
Subject: Re: arbitrary xy cut through z data?
Posted by [olsen](#) on Thu, 25 Aug 1994 02:10:29 GMT
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Can IDL take a cut in the off-plane directions?
yes. it's the irregularly gridded data problem and they have several
levels of transformation available.

at FIT, you ought to talk to Bruce Rafert, who should have a copy....

>> --
> Matt A. Wood Assistant Professor
> wood@kepler.pss.fit.edu Dept. of Physics and Space Sciences

Subject: Re: arbitrary xy cut through z data?
Posted by [Geoff.Sobering](#) on Thu, 25 Aug 1994 15:57:24 GMT
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In article <Cv23z0.3x6@zeno.fit.edu>, wood@kepler.pss.fit.edu (Matt A.
Wood) wrote:

> ... Can they take a cut
> through the data at an arbitrary angle, plot the results as a
> std 2d plot ...

There is a user library routine which I think will do what you want:

```
; NAME:
;   EXTRACT_SLICE
;
; PURPOSE:
;   This function returns a 2-D planar slice extracted from
;   3-D volumetric data. The slicing plane may be oriented at
;   any angle, and may pass through any desired location in the
;   volume.
```

> ...and take the Fourier transform to get the lattice spacing?

One you have the 2D array, IDL can FFT it easily, I'm also sure you could
perform most analysis and generate graphics without too much trouble.

--
Geoff Sobering (Geoff.Sobering@nih.gov)
In Vivo NMR Research Center
National Institutes of Health
