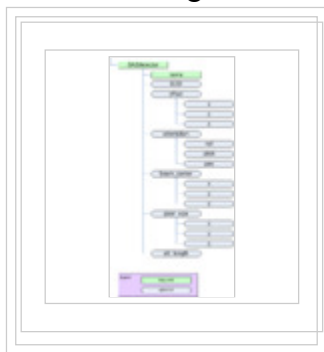# cansas1d SASdetector

From canSAS

block diagrams

- parent: SASinstrument

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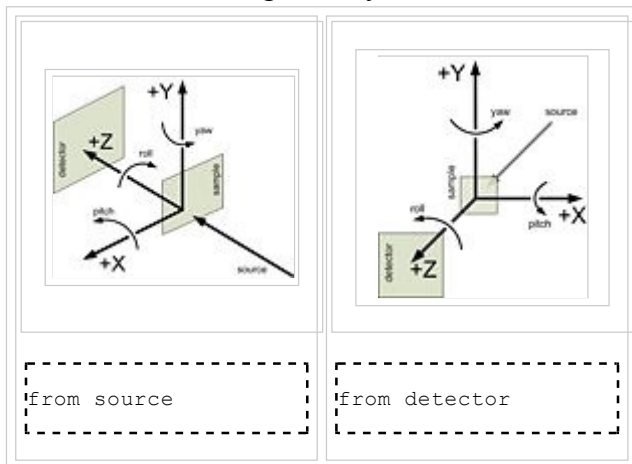- 5 beam_center
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SASdetector

Name	Type	occurrence	Description	Attributes
name	string	[1..1]	Text string that identifies the name of this detector.	
SDD	floating-point number	[0..1]	Distance between sample and detector.	**unit**=" {unit}"
offset	container	[0..1]	Offset of this detector position in X, Y, (and Z if necessary).	
orientation	container	[0..1]	Orientation (rotation) of this detector in roll, pitch, and yaw.	
beam_center	container	[0..1]	Center of the beam on the detector in X and Y (and Z if necessary).	
pixel_size	container	[0..1]	Size of detector pixels in X and Y (and Z if necessary).	

slit_length	floating-point number	[0..1]	Slit length of the instrument for this detector. This is expressed in the same units as Q (reciprocal space units).	*unit*=" {unit}"

geometry

geometry

offset

Name	Type	occurrence	Description	Attributes
x	floating-point number	[0..1]	Offset of the detector position in X. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
y	floating-point number	[0..1]	Offset of the detector position in Y. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
z	floating-point number	[0..1]	Offset of the detector position in Z. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values. Note: While Z is allowed by the standard (provided by use of a standard element in the XML Schema), it does not make sense for small-angle scattering.	**unit**=" {units}"

orientation

Name	Type	occurrence	Description	Attributes
roll	floating-point number	[0..1]	Rotation about the Z axis (roll). The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
pitch	floating-point number	[0..1]	Rotation about the X axis (pitch). The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
yaw	floating-point number	[0..1]	Rotation about the Y axis (yaw). The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"

beam_center

Name	Type	occurrence	Description	Attributes
x	floating-point number	[0..1]	Position of the beam center on the detector in X. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
y	floating-point number	[0..1]	Position of the beam center on the detector in Y. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
z	floating-point number	[0..1]	Position of the beam center on the detector in Z. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values. Note: While Z dimension is allowed by the standard (provided by use of a standard element in the XML Schema), it does not make sense for small-angle scattering.	**unit**=" {units}"

pixel_size

Name	Type	occurrence	Description	Attributes
x	floating-point number	[0..1]	Size of a detector pixel in X. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
y	floating-point number	[0..1]	Size of a detector pixel in Y. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values.	**unit**=" {units}"
z	floating-point number	[0..1]	Size of a detector pixel in Z. The **unit** attribute is required. See cansas1d_documentation#Rules for acceptable values. Note: While Z dimension is allowed by the standard (provided by use of a standard element in the XML Schema), it does not make sense for small-angle scattering.	**unit**=" {units}"

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