Subject: Re: Creating colour-coded plots of spectra Posted by parigis on Mon, 03 Aug 2009 14:30:48 GMT

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```
Jimmy wrote:
>> Hi Jimmy,
>>
>> if you are happy with linear scale for the x and y axis,
>> any of the numerous program to plot images with axes will
>> do, but if it matters to you to have log scales as in the
>> Ulysses plots, I suggest to use
>>
    http://hea-www.cfa.harvard.edu/~pgrigis/idl_stuff/pg_plotima ge.pro
>>
>>
>> Example of usage:
>>
    pg_plotimage,dist(512,512),findgen(512),findgen(512)/10+1,/y log,/
>> xstyle,/ystyle
>>
>> Ciao,
>> Paolo
> Hi,
  Thanks for the advice! I will need to put log scales in, so that
  sounds like it'll be very useful.
>
 However (and this is my fault for not being clear) I'm not really at
> that stage yet- I'm still trying to convert a line spectral plot into
> a colour coded image, prior to plotting it. I basically have an array
> with a range of values in representing an 8 second piece of data, then
> a load of zeros, then another load of data, then zeros, etc... for an
> hour or so. When plotting this prints out as many, many spectra all in
> a line, and I'm trying to get idl to display them vertically and in
> color (as in the Ulysses plots).
>
> It may be that I need to write something to do this (I'm thinking
> something that bins the data according to its value, then assigns it a
> color based on intensity...) but as I've seen these plots around and
> the seem fairly standard I was hoping someone might know of function
> or program to do it for me- with my IDL skills it's likely to take a
> fair bit of time/cursing!
Hi, the format you describe seems a bit strange,
but assuming that your data really look like this,
this code should get you started (but please try
to understand every step of the code before you
```

try to apply something like that to your data).

```
IDL> a=[1,2,3,0,0,0,4,4,2,0,0,0,1,1,1,0,0,0,1,2,5]
```

IDL> ind=where(a NE 0)

IDL> b=reform(a[ind],3,4)

IDL> print,b

1 2 3 4 4 2 1 1 1 1 2 5

Ciao, Paolo

- >
- > Thanks,
- > Jimmy