
Subject: Fit a circle ?

Posted by [zeschke](#) on Fri, 08 Nov 2002 09:39:37 GMT

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Hallo,

is there a simple way to fit a circle (a radius) on a set of x,y-points,
which are only come from a small part of the circle ?

I want to use the `mpfitellipse.pro`-Routine (Craig Markwardt).

I tried this without success :

```
.....  
.....  
; Construct a set of points (should be a part of a circle)  
  x= dindgen(100)-50.  
  y= x^2 *1e-8 + 1e-6*randomn(seed, 100)  
  plot,x,y,psym=1  
  
; Fit circle and plot result  
  p = mpfitellipse(x, y,/circular)  
  phi = dindgen(101)*2D*!dpi/100  
  plot, p(2)+p(0)*cos(phi), p(3)+p(1)*sin(phi),/iso  
  oplot, x, y, psym=1  
.....  
.....  
IDL> print,!version  
{ alpha vms vms 5.4 Sep 25 2000    32    32}
```

thanks in advance,
Thomas Zeschke
