
Subject: Re: extract circle from data with idl
Posted by [termybel](#) on Sun, 15 Oct 2017 15:43:58 GMT
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Il giorno giovedì 12 ottobre 2017 16:27:18 UTC+2, Markus Schmassmann ha scritto:

> On 10/12/2017 02:10 PM, termybel@gmail.com wrote:

>> Thanks to answer but I have a problem.

>>

>> You put 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
>
> contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , $
> path_xy=lines, /path_data_coord, levels=[level], /path_double
> contour, smooth(ffp(250:1700, 250:1700),3), levels=[level]
> ; shows you there are more than 1 contour,
> ; you need to identify the correct one
> ; often the best is the longest
> void=max(li.n,j)
> line=[*,li[j].offset+lindgen(li[j].n)]
> plot, line[0,*],line[1,*]
> cont_obj=obj_new('IDLanROI',line)

```

I don't know why but IDL say this message:

```

line=[*,li[j].offset+lindgen(li[j].n)]
      ^

```

% Syntax error.