High-resolution Data using short Wavelength Confocal Optics and a Cylindrical IP

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Combination of modern techniques for allows for new laboratory experiments that were previously inaccessible without specialized equipment. A new confocal optic for silver (Ag) radiation coupled with a rotating anode allows for greatly increased intensities at the sample position from this very short wavelength radiation.

By coupling this source with a cylindrical image-plate detector, very high resolution (high-Q) diffraction data can be obtained from a variety of samples, including single-crystal, powder, thin films, etc. Several experiments are described and the results from high-resolution experiments are discussed.

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