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Subject: MPFIT: 95% Confidence Interval ?

Posted by [limiq](#) on Wed, 11 Feb 2015 00:20:39 GMT

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Hi everyone,

I was wondering if someone knows how to plot the 95% CI using the MPFIT curve fitting (<http://www.physics.wisc.edu/~craigm/idl/fitting.html>).

In the example I can fit my model but now I need to plot the 95% CI as well as the prediction intervals.

```
;=====
```

```
Pro fitmydata
```

```
X=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
Y=[5, 10, 6, 20, 30, 20, 60, 90, 70, 100]
```

```
expr='P[0]*(X^P[1])'
```

```
start = [1D, 0.5]
```

```
Yfit = MPFITEXPR(expr, X, Y, 1, start)
```

```
fitS=Yfit(0)*(X^Yfit(1))
```

```
cgwindow
```

```
cgplot, X, Y, psym=16, symsize=1, /noerase, /AddCMD
```

```
cgoplot,X, fitS, thick=2, color='red',/AddCMD
```

```
End
```

```
;=====
```

I will appreciate any assistance,

Thanks,

Lim

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