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Advanced Methods for Soft X-ray Scanning Transmission Microscopy

Monday, 31 May 2021 15:00 (30 minutes)

Scanning Transmission X-ray Microscopy (STXM) is
an established method for high resolution (down to <20nm) microscopy with chemical and magnetic imaging using NEXAFS / XMCD as contrast mechanism. Due to its scanning probe nature, this method can utilize specialized detectors for advanced imaging possibilites. Examples shown will include the use of fast single photon detectors for time resolvedpump-and-probe microscopy as well as using CCD Cameras to collect cohernet scattering at each point to improve spatial resolution using Ptychography.

About the speaker:
Markus Weidgand, did a Diploma in Physics in 2006 at
Würzburg University on the topic of RIXS on liquids and a PhD at MPI Stuttgart on time-resolved STXM on magnetic vortex cores. Since 2009 he was on working at MAXYMUS STXM instrument at BESSY II, Berlin. In 2019 he joined the HZB to be manager for MAXYMUS and the new MYSTIIC STXM instruments at BESSY II:

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