
Subject: Re: How to use mpfitfun.pro for fitting?

Posted by [Helder Marchetto](#) on Mon, 27 Jun 2016 11:00:35 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Monday, June 27, 2016 at 6:14:40 AM UTC+1, Meegle_Jade wrote:

> I went through the documentation but I didn't understand it much. Can anyone of you please give me a sample mpfitfun.pro (with the definition of function)?

>

> PS:Infact I am having a set of flux values(measured) for 4 sources at 5 frequency bands. I know the expression of flux and it's a function of 5 parameters.

Hi,

I'm not sure what the problem with the function definition is. In the instructions I found this:

```
; FUNCTION MYFUNCT, X, P
;   ; The independent variable is X
;   ; Parameter values are passed in "P"
;   YMOD = ... computed model values at X ...
;   return, YMOD
; END
```

And it worked for me. But anyhow, below is an example that works well for me (adapted from something that I use):

```
function mySineFunction, x, p
return, p[0] + p[1] * sin(x * p[2] /!radeg + p[3])
end
```

```
pro doTheFit, angles, xPos
.***** fit x *****
,
xSineFit = double(angles)
ySineFit = double(xPos)
yerr = 1
starty = [-800d, 1000d, 1d, -90d]
xResult = mpfitfun('mySineFunction', xSineFit, ySineFit, yerr, startY)
print, xResult
end
```

I hope this helps.

Cheers,
Helder
