PHYS-605 Photonic crystals

Houdré Romuald				
Cursus	Sem.	Туре	Language of	English
Photonics		Obl.	teaching	Linglish
			Credits	3
			Session	
			Exam	Oral
			Workload	90h
			Hours	42
			Courses	28
			Exercises	14
			Number of positions	

Frequency

Every 3 years

Remark

Next time: Spring 2020 - To be confirmed

Content

Fabrication of photonic crystals Tunable photonic crystals Modeling of the electromagnetic properties Non-linear optics in photonic crystals High Q cavities New concept for passive/active devices Nanostructured light emitters Integrated optics 2D-PC in the transmission mode Quantum light sources

Note

This course will be taught in French

Keywords

photonic crystals, photonic bandgap, non-linear optics, integrated optics

Learning Prerequisites

Recommended courses

Fundamentals of semiconductor physics and optics, basic elements of electronics

Resources

Websites

• http://ipeq.epfl.ch