
Subject: Re: extract circle from data with idl
Posted by [termybel](#) on Thu, 12 Oct 2017 12:10:30 GMT
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Thanks to answer but I have a probelm.

You puth this: if n_elements(li) ne 1 then message, 'not exactly 1 contour'

and my program say: not exactly 1 contour

How I can solve it?

If I ask in idl " help,/str,li" and the answer is:

Structure CONTOUR_DBL_PATH_STRUCTURE, 6 tags, length=24, data length=20:

| | | |
|----------|--------|-----------|
| TYPE | BYTE | 1 |
| HIGH_LOW | BYTE | 1 |
| LEVEL | INT | 0 |
| N | LONG | 7 |
| OFFSET | LONG | 0 |
| VALUE | DOUBLE | 9.0000000 |

and for " help,/str,lines"

LINES DOUBLE = Array[2, 5447]

My contour isn't a perfect circle. Maybe is this the problem?

This is my program where the image is a flat field panel minus dark:

```
file_ff1='ff_100s_3.fits' ;immagine
immagine_ff1=readfits(file_ff1, header1) ; leggo l'immagine del flat field panel
file_dark='ff_100s_dark_3.fits' ;immagine
immagine_dark=readfits(file_dark, header1) ; leggo l'immagine della dark
```

n=100. ; secondi di esposizione dell'immagine

ffp=(immagine_ff1-immagine_dark)/n

; contour per selezionare soglie di equivalore

```
speriamo=fltarr(2048,2048) ; creo una matrice 2048x2048
```

```
dimensioni=size(speriamo,/dimensions)
```

```
cubo=where(ffp lt 9.5 or ffp gt 10)
```

```
wrong_matrix=array_indices(dimensioni, cubo,/dimensions)
```

```
indxw=reform(wrong_matrix(0,*))
```

```
indyw=reform(wrong_matrix(1,*))
```

```

;ffp(indxw,indyw)=0.
;c = CONTOUR(ffp, dimensions=[512,512], Title='prova cubo')

; DATA being the data to be contoured
level=9
contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , path_xy=lines,
/path_data_coord, levels=[level], /path_double
; lix=lines(0,*)
; liy=lines(1,*)
; liyd=deriv(lix,liy)
;ind=where(abs(liyd) le 0.0001)

if n_elements(li) ne 1 then message, 'not exactly 1 contour'

cont_obj =obj_new('IDLanROI',lines)
void= cont_obj.ComputeGeometry(centroid=center)
;fit_ellipse(
print, center[0:1]

end

```
