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 List of files to calibrate

optional arguments:

-h, --help

show this help message and exit

-v, --version

-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^-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.