
Subject: the problem of PERROR in MPFITFUN

Posted by duxiyu@gmail.com on Thu, 15 Mar 2007 09:17:23 GMT

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In my work, independent variable X is time and measured dependent variable Y is magnetic field. The instrument do not give the measured error.

Do I use 1 in MPFITFUN for errors of Y?

Is the PERROR useless at this time?

I do not understand the following paragraph in the instructions of MPFITFUN.

Who can give me some explanations for it?

```
;      *If* you can assume that the true reduced chi-squared
;      value is unity -- meaning that the fit is implicitly
;      assumed to be of good quality -- then the estimated
;      parameter uncertainties can be computed by scaling PERROR
;      by the measured chi-squared value.
;
;      DOF    = N_ELEMENTS(X) - N_ELEMENTS(PARMS) ; deg of
freedom
;      PCERROR = PERROR * SQRT(BESTNORM / DOF)  ; scaled
uncertainties
```

Best regards,
Du Jian
