Subject: errors in robust_linefit
Posted by tflagana on Fri, 06 Nov 2015 12:42:12 GMT
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Hi all,

I am using the IDL procedure "robust_linefit" and I was wondering how to obtain the error bars in the coefficient vector (I just get A and B but I also need errA and errB. Is there a more appropriate routine to use ?

Thanks in advance,
Tatiana

Subject: Re: errors in robust_linefit
Posted by wlandsman on Fri, 06 Nov 2015 12:54:06 GMT
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Use the coef_sig parameter. --Wayne

On Friday, November 6, 2015 at 7:42:16 AM UTC-5, tfla...@gmail.com wrote:
> Hi all,
>
> I am using the IDL procedure "robust_linefit" and I was wondering how to obtain the error bars in the coefficient vector (I just get A and B but I also need errA and errB. Is there a more appropriate routine to use ?
>
> Thanks in advance,
> Tatiana

Subject: Re: errors in robust_linefit
Posted by tflagana on Mon, 09 Nov 2015 15:38:55 GMT
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I guess that the coef_sig gives the error in the Yfit values....at least that's what I've got.

Subject: Re: errors in robust_linefit
Posted by wlandsman on Mon, 09 Nov 2015 16:26:01 GMT
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On Monday, November 9, 2015 at 10:38:58 AM UTC-5, tfla...@gmail.com wrote:
> I guess that the coef_sig gives the error in the Yfit values....at least that's what I've got.

No the coef_sig parameter gives the error in the coefficients. Check the documentation http://idlastro.gsfc.nasa.gov/ftp/pro/robust/robust_linefit. pro

```
IDL> x = findgen(10)
IDL> y = x + randomn(seed,10)*0.25
IDL> coeff = robust_linefit(x,y,yfit,sig,coef_sig)
IDL> print,coeff,coef_sig
   -0.188812      1.02746
   0.0756120    0.0212272
```