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P65 - Applied X-ray Absorption Spectroscopy Beamline

Thursday 5 October 2023 09:00 (3 hours)

Extended X-ray absorption fine structure spectroscopy (EXAFS) is an analytical method that yields information about the near range order around an absorber atom. We will measure EXAFS spectra of anatase and rutile, two crystal modifications of TiO_2 and of CrO_2 which adopts the rutile structure at beamline P65, DESY's bulk EXAFS beamline. The three spectra nicely demonstrate, which structural information can be gained from EXAFS spectra and which limitations the method has.

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