PHYS-610 Nonlinear Spectroscopy (2023)

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Roke S	/Ivie			
Cursus	Sem.	Туре	Language of	English
Photonics		Obl.	teaching	Linghon
			Credits	3
			Session	
			Exam	Written
			Workload	90h
			Hours	42
			Courses	28
			Exercises	14
			Number of	
			positions	

Frequency

Every 2 years

Remark Block course February 5 to 9, 2018

Summary

Molecular properties relevant for spectroscopy...

Content

- Molecular properties relevant for spectroscopy
- Symmetry properties, space, time induced
- Susceptibility: Relation between molecular properties and macroscopic
- Optical properties
- Overview of nonlinear optical spectroscopies: SHG / SFG / CARS
- Nonlinear optical spectroscopy on planar surfaces
- Nonlinear optical spectroscopy on particle surfaces

Learning Prerequisites

Recommended courses bachelor level physics / chemistry

