



# SliceView

version 0.0.2

**UF** DANSE/SANS Group  
University of Tennessee

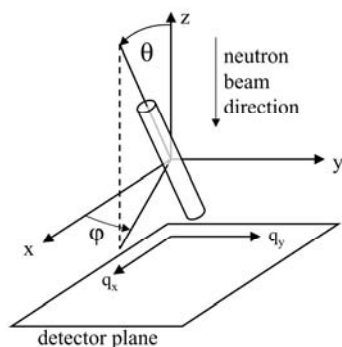
Choose your model

Change model parameters

Select a file with angular distribution (two column ascii). Theta & Phi are defined with respect to the beam and the projection in the plane of the detector

History of model changes for quick reload

Information of the nearest point clicked on the 2D plot



**SANS Viewer**

File Model Help

CylinderModel Parameters

Value	Disp	Npts
background: 0.0	cm-1	
contrast: 3e-006	A-2	
cy_phi: 1.0	rad	
cy_theta: 1.0	rad	
length: 400.0	A	<input type="text" value="0"/> <input type="text" value="0"/>
radius: 20.0	A	<input type="text" value="0"/> <input type="text" value="0"/>
scale: 1.0		

Averager Parameters

Theta:

Phi:

History

Slicer Parameters

x:   
y:

$Q_x = -0.007653; Q_y = 0.276998; I(Q_x, Q_y) = 0.000613$



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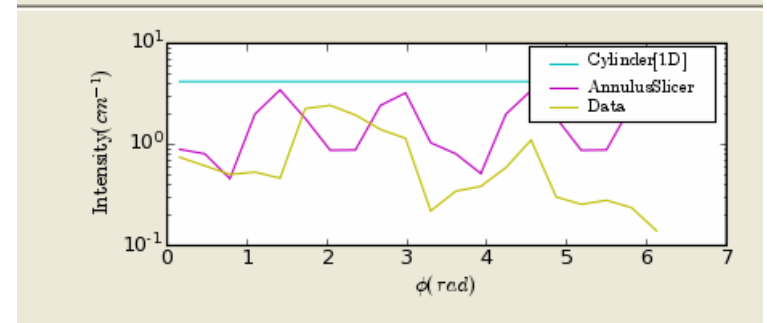
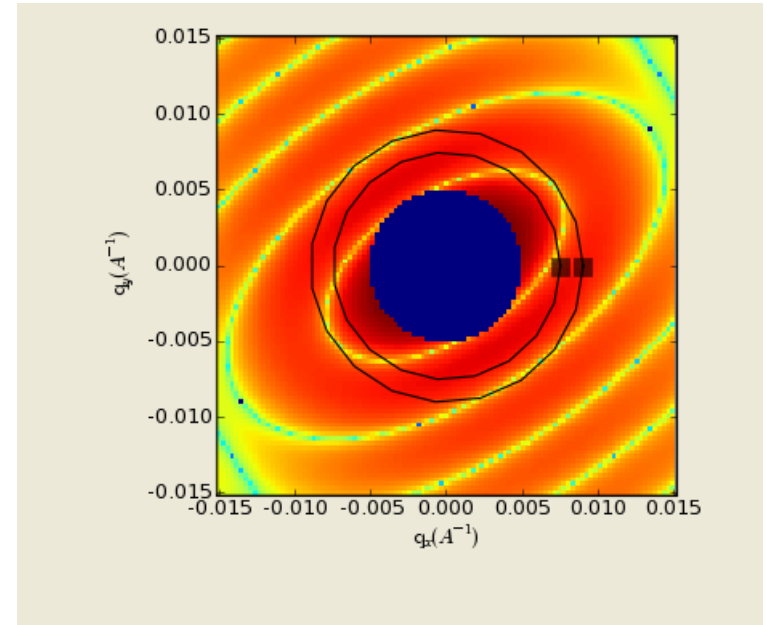
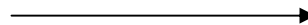
SliceView offers the choice of two types of slices on the 2D plot:

- a line slice (see previous page), for which the values along a radius are plotted as a function of  $Q$ .
- an annulus slice (right), for which pixels are averaged as a function of the angle  $\phi$  in the plane of the detector (around the beam axis).

The slice distribution for the model and the data (if available) are plotted, along with the rotationally averaged (1D) value.



Parameters of the slice can be entered by hand



Slicer Parameters

inner\_radius

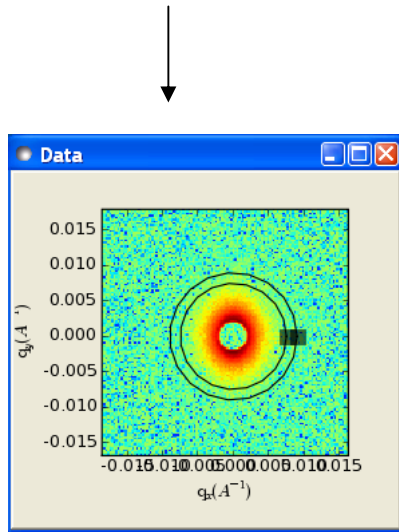
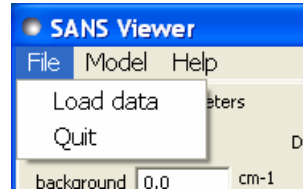
outer\_radius



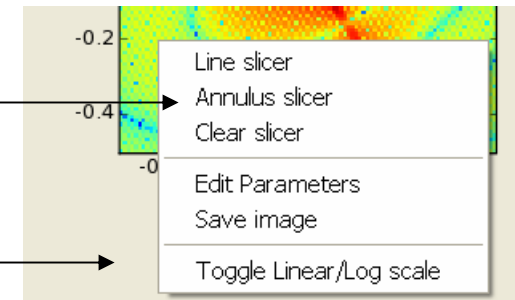
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It is possible to load a data file. The data will be displayed in a separate window and the slice manipulation will be done both on the model and the data.



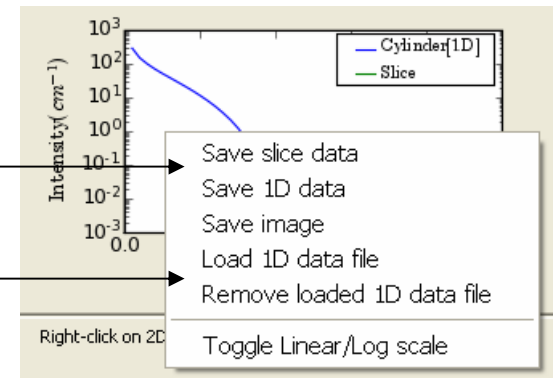
Right-clicking on the 2D plot allows you to select a slicer.



You can select to view the plot in linear or log scale.

The slice data can be saved in ascii format and the image can be saved in png.

It is possible to load a two-column ascii distribution to compare to your model.

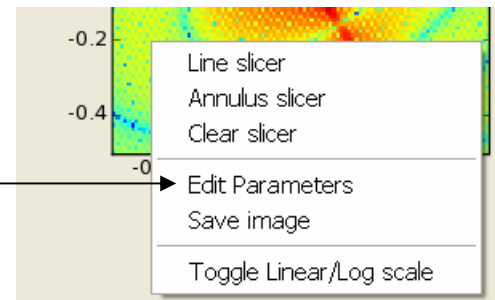




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By choosing Edit Parameters, you can change parameters of the detector and the 2D plot.

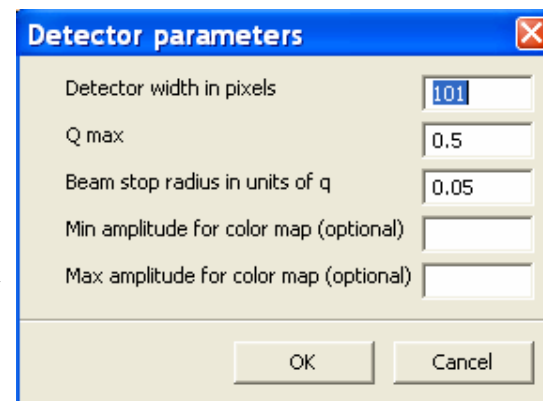


Choose the detector width in pixels

Choose the maximum Q in  $\text{\AA}^{-1}$

Choose the radius of the beam stop in  $\text{\AA}^{-1}$ .  
The beam stop will be subtracted from the distribution.

Select the amplitude range that will map between 0 and 1 for the purpose of choosing a color map for 2D plotting. If the fields are left empty, the color map of each plot will scale independently according to each plot's minimum and maximum values. Entered values will be applied to both model and data plots.



SliceView web page: <http://danse.chem.utk.edu/sliceview.html>

Comments? Bugs? Requests? Write to us at [sansdanse@gmail.com](mailto:sansdanse@gmail.com)