MSE-663

Powder Diffraction School - Modern Syncrotron Methods

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Cursus	Sem.	Type
Materials Science and Engineering		Opt.

Language of teaching	English
Credits	2
Session	
Exam	Oral
Workload	60h
Hours	**34**
Lecture	23
Exercises	9
Practical work	2
Number of positions	**40**

Frequency

Every 2 years

Remark

Next time 2022

Summary

Modern synchrotron-radiation methods not only provide data of exceptional quality, but have allowed previously inaccessible experiments to be performed. The school will give a broad overview of all possibilities using synchrotron radiation, including hands-on practicals.

Content

https://www.epfl.ch/research/domains/ccmx/courses-and-events/pds2020/?mc_cid=186eab633f&mc_eid=1f0a525ce4

Keywords

powder diffraction, x-rays, neutron diffraction

Learning Prerequisites

Important concepts to start the course

Participants are supposed to be already familiar with both the fundamentals of crystallography and X-ray powder diffraction.

Assessment methods

Oral discussion with tutors, participants will also be asked to present a poster

Resources

Websites

- https://www.epfl.ch/research/domains/ccmx/courses-and-events/pds2020/?mc_cid=186eab633f&mc_eid=1f0a525ce4