

**NAME**

pyFAI-saxs – pyFAI-saxs

**DESCRIPTION**

usage: pyFAI-saxs [options] **-n** 1000 **-p** ponifile file1.edf file2.edf ...

Azimuthal integration for SAXS users.

**positional arguments:**

FILE Files to integrated

**optional arguments:**

**-h, --help**

show this help message and exit

**-v, --version**

show program's version number and exit

**-p** PONIFILE

PyFAI parameter file (.poni)

**-n** NPT

Number of points in radial dimension

**-w** WAVELENGTH, **--wavelength** WAVELENGTH

wavelength of the X-Ray beam in Angstrom

**-e** ENERGY, **--energy** ENERGY

energy of the X-Ray beam in keV (hc=12.398419292keV.A)

**-u** DUMMY, **--dummy** DUMMY

dummy value for dead pixels

**-U** DELTA\_DUMMY, **--delta\_dummy** DELTA\_DUMMY

delta dummy value

**-m** MASK, **--mask** MASK

name of the file containing the mask image

**-d** DARK, **--dark** DARK

name of the file containing the dark current

**-f** FLAT, **--flat** FLAT

name of the file containing the flat field

**-P** POLARIZATION\_FACTOR, **--polarization** POLARIZATION\_FACTOR

Polarization factor, from **-1** (vertical) to **+1** (horizontal), default is None for no correction, synchrotrons are around 0.95

**--error-model** ERROR\_MODEL

Error model to use. Currently on 'poisson' is implemented

**--unit** UNIT

unit for the radial dimension: can be q\_nm<sup>-1</sup>, q\_A<sup>-1</sup>, 2th\_deg, 2th\_rad or r\_mm

**--ext** EXT

extension of the regrouped filename (.dat)

pyFAI-saxs is the SAXS script of pyFAI that allows data reduction (azimuthal integration) for Small Angle Scattering with output axis in q space.