

The Eiger self-portrait - Ptychography reconstruction of a 500 µm × 290 µm region of an integrated readout circuit, reconstructed from 11,844 coherent diffraction patterns measured with the Eiger detector at the cSAXS beamline, Swiss Light Source. The image has 13,028 x 7,556 pixels of 38 nm, a true resolution of 41 nm and demonstrates for ptychography an imaging throughput above 25,000 resolution elements per second.

Guizar-Sicairos et al., "High-throughput ptychography using Eiger: scanning X-ray nano-imaging of extended regions", Opt. Express 22, 14859 (2014)