

Coherent X-ray Diffraction Imaging on mesocrystals and catalytic nanoparticles

Coherent X-ray Diffraction Imaging is a comparably new technique that allows to reconstruct the real space image of the particle illuminated by coherent X-rays. In this project we propose to perform reconstruction of previously measured data from mesocrystals and catalytic nanoparticles.

These data were obtained at PETRA III synchrotron source at DESY or at ESRF synchrotron source in Grenoble.

Field

A1: Solid-state physics and nanoscience (application oriented)

DESY Place

Hamburg

DESY Division

FS

DESY Group

FS-PS

Special Qualifications:

It will be good if the student will know basics of MATLAB or Python

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