

NAME

pyFAI-average – pyFAI-average

SYNOPSIS

pyFAI-average [*options*] [*options*] -o *output.edf* *file1.edf* *file2.edf* ...

DESCRIPTION

This tool can be used to average out a set of dark current images using mean or median filter (along the image stack). One can also reject outliers by specifying a cutoff (remove cosmic rays / zingers from dark)

OPTIONS**--version**

show program's version number and exit

-h, --help

show this help message and exit

-o OUTPUT, **--output=**OUTPUT

Output/ destination of average image

-m METHOD, **--method=**METHOD

Method used for averaging, can be 'mean' (default) or 'median', 'min' or 'max'

-c CUTOFF, **--cutoff=**CUTOFF

Take the mean of the average \pm cutoff * std_dev.

-f FORMAT, **--format=**FORMAT

Output file/image format (by default EDF)

-v, --verbose

switch to verbose/debug mode

It can also be used to merge many images from the same sample when using a small beam and reduce the spottiness of Debye–Sherrer rings. In this case the "max-filter" is usually recommended.