

## Reading NanoMAX STXM & ptycho \*.h5 files

## aXis2000 analysis of NanoMAX data

For **diode SPECTRA** (early measurements using diode detector) use Read.Spectra.nanomax → calls read\_nanomax\_spectra

**Single IMAGES** in the **raw** folder diode format differs from those in the **process** folder,

Files (\*\*\*\*\*.h5) in the **notebooks** folder include reconstructed ptycoamp, ptycho-phase and stxm all measured using Eiger

**Eiger** use Read.Image.nanomax → calls read\_nanomax\_image

STACKS (called 'energy\_series' at NanoMAX)
Two stacks were recorded using the diode detector (read in but code
not in aXis2000). For diode stacks use Read.Stacks.nanomax.diode
→ calls read\_nanomax\_image

For **stacks (energy\_series)** recorded with **Eiger** (series00, series 007) use Read.Stacks.nanomax.eiger → calls read\_nanomax\_stack

NB: The h5 entries labelled stxm\_map\_XXX (XXX = Eiger or Diode are S = In(map\_XXX/map\_Io)
In order to get correct OD, it is necessary to undo the In() by executing exp(S) prior to selecting an Io area and converting to OD



-250

agreement with

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8990 9000 9010 9020

5.0×1





## Reading in Stacks (Energy\_series)

Read~Stacks~Nanomax~Eiger



Aligned, truncated

series7\_STXM\_j : average: 8969.00





