3.3.2.27. NXxas\_new

# Status:

application definition, extends [**NXobject**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXobject.html#nxobject). Download from <https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html> SMR 2025-08-15

# Description:

This is an application definition for X-ray absorption spectroscopy.

# Symbols:

The symbol(s) listed here will be used below to coordinate datasets with the same shape.

**nEnergy**: Number of energy data points

**nTransitions**: Number of electronic transitions

# Groups cited:

[**NXcollection**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcollection.html#nxcollection), [**NXcrystal**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcrystal.html#nxcrystal), [**NXdata**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdata.html#nxdata), [**NXdetector**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdetector.html#nxdetector), [**NXedge**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXedge.html#nxedge), [**NXelement**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXelement.html#nxelement), [**NXentry**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry), [**NXinstrument**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument), [**NXmonochromator**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXmonochromator.html#nxmonochromator), [**NXprocess**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXprocess.html#nxprocess), [**NXsample**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsample.html#nxsample), [**NXsource**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsource.html#nxsource), [**NXuser**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXuser.html#nxuser), [**NXxas\_mode**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXxas_mode.html#nxxas-mode)

# Structure:

## ENTRY: (required) [**NXentry**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry)

### definition:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry-definition-field)

Official NeXus NXDL schema to which this file conforms. TODO: replace NXxas

Obligatory value: NXxas\_new

### calculated:

(optional) [**NX\_BOOLEAN**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-boolean) {units=[**NX\_UNITLESS**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-unitless)}

Specify if the data comes from a calculation

### energy:

(required) [**NX\_FLOAT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-float) (Rank: 1, Dimensions: [nEnergy]) {units=[**NX\_ENERGY**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-energy)}

TODO

### intensity:

(required) [**NX\_FLOAT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-float) (Rank: 1, Dimensions: [nEnergy]) {units=[**NX\_ANY**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-any)}

TODO

### intensity\_errors:

(required) [**NX\_FLOAT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-float) (Rank: 1, Dimensions: [nEnergy]) {units=[**NX\_ANY**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-any)}

TODO

### mode:

(required) [**NXxas\_mode**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXxas_mode.html#nxxas-mode)

XAS measurement mode

#### name:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsample.html#nxsample-name-field)

X-ray absorption spectroscopy (XAS) is a technique that measures the absorption coefficient  of a material as a function of energy.

The name of the XAS mode indicates the type of process being monitored to obtain the spectrum. Any of these values:

* transmission: Transmission
* tfy: Total Fluorescence Yield
* pfy: Partial Fluorescence Yield
* ipfy: Inverse Partial Fluorescence Yield
* herfd: High Energy Resolution Fluorescence Detected
* tey: Total Electron Yield
* pey: Partial Electron Yield
* eels: Electron Energy Loss
* raman: X-ray Raman Scattering
* dafs: Diffraction Anomalous Fine Structure
* xeol: X-ray Excited Optical Luminescence
* reflexafs: Grazing Angle Reflection Extended X-ray Absorption Fine Structure
* other: Other

### element:

(required) [**NXelement**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXelement.html#nxelement)

Excited element

#### symbol:

(optional) [NX\_CHAR](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char)

#### oxidation**\_**state:

(optional) [NX\_CHAR](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char)

### edge:

(required) [**NXedge**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXedge.html#nxedge)

Absorption edge

#### name:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsample.html#nxsample-name-field)

### SAMPLE:

(required) [**NXsample**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsample.html#nxsample) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry-sample-group)

#### name:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsample.html#nxsample-name-field)

Descriptive name of the sample

### PROCESS:

(optional) [**NXprocess**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXprocess.html#nxprocess) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry-process-group)

Description on how [energy](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-energy-field) and [intensity](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-intensity-field) were obtained from the raw data.

### INSTRUMENT:

(optional) [**NXinstrument**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry-instrument-group)

#### SOURCE:

(required) [**NXsource**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsource.html#nxsource) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument-source-group)

##### type:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsource.html#nxsource-type-field)

##### name:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsource.html#nxsource-name-field)

##### probe:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXsource.html#nxsource-probe-field)

Obligatory value: x-ray

#### MONOCHROMATOR:

(optional) [**NXmonochromator**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXmonochromator.html#nxmonochromator) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument-monochromator-group)

##### energy:

(optional) [**NX\_FLOAT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-float) (Rank: 1, Dimensions: [nEnergy]) {units=[**NX\_ENERGY**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-energy)} [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXmonochromator.html#nxmonochromator-energy-field)

##### crystal:

(optional) [**NXcrystal**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcrystal.html#nxcrystal) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXmonochromator.html#nxmonochromator-crystal-group)

###### d\_spacing:

(required)  [**NX\_FLOAT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-float)  {units=[**NX\_LENGTH**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-length)} [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcrystal.html#nxcrystal-d-spacing-field)

spacing between crystal planes of the reflection

###### type:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcrystal.html#nxcrystal-type-field)

Type or material of monochromating substance (Si, Ge, Multilayer).

###### reflection:

(required) [**NX\_INT**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-int) (Rank: 1, Dimensions: [3]) {units=[**NX\_UNITLESS**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-unitless)} [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcrystal.html#nxcrystal-reflection-field)

Miller indices (hkl) values of nominal reflection

#### DETECTOR: (optional) [**NXdetector**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdetector.html#nxdetector) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument-detector-group)

##### data:

(required) [**NX\_NUMBER**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-number) (Rank: 1, Dimensions: [nEnergy]) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdetector.html#nxdetector-data-field)

#### i0: (optional) [**NXdetector**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdetector.html#nxdetector) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXinstrument.html#nxinstrument-detector-group)

##### data:

(required) [**NX\_NUMBER**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-number) (Rank: 1, Dimensions: [nEnergy]) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdetector.html#nxdetector-data-field)

#### DATA: (optional) [**NXdata**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdata.html#nxdata) [**⤆**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXentry.html#nxentry-data-group)

XAS intensity versus energy plot

##### energy:

[**link**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/design.html#design-links) (suggested target: /NXentry/energy)

##### intensity:

[**link**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/design.html#design-links) (suggested target: /NXentry/intensity)

#### COLLECTION:

(optional) [**NXcollection**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcollection.html#nxcollection)

Use [NXcollection](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXcollection.html#nxcollection) to gather together any set of terms. The original suggestion is to use this as a container class for the description of a beamline.

##### DATA:

(optional) [**NXdata**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXdata.html#nxdata)

Table like data structure common in the XAS domain.

###### data:

(required) [**NX\_NUMBER**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-number) (Rank: 2, Dimensions: [nChan, nEnergy])

###### columns:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char) (Rank: 1, Dimensions: [nEnergy])

###### data\_collector:

(optional) [**NXuser**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/base_classes/NXuser.html#nxuser)

name:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char)

orcid:

(required) [**NX\_CHAR**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/nxdl-types.html#nx-char)

## Hypertext Anchors

List of hypertext anchors for all groups, fields, attributes, and links defined in this class.

[**/NXxas\_new/ENTRY-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-group)

[**/NXxas\_new/ENTRY/calculated-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-calculated-field)

[**/NXxas\_new/ENTRY/COLLECTION-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-group)

[**/NXxas\_new/ENTRY/COLLECTION/DATA-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-group)

[**/NXxas\_new/ENTRY/COLLECTION/DATA/columns-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-columns-field)

[**/NXxas\_new/ENTRY/COLLECTION/DATA/data-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-data-field)

[**/NXxas\_new/ENTRY/COLLECTION/DATA/data\_collector-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-data-collector-group)

[**/NXxas\_new/ENTRY/COLLECTION/DATA/data\_collector/name-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-data-collector-name-field)

[**/NXxas\_new/ENTRY/COLLECTION/DATA/data\_collector/orcid-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-collection-data-data-collector-orcid-field)

[**/NXxas\_new/ENTRY/DATA-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-data-group)

[**/NXxas\_new/ENTRY/DATA/energy-link**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-data-energy-link)

[**/NXxas\_new/ENTRY/DATA/intensity-link**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-data-intensity-link)

[**/NXxas\_new/ENTRY/definition-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-definition-field)

[**/NXxas\_new/ENTRY/edge-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-edge-group)

[**/NXxas\_new/ENTRY/element-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-element-group)

[**/NXxas\_new/ENTRY/energy-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-energy-field)

[**/NXxas\_new/ENTRY/INSTRUMENT-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/DETECTOR-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-detector-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/DETECTOR/data-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-detector-data-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/i0-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-i0-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/i0/data-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-i0-data-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator/crystal-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-crystal-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator/crystal/d\_spacing-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-crystal-d-spacing-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator/crystal/reflection-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-crystal-reflection-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator/crystal/type-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-crystal-type-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/monochromator/energy-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-monochromator-energy-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/SOURCE-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-source-group)

[**/NXxas\_new/ENTRY/INSTRUMENT/SOURCE/name-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-source-name-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/SOURCE/probe-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-source-probe-field)

[**/NXxas\_new/ENTRY/INSTRUMENT/SOURCE/type-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-instrument-source-type-field)

[**/NXxas\_new/ENTRY/intensity-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-intensity-field)

[**/NXxas\_new/ENTRY/intensity\_errors-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-intensity-errors-field)

[**/NXxas\_new/ENTRY/mode-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-mode-group)

[**/NXxas\_new/ENTRY/PROCESS-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-process-group)

[**/NXxas\_new/ENTRY/SAMPLE-group**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-sample-group)

[**/NXxas\_new/ENTRY/SAMPLE/name-field**](https://nxxas-hdf5-nexus-7ba1891a1aaa2d29580131298dc337bab2b3e5de32b6ef.gitlab-pages.esrf.fr/classes/applications/NXxas_new.html#nxxas-new-entry-sample-name-field)

NXDL Source:

[**https://github.com/nexusformat/definitions/blob/main/applications/NXxas\_new.nxdl.xml**](https://github.com/nexusformat/definitions/blob/main/applications/NXxas_new.nxdl.xml)