



81st International Scientific
Conference of the
University of Latvia 2023

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

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

Tuesday, 31st of January 2023, 10.00 AM, online

Programma/Programme

Chairpersons: Prof. Ruvins Ferbers, Prof. Mārcis Auziņš		
10.00–10.20	K. Pukītis , <i>L. Zacs, J. Sperauskas</i>	Recent observations of stars by the Laboratory of Astrospectroscopy
10.20–10.40	A. Lapins , <i>I. Klincare, M. Tamanis, R. Ferber</i>	Studies of the $c^3\Sigma^+$ state in RbCs based on Fourier-transform high resolution spectroscopy data
10.40–11.00	M. Tamanis , <i>I. Klincare, R. Ferber, G. Başar, S. Kröger</i>	Determination of relative oscillator strengths from line intensities in atomic spectra of Tm
11.00–11.20	Break, discussions	
11.20–11.40	A. Nikolajevs , <i>A. Mozers, L. Busaite, D. Osite, F. Gahbauer, M. Auzinsh</i>	The impact of pump and probe light intensity on the signal shapes for magnetic field detection
11.40–12.00	O. Rudzītis , <i>R. Lazda, A. Asare, F. Gahbauer and M. Auzinsh</i>	High DC current stabilization using NV centers in diamond
12.00–12.20	E. Šmits , <i>R. Lazda, F. Gahbauer and M. Auzinsh</i>	Microwave antenna design for wide frequency range ODMR measurements
12.20–12.--	Conclusions, discussions	