
Subject: Re: Voigt function in mpfit

Posted by [Craig Markwardt](#) on Wed, 25 Oct 2017 19:28:30 GMT

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On Wednesday, October 25, 2017 at 7:15:59 AM UTC-4, abc wrote:

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> HI, I have set of data of an absorption spectra and I want to fit the voigt profile using mpfit. The
function I am using is http://www.heliiodocs.com/php/xdoc_print.php?file=$SSW/yohkoh
/lucon/idl/metcalfe/voigt.pro
> But I am getting error as
> GDL> res=mpfit('voigt',p0,functargs=fa)
> % VOIGT: function VOIGT takes 2 params: 'Result = VOIGT(A,U)'
```

First of all, the VOIGT you linked to is a procedure, not a function. MPFIT only works with functions, not procedures. It tries to call VOIGT() as a function, and it gets the system version. Is that what you want?

Second of all, VOIGT has two inputs. How are those meant to be passed? You don't show it in your example.

Third, where is the data? What you showed is just a bare call to VOIGT. Don't you want to compare the VOIGT function results to some data? MPFIT() by itself wants you to compute the residuals. Or, if you don't want to do that, you can use MPFITFUN instead, but you still need data.

Fourth, what are the parameters? Are you trying to solve for A and V?

Craig
