
Subject: Re: Fourier fit

Posted by [Wox](#) on Mon, 14 May 2007 11:12:30 GMT

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On 14 May 2007 01:14:10 -0700, laurasperoni79@yahoo.it wrote:

> Hello, for my thesis I need to compile a program in IDL that can give
> me automatically the best Fourier fit for light curves of Cepheids,
> take the dates from a list in txt and show me the graphic of these
> curves.
> I've also to understand a little program who compile my teacher but
> it's derived from Fortran and is not so easy.
> Can anybody help me to write my program? Ideas? Suggests?
> Thanks

Fourier fitting is a non linear least squares problem. I don't really know what you want here, but maybe Marc Buie's fourfit gets you started (<http://www.lowell.edu/users/buie/idl/downloads/>)?

Subject: Re: Fourier fit

Posted by [Wox](#) on Mon, 14 May 2007 11:44:37 GMT

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On Mon, 14 May 2007 13:12:30 +0200, Wox <nomail@hotmail.com> wrote:

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I see there's also a profile lcfite.pro: "Fit a lightcurve function".

Subject: Re: Fourier fit

Posted by [Christopher Thom](#) on Mon, 14 May 2007 17:16:13 GMT

Quoth laurasperoni79@yahoo.it:

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- > I've also to understand a little program who compile my teacher but it's
- > derived from Fortran and is not so easy. Can anybody help me to write my
- > program? Ideas? Suggests?

To help you write your programme, I would suggest david's book:

<http://www.dfanning.com/documents/books.html>

especially as you seem new to the IDL universe. It will be money very well spent, and many hours of frustration saved.

cheers

chris
