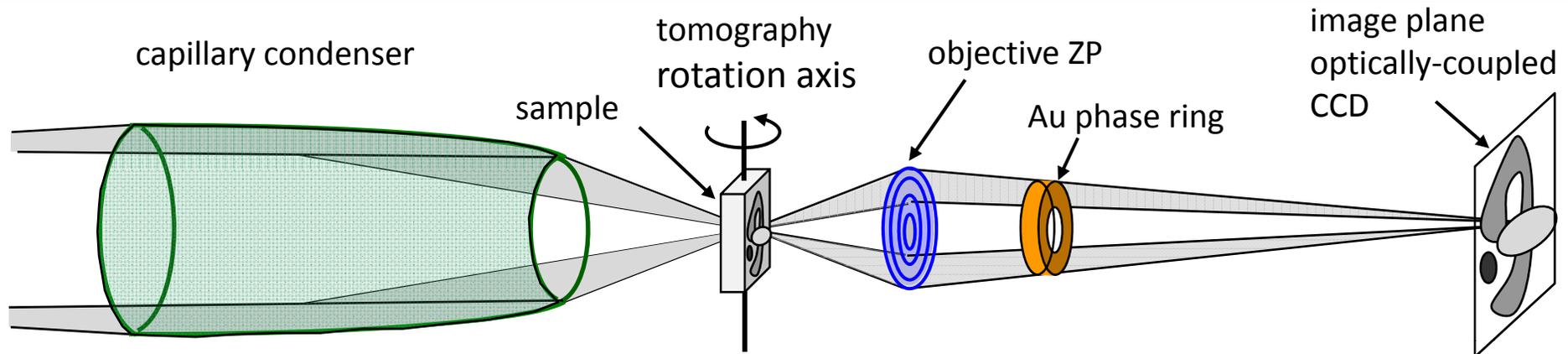


Hard Energy Transmission X-Ray Microscope

- *Proposed*



- Applies an x-ray lens as objective to obtain high-resolution image of internal structures in 3D
- Provides much larger depth penetration than TEM, ideal for in-situ studies of materials in real conditions

Instrument:	Full-field transmission x-ray microscope
X-ray energy	Continuously adjustable energy range 5-11 keV 3 discrete energies: 5 keV / 8 keV / 11 keV in phase contrast mode;
Imaging modalities:	Absorption contrast or Zernike phase contrast, user switchable
Resolution:	40 nm in high-resolution mode
Field of view (FOV):	15 μm x 15 μm
Large FOV mode:	60 μm FOV and 150 nm resolution, at 8 keV only
Data acquisition:	Computerized motion control and data acquisition. Fully automated tomographic data acquisition and reconstruction. Volumetric 3D data analysis and measurement software included.

