
Subject: Re: Overplot contour on previously established coordinates

Posted by [mairan.teodoro](#) on Fri, 01 Mar 2013 19:25:20 GMT

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Hi David!

Thanks for the quick reply.

This is the part of the code that does the plot:

```
cgplot, findgen(100),title=strupr(string(((w[i+j]-lref)/lref)*a.c/1 d5,form='(I10)'),2),$  
xsty=1, ysty=1, charsize=0.8,$  
xrange=[reform(astro[0,0,0]),reform(astro[size[1]-1,size[2]- 1,0])],$  
yrange=[reform(astro[0,0,1]),reform(astro[size[1]-1,size[2]- 1,1])],$  
/nodata, position=p  
  
;;;; this is my iso-velocity image  
cgimage, bytscl(rot(img, 0, missing=0), min=mindisplay, max=maxdisplay), position=p,  
/overplot,$  
    xrange=[reform(astro[0,0,0]),reform(astro[size[1]-1,size[2]- 1,0])],$  
    yrange=[reform(astro[0,0,1]),reform(astro[size[1]-1,size[2]- 1,1])]  
  
;;;; normalized intensity colorbar  
cgColorBar, position=[p[2]+0.005, p[1], p[2]+0.02, p[3]],$  
    /vertical, /right, charsize=0.8,$  
    range=[mindisplay,maxdisplay]  
  
;;;; this is just to show the axis in white in my iso-image  
cgplot, findgen(100),$  
    xsty=1, ysty=1, xtickformat='(A1)', ytickformat='(A1)', axiscolor=cgcolor('white'),$  
    xrange=[reform(astro[0,0,0]),reform(astro[size[1]-1,size[2]- 1,0])],$  
    yrange=[reform(astro[0,0,1]),reform(astro[size[1]-1,size[2]- 1,1])],$  
    /nodata, /noerase, position=p, charsize=0.8  
  
;;;; this is the contour obtained from a FITS image  
;;;; with astrometric solution stored in header.  
;;;; The size and orientation are not the same as  
;;;; that of my iso-velocity image.  
cgcontour, rot(data_img, 0.), levels=[0.9,5,8],$  
    color='white', background='black',$  
    label=0, olevels=olevels, /onimage, /missing
```

The result for one image can be seen in this link:

<https://dl.dropbox.com/u/6573328/teodoro.png>

Thanks for any help!

m.
