PETRA III Variable Polarization XUV Beamline P04 Users Meeting 2016

Contribution ID: 3

Type: Oral

## Water Window Ptychography

Wednesday 24 February 2016 10:00 (30 minutes)

Imaging of biological samples in the water window energy range offers high chemical contrast between organic soft tissue and water. Lens based microscopes are limited by their optical elements. The coherent X-ray diffractive imaging (CXDI) method extends resolution down to the nano scale. In order to measure samples of micrometer sizes at 25 nm resolution we used ptychographic coherent diffractive imaging (PCDI). Images of a test pattern and a fibroblast cell have been reconstructed from their diffraction patterns.

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Session Classification: User reports