
New developments in phase retrieval, lensless imaging and ptychography

Delft University of Technology

Paul Urbach

Email: h.p.urbach@tudelft.nl

Lensless imaging is important at very short wavelengths such as EUV, for which conventional lenses do not exist. Phase retrieval is essential for lensless imaging. It is useful to distinguish between iterative and non-iterative phase retrieval methods. We shall discuss several of these methods and then focus on the iterative method called ptychography. New developments such as multi-wavelength, dark-field Fourier, 3D and high resolution ptychography will be considered.



Short Bio:

Paul Urbach is emeritus professor of optics at Delft University of Technology. He has been leader of the Optics Research Group since 2008. He has been president of the European Optical Society in 2012-2014 and again in 2017-2018. After his retirement he continued to teach supervise PhD students.