
Subject: Poly_Fit

Posted by [dtakir](#) on Tue, 06 Aug 2013 19:07:29 GMT

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I'm having a problem using poly_Fit in IDL. It doesn't generate the same coefficients as excel especially for orders > 3? Does anyone know?

```
result = POLY_FIT(lamk, speck ,4)
```

Thanks,

Subject: Re: Poly_Fit

Posted by [Heinz Stege](#) on Tue, 06 Aug 2013 20:45:15 GMT

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On Tue, 6 Aug 2013 12:07:29 -0700 (PDT), dtakir@gmail.com wrote:

> I'm having a problem using poly_Fit in IDL. It doesn't generate the same coefficients as excel especially for orders > 3? Does anyone know?

>

> result = POLY_FIT(lamk, speck ,4)

>

> Thanks,

How do you know, that you have a problem with poly_fit? May be, you have a problem with Excel.

Cheers, Heinz

Subject: Re: Poly_Fit

Posted by [wlandsman](#) on Tue, 06 Aug 2013 21:42:16 GMT

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The output keywords to POLY_FIT can be useful

```
IDL> result = POLY_FIT(lamk, speck, 4, STATUS=STATUS, YFIT=yfit)
```

The value of status will tell you if there were any problems encountered during the fit.

You can use the yfit vector to see if the fit makes sense

```
IDL> plot,lamk,speck
```

```
IDL> oplot, lamk, yfit
```

As noted in the documentation to the STATUS keyword, fitting problems -- especially if they only

occur when fitting high orders -- can often be solved by doing everything in double precision.

--Wayne

On Tuesday, August 6, 2013 3:07:29 PM UTC-4, dta...@gmail.com wrote:

> I'm having a problem using poly_Fit in IDL. It doesn't generate the same coefficients as excel especially for orders > 3? Does anyone know?

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>

>

> result = POLY_FIT(lamk, speck ,4)

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> Thanks,
