

Palacký University Olomouc, Department of optics

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Josef Kapitán

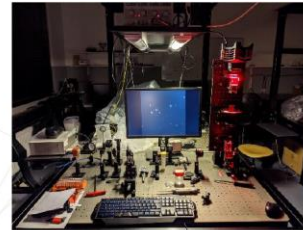
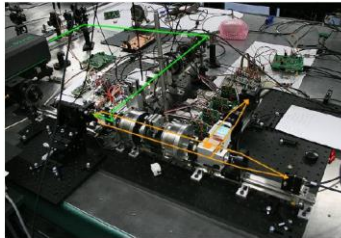
Senior researcher

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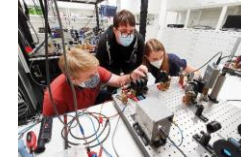
Introduction

Department of Optics has more than 40 years of tradition of outstanding research in optics and its members conduct cutting edge theoretical and experimental research in optical quantum information processing, quantum optics, quantum tomography, wave-front sensitive detection methods, digital holography, non-diffracting optical beams, optical signal processing and Raman spectroscopy.

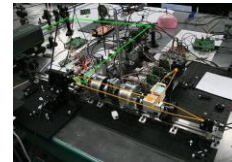


Department of optics – study programs

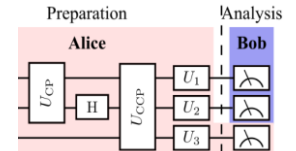
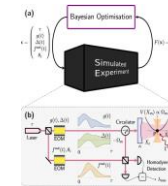
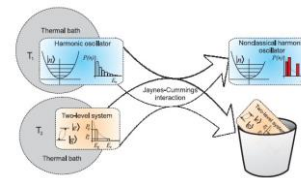
Optics and Optoelectronics



Digital and Instrumental Optics



General Physics and Mathematical Physics

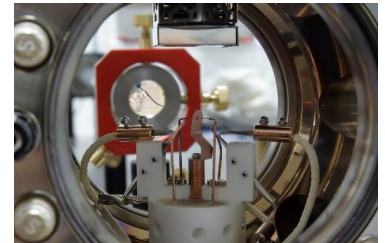
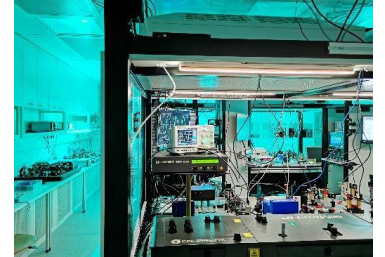


Optometry

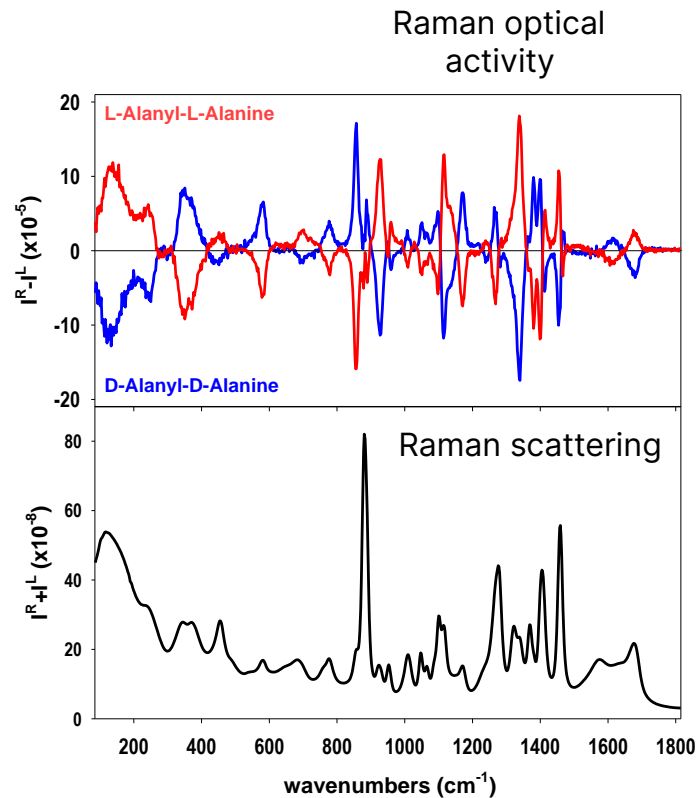
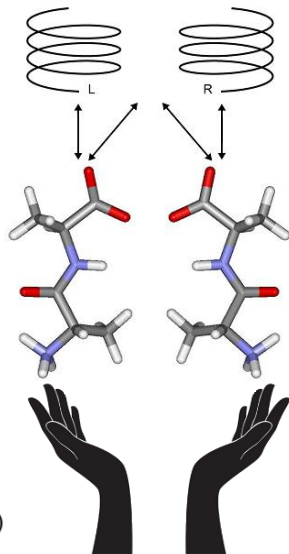
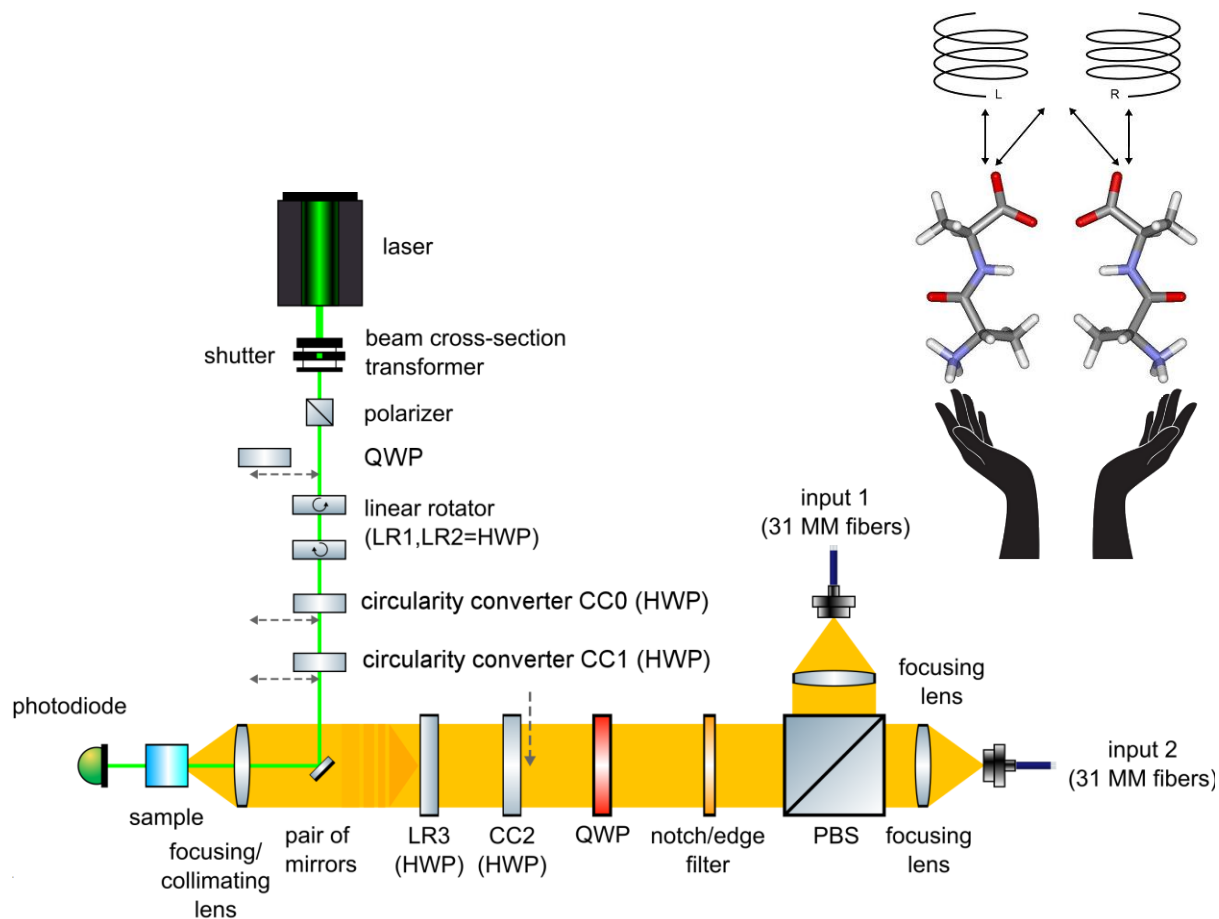


Department of optics – main research areas

- Quantum optics and optical quantum information processing
- Quantum interaction of light and matter
- Quantum optomechanics and quantum thermodynamics
- Quantum tomography and characterization of optical fields
- Spatial light modulation and non-diffracting beams
- Digital holography for microscopy
- Raman spectroscopy and Raman optical activity
- Physiological optics and optometry



Raman optical activity



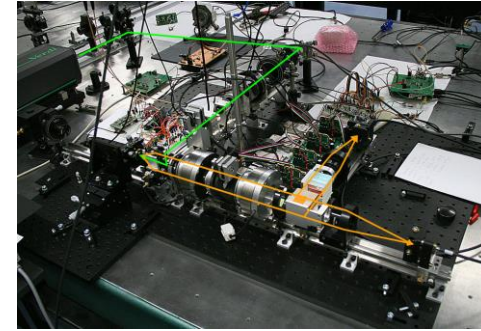
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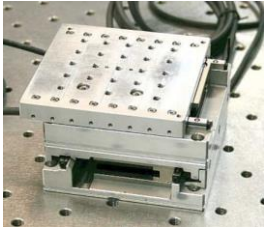
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We offer

In collaboration with ZEBR and MEOPTA

Raman optical activity spectrometer



Motorized 2D linear stages



We are looking for

suppliers of OEM components:

Scientific cameras (large sensor area – diagonal min. 30 mm, large pixel well-depth, low readout noise, fast readout)

Lasers (213 nm, 405 nm, 532 nm, 785 nm, spectral linewidth and stability < 1 GHz, output power > 2W, ideally coupled into fiber)