

Processing Cheat Sheet - DAWN 2.13

Build a processing sequence and apply it to data.

Use *File/Open File...* to start

The screenshot displays the DAWN 2.13 software interface with several panels and callouts:

- Project Explorer:** Shows a directory structure with a 'data' folder. Callout: "The Project explorer is optional and can be closed. It can be used to link multiple directories for easy access to data files."
- Data Slice View:** Displays a file named '39669.h5'. Callout: "Loaded files are displayed here. Click the file to push the data into the input plot below. The blue arrows can be used to change the input data slice (e.g. which image from a stack). Pressing the green play button in the top toolbar processes all the data into new files."
- Processing Panel:** Lists processing steps: 'Import Detector Calibration [XRD2 Image Processing]', 'Mask Outliers in Q', 'Azimuthal Integration [XRD2 Integration]', and 'Export to Text File'. A yellow star is next to 'Azimuthal Integration'. Callout: "This view displays the sequence of processing steps. Clicking the yellow star allows a new step to be selected from the list."
- Model 'Azimuthal Integration':** Shows parameters for the selected step. Callout: "This view shows all the parameters that can be changed for the selected processing step. Change a value here, then click on the processing step again to see the update."

Name	Value
Azimuthal range	
Log Radial Axis	<input type="checkbox"/>
Number of bins	
Pixel splitting	
Radial range	
X axis	Q (inverse Angstroms)
Zeros Instead of NaNs	<input checked="" type="checkbox"/>
- Output Panel:** Shows a line plot titled '39669_Azimuthal Integration' with a sharp peak at approximately 2. Callout: "The output of the processing sequence is shown here. It is the result of taking the input data and passing it through the processing sequence up to the selected step."
- Input Panel:** Shows a 2D heatmap titled 'data[0,:,:]' with concentric rings. Callout: "This view shows the input data before any processing is applied. It will either show an image or line plot depending on the processing mode."
- Setup Dialog:** A dialog box titled 'Set up data for processing' is shown, allowing selection of dataset, axes, and processing mode (Image or Line). Callout: "The setup dialog is shown when a file is first loaded. Here the dataset to process can be selected, and the processing mode (Image or Line)"