

16BMD Setup for: General XRD and Cryostat

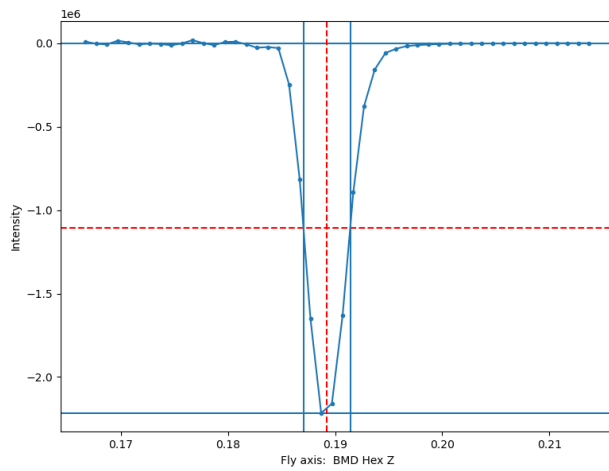
Date: July 10, 2022

Local Contact: Changyong Park

User Group: CDAC-Kumar

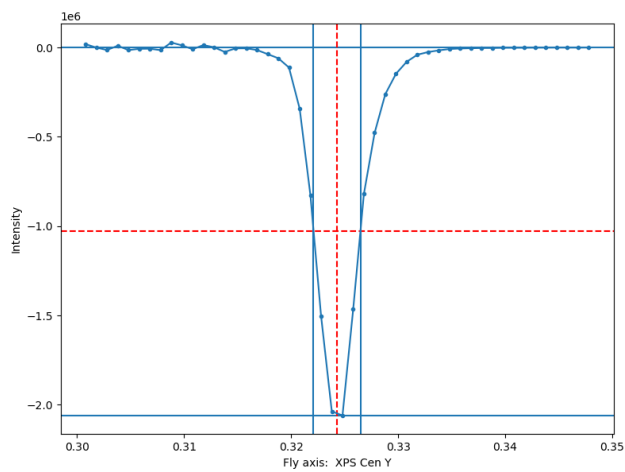
1. Energy: 30.000 keV

2. Vertical focus (pinhole: 90 μm ; distance: 90 mm):



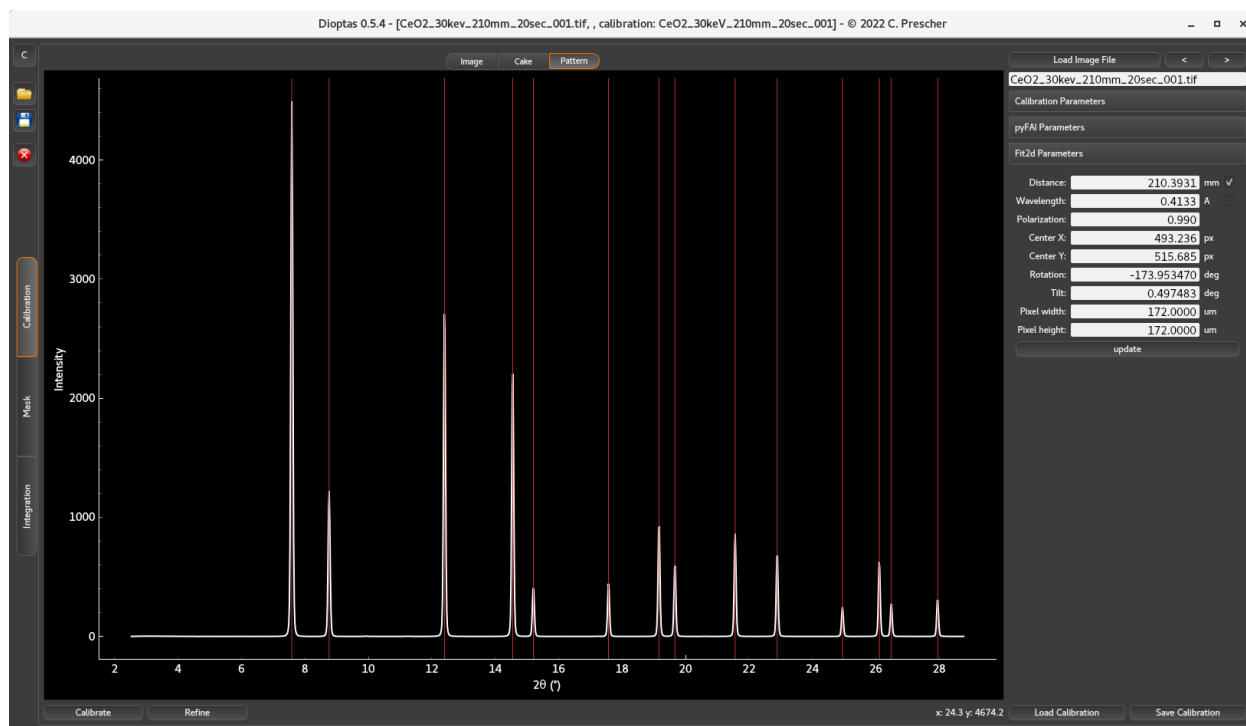
FWHM = 4.5 μm ; Full width at <1% max. = 23 μm

3. Horizontal focus:



FWHM = 4.4 μm ; Full width at 1% max. = 26 μm

4. Detector calibration:



CeO2_30kev_210mm_20sec_001.tif

Calibration Parameters

pyFAI Parameters

Fit2d Parameters

Distance: 210.3931 mm ☒

Wavelength: 0.4133 Å ☐

Polarization: 0.990

Center X: 493.236 px

Center Y: 515.685 px

Rotation: -173.953470 deg

Tilt: 0.497483 deg

Pixel width: 172.0000 um

Pixel height: 172.0000 um

update