
Subject: Re: curvefit

Posted by [kashyap](#) on Mon, 13 Jun 2005 21:50:12 GMT

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In article <1118691431.765056.244800@f14g2000cwb.googlegroups.com>,

<nolan.smith1@gmail.com> wrote:

> Hello,

>

> I am new in IDL and I am trying to fit my data (x,y coordinates) in a

> function of this form:

>

> $y(x) = A / [(1 + x/B)^{1/2}]^2$

>

> so that I can calculate A and B.

>

> I have read the documentation but I am very confused as to how I should

> set up my function to use it at the curvefit.

> Could you please explain to me how to set up the function and how to

> use curvefit correctly?

>

> Thank you,

> Nolan Smith

>

Create a new procedure, say testfun.pro:

```
pro testfun,x,y,par,dfdpar
y=par[0]/((1+x/par[1])^(1./2.))^2
;question: why is this not y=par[0]/(1+x/par[1]) ?
dfdpar=fltarr(n_elements(x),2)
dfdpar[* ,0]=y/par[0]
dfdpar[* ,1]= {partial}y/{partial}B ..
;calculation left as an exercise for the reader!
return
end
```

and then call curvefit as

```
yfit=curvefit(x,y,weights,par,function_name='testfun')
```

vinay

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