāzeru Centra sekcija)

Atomic, molecular and optical physics section
(LU FMOF Laser Centre section)

Thursday, 1st of February 2024, 10:00 AM,
Jelgavas iela 3, 801/802 room

Programma/Programme

Chairpersons: Prof. Ruvins Ferbers, Prof. Mārcis Auziņš		
10:00–10:20	K. Korenika, K. Puķītis	Spectroscopy of a sample of RV Tauri stars without IR excess: First results
10:20–10:40	D. Jermacane, A. Lapins, I. Klincare, M. Tamanis, and R. Ferber	Determination of absolute numbering of vibrational levels in triplet $c^3\Sigma^+$ state of RbCs molecule
10:40–11:00	L. Seržane-Sadovska, A. Mozers*, F. Gahbauer and M. Auzinsh	Probing angular momentum alignment in atomic ^{133}Cs with radio frequency field
11:00–11:30	Kafijas pauze, diskusijas/Coffee break, discussions	
11:30–11:50	E. Šmits, R. Lazda, F. Gahbauer and M. Auzinsh	Microwave antenna design optimization for use in wide frequency range ODMR measurements
11:50–12:10	R. Lazda, M. Jani, A. Asare, E. Šmits, F. Gahbauer and M. Auzinsh	NV based magnetometer sensitivity optimization for one-dimensional magnetic field measurements
12:10–12:30	S. Filatovs, M. Auzinsh	Towards two Bloch sphere representation of two qubit states and unitaries
12:30–13:--	Noslēgums, diskusijas Conclusions, discussions	