XRD Analysis Options
Fast overview

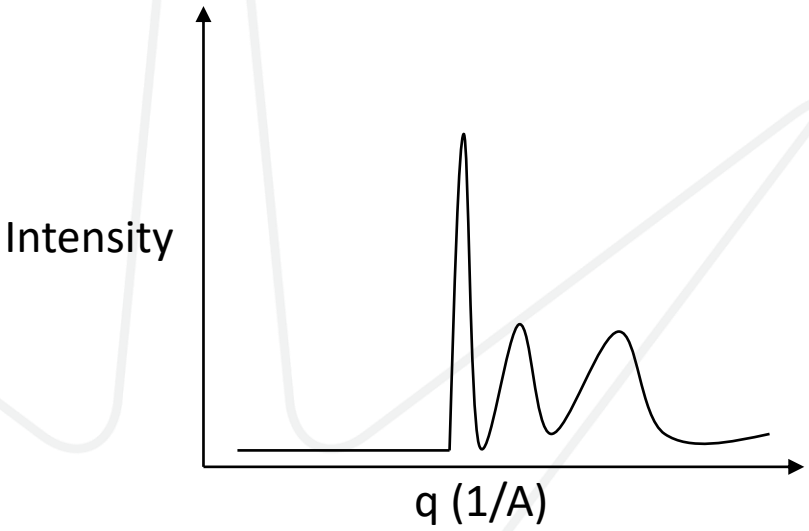
I14 Beamline

diamond

Autoprocessing

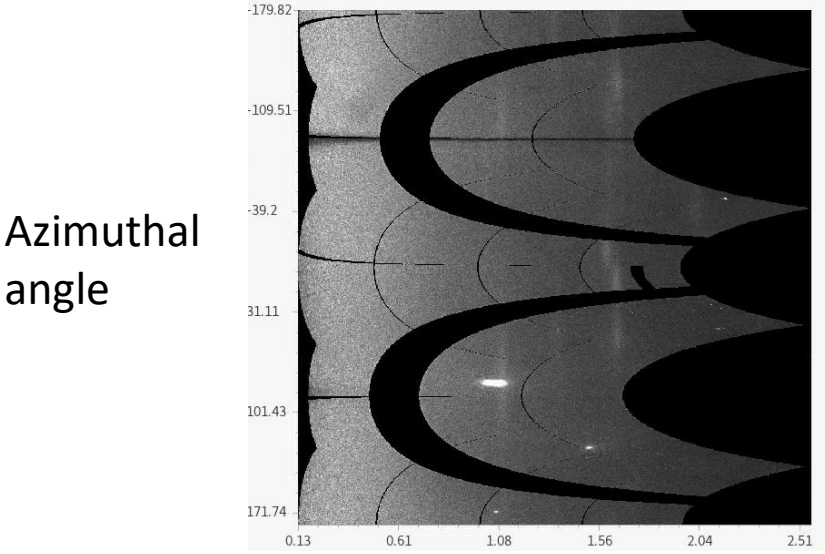
Also option to sum all frames:
Produces _summed.nxs files

- 1D



Graph per pixel – no orientation information

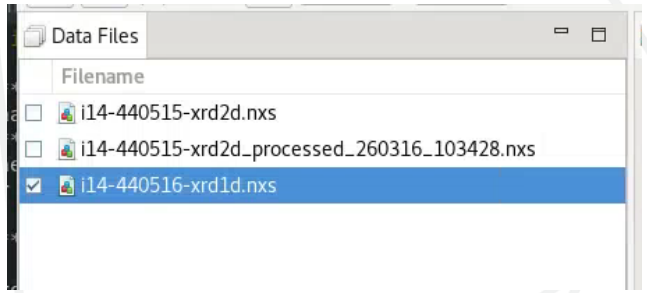
- 2D



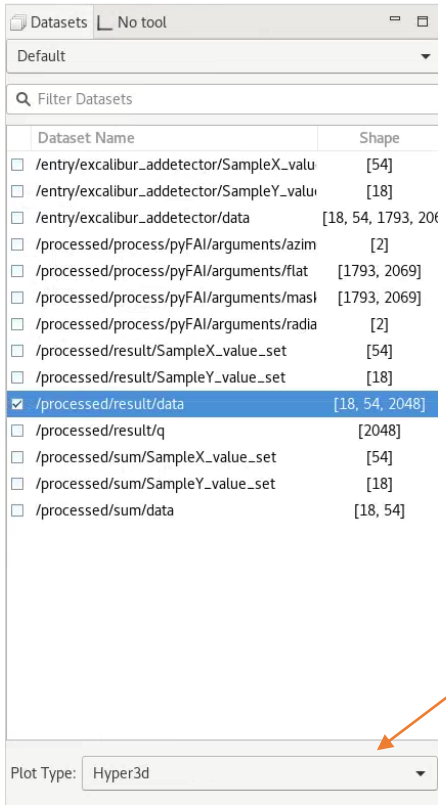
Detector image per pixel – easier to see what is on the same ring, and orientations.

How to look at the data in Dawn – 1D

Load data using File>Open file

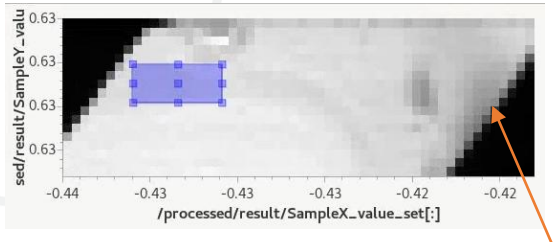


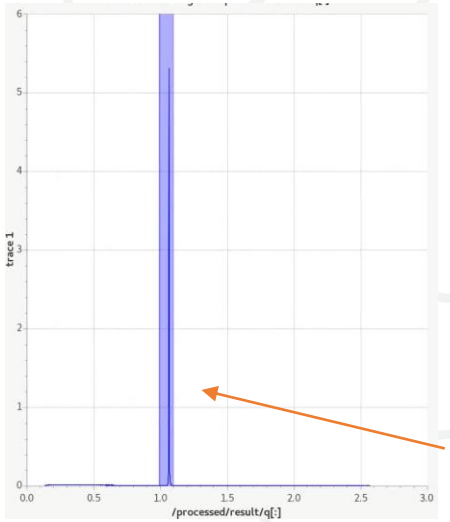
Check the box to select the 1D data



Select result/data

Select Hyper3D

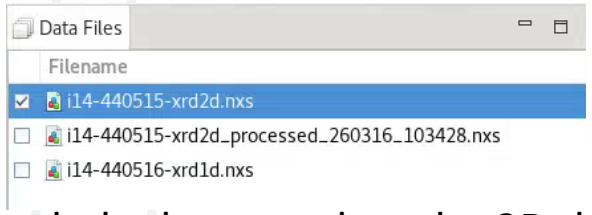




Adjust the blue boxes to select a particular peak or a particular area – be patient!

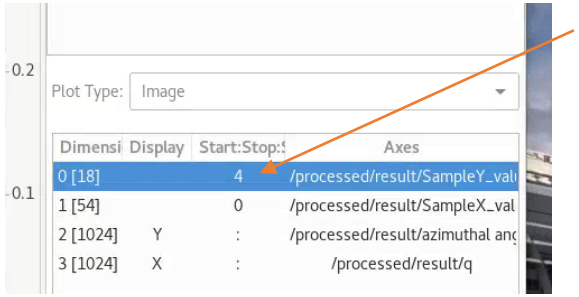
How to look at the data in Dawn 2D

Load data using File>Open file



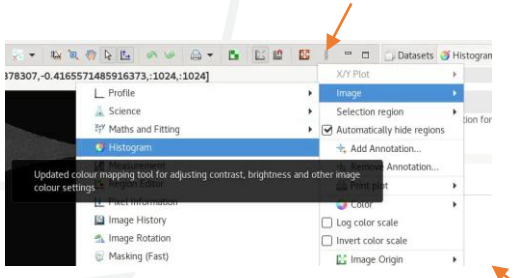
Check the box to select the 2D data

To peruse the data per pixel

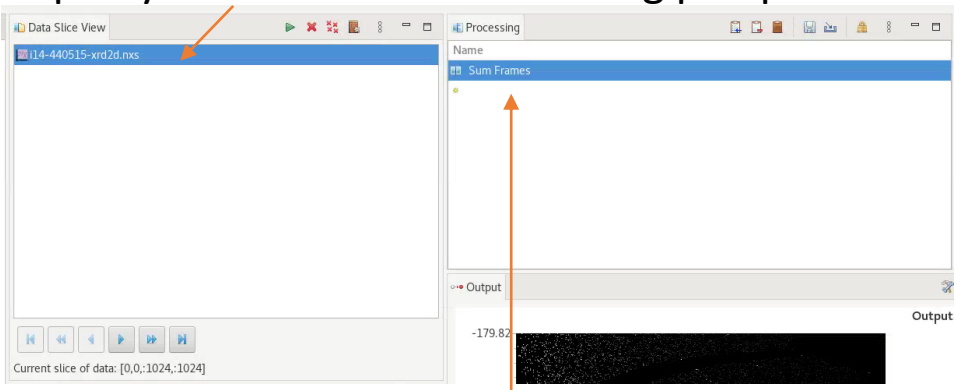


Click on the Start:Stop value to scan through the pixels using the scroll bar

To look at all pixels together



Open your data in the Processing perspective



Sum all the frames
Save in your processing folder
Open in data vis and adjust using the histogram

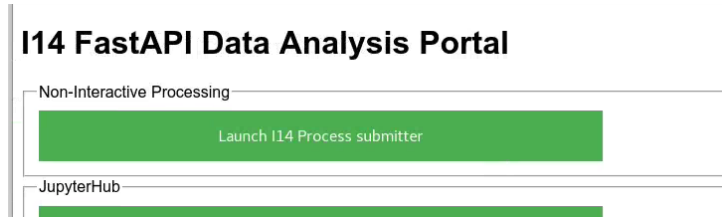
The autoprocessing didn’t run:

Log in to NoMachine

Run:
module load i14webapp/
Then:
./setup_web_app_i14.sh

Copy and paste the web address that appears into a browser (don’t use CTRL+C)

Launch the I14 Process Submitter

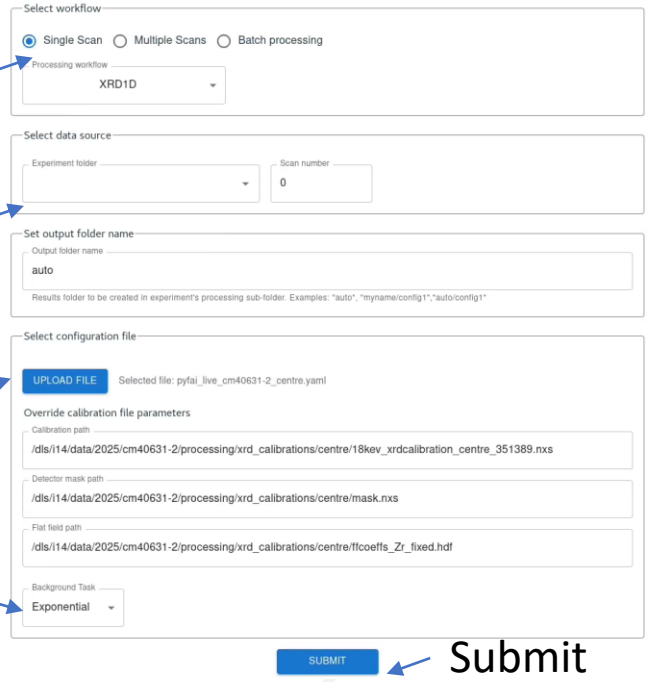


Choose XRD1D or 2D
Single scan, or batch

Fill in your parameters

Upload your config file (the .yaml file in your calibration folder)

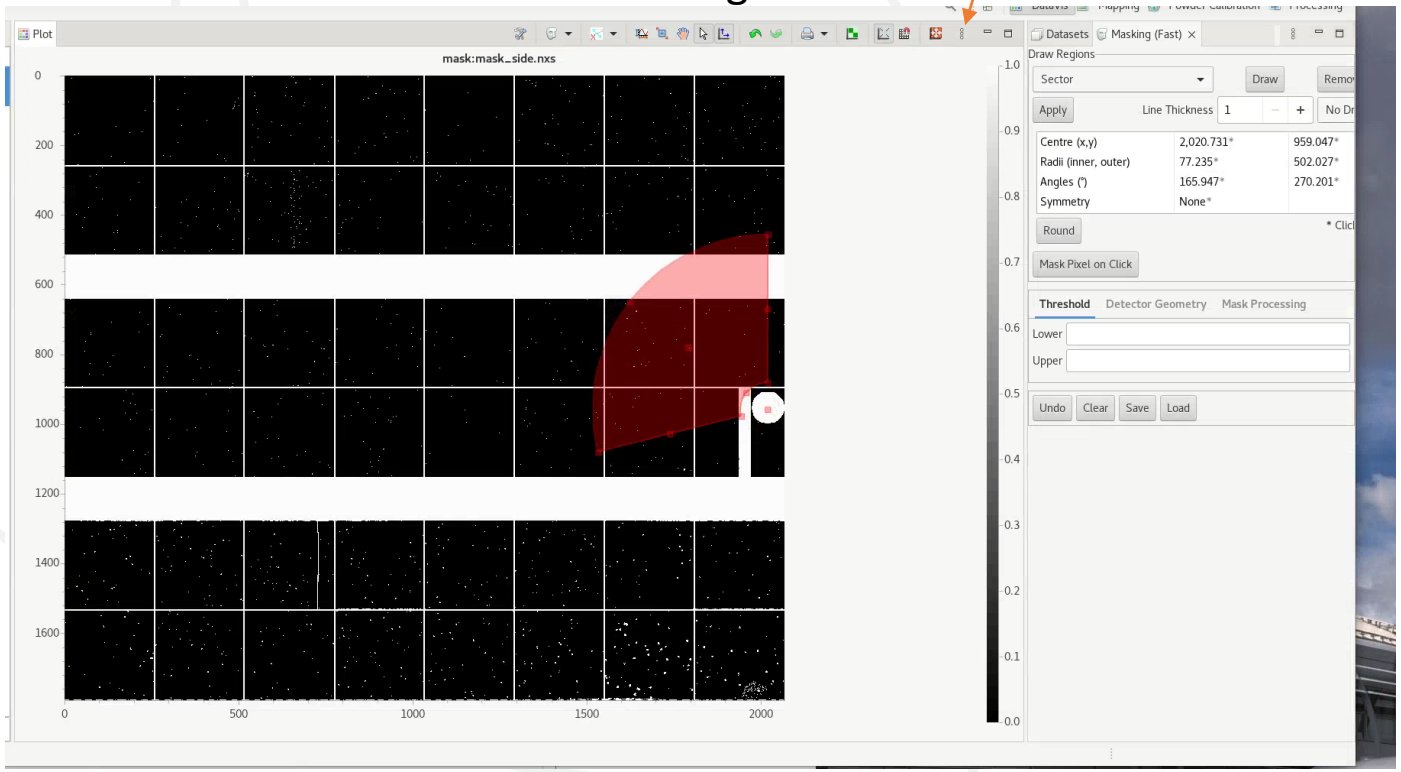
Background can be left empty unless you need removal



Submit

Other processing in DAWN

Select a sector - masking



Select a sector – via Processing