Subject: Re: MPFIT2DPEAK with constraints Posted by c.carrano on Fri, 10 Oct 2003 14:51:18 GMT

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Craig Markwardt <craigmnet@REMOVEcow.physics.wisc.edu> wrote in message news:<onzng9lrud.fsf@cow.physics.wisc.edu>...

- > 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 slighly 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

Thank you. I had inadvertently confused the functions of the parinfo.value and ESTIMATES parameters. Passing ESTIMATES=a0 to mpfit2dpeak fixes the sample code above. Thank you for your help and, of course, your valuable software contribution to the scientific community.

- Charles