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Subject: MPFITFUN AND PARINFO

Posted by [JJMeyers2](#) on Wed, 17 May 2006 15:45:48 GMT

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Hello,

I am trying to use MPFITFUN to fit the sum of 2 Gaussians to my data. I need both of the Gaussians to give curves with positive numbers because a negative value will not make physical sense. When I run the MPFITFUN it gives me 1 Gaussian that has all positive values and one Gaussian that some values are negative. I tried to use PARINFO to constrain the values for the second Gaussian but I think I am using it wrong. Here is what I did:

```
guess_2g=[0.70,0.11,0.3,0.13,532.,1.]
```

```
parinfo(5).limited(0)=1.  
parinfo(5).limits(0)=0.
```

```
fit=mpfitfun('twogauss',X,Y,1,guess_2g,PARINFO=parinfo)
```

and the error message i receive is:

```
% Expression must be a structure in this context: PARINFO.
```

```
% Execution halted at: fit.pro
```

I am only interested in constraining the last number for the guess because that number gives the sign of the second Gaussian. I understand that I will have to make an array like guess\_2g for parinfo but I do not want to do that because I want the program to take the initial values from guess\_2g and just turn to parinfo only for the constraints if it is needed.

Any suggestions on how to do that?

Thank you in advance,  
JJM

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