

NAME

pyFAI-saxs – pyFAI-saxs

SYNOPSIS**pyFAI-saxs** [*options*] -p *ponifile* *file1.edf* *file2.edf* ...**DESCRIPTION**

Azimuthal integration for SAXS users.

OPTIONS**--version**

show program's version number and exit

-h, --help

show this help message 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_FACTORPolarization factor, from -1 (vertical) to +1 (horizontal),
reduction, synchrotrons are around 0.95

default is None for no cor-

--error-model=ERROR_MODEL

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

--unit=UNITunit for the radial dimension: can be q_nm⁻¹, q_A⁻¹, 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.