

---

Subject: Problem with Parinfo on Craig Markwardt's MPFITPEAK

Posted by [Tito](#) on Wed, 27 Jun 2012 13:07:50 GMT

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

---

I am trying to fit Gaussians/Lorentzians with mpfitpeak on which I know the center, the amplitude and the Background offset and I want those 3 to be fixed and I am searching only the Sigma width. I tried this:

```
parinfo = replicate({value:0.0d, fixed:0, limited:[0,0], $
                    limits:[0.0d,0.0d]}, 4)
parinfo[0].fixed    = 1b
parinfo[1].fixed    = 1b
parinfo[2].limited[0] = 1b
parinfo[2].limits[0] = 0.005
parinfo[3].fixed    = 1b
parinfo[*].value    = [1.0d - stell_dep[i],xaxis[index[i]],0.005, 0.0]
```

```
y_fit2 = mpfitpeak(xaxis[minus2+ind:index[i] + ind2],$
                  1-spec[minus2+ind:index[i] + ind2],$
                  p2, parinfo = parinfo)
```

But this just is not working..... As I see it fix the center but all the rest of the parameters are not fixed and I have a terrible fit in the end.

Anybody know what I am doing wrong?

All the best!

Trifon

---

---

Subject: Re: Problem with Parinfo on Craig Markwardt's MPFITPEAK

Posted by [Tito](#) on Fri, 29 Jun 2012 09:44:54 GMT

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

---

Anybody work with mpfitpeak?

I still can't figure out what I am doing wrong...

---

---

Subject: Re: Problem with Parinfo on Craig Markwardt's MPFITPEAK

Posted by [lecacheux.alain](#) on Fri, 29 Jun 2012 15:08:09 GMT

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

---

On 29 juin, 11:44, Trifon Trifonov <tito\_trifo...@abv.bg> wrote:

> Anybody work with mpfitpeak?

> I still can't figure out what I am doing wrong...

I read in Craig's documentation:

ESTIMATES - Array of starting values for each parameter of the  
;  
model. (...) If ESTIMATES is not set,  
;  
then the starting values are estimated from the data  
;  
directly, before fitting. (This also means that  
;  
PARINFO.VALUES is ignored.)

alain.

---

---

Subject: Re: Problem with Parinfo on Craig Markwardt's MPFITPEAK  
Posted by [Craig Markwardt](#) on Sat, 30 Jun 2012 06:45:53 GMT

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

---

On Friday, June 29, 2012 10:08:09 AM UTC-5, alx wrote:  
> On 29 juin, 11:44, Trifon Trifonov <tito\_trifo...@abv.bg> wrote:  
>> Anybody work with mpfitpeak?  
>> I still can't figure out what I am doing wrong...  
>  
> I read in Craig's documentation:  
>  
> ESTIMATES - Array of starting values for each parameter of the  
> ;  
> model. (...) If ESTIMATES is not set,  
> ;  
> then the starting values are estimated from the data  
> ;  
> directly, before fitting. (This also means that  
> ;  
> PARINFO.VALUES is ignored.)  
>  
> alain.

Right. MPFITPEAK is a drop-in replacement for GAUSSFIT. For compatibility it honors the ESTIMATES keyword. Use that keyword.

Sorry about that. At least one other person has been tripped up by this.

Craig

---

---

Subject: Re: Problem with Parinfo on Craig Markwardt's MPFITPEAK  
Posted by [Tito](#) on Mon, 02 Jul 2012 13:22:36 GMT

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

---

Craig, Alain

Sorry for the late answer!

Thanks for the help!

Everything is fine now.

All the best!

---