
Subject: Re: MPFIT2DPEAK with constraints

Posted by [Craig Markwardt](#) on Fri, 10 Oct 2003 03:00:26 GMT

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c.carrano@att.net (Charles Carrano) writes:

- > Greetings. I'm trying to understand how Craig
- > Markwardt's peak fitting function MPFIT2DPEAK
- > works when you wish to require that certain
- > parameters be held constant.
- >
- > Specifically, I know that my data should peak
- > at the origin and so I'd like to force the
- > fitted Gaussian to peak there as well.
- >
- > Despite specifying that A[4] and A[5] be
- > fixed using the PARINFO structure, the fitted
- > Gaussian is not centered at the origin.
- > Supplying PARINFO to MPFIT2DPEAK does change
- > the fit but it actually makes it slightly worse.
- > Anyone know what I might be doing wrong?

Greetings--

- > zfit = mpfit2dpeak(z, a1, x, y, /tilt, PARINFO=pi)

The documented way to enter the initial parameters to MPFIT2DPEAK is using the ESTIMATES keyword.

Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
