

## **Iterative deconvolution on X-ray fluorescence holography**

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X-ray fluorescence holography is a fascinating method to image the local environment of atomic species in oriented systems. Despite the recent achievements of the method (see Phys. Today, 54(4), 21-23, 2001), one major step toward the practical application of holography is a quantitative link between the electronic charge distribution and the holographic imaging.

Several methods for iterative deconvolution (Van Cittert, Lucy-Richardson, unconstrained and constrained best fit, maximum entropy) of x-ray fluorescence holograms will be presented and discussed.

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