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Subject: Re: tv with axes routine

Posted by [Brian Larsen](#) on Mon, 04 Dec 2006 15:40:56 GMT

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spectro\_plot is a good routine but seems to have a touch of odd behavior (I didn't know about this routine before)

odd behavior:

```
;; setup some data
dat = dist(100)
;; x is just 1:100
x = findgen(100)
y = findgen(100)
;; y has a datagap at 49 by 100
y[50:]*= 100
spectro_plot, dat, x, y, /no_ut
END
```

I would expect the plot to have a 100 unit gap in y but instead I get oddness.

Have a look,

Cheers,

Brian

Paolo Grigis wrote:

```
> The solution proposed are useful, but actually sometimes you want
> a behaviour similar to contour even for *not-uniformly* spaced
> data, such that you specify an image z and two axis vectors
> x and y with the coordinates of each horizontal and vertical
> channel. In solarsoft, the routine "spectro_plot" will do that
> for you.
```

```
>
```

```
> Example:
```

```
>
```

```
> ;create some data
```

```
> nx=800
```

```
> ny=600
```

```
>
```

```
> ;image
```

```
> im=dist(nx,ny)
```

```
>
```

```
> ;log scaled axis
```

```
> x=10.^(findgen(nx)/(nx-1)*2)
```

```
> y=10.^(findgen(ny)/(ny-1)*2+1)
>
> ;pick color table
> loadct,5
>
> ;linear color scale
> spectro_plot,im,x,y,/xlog,/ylog,/xstyle,/ystyle,/no_ut
>
> ;logarithmic color scale
> spectro_plot,im,x,y,/xlog,/ylog,/zlog,/xstyle,/ystyle,/no_ut
>
> ;linear axis & color
> spectro_plot,im,x,y,/xstyle,/ystyle,/no_ut
>
> Ciao,
> Paolo
>
>
```

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