
Subject: PVwave nice 3D Plot * /T3d problem ?
Posted by [zanotti](#) on Tue, 26 May 1998 07:00:00 GMT
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I'm probably missing something obvious here... I make a 3D plot (xyz) with PVwave. I want to put one of the 2D curves of the xz plane (ie at a given Y0 value) in red and annotate this particular curve with the annotation in the zx plane.
Here is what I have done:

```
loadct,2
x=findgen(40) & y=x
z=exp(-shift(dist(40),20,20)^2/40)
surface,z,x,y,xtitle='x',ytitle='y',zrange=[0,1],/save
t3d,/yzexch
Y0=10
plot,x,z(*,20),/T3D,zvalue=Y0,/noerase,yrange=[0,1],color=100,thick=2,/data
xyouts,10,10,'Text',z=Y0,/data,/t3d
```

It doesn't work for two reasons:

- 1- the axis of the 2D plot are not at the same level of that of the 3D plot. I suspect that something like a position keyword is missing...
- 2- the 2D plot is not drawn at the right Y0 value.

Does somedy have an idea ?
Thanks for help!

JMarc

```
_/___/_/___/_/___/_/___/_/___/_/___/_/___/_/___/_/___/_/___/_/
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```

Subject: Re: PVwave nice 3D Plot * /T3d problem ?
Posted by [davidf](#) on Thu, 28 May 1998 07:00:00 GMT
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Jean Marc Zannotti (zanotti@amoco.saclay.cea.fr) writes:

> I'm probably missing something obvious here...

> I make a 3D plot (xyz) with PVwave. I want to put one of the
> 2D curves of the xz plane (ie at a given Y0 value) in red and
> annotate this particular curve with the annotation in the zx plane.
> Here is what I have done:
>
> [snip...]
>
> It doesn't work for two reasons:
> 1- the axis of the 2D plot are not at the same level of
> that of the 3D plot. I suspect that something like a
> position keyword is missing...
> 2- the 2D plot is not drawn at the right Y0 value.

Strange. :-(

I can't get the Plot to align with the surface axes either,
although I have tried any number of things. You do have to
specify the Z value in normalized coordinates rather than
in data coordinates, but that is the only obvious thing
wrong with your code.

I've often had difficulties getting things aligned with
surface plots, but I was pretty sure I was beginning to
understand some of the issues. I've seen examples where
it was done, so it is undoubtedly due to some kind of
thickheadedness rather than a software limitation. :-)
I'd like to play with it some more, but it's not going to
happen today. :-)

Cheers,

David

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