
Subject: Re: Smoothing Data with optimal wiener filter

Posted by [schaa](#) on Tue, 25 May 2004 12:04:23 GMT

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Timm Weitkamp <not@this.address> wrote in message
news:<Pine.LNX.4.44.0405241902270.1251-100000@localhost.localdomain>...

> Ralf,

>

> The derivatives that your code makes look okay. What makes you think they're
> wrong? I ran your program and then checked the derivatives against the
> simplest of all approximations, like this (for the first derivative,
> analogous for the second):

>

> IDL> plot, x, (smoothed_data[1:*] - smoothed_data) / (x[1:*] - x)

> IDL> oplot, x, first_diff, linestyle=2

>

> In both cases (1st and 2nd derivative), the curves more or less match one
> another, as should be expected. Where's the problem? Maybe I overlooked
> something.

great! you are right, there is no problem!

i thought there was, because i had plot-ranges which were simply wrong.

right now , i am very happy.

Thanks for the comment!

-Ralf
