Subject: Re: 2D-fit
Posted by Craig Markwardt on Tue, 02 Mar 2004 17:36:18 GMT
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Esa Riihonen <esa@riihonen.st.net> writes:

> Hi all!
>
> I seek advice on fitting a following function with 2-free variables mu and
> phi (Below '.' indicates multiplication and '^2' power of 2):
>
> F(mu,phi) = a0 + a1.mu + a2.mu^2 + (a3.mu + a4.mu^2).cos(phi-phi0),
>
> phi0 is a constant and ai are the fitting parameters.
>
> Measurement set consists of 240 values (10 values for mu and 24 for phi,
> this in effect a polar coordinate grid with 24 'sectors' and 10 'rings').

Greetings, in addition to Paul's reply, I would like to mention that my FAQ contains discussion of fitting functions of more than one variable. And, if you have an even spaced 2D grid, then you can likely use MPFIT2DFUN.

Craig

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