



X-ray microscopy

Graduate Course - 3 Credits

May 14th to May 18th, 2018

An introductory level course of one week full time

Hands-on experiments at MAX IV: Participants will perform one day of microscopy experiments at MAX IV, followed by one day of data analysis.

Aimed at Ph.D students in any field: Medicine, Biology, Physics, Chemistry, Geology and Engineering. No background in X-rays or physics required.

Topics Covered:

- X-Ray Fluorescence Microscopy
- Scanning Transmission X-Ray Microscopy (STXM)
- Scanning X-Ray Diffraction Microscopy
- Photoemission Electron Microscopy (PEEM)
- X-Ray Tomography
- Phase Contrast Imaging
- Coherent Diffraction Imaging (CDI), Ptychography and Holography

Lecturers

Jesper Wallentin (coordinator)
Martin Bech - LU
Stephen Hall – LU
Karina Thånell – MAX IV
Dina Carbone – MAX IV
Christoph Quitmann – MAX IV
Rajmund Mokso – MAX IV

Register latest April 21st by email to:

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For more information:

www.admire.lu.se/courses/advanced-x-ray-imaging