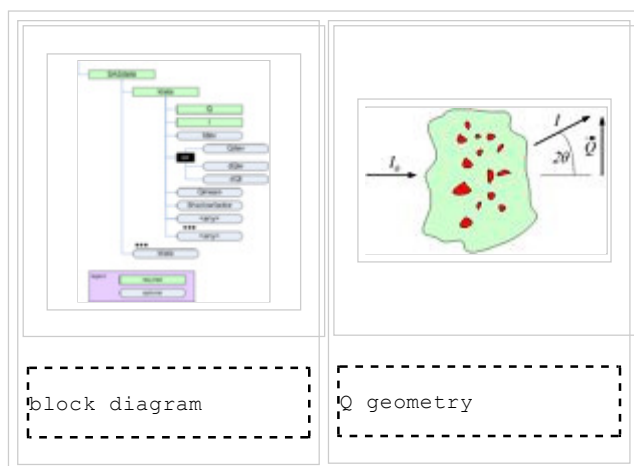


cansas1d Idata

From canSAS



Name	Type	occurrence	Description	Attributes
Q	floating-point number	[1..1]	<p>$Q = (4\pi / \lambda) \sin(\theta)$ where λ is the wavelength of the radiation and 2θ is the angle through which the detected radiation has been scattered.</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either $1/\text{\AA}$ or $1/\text{nm}$ are typical.</p>	unit ="{units}"
I	floating-point number	[1..1]	<p>Intensity of the detected radiation.</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. One possibility might be $1/\text{cm}$.</p>	unit ="{units}"
Idev	floating-point number	[0..1]	<p>Estimated standard deviation of I.</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. One possibility might be $1/\text{cm}$.</p>	unit ="{units}"
Qdev	floating-point number	[0..1]	<p>Estimated standard deviation of Q. (optional: see note below on usage)</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for</p>	unit ="{units}"

			acceptable values. Either $1/A$ or $1/nm$ are typical.	
<i>dQw</i>	floating-point number	[0..1]	<p>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)</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either $1/A$ or $1/nm$ are typical.</p>	unit=" {units}"
<i>dQl</i>	floating-point number	[0..1]	<p>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)</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either $1/A$ or $1/nm$ are typical.</p>	unit=" {units}"
<i>Qmean</i>	floating-point number	[0..1]	<p>Mean value of Q for this datum. Useful when describing data that has been binned from higher-resolution or from area detectors.</p> <p>The unit attribute is required. See cansas1d_documentation#Rules for acceptable values. Either $1/A$ or $1/nm$ are typical.</p>	unit=" {units}"
<i>Shadowfactor</i>	floating-point number	[0..1]	<p>Describes the adjustment due to the beam stop penumbra.</p> <p>(This definition needs revision. NIST?) NOTE: There is no "unit" attribute.</p>	

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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