

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Volume Rendering of Ptychographic Tomogram FCC1. Shown are volume reconstruction of and cut slices through the retrieved electron density map, the component segmented tomogram, calculated thickness map and identifiable diffusion highways in FCC1. The beam direction is along the z axis, with the y axis vertical, while the sample holder is placed normal to the beam direction (z).

File Name: Supplementary Movie 2

Description: Volume Rendering of Ptychographic Tomogram FCC2. Shown are volume reconstruction of and cut slices through the retrieved electron density map, the component segmented tomogram, calculated thickness map and identifiable diffusion highways in FCC2. The beam direction is along the z axis, with the y axis vertical, while the sample holder is placed normal to the beam direction (z).

File Name: Supplementary Movie 3

Description: Volume Rendering of Ptychographic Tomogram FCC3. Shown are volume reconstruction of and cut slices through the retrieved electron density map, the component segmented tomogram, calculated thickness map and identifiable diffusion highways in FCC3. The beam direction is along the z axis, with the y axis vertical, while the sample holder is placed normal to the beam direction (z).