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> model so the fitting procedure is a bit complicated.

Stefano

$\langle \dots \rangle$

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```

pro powell
common dat,image,x,y,f0
col=61 &row=69 ;your image dimension
filename='bcampio.bin' ;your image
image=findgen(col,row)
openr,unit,filename,/get_lun
readu,unit,image ;read them
free_lun,unit

Gtol=1.0e-2 ;convergence parameter
;initial parameters (height,sigma-x,sigma-y,xzero-position,yzero-position,angle)
par=[max(image),30.,33.,4.,33.,-50*!DtoR]
buffer=size(par)
n=buffer(1)
xi=fltarr(n,n)
for i=0,n-1 do begin
xi(i,i) =1.0 ;initial direction vectors
endfor
;the following to see your initial guess
;f=gaussian(par)
;window,/free,xsize=col,ysize=row
;tvsc!,image
;window,/free,xsize=col,ysize=row
;tvsc!,f0
;window,/free,xsize=500,ysize=350
;surface,image,zrange=[0,max(image)] & surface,f0,zrange=[0,max(image)],color=12,/noerase

;stop

NR_POWELL,par,Xi,Gtol,Fmin,'gaussian',/double,iter=niter ;minimize

print,niter,par ,par(5)*!RaDeg,fmin

window,/free,xsize=col,ysize=row
tvsc!,f0
window,/free,xsize=500,ysize=350
surface,image,zrange=[0,max(image)] & surface,f0,zrange=[0,max(image)],color=12,/noerase

;stop
END

```
