PHYS-616 Solid State Physics X: experimental techniques

Crepaldi Alberto, Gaal Richard, Rønnow Henrik M., Szirmai Péter, Zivkovic Ivica

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

Frequency

Every year

Remark

Every year / Next time: Spring 2019

Summary

This course allows students to learn the details of selected experimental techniques in solid state physics with some theoretical background. After the course students should be able to use presented techniques in their own research and advance their knowledge by studying the subject further.

Content

Presented experimental techniques:

- 1) Charge transport
- 2) Magnetization
- 3) Magnetic susceptibility
- 4) Specific heat
- 5) Thermal conductivity
- 6) Electron spin resonance
- 7) Nuclear magnetic resonance
- 8) Angle-resolved photo-emission spectroscopy
- 9) Resonant x-ray scattering
- 10) Neutron scattering