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Subject: Re: simultaneous fitting

Posted by [virgil1612](#) on Mon, 12 Nov 2007 16:19:15 GMT

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To hradilv:

- > You're going to have to reform the problem somehow, probably. Maybe
- > you can give some more details?

So it's the same independent variable, values of x between 0 and 1 (phases of a binary star system, representing one complete orbit). I have two columns of datapoints representing two separate variables, that I need to simultaneously fit with two functions that are defined with one common set of parameters. The fitting would give those parameters.

to craig:

- > Fitting programs like LMFIT or MPFIT don't really care how many
- > functions you have. If you have two data sets Y1 and Y2, then you can
- > "glue" them together with a command like this,
- > `Y = [Y1, Y2]`
- > and in your model function, you would do the same thing, something
- > like,
- > `F = [F1(X,P), F2(X,P)]`
- > where F1() and F2() are your different functions, which are functions
- > of the same independent variable and the parameter set P.

Thanks Craig, I'll try to do that.

Cheers, Virgil.

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