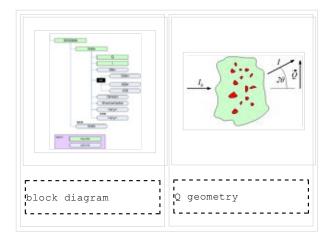
cansas1d SASdata

From canSAS



■ parent: SASentry

SASdata

| Name | Type | occurrence | Description | Attributes |
|-------|-----------|--------------|--|------------|
| Idata | container | [1unbounded] | Idata describes a single SAS data point. | |

Idata

| | Name | Type | occurrence | Description | Attributes |
|---|------|--------------------------|------------|---|----------------------------|
| Q | | floating-point number | [11] | $Q=(4 \pi / \lambda) \sin(\theta)$ where λ is the wavelength of the radiation and 2θ is the angle through which the detected radiation has been scattered. The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either $1/A$ or $1/nm$ are typical. | unit=" {units}" |
| Ι | | floating-point number | [11] | Intensity of the detected radiation. The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. One possibility might be 1/cm for absolute units when the intensity describes a differential cross-section per unit volume per unit solid angle. NOTE: Be aware that there are different types of intensity that may be reported (see Talk:cansas1d_documentation#The_Intensity_Problem) | unit= " {units}" |

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| | | | and one should be very careful to inspect the unit attribute to determine how to handle subsequent data processing, especially in the area of units conversion. | |
|--------------|--------------------------|------|---|----------------------------|
| Idev | floating-point number | [01] | Estimated standard deviation of I . The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. One possibility might be <i>l/cm</i> . | unit=" {units}" |
| Qdev | floating-point number | [01] | Estimated standard deviation of Q . (optional: see note below on usage) The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either <i>I/A</i> or <i>I/nm</i> are typical. | unit=" {units}" |
| dQw | floating-point number | [01] | Q resolution along the axis of scanning (the high-resolution <i>slit width</i> direction). Useful for defining resolution data from slit-smearing instruments such as Bonse-Hart geometry. (optional: see note below on usage) The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either <i>1/A</i> or <i>1/nm</i> are typical. | unit=" {units}" |
| dQl | floating-point number | [01] | Q resolution perpendicular to the axis of scanning (the low-resolution <i>slit length</i> direction). Useful for defining resolution data from slit-smearing instruments such as Bonse-Hart geometry. (optional: see note below on usage) The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either <i>I/A</i> or <i>I/nm</i> are typical. | unit= " {units}" |
| Qmean | floating-point number | [01] | Mean value of Q for this datum. Useful when describing data that has been binned from higher-resolution or from area detectors. The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either <i>1/A</i> or <i>1/nm</i> are typical. | unit=" {units}" |
| Shadowfactor | floating-point number | [01] | Describes the adjustment due to the beam stop penumbra. (This definition needs revision. NIST?) NOTE: There is no "unit" attribute. | |

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| {any} | container | | | xmlns: {foreign- prefix}=" |
|-------|-----------|---|----------|----------------------------------|
| | | - | details. | {foreign- namespace}" |

Notes

- 1. When an optional element (*Idev*, *Qdev*, ...) is used, it must be given in every **Idata** within the enclosing **SASdata**.
- 2. If either dQw or dQl are used, then Qdev is not permitted to be used.

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