
Subject: Pattern-filled PV wave contours in Postscript

Posted by [wellsj](#) on Fri, 08 Jan 1993 17:14:50 GMT

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OK. Using PVwave, I'm having difficulty creating a pattern-filled contour plot in a Postscript format. I've created such a contour plot on my X terminal, but when I switch my output device to postscript, all my contours are filled with blackness. Here's a sample of one of my attempts.

PRO test

```
openr,1,"x.dat"
openr,2,"z.dat"
openr,5,"phi0af_x"
arr1=fltarr(32,32)
x=fltarr(32)
z=fltarr(32)
readf,1,x
readf,2,z
readf,5,arr1
close,1
close,2
close,5
loadct,0
pat1 = bytarr(3,3)
pat2 = bytarr(3,3)
pat1(1,*) = 255
pat1(*,1) = 255
for i =0,2 do pat2(i,i) = 255
pat3d = bytarr(3,3,2)
pat3d(*,*,0) = pat1
pat3d(*,*,1) = pat2
contour, arr1,x,z, /spline, c_labels=0, $
    nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
    path_filename = 'cpaths.dat', $
    Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
    Charsize=1.75, Charthick=1.75, Font=-1
polycontour, 'cpaths.dat', pattern=pat3d
contour, arr1,x,z, /spline, c_labels=0, $
    nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
    /noerase, $
    Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
    Charsize=1.75, Charthick=1.75, Font=-1
set_plot, 'ps'
device, xsize=8.0, ysize = 7.0,xoffset=0.0,yoffset=1.5, $
    /Inches, Filename='phi0af_x.ps', /Palatino, /Bold, $
```

```
/Color
contour, arr1,x,z, /spline, c_labels=0, $
  nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
  path_filename = 'cpaths.dat', $
  Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
  Font=0, Charsize = 2.0
polycontour, 'cpaths.dat', pattern=pat3d
contour, arr1,x,z, /spline, c_labels=0, $
  nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
  /noerase, $
  Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
  Font=0, Charsize = 2.0
device, /close_file
END; test
```

Any suggestions?

Thanks in advance, Jack Wells

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Subject: Re: Pattern-filled PV wave contours in Postscript

Posted by [wellsj](#) on Mon, 11 Jan 1993 22:44:05 GMT

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In article <wellsj-080193121116@phym47.phy.ornl.gov>, wellsj@orph14.phy.ornl.gov (Jack C. Wells) wrote:

```
>
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> a pattern-filled contour plot in a Postscript
> format. I've created such a contour plot
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>
> PRO test
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> openr,2,"z.dat"
> openr,5,"phi0af_x"
> arr1=fltarr(32,32)
> x=fltarr(32)
> z=fltarr(32)
```

```

> readf,1,x
> readf,2,z
> readf,5,arr1
> close,1
> close,2
> close,5
> loadct,0
> pat1 = bytarr(3,3)
> pat2 = bytarr(3,3)
> pat1(1,*) = 255
> pat1(*,1) = 255
> for i=0,2 do pat2(i,i) = 255
> pat3d = bytarr(3,3,2)
> pat3d(*,*,0) = pat1
> pat3d(*,*,1) = pat2
> contour, arr1,x,z, /spline, c_labels=0, $
>     nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
>     path_filename = 'cpaths.dat', $
>     Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
>     Charsize=1.75, Charthick=1.75, Font=-1
> polycontour, 'cpaths.dat', pattern=pat3d
> contour, arr1,x,z, /spline, c_labels=0, $
>     nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
>     /noerase, $
>     Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
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> set_plot, 'ps'
> device, xsize=8.0, ysize = 7.0,xoffset=0.0,yoffset=1.5, $
>     /Inches, Filename='phi0af_x.ps', /Palatino, /Bold, $
>     /Color
> contour, arr1,x,z, /spline, c_labels=0, $
>     nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
>     path_filename = 'cpaths.dat', $
>     Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
>     Font=0, Charsize = 2.0
> polycontour, 'cpaths.dat', pattern=pat3d
> contour, arr1,x,z, /spline, c_labels=0, $
>     nlevels = 6, xrange=[-10, 10], yrange=[-2,2], $
>     /noerase, $
>     Ytitle = 'z (fm)', Xtitle = 'x (fm)', $
>     Font=0, Charsize = 2.0
> device, /close_file
> END; test
>
> Any suggestions?
> Thanks in advance, Jack Wells

```

The people at Precision Visuals have informed me

that my problem is their problem (i.e. I found a bug in their Postscript driver. They said the bug would be fixed in a to-be-released revision of PV wave. Jack Wells

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