
Subject: mpfitfun

Posted by [Nims](#) on Sun, 20 Jul 2014 07:50:51 GMT

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Hi

I am using mpfitfun for fitting a first order polynomial: $y = ax+b$. To calculate the error on the polynomial, I am using "perror" given by mpfitfun. Could someone tell me which of the two values of perror (perror[0] and perror[1]) corresponds to which coefficient (a and b)?

Thank you.

Subject: Re: mpfitfun

Posted by on Sun, 20 Jul 2014 15:02:38 GMT

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Den söndagen den 20:e juli 2014 kl. 09:50:51 UTC+2 skrev Nims:

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>

> I am using mpfitfun for fitting a first order polynomial: $y = ax+b$. To calculate the error on the polynomial, I am using "perror" given by mpfitfun. Could someone tell me which of the two values of perror (perror[0] and perror[1]) corresponds to which coefficient (a and b)?

>

> Thank you.

That depends on the function that returns the function you are fitting, the name of which you passed to mpfitfun. If it returns $p[0] + p[1]*X$ (which would make sense to me) then perror[0] corresponds the error in b and perror[1] the error in a.

But if you made it return $p[0]*X + p[1]$, then the order of the errors is the opposite.
